

	ectrum Analyzei										r 🗙
0 RL	RF	50 Ω AC		EC D:Fast ↔→→		#Avg Typ	e: RMS	TRA	M Oct 31, 2019 CE 1 2 3 4 5 6 PE A WWWW ET A NNNNN	Freque	ency
0 dB/div	Ref 0.00	) dBm					Μ	kr1 9.98 -39.	8 5 GHz 29 dBm	Aut	to Tun
10.0									DL1 -13.00 dBm	Cent 5.500000	er Free 000 GH
30.0									1,	Sta 1.000000	art Free 000 GH
40.0 50.0			han an a			nengg en approximation (in eq.) (even the				Sto 10.000000	op Fre 000 GH
70.0										0 900.000 <u>Auto</u>	CF Ste 000 MH Ma
30.0										Frec	q Offse 0 H
90.0											Іе Тур
itart 1.00 Res BW	0 GHz 1.0 MHz			#VBW	3.0 MHz	s	weep 1	Stop 10 5.60 ms (*	).000 GHz 18001 pts)	Log	Li
SG							STAT	JS			

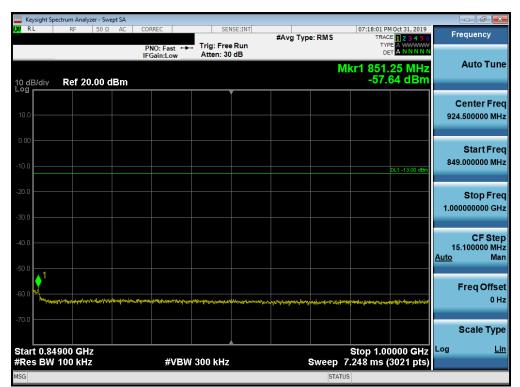
Plot 7-126. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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PNO: Fast PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB TRACE 234 5 of TYPE RMS TRACE 244 5 of the second sec		ght Specti																		_			
In Formation       Mikri 818.35 MHz -47.01 dBm       Automation         0 dB/div       Ref 20.00 dBm       Center         0 dB/div	<mark>(</mark> RL		RF	50	Ω	AC	PN	D: Fas			g: Free	Run	#Avg	Type:	RMS		AT TR		2345 wwww	6 W	F	requen	су
100       Image: Control of the state of th		div	Ref 2	20.00	dB	sm	IFGa	ain:Lo	w	Att	ten: 30	dB				Mkı	r1 81	8.35	МН	z		Auto	Tur
10.0       0.1-1300 dbm       Stat         20.0       0.1-1300 dbm       Stat         30.000       0.1-1300 dbm       Stat         30.0       0.1-1300 dbm       Stat         40.0       0.1-1300 dbm       Stat         60.0       0.1-1300 dbm       Stat         10.1       1.1-1300 dbm       Stat         11.1																							
Store and a start of the store																		DL1	-13.00 dB	m	3(	Start 0.00000	
10.0     10.0																					82:	Stop 3.00000	
																				1			Ste 0 M M
Scale	i0.0		intro enter	ntil Deserved			and a state of the										-		in Church			Freq C	Offs 0
		30 O N	<u>ЛН7</u>														Ston	823	0 MH	7		Scale	Typ L
Res BW 100 kHz #VBW 300 kHz Sweep 38.06 ms (15861 pts)				Iz				#	VBW	300	kHz			Sw	/eep	38.0							

Plot 7-127. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-128. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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		Analyzer - Swe										
LXI RL	RI	= 50 Ω	AC C	ORREC	SEI	NSE:INT	#Avg Typ	e: RMS		M Oct 31, 2019 DE 1 2 3 4 5 6	Frequ	uency
				PNO: Fast ↔ FGain:Low	Trig: Fre #Atten: 3				TYI Di			uto Tune
10 dB/c	div Re	f 0.00 dE	3m					M	kr1 9.97 -39.	7 5 GHz 19 dBm	A	ito i une
						Í						nter Freq
-10.0										DL1 -13.00 dBm	5.50000	0000 GHz
-20.0											s	tart Freq
-30.0												0000 GHz
										1		
-40.0			an a	<b>~~~</b>								top Freq 0000 GHz
												CF Step
-60.0											900.00 <u>Auto</u>	0000 MHz Man
-70.0												
-80.0											Fre	eq Offset 0 Hz
-90.0												0112
30.0											Sc	ale Type
	1.000 GI			//) ( <b>1</b> )					Stop 10	.000 0112	Log	<u>Lin</u>
#Res	BW 1.0	VIHZ		#VBV	V 3.0 MHz		s	statu	5.60 ms (1	8001 pts)		
Mod								STAT				

