

Spectrur Occupie		er 1 🗸	+								₽	Trace	۲	$\frac{x^{1}z}{z^{1}x}$
KEYSI RL		nput: RF Coupling: DC Align: Auto	Input Z: : <mark>Corr</mark> CCo Freq Ref	orr E Int (S)	Atten: 36 dB	Gate:	Free Run Off ain: Low	Center Freq Avg Hold: 1 Radio Std: N		) GHz		e Type lear / Write	Trace Contr	
1 Graph		•	NFE: Of								П	ace Average	Deteo	tor
Scale/D Log 30.0	iv 10.0 d	IB		R	ef Value 40.0	0 dBm						ax Hold		
30.0 20.0 10.0				manne	ปกรหระบาทสาย	undatungga	wallwardship				СМ	in Hold		
0.00											Re	start Max Hold		
-30.0 -40.0	howborn	www.wahi	ntherese and the second se					manderedge	kanshinikaala	ha langanangan				
-50.0 Center 2				#V	ideo BW 4.00	000 MHz				an 125 MHz				
Res BW 2 Metrics		MHz v						Sw	eep 1.00 m	s (1001 pts)				
	Occupi	ed Bandwidth 47.3	1 702 MHz			Total	l Power		29.8 dE	3m				
		iit Freq Error andwidth		208.55 kHz 50.86 MHz		% of x dB	OBW Powe	er	99.00 -26.00					
	ッつ		<b>?</b> Nov 25 6:21:0	i, 2022 08 AM										

Plot 7-160. Occupied Bandwidth Plot (NR Band n41 - 50MHz QPSK - Full RB Switching - Ant B)

Spectrue Occupie	ed BW	zer 1 Input: RF	Input Z:	50 Ω	Atten: 36 dB	Tria: F	ree Run	Center Freq	2.59302000	) GHz	*	Trace	v 送
R L		Coupling: D Align: Auto		f: Int (S)		Gate: #IF Ga	Off ain: Low	Avg Hold: 10 Radio Std: N			Trace Type Clear / '		Control
1 Graph		•									Trace A	verage	Delector
Scale/D Log 30.0	0iv 10.0	dB		R	tef Value 40.0	00 dBm					Max Ho	old	
20.0 10.0				panterent alpha	hand the summer h	<u>ትላታክ<sub>የረ</sub>ላብዘበላ</u>	mininternety				Min Hol	d	
0.00	<b>h</b>										Restart I	Max Hold	
-30.0 <sup>424</sup> -40.0 —	and and a second	W Land	ur benyernetationst					Thilling the second	phymenessy	harpenneringen			
-50.0 Center :	2.59302	GHz		#V	ideo BW 4.0	000 MHz			Sp	an 125 MHz			
Res BW		MHz						Sw	eep 1.00 m	s (1001 pts)			
2 Metrics	s	•											
	Occup	ied Bandw	idth 47.712 MHz			Total	Power		29.9 df	3m			
	Transr	nit Freq Er		81.010 kHz			OBW Powe	er	99.00				
		andwidth		50.61 MHz		x dB			-26.00				
	5	2		5, 2022 17 AM									

Plot 7-161. Occupied Bandwidth Plot (NR Band n41 - 50MHz 16-QAM - Full RB Switching - Ant B)

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Spectrum Occupied	Analyzer 1 BW	+							ace 🔻 🔆
	GHT Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 36 dB	Trig: Free Run Gate: Off #IF Gain: Low	Avg H	r Freq: 2.5930200 old: 100/100 Std: None	000 GHz	Trace Type Clear / Write	Trace Control
LN 1 Graph		NFE: Off						Trace Average	Detector
Scale/Div Log 30.0 20.0	/ 10.0 dB		Ref Value 40.00	D dBm				<ul> <li>Max Hold</li> <li>Min Hold</li> </ul>	
10.0 0.00 -10.0 -20.0 -30.0	antra analanta ana anala	manderland			mener	Angeler J. Gerarden and	n francisco Matri	Restart Max H	old
-40.0	59302 GHz		Video BW 3.00	00 MHz			Span 100 MHz		
	910.00 kHz						ms (1001 pts)		
	Occupied Bandwidth 36.18	33 MHz		Total Power		31.6	dBm		
	Transmit Freq Error x dB Bandwidth	-1.1397 MH 38.07 MH		% of OBW Pov x dB	ver	99. -26.0	00 % I0 dB		
4		Nov 25, 2022 6:24:44 AM							

Plot 7-162. Occupied Bandwidth Plot (NR Band n41 - 40MHz π/2 BPSK - Full RB Switching - Ant B)

Spectrum Analyzer 1 Occupied BW	<b>+</b>				Trace	- * 崇
KEYSIGHT Input: RF R L ↔ Coupling Align: Au	DC Corr CCorr	Atten: 36 dB	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 GHz Avg Hold: 100/100 Radio Std: None	Trace Type Clear / Write	Trace Control
1 Graph	•				Trace Average	
Scale/Div 10.0 dB Log		Ref Value 40.00 d	Bm		Max Hold	
30.0	prod particular	his good souther water	- Marian Marial A. Martin Marine		Min Hold	
10.0					Restart Max Hold	
-20.0 -30.0 mar al anti-al anti-	mand and a start			Wallan in the second and the second with the		
-40.0						
Center 2.59302 GHz Res BW 910.00 kHz		#Video BW 3.0000	MHz	Span 100 MHz Sweep 1.00 ms (1001 pts)		
2 Metrics	•					
Occupied Ban	dwidth 38.044 MHz		Total Power	29.6 dBm		
Transmit Freq			% of OBW Powe			
x dB Bandwidt	th 40.37 M	HZ	x dB	-26.00 dB		
<b>1</b> 26	Nov 25, 2022 6:22:01 AM					

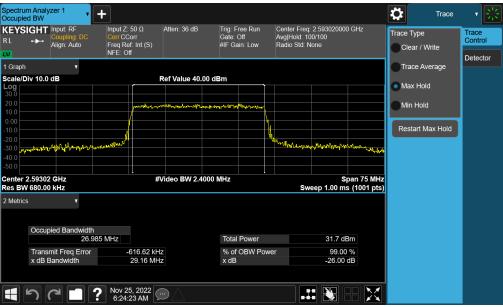
Plot 7-163. Occupied Bandwidth Plot (NR Band n41 - 40MHz QPSK - Full RB Switching - Ant B)

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Spect Occu	rum Analy bied BW	/zer 1 🔻	+								₽	Trace	▾	崇
KEY RL	SIGHT	Input: RF Coupling: DC Align: Auto	Input Z: Corr CC Freq Re	orr f: Int (S)	Atten: 36 dB	Gate	Free Run Off ain: Low	Center Freq Avg Hold: 1 Radio Std: 1		0 GHz		: Type lear / Write	Trace Control	
1 Gra			NFE: Of	f								ace Average	Detecto	r
Scale	/Div 10.0	dB		R	ef Value 40.	00 dBm						ace Average		
Log 30.0 20.0														
10.0				portraditor	yayarta dalayyayaa	and and a start and a start and a start	- الماية المراجع الماية الماية الم	1			ОМ	in Hold		
0.00 -10.0											Re	start Max Hold		
	ay how my	huyhiinyhinhhiniyi	paning ng mga ng mg Ng mga ng mga					1mm wheth	nt how with the	-th <b>rithen</b> Andreh				
-40.0 -50.0														
	er 2.5930 3W 910.0			#V	ideo BW 3.0	000 MHz		Sw	Sp /eep 1.00 m	an 100 MHz s (1001 pts)				
2 Met	rics	T								,				
	Occu	bied Bandwidth 37.9	י 970 MHz			Tota	l Power		29.6 dl	Bm				
		mit Freq Error Bandwidth		77.725 kHz 40.14 MHz		% o x dE	f OBW Powe	er	99.00 -26.00					
	A UB I	Sandwidth		40.14 MINZ		Xut	,		-20.00	ub				
	5	2	<b>?</b> Nov 25 6:21:4	5, 2022 19 AM										

Plot 7-164. Occupied Bandwidth Plot (NR Band n41 - 40MHz 16-QAM - Full RB Switching - Ant B)



Plot 7-165. Occupied Bandwidth Plot (NR Band n41 - 30MHz  $\pi/2$  BPSK - Full RB Switching - Ant )