Plot 7-129. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



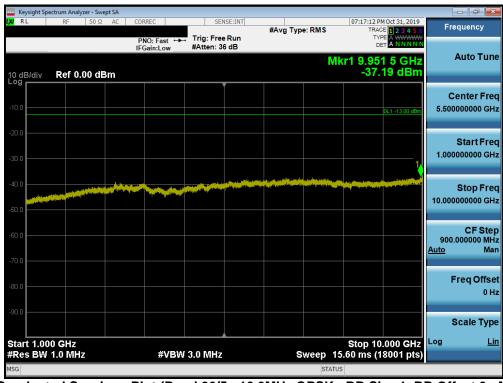
Plot 7-130. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ectrum Analyzer	- Swept S	SA								
LXI RL	RF	50Ω/		RREC		sense:INT	#Avg Typ	e: RMS	TRAC	HOct 31, 2019 E 1 2 3 4 5 6	Frequency
				NO: Fast • Gain:Low	#Atten:						Auto Tune
10 dB/div Log	Ref 20.0	0 dB	m					N	lkr1 852. -48.	85 MHz 11 dBm	Auto Tune
						Ĭ					Center Freq
10.0											924.500000 MHz
0.00											Start Freq
-10.0										DL1 -13.00 dBm	849.000000 MHz
										DET TISSO UDIT	
-20.0											Stop Fred 1.00000000 GHz
-30.0											
-40.0											CF Step 15.100000 MHz
-50.0											<u>Auto</u> Man
and showing	ghergesberrhautomhte		and here and here and	Marina and a state of the sta		، موجود المحمد المحمد الم	untraphys <sup>1</sup> a, 244, 1, 460, 1994,	an a	in Aller	al and a factor of the state of	Freq Offset
-60.0											0 Hz
-70.0											Scale Type
Start 0.84 #Res BW				#VB	W 300 kH	Iz		Sweep	Stop 1.00 7.248 ms (	)000 GHz 3021 pts)	Log <u>Lin</u>
MSG								STATU	IS		

Plot 7-131. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



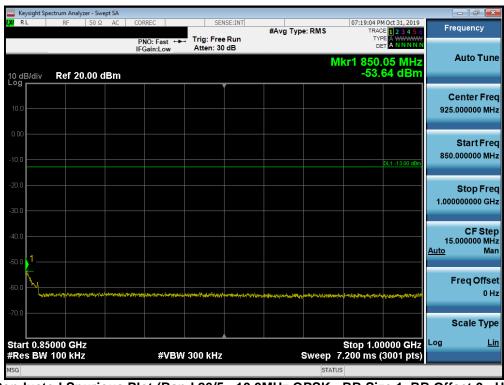
Plot 7-132. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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		ctrum Anal	/zer - Swej	pt SA										
l <b>,XI</b> R	L	RF	50 Ω	AC	CORREC	ast⊶⊷		e Run	#Avg Typ	e:RMS	TRAC	Oct 31, 2019 E 1 2 3 4 5 6 E A WWWW T A N N N N N	Fr	equency
	_				IFGain:		Atten: 3	0 dB						Auto Tune
10 di Log	B/div	Ref 2	0.00 d	Bm							Mkr1 821. -49.	41 dBm		
								Ĭ						enter Freq
10.0													427	.000000 MHz
0.00	$\vdash$													Start Freq
-10.0												DL1 -13.00 dBm	30	.000000 MHz
-20.0														Oton Eron
													824	Stop Freq .000000 MHz
-30.0														
-40.0												1	79 <u>Auto</u>	CF Step .400000 MHz Man
-50.0														
-60.0	na a bheant	ukoument	ald, t. who est out	alative a desired of		an distance in								Freq Offset 0 Hz
-70.0	13 of the state	Ale Boats on the other	Biotic at 6063.	and the second	ملحتمد <u>د د ادر دق</u> م رامر	ALL	والمراجعة والمحتمل والمراجع وما							
														Scale Type
	t 30.0 s BW	MHz 100 kH	z		-	#VBW	300 kHz		s	weep	Stop 8 38.11 ms (1	24.0 MHz 5881 pts)	Log	<u>Lin</u>
MSG										STA	`			

Plot 7-133. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-134. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	Spectrum Ana											
LXU RL	RF	50 Ω	AC	CORREC	ast 🛶	SEN	Run	#Avg Typ	e:RMS		6 PM Oct 31, 2019 RACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
10 dB/div Log	Ref 0	.00 dB	m	IFGain:L		#Atten: 34	l dB			Vikr1 9.9 -3	9.34 dBm	Auto Tun
-10.0											DL1 -13.00 dBm	Center Fre 5.50000000 GH
-20.0											1	Start Fre 1.000000000 GF
-40.0					~							Stop Fre 10.000000000 GF
-60.0												CF Ste 900.000000 MH <u>Auto</u> Ma
-70.0												Freq Offso 0 H
-90.0										Oton	10.000.00	Scale Typ
	000 GHz W 1.0 MH	z		#	≠vbw	3.0 MHz		6	weep	15.60 ms	10.000 GHz (18001 pts)	
MSG										ATUS		

Plot 7-135. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ht Spectrum .												
X/RL	RF	50 9	Ω AC		:Fast ↔		SENSE:INT	#Avg Typ	e: RMS	TRAC	M Oct 31, 2019 DE <b>1 2 3 4 5</b> 6 PE A WWWWW T A N N N N N	Frequ	iency
10 dB/d	liv Rel	f 20.00	dBm	IFGai	n:Low	Atter	n: 30 dB		MI	kr1 1.70		Αι	ito Tune
10.0													nter Free 0000 MH
-10.0											DL1 -13.00 dBm		tart Fre 0000 MH
-20.0											1/		top Fre 0000 GH
-40.0									a	al table in the second with	an a		CFSte 0000 MH Ma
-60.0 —	d oc of the bising	and the set of the set	and the second	iya firika dari	للافات ويتنابه	anging transportung	esendente <sup>gen</sup> erischerender					Fre	eq Offse 0 H
-70.0													ale Typ
	1.0300 G 3W 1.0 I				#VBV	V 3.0 IV	IHz		Sweep 2	Stop 1.7 2.239 ms (	7090 GHz 3359 pts)	Log	Li
4SG									STATU				

Plot 7-136. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



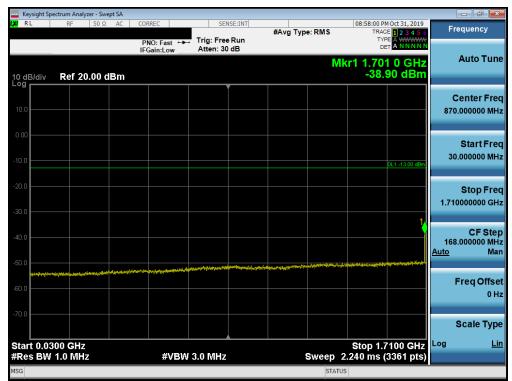
Plot 7-137. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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Plot 7-138. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



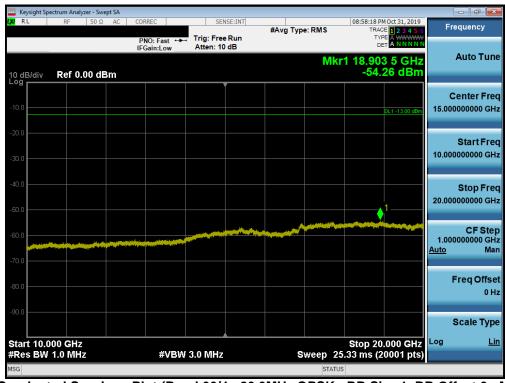
Plot 7-139. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 00 of 250
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Image: Normal Science         Center Free           100         43.52 dBm           100         -43.52 dBm           100         -43.52 dBm           100         -43.52 dBm           100         -5.89000000 Gl           100         -11.1300dbm           200         -11.1300dbm           200 <th></th> <th></th> <th></th> <th>lyzer - Swej</th> <th>pt SA</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>(</th> <th>- • ×</th>				lyzer - Swej	pt SA								(	- • ×
Mkr1 7.178 0 GHz -43.52 dBm         Auto Tur Center Fre 5.89000000 GF           10 dB/div         Ref 20.00 dBm         Center Fre 5.89000000 GF           10 0         0.00         0.011-1300 dBm           10 0         0.011-1300 dBm         0.011-1300 dBm           20 0         0.011-1300 dBm         0.011-1300 dBm           -00 0         0.011-1300 dBm         0.011-1300 dBm	l <b>xi</b> ri	L	RF	50 Ω	AC				#Avg Typ	e: RMS	TRA	CE 1 2 3 4 5 6	Fre	equency
Log Center Fre 5.89000000 G Center Fre 5.89000000 G Start Fre 1.78000000 G 201 - 1300 dem 201 - 1300 d										N				Auto Tune
Image: Content Free       Center Free         100       Center Free         000       Start Free         100       Center Free		3/div	Ref 2	0.00 d	Bm						-43	.52 dBm		_
0 00       0 00								Ĭ						enter Freq
10.0     CL1 -1300 dem     Start Fre       -20.0     CL1 -1300 dem     Stop Fre       -30.0     -30.0     -30.0     -30.0       -40.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -60.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0     -30.0       -50.0     -30.0     -30.0	10.0												5.890	000000 GHz
-100       Image: Constraint of the second sec	0.00													Start Freq
-30.0	-10.0											DL1 -13.00 dBm	1.780	000000 GHz
-30.0 -40.0 -50.0 -60.0 -7	-20.0													Stop Freq
-400 -500 -500	-30.0												10.000	000000 GHz
-50.0	-40.0								1				822	CF Step
	-50.0			<u>ette</u>	<u>.</u>	الحروران								Man
10	~~ 0	and the second s											F	req Offset
														0 Hz
-70.0 Scale Typ	-70.0													Scale Type
											Stop 1	0.000 GHz	Log	<u>Lin</u>
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 14.25 ms (16441 pts)		SBW	1.0 MI	IZ		#VEW	3.0 MHz		s			16441 pts)		