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Occupie		•	+									Trace	۲	517 748
RL RL	IGHT Input: I Couplin Align: J	ng: DC	Input Z: Corr CCo Freq Ref	orr : Int (S)	Atten: 36 dB	Gate:	ree Run Off ain: Low	Center Free Avg Hold: 1 Radio Std:		) GHz	Trace Cl	Type ear / Write	Trac Cont	
LXI 1 Graph		•	NFE: Off								Tr	ace Average	Dete	ctor
Scale/D Log 30.0	iv 10.0 dB			I	Ref Value 40.	00 dBm					<u>о</u> м	ax Hold		
20.0				mum	hallana	৾৾৾৾৻৽৻৸৽৽৾৵৵৵৻৸৽	-hallond-shellon				См	in Hold		
0.00											Re	start Max Hold		
-20.0 -30.0	application of the	mersphe	u hunnan an					MANNANNI	handlathangela	Mahilyinnyunyunyu				
-50.0	2.59302 GHz				Video BW 2.4					pan 75 MHz				
	/ 680.00 kHz			#	VILLEO BVV 2.4			Sv	veep 1.00 m					
2 Metrics		▼												
	Occupied Ba		19 MHz			Total	Power		29.7 dE	Зm				
	Transmit Fre x dB Bandwi			3.021 kH: 29.73 MH:		% of x dB	OBW Pow	er	99.00 -26.00					
	うて		Nov 25 6:22:2											

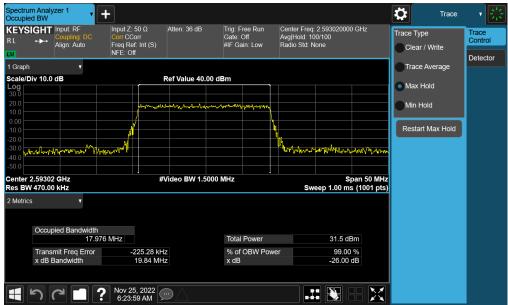
Plot 7-166. Occupied Bandwidth Plot (NR Band n41 - 30MHz QPSK - Full RB Switching - Ant B)

Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Corr Corr	Atten: 36 dB	Trig: Free Run Gate: Off	Center Freq: 2.593020000 GHz AvalHold: 100/100	Trace Type	Trace
RL Align: Auto Freq Ref: Int (S		#IF Gain: Low	Radio Std: None	Clear / Write	Control
1 Graph v				Trace Average	Detector
Scale/Div 10.0 dB	Ref Value 40.00 d	Bm			
Log 30.0				Max Hold	
20.0 10.0	watersallen	www.		Min Hold	
0.00					
-10.0 -20.0			Makak du n	Restart Max Hold	
-20.0 -30.0			MM Mary Mar man Mar		
-40.0					
Center 2.59302 GHz	#Video BW 2.4000	MHz .	Span 75 MHz		
Res BW 680.00 kHz 2 Metrics			Sweep 1.00 ms (1001 pts)		
Occupied Bandwidth					
28.004 MHz		Total Power	29.1 dBm		
Transmit Freq Error -57.634 x dB Bandwidth 29.51		% of OBW Powe			
x dB Bandwidth 29.51		x dB	-26.00 dB		
	-				
E 5 C 5 2022 6:22:35 AM			🏭 🔛 🔛 🔀		

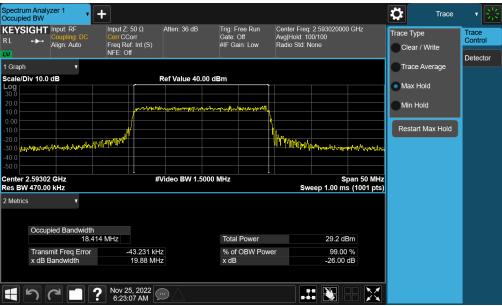
Plot 7-167. Occupied Bandwidth Plot (NR Band n41 - 30MHz 16-QAM - Full RB Switching - Ant B)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager				
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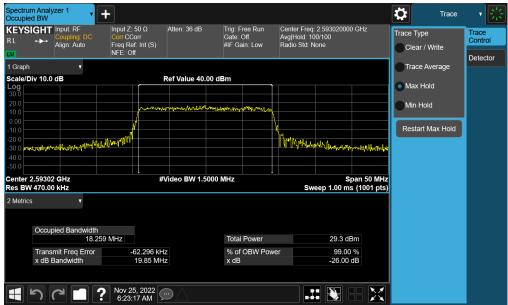
Plot 7-168. Occupied Bandwidth Plot (NR Band n41 - 20MHz π/2 BPSK - Full RB Switching - Ant B)



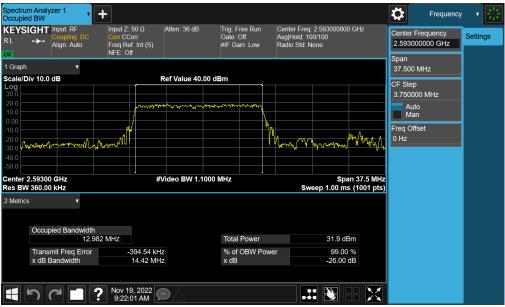
Plot 7-169. Occupied Bandwidth Plot (NR Band n41 - 20MHz QPSK - Full RB Switching - Ant B)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager			
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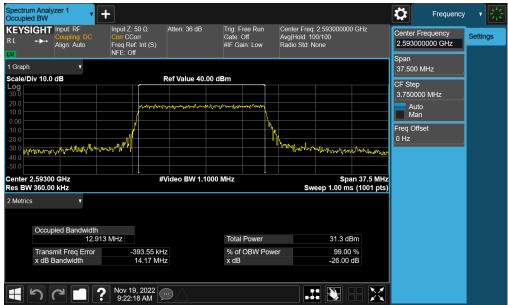
Plot 7-170. Occupied Bandwidth Plot (NR Band n41 - 20MHz 16-QAM - Full RB Switching - Ant B)



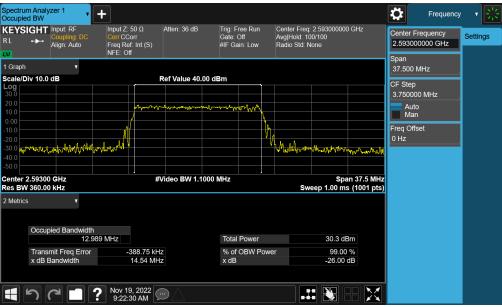
Plot 7-171. Occupied Bandwidth Plot (NR Band n41 - 15MHz  $\pi/2$  BPSK - Full RB Switching - Ant )

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager			
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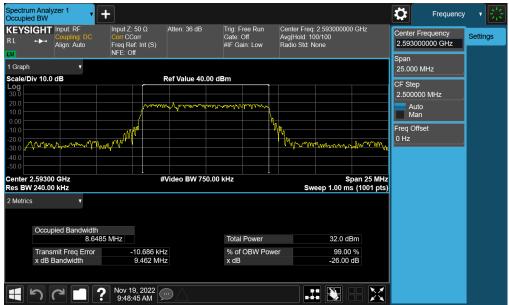
Plot 7-172. Occupied Bandwidth Plot (NR Band n41 - 15MHz QPSK - Full RB Switching - Ant B)



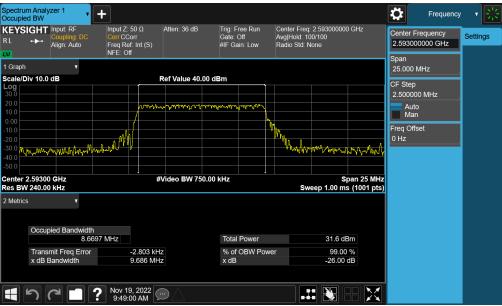
Plot 7-173. Occupied Bandwidth Plot (NR Band n41 - 15MHz 16-QAM - Full RB Switching - Ant B)

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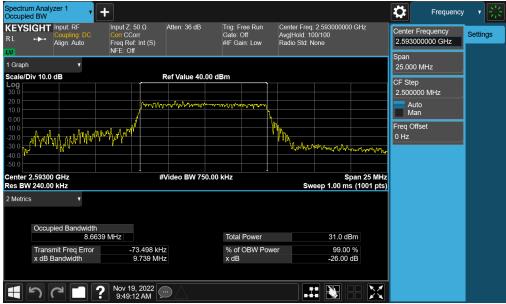
Plot 7-174. Occupied Bandwidth Plot (NR Band n41 - 10MHz π/2 BPSK - Full RB Switching - Ant B)



Plot 7-175. Occupied Bandwidth Plot (NR Band n41 - 10MHz QPSK - Full RB Switching - Ant B)

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Plot 7-176. Occupied Bandwidth Plot (NR Band n41 - 10MHz 16-QAM - Full RB Switching - Ant B)

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

For LTE/NR Band 7 and 41, the minimum permissible attenuation level of any spurious emission is 55 + 10log<sub>10</sub>(P<sub>[Watts]</sub>).