Plot 7-140. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-141. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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🔤 Keysight Sp	ectrum Analyzer - S	Swept SA							- 6 1
LXU RL	RF 50	Ω AC	CORREC PNO: Fast	Trig: Free		#Avg Type: R	09:00:0 MS T	5 PM Oct 31, 2019 RACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency
10 dB/div Log	Ref 20.00	dBm	IFGain:Low	Atten: 30	) dB		Mkr1 1.6 -4	697 5 GHz 9.08 dBm	Auto Tur
10.0									Center Fre 870.000000 MH
-10.0								DL1 -13.00 dBm	Start Fre 30.000000 MH
-20.0									Stop Fre 1.71000000 GF
-40.0					a sector a s	-regeneration (the table of the table of table	Angelengije i Langerengi alter i se sena i na delati		CF Ste 168.000000 MH <u>Auto</u> Ma
-60.0	9764205	Alexandra and a second s	**************************************						Freq Offs 0 F
-70.0 Start 0.03							Stop	1.7100 GHz	Scale Typ Log <u>L</u>
#Res BW	1.0 MHz		#V	BW 3.0 MHz		Sw	eep 2.240 m	s (3361 pts)	

Plot 7-142. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-143. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	nt Spectrum	Analyzer - Sv	vept SA									
I,XI RL	R	50 S	2 AC	CORREC	ast ↔		Run	#Avg Typ	e: RMS	TRA	M Oct 31, 2019 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	Frequency
10 dB/di Log	iv Re	f 0.00 d	Bm	IFGain:1		Atten: 10	dB		Μ	kr1 18.64		Auto Tune
-10.0											DL1 -13.00 dBm	Center Freq 15.000000000 GHz
-20.0												Start Freq 10.000000000 GHz
-40.0										1		Stop Freq 20.000000000 GHz
-60.0												CF Step 1.000000000 GHz <u>Auto</u> Man
-70.0												Freq Offset 0 Hz
-90.0												Scale Type
Start 1 #Res B	0.000 G W 1.0 I				#VBW	3.0 MHz			weep	Stop 20 25.33 ms (2	.000 GHz 20001 pts)	
MSG										TUS		

Plot 7-144. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 02 of 250
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	pectrum Analyzei										
LXU RL	RF	50Ω AC	CORREC	Trig: Free		#Avg Typ	e: RMS	TRAC	Oct 31, 2019 <b>1 2 3 4 5 6</b> E A WWWWW A N N N N N	Frequ	lency
10 dB/div Log	Ref 20.0	00 dBm	IFGain:Low	Atten: 30	) dB		MI	kr1 1.849		Αι	ito Tune
10.0											nter Fred 0000 MH:
-10.0									DL1 -13.00 dBm		tart Fre 0000 MH
-20.0									1/ →		top Fre 0000 GH
-40.0											CFSte 0000 MH Ma
-60.0		an a		<u></u>						Fre	eq Offse 0 H
-70.0											ale Typ
	300 GHz / 1.0 MHz		#VB	W 3.0 MHz			Sweep 2	Stop 1.8 2.425 ms (	430 0112	Log	Li
MSG							STATU	s			

Plot 7-145. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-146. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ectrum Analyze											- 6 ×
X/RL	RF	50 Ω AC	CORRE	C		VSE:INT	#Avg Typ	e: RMS	TRA	CE 1 2 3 4 5 6	Fre	quency
			PNO: IFGai	:Fast ↔ n:Low	Trig: Fre Atten: 10				TY C			
								Mk	r1 18.30	0 5 GHz 44 dBm		Auto Tune
10 dB/div Log	Ref 0.0	0 dBm							-54.	.44 dBm		
						ĺ					с	enter Freq
-10.0										DL1 -13.00 dBm	15.000	000000 GHz
-20.0												
												Start Freq
-30.0											10.000	000000 GHz
-40.0												
10.0											20 000	Stop Freq 000000 GHz
-50.0									<b>+</b> ∳ <sup>1</sup> −		20.000	
-60.0					and the second secon	and the second	-	Contraction of the second s				CF Step
-00.0		and the second second									1.000 Auto	000000 GHz Man
-70.0												
-80.0											F	req Offset
-00.0												0 Hz
-90.0												
												Scale Type
Start 10.0	00 GHz				0.0 MU		_		Stop 20	0.000 GHz	Log	<u>Lin</u>
#Res BW	1.0 WHZ			#VBW	3.0 MHz		5	STATU		20001 pts)		
								JIAIC				