#### 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

#### 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.

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### LTE Band 30 – ANT A

	sight Spect	rum Analyzer										
LXI RL		RF 5	50 Ω AC	CORREC	SEN	SE:INT SOU	RCE OFF	ALIGN AUTO		1 Oct 05, 2022	Fi	requency
PAS	S			PNO: Fast ↔ IFGain:Low	Trig: Free Atten: 30				TYP			
10 dB	(dia	Ref 20.0	0 dBm					Mk	r1 2.22	50 GHz 81 dBm		Auto Tune
Loa 🗖		1 Pass	UBIII									
	Hace	11 455									(	Center Freq
10.0											1.15	9000000 GHz
0.00												Start Freq
-10.0 -											30	0.000000 MHz
10.0												
-20.0												Stop Erog
											2.28	Stop Freq 8000000 GHz
-30.0											2.20	000000000112
												CF Step
-40.0											225	6.800000 MHz
										<b>1</b>	<u>Auto</u>	Man
-50.0 -												
-60.0	-			weeks a stand the same production								Freq Offset
-00.0												0 Hz
-70.0												
												Scale Type
	~ ~ ~ ~								01		Log	Lin
	0.030 BW 1	GHZ .0 MHZ		#VBIA	( 3.0 MHz			Sweep 3	Stop 2	288 GHz	LUg	
MSG		w militz			0.0 1911 12			STATUS		ien proj		
								014100				

Plot 7-177. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant A)



Plot 7-178. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant A)

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		trum Analy											[	
L <mark>XI</mark> RL		RF	50 Ω	AC	CORREC		SEI	ISE:INT SOU		ALIGN AUTO Type: RMS		M Oct 05, 2022	Fre	quency
					PNO: P	ast 🔸	Trig: Fre	Run	#Avg	Type. RMS	TY	PE A WWWWW ET A NNNNN		
PAS	S				IFGain:		Atten: 10	dB			0			
										Mki	1 26.17	8 5 GHz		Auto Tune
10 dB Log r	3/div	Ref 0.	00 dB	sm							-51.8	8 5 GHz 49 dBm		
	Trace	1 Pass	5										c	enter Frea
-10.0														
-10.0													21.000	000000 GHz
-20.0														Start Freq
														000000 GHz
-30.0													15.000	000000 GHZ
-40.0														Stop Freq
												4	27 000	000000 GHz
-50.0												<b>↓ ♦ '  </b>	27.000	000000 0112
												L 🔨 ا		
-60.0											and the second sec			CF Step
				a la gara					and the second second					000000 GHz
-70.0		-	and the second second	Lines, all the									<u>Auto</u>	Man
-70.0														
													F	req Offset
-80.0														0 Hz
-90.0														
													S	Scale Type
Store	15.00										Stop 2		Log	Lin
		00 GHz 1.0 MH				#\/B\M	3.0 MHz			Sweep 30	Stop 2/	.000 0112		
			2			#VDVV	3.0 191112					24001 pts)		
MSG										STATUS	3			

Plot 7-179. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant A)

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### LTE Band 30 – Ant F

🚾 Keysight Spectrum Analyzer - Swept SA					
LXX RL RF 50Ω AC		NSE:INT SOURCE OFF #Avg Typ	e: RMS TF	5 AM Oct 05, 2022 RACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
PASS 10 dB/div Ref 20.00 dBm	PNO: Fast + Trig: Fre IFGain:Low Atten: 30		Mkr1 2.2	58 5 GHz 1.92 dBm	Auto Tune
Trace 1 Pass					Center Freq 1.159000000 GHz
-10.0					Start Freq 30.000000 MHz
-20.0					<b>Stop Fred</b> 2.288000000 GHz
-40.0				1	CF Step 225.800000 MHz Auto Mar
-60.0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Freq Offse 0 Hz
Start 0.030 GHz			Stop	2.288 GHz	Scale Type
#Res BW 1.0 MHz	#VBW 3.0 MHz		Sweep 3.011 m	s (4517 pts)	

Plot 7-180. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant F)



Plot 7-181. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant F)

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		trum Analy	zer - Swe	pt SA										
L <mark>XI</mark> RL		RF	50 Ω	AC	CORREC		SE	SE:INT SO		ALIGN AUTO		M Oct 05, 2022	Fre	quency
	•				PNO: F	ast 🔸	Trig: Fre		#Avg	ype. Kwo	TY			
PAS	<u>s</u>				IFGain:	Low	Atten: 10	) dB						Auto Tune
										Mk	r1 26.18	1 0 GHz		Auto Tune
10 dB Log r	3/div	Ref 0.	00 dB	3m							-51.4	15 dBm		
Log	Trace	1 Pass	;											
-10.0														enter Freq
-10.0													21.000	000000 GHz
-20.0														
-20.0														Start Freq
-30.0														000000 GHz
30.0														
-40.0														
40.0														Stop Freq
-50.0													27.000	000000 GHz
00.0												A I		
-60.0										مغاده ورسال ورسوهم				CF Step
					والمحادثة والمحادث	and the second					and the second		1.200 Auto	000000 GHz Man
-70.0				an a	and here is a second		in the second second						Auto	IVIAII
-80.0													F	req Offset
														0 Hz
-90.0														
													S	cale Type
													1.00	Lin
		0 GHz				43./153.44	0.0 MU-			0	Stop 27	.000 GHz	Log	Lin
	BW 1	1.0 MH	2			₩ABM	3.0 MHz					24001 pts)		
MSG										STATU	JS			

Plot 7-182. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant F)

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### LTE Band 7 – ANT B

RL	RF	50 Ω AC			SEN	ISE:INT SO		ALIGN AUTO	06:14:20	M Oct 05, 2022		
	N	5032 AG			Trig: Free			ype: RMS	TRA	CE 1 2 3 4 5 6 (PE A WWWWW	Fr	equency
PASS			PNO: IFGain	Fast ↔ :Low	Atten: 30					ANNNN		
0 dB/div	Ref 20	.00 dBn	n					N	1kr1 2.45 -51	6 5 GHz 13 dBm		Auto Tui
.og Trac	e 1 Pass				````						-	enter Fr
10.0												2500000 G
00.00												Start Fr
											30	.000000 M
10.0												
20.0												Stop Fr
											2.47	5000000 G
30.0												
40.0												CF St
.0.0										4	244 <u>Auto</u>	.500000 M N
50.0										<b>\</b>	Auto	IV.
		م وال الم الم الم الم الم الم الم الم الم ا	Northern Andrewson of Street, or	ant-territorio del	Name of the other designment o	الاددىميتين إياد فعلى	alan and a low areas and		inel excepter teacher of the			Freq Offs
50.0												0
70.0												
0.0												Scale Ty
									<u>Ctore</u>		Log	
tart 0.03 Res BW	30 GHZ 1.0 MHz			#VBW	3.0 MHz			Sweep	3.260 ms	2.475 GHz (4891 pts)	209	
sg								STAT				

Plot 7-183. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



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	Spectrum Anal											
L <mark>XI</mark> RL	RF	50 Ω	AC	CORREC	SE	NSE:INT SO		ALIGN AU /pe: RMS		M Oct 05, 2022	Fred	quency
PASS				PNO: Fast ↔ IFGain:Low	Trig: Free     Atten: 10		#Avg 1		TY D			
10 dB/div Log	Ref 0.	.00 dB	m					M	lkr1 26.20 -51.9	5 0 GHz 88 dBm	A	uto Tun
Tra	ice 1 Pas	S				Ĭ					Ce	enter Free
-10.0											21.0000	00000 GH
-20.0												Start Fre
-30.0											15.0000	00000 GH
-40.0												Stop Fre
-50.0										<u>1</u>		00000 GH
										$\sim$		CF Ste
-60.0	~~~~			~~~~	-						1.2000 <u>Auto</u>	00000 GH Ma
-70.0											E.	eq Offs
-80.0												01
-90.0											9	cale Typ
	000 00								Otom 27			Li
	.000 GHz V 1.0 MH			#VBV	V 3.0 MHz			Sweep	Stop 27 30.40 ms (2	7.000 GHz 24001 pts)	209	<u>L</u>
MSG								ST	ATUS			

Plot 7-185. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



Plot 7-186. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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Plot 7-187. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)



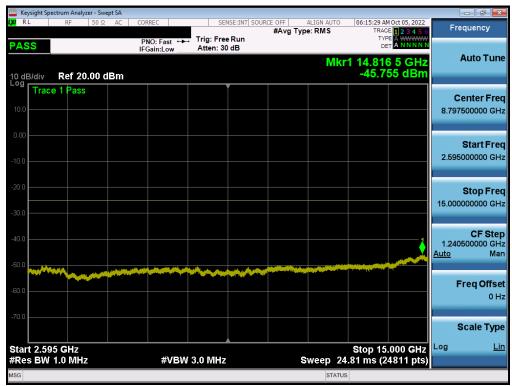
Plot 7-188. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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	um Analyzer - Swep									
LXI RL	RF 50 Ω	AC CO	RREC	SEN	ISE:INT SOU	RCE OFF	ALIGN AUTO e: RMS	06:15:18 AM TRACE	Oct 05, 2022	Frequency
PASS	Ref 20.00 dl	IF	NO: Fast ↔ Gain:Low	→ Trig: Free Atten: 30			Mk	TYPE DET	A WWWWW A N N N N N	Auto Tune
		<b>D</b> 111								Center Freq 1.265000000 GHz
-10.0										Start Freq 30.000000 MHz
-20.0										<b>Stop Freq</b> 2.500000000 GHz
-40.0									1	<b>CF Step</b> 247.000000 MHz <u>Auto</u> Man
-60.0 <b>-60.0</b>	40000 in 1000000	<del>ale gistaliyaştir.<sup>1</sup> tel<sup>i</sup></del>					an an an air an			<b>Freq Offset</b> 0 Hz
-70.0 Start 0.030 (			-4\/P\4					Stop 2.	000 0112	Scale Type
#Res BW 1.	UTVIHZ		#VBM	/ 3.0 MHz			Sweep 3 STATUS	.293 ms (4	941 pts)	

Plot 7-189. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)



Plot 7-190. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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Plot 7-191. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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### LTE Band 7 – Ant F

RL	ectrum Analy: RF	50 Ω		CORREC	SEL	SE:INT SO	LIRCE OFF	ALIGN AUTO	07:23:51.4	M Oct 05, 2022		
	TV.	50.35	AC	CONTREC	50	52.1141 50		/pe: RMS	TRA	CE 1 2 3 4 5 6	Frequ	ency
PASS				PNO: Fast ++ IFGain:Low	Trig: Free Atten: 30				TY D			
0 dB/div	Ref 20	).00 di	Bm					Μ	kr1 2.47 -51.	3 0 GHz 16 dBm	Au	to Tun
00	e 1 Pass				<u> </u>							
											Cen	ter Fre
10.0											1.252500	000 GI
0.00												
												artFr
10.0											30.000	000 M
20.0												
												op Fr
30.0											2.475000	0000 G
30.0												
40.0												CF St
40.0											244.500	
50 Q										1	<u>Auto</u>	М
50.0										-		
and and designed		-	and the second	And a second	and the second		and the owner of the local division of the l				Fre	q Offs
60.0												. 0
70.0												
											Sca	le Ty
Start 0.03	0.04-								Eton (	2.475 GHz	Log	L
fart 0.03		,		#\/B\A	/ 3.0 MHz			Sweep	3 260 ms	(4891 pts)		-
				#*D94				oweep	0.200 1115	(403   pl3)		_

Plot 7-192. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)



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	Spectrum Anal											
KA RL	RF	50 Ω	AC	CORREC	SE	NSE:INT SC		ALIGN AU ype: RMS		AM Oct 05, 2022	Fr	requency
PASS				PNO: Fast ↔ IFGain:Low	Trig: Free Atten: 10		#Avg 1	ype. Kivis				
10 dB/div	Ref 0	.00 dB	m					N	lkr1 26.2 -51.	33 5 GHz 737 dBm		Auto Tun
Log Tra	ice 1 Pas	s				Ĭ					(	Center Fre
-10.0											21.00	0000000 GH
-20.0												Start Fre
-30.0											15.00	0000000 GH
-40.0												Oter En
-50.0										▲1	27.00	Stop Fre 0000000 GI
-50.0												CF Ste
-60.0					-			and the second second			1.20 Auto	0000000 GI Mi
70.0												
80.0												Freq Offs
90.0												
												Scale Ty
	.000 GHz N 1.0 MH			#VBV	V 3.0 MHz			Sween	Stop 2	27.000 GHz (24001 pts)	Log	L
ISG				<i>"</i> • • • •	e ele mille				ATUS	(Energia pro)		

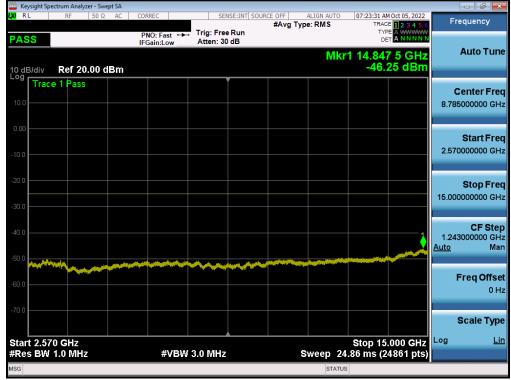
Plot 7-194. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

RL	pectrum Analy RF	50 Ω	AC	CORREC		SE	NSE:INT SC	URCE OFF	ALIGN AUTO	07:23:16	AM Oct 05, 2022		
					Fast ↔				ype: RMS	TRA T	CE 1 2 3 4 5 6	Fr	equency
ASS				IFGair		Atten: 3				0	DET A N N N N N		
									N	lkr1 2.49	9 0 GHz		Auto Tun
0 dB/div	Ref 20	).00 dE	3m							-51	.09 dBm		
<sup>og</sup> Trac	ce 1 Pass						Ĭ						
10.0													Center Fre
0.0												1.26	5000000 GH
).00													
													Start Fre
10.0												30	.000000 MI
0.0													
20.0													
													Stop Fre
30.0												2.50	0000000 GI
0.0													
10.0													CF Ste
												247 Auto	000000 MI. M
50.0												Auto	IVIO
							and the second second				an and the state of the second se		
io.o <b>****</b> *****		*****	*****	angenite il pu									Freq Offs
													01
0.0													
													Scale Typ
												Log	
tart 0.0										Stop :	2.000 0112	Log	L
Res BW	1.0 MH	2			#VBW	/ 3.0 MHz			sweep	3.293 ms	(4941 pts)		

Plot 7-195. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

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Plot 7-196. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)



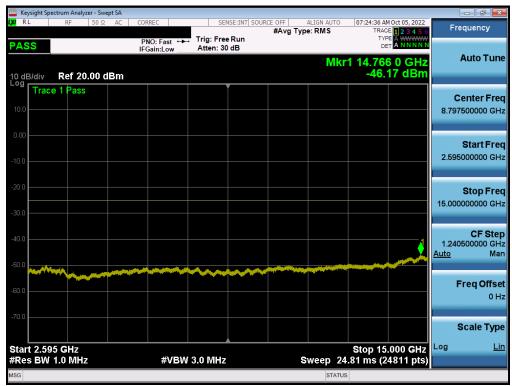
Plot 7-197. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

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	m Analyzer - Swe									
L <mark>XI</mark> RL	RF 50 Ω	AC (	CORREC	SEI	SE:INT SO	URCE OFF	ALIGN AUTO e: RMS	07:24:22 AM 0 TRACE	<b>2345</b> 6	Frequency
PASS			PNO: Fast ↔ IFGain:Low	Atten: 30				DET		
10 dB/div	tef 20.00 d	IBm					Mł	(r1 2.498 -50.93	0 GHz 3 dBm	Auto Tune
10.0 Trace 1	Pass									Center Freq 1.26500000 GHz
0.00										Start Freq
-10.0										30.000000 MHz
-20.0										<b>Stop Freq</b> 2.50000000 GHz
-30.0										CF Step
-40.0									1	247.000000 MHz <u>Auto</u> Man
-60.0	**************************************	the state of the second second		in the second			and the second	and a second		Freq Offset 0 Hz
-70.0										Scale Type
Start 0.030 ( #Res BW 1.0			#VBV	/ 3.0 MHz			Sweep_3	Stop 2.5 3.293 ms (49	00 GHz 141 pts)	
MSG							STATUS			
	4 10				00141			4		

Plot 7-198. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)



Plot 7-199. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

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Plot 7-200. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

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# LTE Band 41(PC2) – ANT B

	pectrum Anal	yzer - Swep	pt SA										
<mark>o</mark> RL	RF	50 Ω	AC (	CORREC		SEN	ISE:INT SOU		ALIGN AUT		M Oct 10, 2022	Er	equency
						Trig: Free	Run	#Avg Ty	pe: RMS	TRAI TY	CE 1 2 3 4 5 6 PE M WWWW		equency
PASS	Gate: LO	•		PNO: Fast IFGain:Lov	v	Atten: 30				D			
									N	/kr1 2.23	4 0 GHz		Auto Tune
	Def O	0.00 4	D								71 dBm		
10 dB/div _og	Ref 2		БШ						_				
Trac	ce 1 Pass	S											Center Free
10.0													
10.0												1.25	2500000 GH:
											1 I		
0.00											<u> </u>		
											1 I		Start Free
10.0												30	0.000000 MH
											1 I		
20.0													
-20.0											1 I		Stop Free
												2.47	5000000 GH
30.0											<u> </u>		
											4		
40.0											♦'	244	CF Step 1.500000 MH
									والتارينا أسلاريه	وأستا فالمتحملة وربار فرو		Auto	Mar
50.0	1. h 1. h 1. h 1. h	والمتعر المسادر الم	All and a state	and the state of the	here and h	فصابتها ديا مرتلها						<u>riaro</u>	Inter
(bested)	him the second	subdate of	linusidel an Indeniale								1 I		
											1 I		Freq Offse
60.0													0 H:
70.0													
													Scale Type
													1.5
Start 0.0									_	Stop 2	.475 GHz	Log	<u>Lir</u>
≇Res BW	1.0 MH	Z		#V	BW	3.0 MHz			Sweep	24.45 ms	(4891 pts)		
ISG									STA	TUS			