Plot 7-147. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



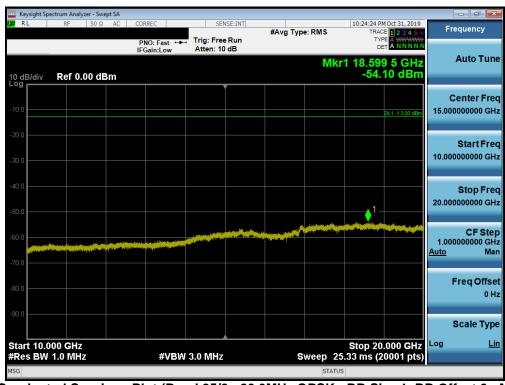
Plot 7-148. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage OF of 250
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		ctrum Anal	yzer - Swe	pt SA										
<b>l,XI</b> R	L	RF	50 Ω	AC	CORREC				#Avg Typ	e: RMS	TRA	M Oct 31, 2019 CE 1 2 3 4 5 6 (PE 4 4 4 4 4 5 6	Free	quency
10 di	3/div	Ref 2	0.00 d	Bm	PNO: F	ast ↔ .ow	Atten: 30			N	/kr1 9.94	1 5 GHz .34 dBm	A	uto Tune
Log 10.0														enter Freq 600000 GHz
0.00 -10.0												DL1 -13.00 dBm		Start Freq 000000 GHz
-20.0 -30.0														Stop Freq 000000 GHz
-40.0 -50.0				and the second se				alife a construction of the construction of th	en on Martin martin franzisce and The State of State of State of State of State The State of		haran dina dan selarah karatar		808.5 <u>Auto</u>	CF Step 00000 MHz Man
-60.0													Fi	req Offset 0 Hz
-70.0 Star	t 1.91:	5 GHz									Stop 1	0.000 GHz		cale Type <u>Lin</u>
#Re		1.0 MH	z		;	#VBW	3.0 MHz		S		14.01 ms (	16171 pts)		
MSG										STA	TUS			

Plot 7-149. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



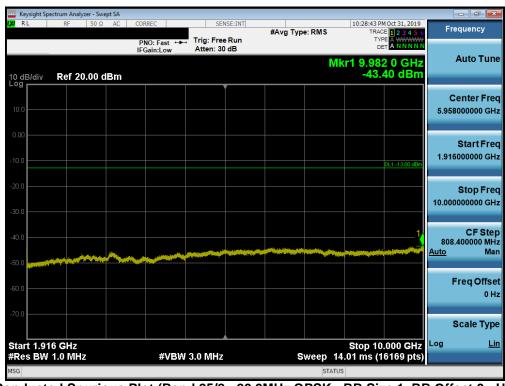
Plot 7-150. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 00 of 250
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	ectrum Analyzer -	Swept SA									
LXU RL	RF 50	Ω AC	CORREC PNO: Fast		Run	#Avg Typ	e: RMS	TRAC	E 1 2 3 4 5 6 E A WWWW T A NNNN	Fre	quency
			IFGain:Low		) dB						Auto Tune
10 dB/div Log	Ref 20.00	) dBm					M	kr1 1.67 -49.	15 GHz 06 dBm		
										C	enter Freq
10.0										940.	000000 MHz
0.00											
											Start Freq 000000 MHz
-10.0									DL1 -13.00 dBm	30.	
-20.0											Stop Freq
-30.0											000000 GHz
-30.0											
-40.0									. 1	182.	CF Step 000000 MHz
-50.0							and Marshell		I Instantiant	<u>Auto</u>	Man
<b>b</b> rytekseniek	an a	of the state of th		allander ander an der Staten auf der Staten an de	******					F	req Offset
-60.0											0 Hz
-70.0											
										S	cale Type
Start 0.03								Stop 1.8	500 GHz	Log	Lin
#Res BW	1.0 MHZ		#V	BW 3.0 MHz			Sweep	2.427 ms (	3041 ptS)		

Plot 7-151. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-152. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 07 of 250
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	ectrum Analyzer - Swe	ept SA							
L <b>XI</b> RL	RF 50 Ω		RREC		#Avg Typ	e: RMS	TRAC	MOct 31, 2019 E 1 2 3 4 5 6 E A WWWW	Frequency
10 dB/div	Ref 0.00 dE	IF	NO: Fast ↔ Gain:Low	Atten: 10		Mk	r1 18.28		Auto Tun
-10.0								DL1 -13.00 dBm	Center Fre 15.000000000 GH
-20.0									Start Fre 10.000000000 GH
-40.0							1		Stop Fre 20.000000000 GH
-60.0									CF Ste 1.00000000 GH <u>Auto</u> Ma
-80.0									Freq Offse 0 H
-90.0 Start 10.0							Stop 20	.000 0112	Scale Typ Log <u>Li</u>
#Res BW	1.0 MHz		#VBW	3.0 MHz	S	weep 2	2 <b>5.33 ms (2</b> US	0001 pts)	