Plot 7-201. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



Plot 7-202. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

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	ectrum Analyz											
LXI RL	RF	50 Ω	AC (	ORREC		SEN	ISE:INT SC	ALIGN AUT		0 AM Oct 10, 2022 RACE 1 2 3 4 5 6	Fr	requency
PASS	Gate: LO			PNO: Fast IFGain:Low		rig: Free Atten: 10						
10 dB/div Log	Ref 0.0	)0 dBr	n					Μ	lkr1 26.1 -45	65 0 GHz .449 dBm		Auto Tune
-10.0	e 1 Pass											Center Freq 0000000 GHz
-20.0											15.00	Start Freq 0000000 GHz
-40.0											27.00	Stop Freq 0000000 GHz
-60.0											1.20 <u>Auto</u>	<b>CF Step</b> 0000000 GHz Man
-80.0												Freq Offset 0 Hz
-90.0												Scale Type
Start 15.0 #Res BW				#V	BW 3.0	0 MHz		Sweep	Stop 240.0 ms	27.000 GHz (24001 pts)	Log	Lin
MSG								ST	ATUS			

Plot 7-203. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

	ectrum Analyzer -									
XURL	RF 50	Ω AC CC	ORREC	SEN	ISE:INT SOUR	CE OFF   #Avg Typ	ALIGN AUTO		MOct 10, 2022	Frequency
PASS	Gate: LO		PNO: Fast 🖵 Gain:Low	Trig: Free Atten: 30				TYP		
0 dB/div	Ref 20.00	) dBm					Mk	r1 2.46 -42.6	0 5 GHz 13 dBm	Auto Tur
.og Trac	e 1 Pass			ľ						Contor Fre
10.0										Center Fro 1.263000000 G
10.0										1.283000000 Gi
0.00										
										Start Fr
10.0										30.00000 M
20.0										Stop Fr
										2.496000000 G
.0.0										
									1	CF Ste
40.0										246.600000 M
		فتغلب بطعرف المرواني والاراه	and a state of the second		والمعافد والمهما والما					<u>Auto</u> M
50.0 <mark>(mm/s))</mark>				and the state of the						
50.0										Freq Offs
										01
70.0										
										Scale Ty
										Log L
itart 0.00	30 GHZ 1.0 MHZ		#\/R\A	3.0 MHz			Sween 2	Stop 2	.496 GHz 4933 pts)	
SG DVV			#V D VV	5.0 191112					4900 pis)	
G							STATUS			

Plot 7-204. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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Plot 7-205. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)



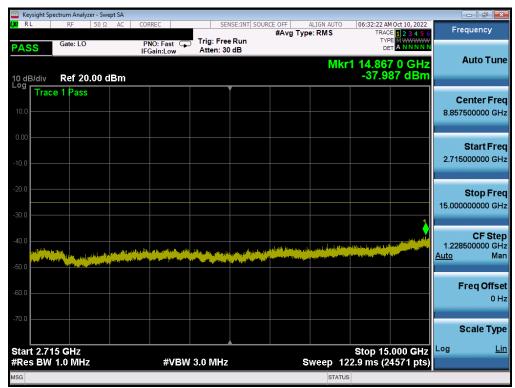
Plot 7-206. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT					
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	pectrum Analyzer - Sv									
LXI RL	RF 50 9	Ω AC CC	DRREC	SEN	ISE:INT SOU	RCE OFF #Avg Typ	ALIGN AUTO e: RMS		E 1 2 3 4 5 6	Frequency
PASS	Gate: LO		PNO: Fast 🕞 FGain:Low	Trig: Free Atten: 30		• ,		TYP DE		Auto Turro
10 dB/div Log	Ref 20.00	dBm					Mk	r1 2.319 -42.7	9 0 GHz 55 dBm	Auto Tune
10.0 Trac	ce 1 Pass									Center Freq 1.263000000 GHz
0.00 -10.0										Start Freq 30.000000 MHz
-20.0										<b>Stop Freq</b> 2.496000000 GHz
-40.0		a balan dariha sing dara dara dara dara dara dara dara dar	and the second	a fan stil e fan stie ffinslin fan stie	fie by Jacob Processing &	l , qui de rifeitande.	La sabulli sectore di la			<b>CF Step</b> 246.600000 MHz <u>Auto</u> Man
-60.0										<b>Freq Offset</b> 0 Hz
-70.0 Start 0.03	30 GHz							Stop 2	.496 GHz	Scale Type
#Res BW			#VBW	/ 3.0 MHz				4.66 ms (	4933 pts)	
MSG			() <b>TF D</b>				STATUS			

Plot 7-207. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)



Plot 7-208. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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Plot 7-209. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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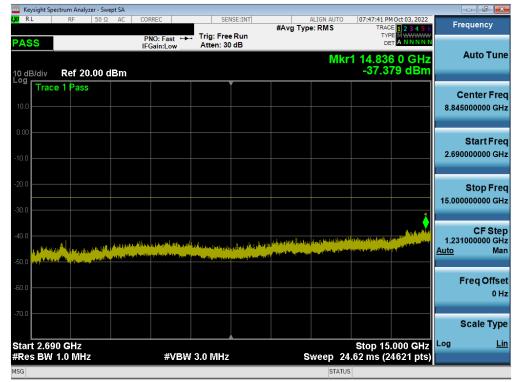
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# LTE Band 41(PC2) - Ant F

Keysight Spe	ectrum Analy	zer - Swe	pt SA										
K <mark>I</mark> RL	RF	50 Ω	AC	CORREC		SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Oct 03, 2022	Fr	equency
PASS	Ref 20	).00 d	Bm	PNO: F IFGain:L	ast ↔ _ow_	Atten: 30			М	kr1 2.30	1 5 GHz 28 dBm		Auto Tune
-og Trac	e 1 Pass												Center Free 2500000 GH
0.00												30	Start Free 0.000000 MH
30.0												2.47	Stop Fre 5000000 GH
40.0					Lius Comela	المراجع المراجع	den valt best Prot	ut. Inte at Differen	المراجعين الخارجان	and the second		244 <u>Auto</u>	CF Stej 1.500000 MH Mai
-60.0		ар (тар стар , ан (тар стар , ан (тар стар стар , ан (тар стар стар стар стар стар стар стар с			atènten profi	a ta dan a bitanin	[m]///janadira			and Transleting Providential The second strange strange strange			Freq Offse 0 H
70.0	0.011-									<u></u>	475 04	Log	Scale Type
Start 0.03 #Res BW		z		3	#VBW	3.0 MHz			Sweep	stop 2 3.260 ms (	.475 GHz 4891 pts)	_	<u></u>
ISG									STATU				

Plot 7-210. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)



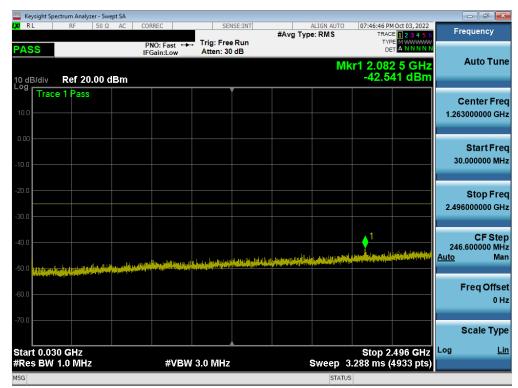
Plot 7-211. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

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	ectrum Analyz		pt SA											
X/RL	RF	50 Ω	AC	CORREC		SEI	ISE:INT	#Ava	ALIGN A			MOct 03, 2022	F	requency
PASS				PNO: F IFGain:	ast ↔ Low	Trig: Free Atten: 10		#/\¥9	rype. Kina	,	TYP			
10 dB/div	Ref 0.(	00 dB	m							Mkr1	25.66 -46.9	0 5 GHz 85 dBm		Auto Tune
	e 1 Pass					Ĭ								Center Fred
-10.0													21.00	0000000 GH:
-20.0														Start Free
-30.0													15.00	0000000 GH
-40.0												1		Stop Free
-50.0										anterprotection of the		and Para Strangt	27.00	0000000 GH
-60.0	أناهيد روبان والأرقيقة			n in des angeres Alternes atometic		Spend and a state of the set	n Station of Contract of Contract	na degalitada Sectored		LASSING T		and the spatial sectors.		CF Step
-70.0													1.20 <u>Auto</u>	00000000 GH Mai
														Freq Offse
-80.0														0 H
-90.0														Scale Type
Start 15.0											Stop 27	.000 GHz	Log	Lir
#Res BW	1.0 MHz				#VBW	3.0 MHz			Sweep	30.4	0 ms (2	4001 pts)		
4SG									S	STATUS				

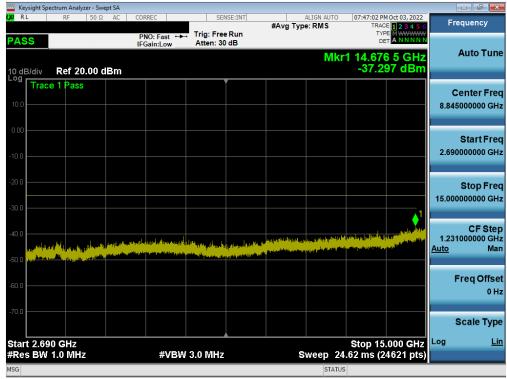
Plot 7-212. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)



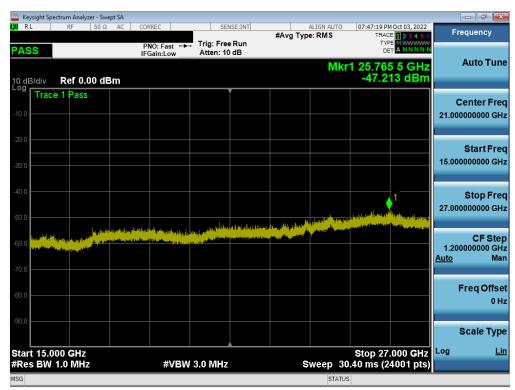
Plot 7-213. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-214. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)



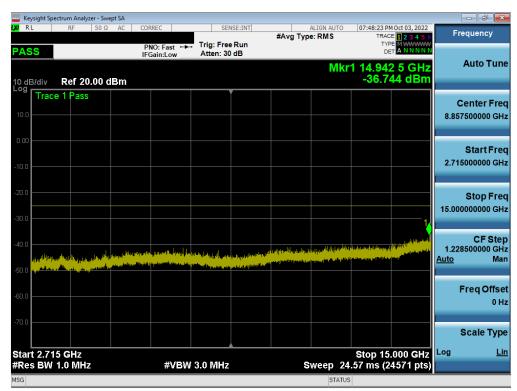
Plot 7-215. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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		ctrum Anal											
LXU RL		RF	50 Ω	AC CO	RREC		NSE:INT	#Avg Typ	ALIGN AUTO	TRA	M Oct 03, 2022	F	requency
10 dE		Ref 2	0.00 d	IF	NO: Fast ↔ Gain:Low	. Trig: Free Atten: 30			N	/kr1 2.47	≝ Mwwww A NNNNN 9 0 GHz 35 dBm		Auto Tune
10.0 -	Trace	e 1 Pas	S										Center Freq 3000000 GHz
0.00 · -10.0 ·												30	Start Freq 0.000000 MHz
-20.0 -30.0												2.49	Stop Freq 6000000 GHz
-40.0	trikut Matterne si	transfer fact	TONIUS	ing a state by diffe	وروا المراجع والمراجع		alia del terrete qui			krowa jeda te kate katego jeda na na n	( lalken a keknise kit , sport service kit	246 <u>Auto</u>	CF Step 5.600000 MHz Man
-60.0		a di se d Se di se di		de official and a									Freq Offset 0 Hz
		) GHz			4\/D10	2.0 844			6	Stop 2	.496 GHz		Scale Type <u>Lin</u>
	BW .	1.0 MH	Z		#VBW	3.0 MHz				3.288 ms	4933 pts)		
MSG									STA	TUS			

Plot 7-216. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)



Plot 7-217. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-218. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

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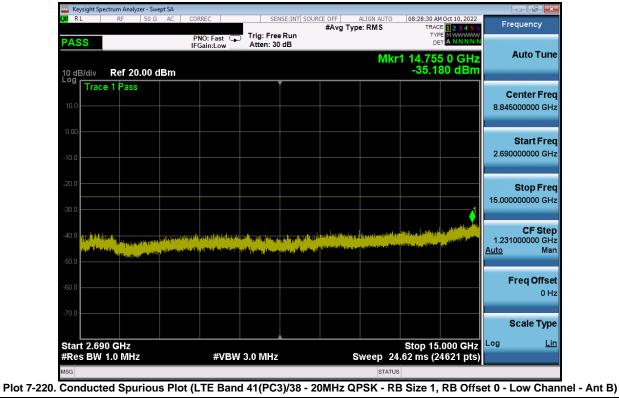
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## LTE Band 41(PC3)/38 - Ant B

	ysight Spec													
<b>l,XI</b> R	L	RF	50 Ω	AC	CORREC		SEI	NSE:INT SOUR	CE OFF	ALIGN AUTO e: RMS		HOct 10, 2022	F	requency
PAS	SS				PNO: Fas IFGain:Lo	st 🖵 w	Trig: Free Atten: 30		• //		TYP			
	B/div	Ref 2	0.00 d	Bm						Mł	(r1 2.42 -38.4	4 5 GHz 08 dBm		Auto Tune
<b>Log</b> 10.0	Trace	1 Pas	S											Center Freq 52500000 GHz
0.00													30	Start Freq 0.000000 MHz
-20.0 -30.0													2.47	<b>Stop Freq</b> '5000000 GHz
-40.0 -50.0									a an				24 <u>Auto</u>	<b>CF Step</b> 4.500000 MHz Man
-60.0														Freq Offset 0 Hz
-70.0													Log	Scale Type
	1 0.030 s BW 1		Iz		#	VBW :	3.0 MHz			Sweep 3	Stop 2 260 ms (	.475 GHz 4891 pts)		<u>Lin</u>
MSG										STATUS			_	

Plot 7-219. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



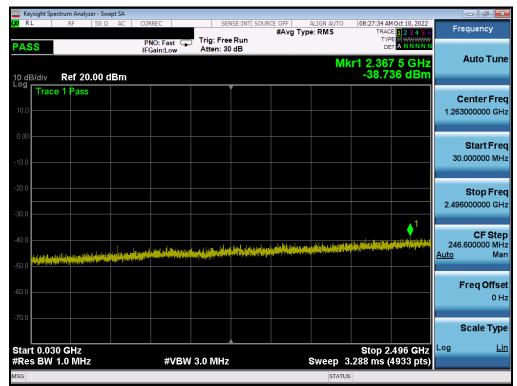
FCC ID: A3LSMS911U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
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	ectrum Analyzer - S	wept SA									
LXI RL	RF 50 9	Ω AC C	ORREC	SEN	ISE:INT SOUR	CE OFF #Avg Typ	ALIGN AUT		MOct 10, 2022	Frequ	lency
PASS			PNO: Fast 🖵 FGain:Low	Trig: Free Atten: 10		#/18/JP		TY			
10 dB/div	Ref 0.00 d	IBm					М	kr1 26.20 -41.1	6 5 GHz 37 dBm	AL	ito Tune
Log Trac	e 1 Pass										n <b>ter Frec</b> 0000 GH2
-20.0										<b>S</b> i 15.00000	t <b>art Fred</b> 0000 GH:
-40.0								المالية من المالية		<b>S</b> 27.00000	top Fred 0000 GH:
-50.0	Harter Inter Contractor	ent og filler skolinger sog att konstnættelse prim	CATTER AND AN AND AND AND AND AND AND AND AND		nster predstaande fa v <sup>ins</sup> te gewonde steren Tetensterenste	an an an Anna a Ta an an an Anna					<b>CF Stej</b> 0000 GH Mai
-70.0										Fre	e <b>q Offse</b> 0 H
-90.0											ale Type
Start 15. #Res BW			#VBW	3.0 MHz		s	weep	Stop 27 30.40 ms (2	.000 GHz 4001 pts)	Log	<u>Lir</u>
MSG							STA	TUS			

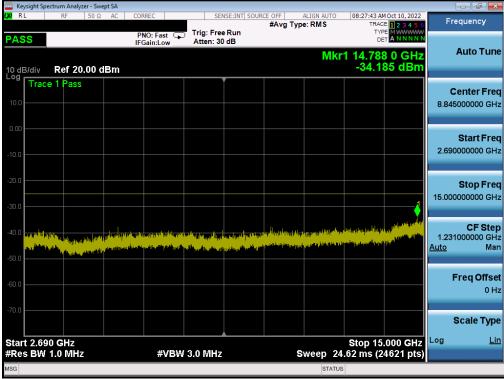
Plot 7-221. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



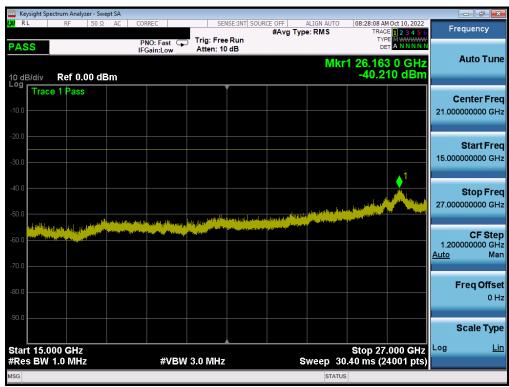
Plot 7-222. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT	
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Plot 7-223. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)