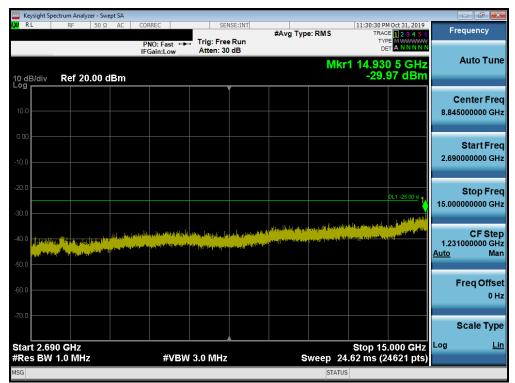
Plot 7-153. Conducted Spurious Plot (Band 25/2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 00 of 250
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		ctrum Analyzer	- Swept SA								-	
LXI R	L	RF 5	OΩ AC	CORREC		SENSE:INT	#Avg Typ	e: RMS		MOct 31, 2019	Free	luency
				PNO: Fas IFGain:Lo		ree Run 30 dB			TYF DE			
10 dE Log	3/div	Ref 20.0	0 dBm					Μ	lkr1 2.31 -38.	3 5 GHz 07 dBm	<u>д</u>	uto Tune
10.0						Ĭ						nter Freq 00000 GHz
0.00											1.2525	00000 GHZ
												Start Freq 00000 MHz
-10.0												
-20.0										DL1 -25.00 dBm		Stop Freq 00000 GHz
-30.0										<b>♦</b> <sup>1</sup>		CF Step
-40.0	يدور الله علم	التأميلية أرور الرابيل	decommente		(ilianda dang berahila) Kang berahila						244.5 <u>Auto</u>	00000 MHz Man
-50.0	han shi ki yang	المركلة فريز والمردمان	التنامية لنرطاني									
-60.0											Fr	eq Offset 0 Hz
-70.0												
											S	cale Type
	t 0.03					_				.475 GHz	Log	<u>Lin</u>
	s BW	1.0 MHz		#\	/BW 3.0 MH	IZ			3.260 ms (	4891 pts)		
MSG								STAT	US			

Plot 7-154. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



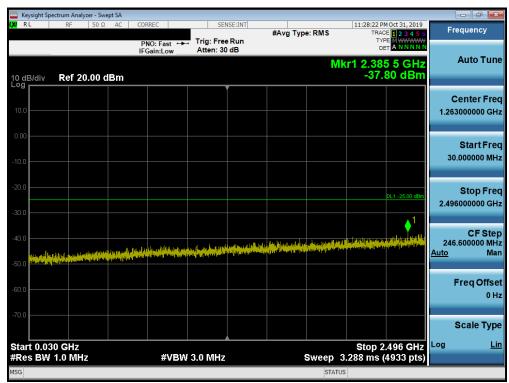
Plot 7-155. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 00 of 250
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	pectrum Analyzer - S									[	- • ×
L <mark>XI</mark> RL	RF 50 9	Ω AC	CORREC	SENS	SE:INT	#Avg Typ	e RMS		MOct 31, 2019	Fre	equency
			PNO: Fast +++	Trig: Free Atten: 10				TYF			
10 dB/div	Ref 0.00 d	IBm					M	(r1 25.71) -40.	6 0 GHz 93 dBm		Auto Tune
-10.0											enter Freq 0000000 GHz
-20.0									DL1 -25.00 dBm	15.000	Start Freq
-30.0									1	13.000	JUUUUUUUUUUUUUUU
-40.0		a li sa kata ya sa kuta	the although the tweeter of a	lata an taba mana ang ing ing i	n kultalkana ana ana	in a start and a start of the		And plantanel top ten		27.000	Stop Freq
-60.0	della piles and provided and the second s	alle alle alle alle alle	ار رید در هندردگارید دا آدرمزان ا	it out of the latter of the second of the	alde del più al a dese più dana	a di sa sa sili din sa sabilitati				1.200	CF Step
-70.0										<u>Auto</u>	Man
-80.0										F	Freq Offset 0 Hz
-90.0											Scale Type
	000 GHz / 1.0 MHz		#VBW	3.0 MHz		s	weep :	Stop 27 30.40 ms (2	.000 GHz 4001 pts)	Log	<u>Lin</u>
MSG							STAT	TUS			

Plot 7-156. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



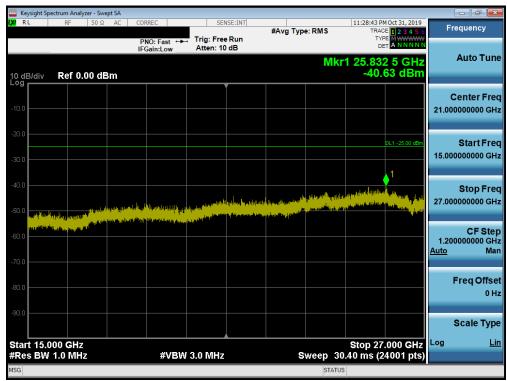
Plot 7-157. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ght Spectrum .	Analyzer - Swe	ept SA									
l <b>xi</b> RL	RF	50 Ω	AC C	ORREC	SEI	NSE:INT	#Avg Typ	e: RMS		Oct 31, 2019 CE 1 2 3 4 5 6	Freq	uency
				PNO: Fast ↔ FGain:Low	Trig: Free Atten: 30		• •		T			
				FGalli.LOW	Atten: 00	ub i		М	kr1 14.86	8 0 GHz	A	uto Tune
10 dB/c	div <b>Re</b> i	f 20.00 d	lBm						-31	.48 dBm		
					<u> </u>						Co	nter Freg
10.0												00000 GHz
											0.04000	
0.00												tart Freq
												00000 GHz
-10.0											2.00000	
-20.0												top Erog
										DL1 -25.00 dFm		top Freq
-30.0												
				Anderson des reiter te	and to a lot some so		a dina pala matana		and nother deserves	and an and a standard statement		CF Step
-40.0	. a.	disconding on the		والموقف وأفاد الرقيس والم	an a	particular data		lie dat states	and the set of the second s			00000 GHz
-50.0	a si kati sa ka	Sending and the second second	<u> </u>								<u>Auto</u>	Man
											En	
-60.0												eq Offset 0 Hz
-70.0											Sc	ale Type
	2.690 GH BW 1.0 I			#\/B\/	/ 3.0 MHz		-	weep	Stop 1: 24.62 ms (	5.000 GHz	Log	Lin
MSG		1112			- 010 Mill 2							