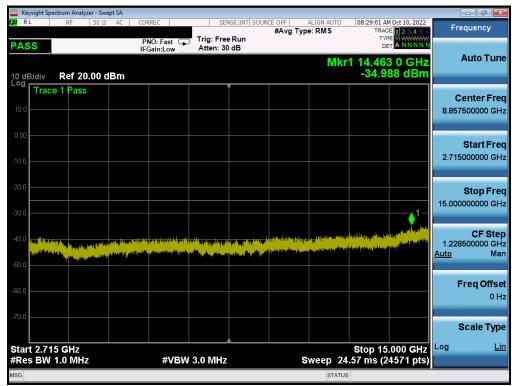
Plot 7-224. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT				
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Instant or db       Mkr1 2.458 5 GHz -38.129 dBm       Auto Tune         0 dB/div       Ref 20.00 dBm       Center Freq 1.26300000 GHz       1.26300000 GHz         100       Image: data of the dest of the	🔤 Keysight Spectrum Analyzer - Swept SA 👘 👘 💽									
Ass <u>PNC: Past</u> <u>Atten: 30 dB</u> Mkr1 2.458 5 GHz -38.129 dBm Center Freq 1.26300000 GHz 1.26300000 GHz 30.00000 MHz 200 200 200 200 200 200 200 20	🗶 RL RF 50Ω AC	CORREC SENSE:INT SOUR								
OddB/div       Ref 20.00 dBm       -38.129 dBm         OrdB/div       Frace 1 Pass       Center Freq         100       Start Freq       1.26300000 GHz         100       Start Freq       30.000000 MHz         100       Start Freq       30.000000 GHz         100       Start Freq       30.000000 MHz         100       Start Freq       30.000000 GHz         100       Start Freq       1.496000000 GHz         100       Start Freq	PASS		DET A N Mkr1 2.458 5	GHZ Auto Tune						
Trace 1 Pass       Center Freq         100       Center Freq         100       Start Freq         100       Stop Freq </td <td>10 dB/div Ref 20.00 dBm</td> <td></td> <td>-38.129</td> <td>dBm</td>	10 dB/div Ref 20.00 dBm		-38.129	dBm						
10.0     Image: start for the st	Trace 1 Pass									
Stop Freq Stop Freq 2.496000000 GHz 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 50.0 10.	-10.0									
40.0 50.0	-20.0									
Freq Offset		realization of the colorism of the colorism of the second s	er pro klank etter settere å for hendel af etter som av kandense setter av setter settere som av settere som av	CF Step 246.600000 MHz <u>Auto</u> Man						
0 Hz	-60.0									
Scale Type	-70.0									
	Start 0.030 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Stop 2.496 Sweep 3.288 ms (493	GHz <sup>Log</sup> Lin 3 pts)						
	MSG									

Plot 7-225. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)



Plot 7-226. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT					
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Plot 7-227. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

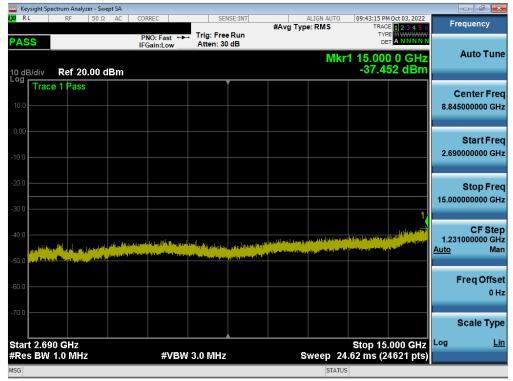
FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT				
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## LTE Band 41(PC3)/38 - Ant F

	ectrum Anal	yzer - Swej	pt SA										
<mark>o</mark> RL	RF	50 Ω	AC	CORREC		SEN	SE:INT		ALIGN AUTO		M Oct 03, 2022	Er	equency
PASS				PNO: Fas IFGain:Lo		Trig: Free Atten: 30		#Avg Typ	e: RIVIS	TY	DE 1 2 3 4 5 6 PE M WWWWW ET A N N N N N		
0 dB/div	Ref 2	0.00 d	Bm						Μ	lkr1 2.41 -43.0	8 5 GHz 04 dBm		Auto Tune
-og Trac	e 1 Pas	S											Center Free 2500000 GH
0.00												30	Start Free
20.0												2.47	Stop Free 5000000 GH
40.0								. k. il hetter	الد الم يساد ا	المارية والمحمد المحادي		244 <u>Auto</u>	CF Ste 1.500000 MH Ma
		er den de si							and Barrashall				Freq Offse
60.0													0 H
70.0													Scale Typ
start 0.03	30 GHz									Stop 2	.475 GHz	Log	Li
Res BW		z		#\	/BW :	3.0 MHz			Sweep	3.260 ms (	4891 pts)		
SG									STAT	us			

Plot 7-228. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)



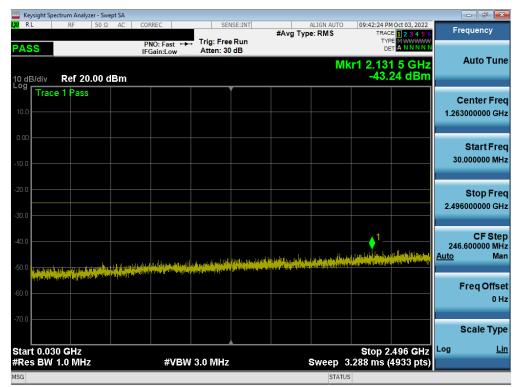
Plot 7-229. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT					
Test Report S/N:	Test Dates:	EUT Type:	Page 146 of 401				
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	pectrum Analyz													
🗶 RL	RF	50 Ω	AC	CORREC		SEN	ISE:INT	#0.000	ALIGN AU Type: RMS	TO 09:4	3:30 PM Oct TRACE		F	requency
PASS				PNO: F IFGain:	ast ⊶⊶ Low	Trig: Free Atten: 10		#Avg	ype. Rivis					
10 dB/div	Ref 0.0	00 dB	m						N	lkr1 25 -4	.757 0 7.466	GHz dBm		Auto Tune
-10.0	ce 1 Pass													Center Fred 0000000 GH
-20.0													15.00	Start Free
-40.0										Table Constants	1 datasahilinta		27.00	Stop Free
-60.0			an dead a	uthan laght cheanga	Depertment (operation) and the second second second second	i je od kalender for for det sen ster Server og som ster sen ster sen ster sen ster sen ster sen ster sen ster Server og som ster sen ster s	ing Adapa Damadi Manifikan kantan	r Try and your Miny and Dave Pitters of Australia				M <sub>an</sub> sheis dang	1.20 <u>Auto</u>	CF Ste 0000000 GH Ma
-80.0														Freq Offse 0 H
-90.0														Scale Typ
	000 GHz / 1.0 MHz	2			#VBW	3.0 MHz			Sweep	Sto 30.40 n	p 27.00 ns (240)	V GIIZ	Log	<u>Lir</u>
MSG										ATUS				

Plot 7-230. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)



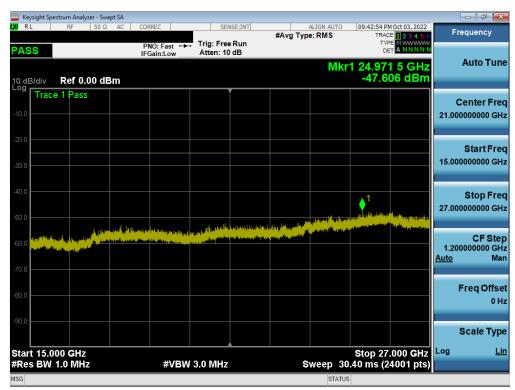
Plot 7-231. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT				
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	ectrum Analyzer - Swe	ept SA								
LXIRL	RF 50 Ω		IRREC		ISE:INT	#Avg	ALIGN AU Type: RMS		38 PM Oct 03, 2022 TRACE 1 2 3 4 5 6 TYPE M WWWWWW	Frequency
PASS	Ref 20.00 d	IF	PNO: Fast ↔ Gain:Low	. Trig: Free Atten: 30			M	lkr1 14.7 -37	767 0 GHz .409 dBm	Auto Tune
10.0	e 1 Pass									Center Freq 8.845000000 GHz
-10.0										Start Freq 2.690000000 GHz
-20.0										Stop Freq 15.000000000 GHz
-40.0	1991 - 1992 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -		ne en en el profil a profil en en el en la dal ese ella constitución en el	1. Marine Marine Marine Marine Marine and Arabien	a paga kana kana kana kana kana kana kana k	ny Captons Capton	val) <sub>ter</sub> se <sub>tre</sub> co <sup>b</sup> rande ninten dis sectores i	n ja yoso jan <sup>a</sup> <b>i (y ing uga</b> ) saa jaa ku la ku la ku ku ku ji		CF Step 1.231000000 GHz <u>Auto</u> Man
-60.0										Freq Offset 0 Hz
Start 2.69	0 GHz							Stop	15.000 GHz	Scale Type Log <u>Lin</u>
#Res BW			#VBW	3.0 MHz			Sweep	24.62 ms	(24621 pts)	
MSG							ST	ATUS		

Plot 7-232. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)



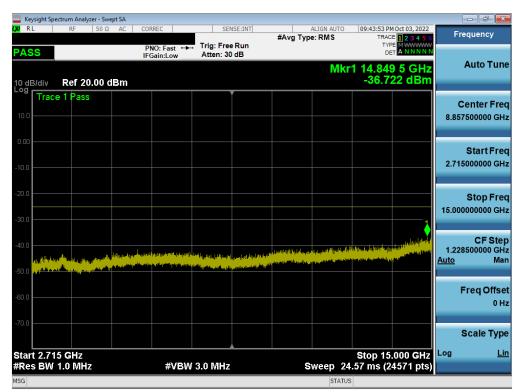
Plot 7-233. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT				
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		ctrum Analyzer - Sw										
<b>lxi</b> Ri	L	RF 50 Ω	AC CC	DRREC		NSE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	4 Oct 03, 2022 E 1 2 3 4 5 6 E M WWWW	Free	quency
10 dE		Ref 20.00	IF	PNO: Fast ↔ Gain:Low	Atten: 30			М	DE kr1 2.16		A	Auto Tune
10.0	Trace	e 1 Pass										enter Freq 000000 GHz
0.00 -10.0												Start Freq 000000 MHz
-20.0 -30.0												Stop Freq 100000 GHz
-40.0 -50.0			tinciates konstilat		for all and the formation of the base	de <mark>n</mark> er son selfen an selfen s	n sin al la catalante	والمراجع والمعام وال			246.6 <u>Auto</u>	CF Step 00000 MHz Man
-60.0				er hade te de light die h	Depending to the second se						Fi	req Offset 0 Hz
	t 0.03								Stop 2	.496 GHz	Log	cale Type <u>Lin</u>
	s BW	1.0 MHz		#VBW	/ 3.0 MHz				3.288 ms (	4933 pts)		
MSG								STATU	S			

Plot 7-234. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)



Plot 7-235. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

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Plot 7-236. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

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## NR Band n30 – ANT A

EYSIGHT Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Trig: Free Run	(RMS <mark>123456</mark> A <del>WWWWW</del> ANNNNN	Center Frequency 1.159000000 GHz Span
Spectrum v cale/Div 10 dB		Ref Level 20.00	dBm		2.270 5 GHz -52.710 dBm	2.25800000 GHz
Trace 1 Pass						Full Span
						Start Freq 30.000000 MHz Stop Freg
0.0						2.288000000 GHz
						AUTO TUNE CF Step
0.0	An again at the galaxy data and a state of the state of t	*****	Auror Party and a state of the	والمعادية		225.800000 MHz Auto Man
						Freq Offset 0 Hz
rt 0.030 GHz es BW 1.0 MHz		#Video BW 3.0	MHz	Sweep 3	Stop 2.288 GHz 3.01 ms (4517 pts)	

Plot 7-237. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – ANT A)

Spectrum Analyzer 1	t					Frequency	· · 米
KEYSIGHT       Input: RF         RL       Image: Coupling: DC         Align: Auto       Auto	Input Z: 50 Ω #A Corr CCorr Freq Ref: Int (S) NFE: Off	Ga	NO:Fast ate:Off Gain:Low g Track:Off	#Avg Type: Powe Trig: Free Run	er (RMS <mark>123456</mark> A <del>WW WW W</del> A N N N N N	Center Frequency 8.682500000 GHz	Settings
DVI     PASS       1 Spectrum     •       Scale/Div 10 dB		f Level 0.00 dBm		Mkr1	4.620 0 GHz -50.669 dBm	Span 12.6350000 GHz	
Log -10.0 Trace 1 Pass						Zero Span Full Span	
-20.0						Start Freq 2.365000000 GHz	
-40.0						Stop Freq 15.00000000 GHz	
-60.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					CF Step 1.263500000 GHz	
-80.0						Auto Man Freq Offset	
-90.0 Start 2.365 GHz #Res BW 1.0 MHz	#Vi	deo BW 3.0 MHz		Sweep -2	Stop 15.000 GHz 3.6 ms (25271 pts)	0 Hz X Axis Scale	
	Sep 13, 2022 7:51:27 AM	$\triangle$				Lin Signal Track (Span Zoom)	

Plot 7-238. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – ANT A)

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Plot 7-239. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – ANT A)

FCC ID: A3LSMS911U		PART 27 MEASUREMENT REPORT		
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## NR Band n30 – Ant F

Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF RL $\rightarrow$ Align: Auto	+ Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WW W A N N N N	Frequency Center Frequency 1.159000000 GHz
Scale/Div 10 dB	Ref Level 20		Mkr1 2.213 5 GHz -52.514 dBm	Span 2.25800000 GHz Swept Span Zero Span
10.0 Trace 1 Pass				Full Span
10.0				30.000000 MHz Stop Freq 2.288000000 GHz
				AUTO TUNE
			1.	CF Step 225.800000 MHz
0.0				Man Freq Offset 0 Hz
tart 0.030 GHz Res BW 1.0 MHz	#Video BW	3.0 MHz	Stop 2.288 GHz Sweep 3.01 ms (4517 pts)	X Axis Scale Log Lin
	Ct 07, 2022	IP Band n20 -	10MHz QPSK - RB Size	Signal Track (Span Zoom)





Plot 7-241. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant F)

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Plot 7-242. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant F)

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## NR Band n7 – Ant B

EYSIGHT Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (R Trig: Free Run	MS <mark>123456</mark> A <del>WWWWW</del> ANNNNN	Mech Atten 30 dB Auto	Y Scale
Spectrum v cale/Div 10 dB		Ref Level 20.00	dBm		.473 0 GHz 1.874 dBm		Signal Pa
Trace 1 Pass						10 dB Max Mixer Level -10.00 dBm Max Mixer Lvi Rules	
						Normal v	
).0	The function of the state of th				1		
0.0		#Video BW 3.0	MHz		Stop 2.475 GHz		

Plot 7-243. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



Plot 7-244. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

FCC ID: A3LSMS911U		Approved by: Technical Manager	
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Plot 7-245. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Trig: Free Run	(RMS <mark>1</mark> 23456 A₩₩₩₩₩ ANNNNN	Mech Atten 30 dB Auto	Y Scale
Spectrum v ale/Div 10 dB		Ref Level 20.00	dBm		2.461 0 GHz -51.982 dBm	Man Mech Atten Step 2 dB	Signal Pat
Trace 1 Pass						10 dB Max Mixer Level -10.00 dBm	
						Max Mixer Lvl Rules Normal 🛛 🔻	
0.0							
					1		
0.0	9,00-02.000000000000000000000000000000000	1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		a a far a far gar yn yw			
0.0 art 0.030 GHz es BW 1.0 MHz		#Video BW 3.0	MHz		Stop 2.475 GHz 3.26 ms (4891 pts)		

Plot 7-246. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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Plot 7-247. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)



Plot 7-248. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS911U		Approved by: Technical Manager		
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Swept		•	+								Amplitude	- ※
RL	/	nput: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 30 dB	PNO: Fa Gate: Of IF Gain:	Low	#Avg Type: Pow Trig: Free Run		₩₩₩	Mech / 30 dB	Atten	Y Scale
	PASS	_	NFE: Off		Sig Trac	k: Off		ANN			uto an	Attenuation
1 Spe	ctrum /Div 10 dB	•		Ref Level 20.00	dBm		MKL	1 2.419 0 -51.911 (			Atten Step	
Log	Trace			Rei Levei 20.00	UBIII			-01.011		2	dB 0 dB	Signal Path
10.0	пасе	Pass									ixer Level	
0.00										-10.00		
										Max M	ixer Lvl Rules	
-10.0										Norma	al 🔻	
-20.0												
-30.0												
-40.0												
-50.0												
			and the second s									
-60.0												
-70.0												
	0.030 GHz BW 1.0 MI	łz		#Video BW 3.0	MHz		Sweep	Stop 2.47 5 3.26 ms (489				
	5		? Sep 13, 2022 9:41:36 AM	$\square$					X			

Plot 7-249. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

vectrum Analyzer 1 wept SA KEYSIGHT RL ↔ Coupling: DC Align: Auto V PASS	HINDUL Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	ing. Fiee Run	ver (RMS <mark>1</mark> 234 A \\\ A N N I	₩₩₩	Amplitude Mech Atten 30 dB	Y Scale
Spectrum v Scale/Div 10 dB		Ref Level 20.00	) dBm	Mkr1	14.837 5 ( -46.066 c		2 dB	Signal Path
Trace 1 Pass							10 dB Max Mixer Level -10.00 dBm	
10.0							Max Mixer Lvl Rules Normal <b>v</b>	
0.0	·····			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
art 2.570 GHz Res BW 1.0 MHz		#Video BW 3.0	) MHz	Sweep ~	Stop 15.000 -23.3 ms (2486			
<b>1</b> 7 7 1 1	Sep 13, 2022 9:42:33 AM	$\square \triangle$				X		

Plot 7-250. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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Plot 7-251. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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