Plot 7-158. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



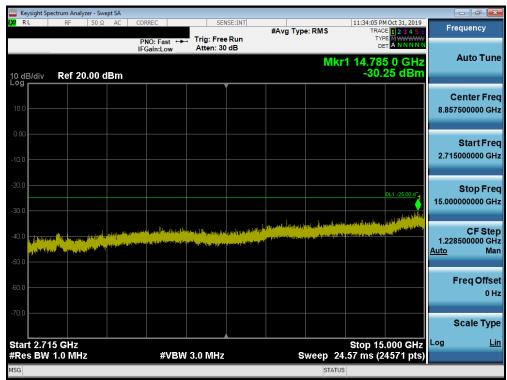
Plot 7-159. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 101 of 250
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PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB Mkr1 2,428 5 GHz -38,43 dBm Center Freq 1,263000000 GHz Center Freq 1,263000000 GHz 3,000000 MHz 3,000000 MHz 2,496000000 GHz CF Step 2,496000000 GHz CF Step 2,49600000 GHz CF Step 2,496000000 GHz CF Step 2,49600000 GHz CF Step		ectrum Analyze	r - Swept S	5A									
Atten: 30 dB Mikr1 2.428 5 GHz -38.43 dBm Auto Tune Mikr1 2.428 5 GHz -38.43 dBm Center Freq 1.26300000 GHz Start Freq 30.00000 MHz Start Freq 30.000000 MHz Start Freq 2.49600000 GHz CF Step 2.49600000 GHz	l <b>XI</b> RL	RF	50Ω A					#Avg Typ	e: RMS	TRAC		Freq	luency
OdB/div       Ref 20.00 dBm       -38.43 dBm         000       -38.43 dB										DE			
000       Center Freq	10 dB/div	Ref 20.0	00 dBi	m					Μ	kr1 2.42 -38.	8 5 GHz 43 dBm	A	uto Tune
0.0 Start Freq   0.0 <t< td=""><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td></t<>	10.0												•
Image: Stop Freq       Stop Freq         Image: Stop Freq       Stop Stop Freq         Image: Stop Freq       Stop Stop Freq         Image: Stop Freq       Stop Stop Freq         Image: Stop Stop Freq       Stop Stop Stop Stop Stop Stop Stop Stop	-10.0												•
CF Step 246.600000 MHz 246.600000 MHz 246.60000 MHz 246.6000 MHZ 246.600 MHZ 24	-20.0										DL1 -25.00 dBm		
Image: start 0.030 GHz     Stop 2.496 GHz     Log     Ling	-40.0	New York Street			u		<u>Listelaulia</u>	ina in the second state of the s		n (n 1915) Ny Instanton Managaran Ny Instanton Managaran	n an an think the		00000 MHz
tart 0.030 GHz Stop 2.496 GHz	-50.0											Fr	
tart 0.030 GHz Stop 2.496 GHz Log Lin Res BW 1.0 MHz #VBW 3.0 MHz Sweep 3.288 ms (4933 pts)	-70.0												
					#VBM	(30 MHz			Sween	Stop 2	.496 GHz 4933 nfs)	Log	Lin
G STATUS	MSG	1.0 10112									rata pra)		

Plot 7-160. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-161. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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		Analyzer - Sw											
KU RL	R	50 Ω	2 AC		D: Fast 🔸			#Avg Typ	e: RMS	TRAC	M Oct 31, 2019 DE <b>1 2 3 4 5 6</b> PE M WWWWW ET A N N N N N	Frequ	iency
I0 dB/div	Re	f 0.00 d	Bm	IFGa	ain:Low	Atten: 1	Jab		Μ	kr1 25.72		Αι	ito Tun
-10.0												Cer 21.00000	nter Free 0000 GH
30.0											DL1 -25.00 dBm	S1 15.00000	tart Fre 0000 GH
40.0		مارانه (الر.	it fill pillin	(Hangalika	ka <sup>lije</sup> tuster <mark>attala</mark> a	des Helf Harson de La	ti daga generativ	la entre state de la constante	and a state of the	n Ivel Adl. in Inc. Spill Novel Adl. in Inc. Spill		S 27.00000	top Fre 0000 G⊦
50.0			N, Day Selection	an line at least	h pilling in colour of	ita, panisi di sita						1.20000 <u>Auto</u>	CFSte 0000GI Ma
10.0												Fre	eq Offs 0 I
80.0	000.0									Stop 27	.000 GHz	Sc	ale Typ L
Res BV					#VBW	3.0 MHz		s	weep	30.40 ms (2	24001 pts)		_
ISG									STA	TUS			

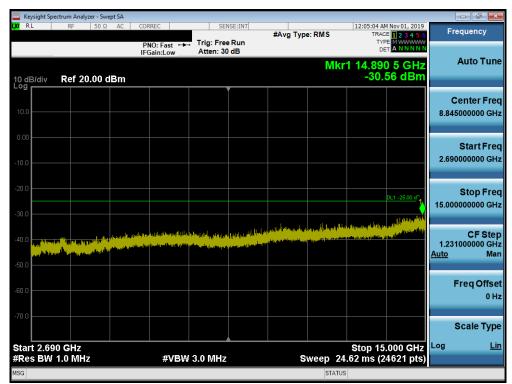
Plot 7-162. Conducted Spurious Plot (Band 41 PC2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ectrum Analyzer - Swej	pt SA									
L <mark>XI</mark> RL	RF 50 Ω	AC CORR	EC	SEN	ISE:INT	#Avg Typ	e: RMS		M Nov 01, 2019	Fr	equency
10 dB/div	Ref 20.00 d	IFGa	D: Fast ↔ hin:Low	Trig: Free Atten: 30		• •	Μ	TYF DE kr1 2.34			Auto Tune
											Center Freq 2500000 GHz
-10.0										30	Start Freq 0.000000 MHz
-20.0									DL1 -25.00 dBm	2.47	Stop Freq 5000000 GHz
-40.0	la la Completencia de la completencia Seconda en la completencia de la co		a ang sa kana kana kana kana kana kana kana k	nalises has denoted as	Madalaya naplara	and the state of the		ter y After ( Population ) Service of the last operation		244 <u>Auto</u>	CF Step I.500000 MHz Man
-60.0											Freq Offset 0 Hz
											Scale Type
Start 0.03 #Res BW			#VBW	3.0 MHz			Sweep :	Stop 2 3.260 ms (	.475 GHz 4891 pts)	Log	<u>Lin</u>
MSG							STATU	S			

Plot 7-163. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



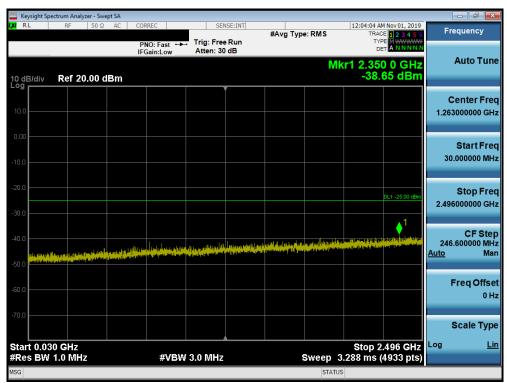
Plot 7-164. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	Spectrum Analy:	zer - Swep	t SA										- d ×
LXI RL	RF	50 Ω	AC	CORREC		SEN	SE:INT	#Avg Typ	e: RMS	TR	AM Nov 01, 2019 ACE 1 2 3 4 5 6	Fr	equency
				PNO: F IFGain:	ast ↔	Trig: Free Atten: 10		• //		т	YPE MWWWWW DET ANNNNN		
				IFGam:	LOW	Atten. It	ub .		M		19 0 GHz		Auto Tune
10 dB/div	Ref 0.0	00 dBi	m							-40	.88 dBm		
						,							
-10.0													enter Freq
-10.0												21.00	0000000 GHz
-20.0													
											DL1 -25.00 dBm		Start Freq
-30.0												15.00	0000000 GHz
											1		
-40.0									يفيلانها و	and and the boards			Stop Freq
-50.0		L. Martin	n-40444	and a marked	ing Distinguist	upped that with	adaption of		ر <b>السريت ا</b> لي	And Manual Street, Str	and the second second	27.00	0000000 GHz
autolity		Acril	الأرياب بتأثلها	فاقعالا أترياك	and a local state	and the state of the							
-60.0	L ell											1 20	CF Step 0000000 GHz
												Auto	Mar
-70.0													
-80.0													Freq Offset
-00.0													0 Hz
-90.0													
													Scale Type
Start 15	.000 GHz									Stop 2	7.000 GHz	Log	Lin
	V 1.0 MHz	4			#VBW	3.0 MHz		s	weep		(24001 pts)		
MSG									ST	ATUS			

Plot 7-165. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-166. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	Spectrum Analy		it SA										
L <mark>XI</mark> RL	RF	50 Ω	AC	CORREC		SE	NSE:INT	#Avg Typ	e: RMS	TRA	M Nov 01, 2019 CE 1 2 3 4 5 6	Fre	equency
				PNO: Fa		Trig: Fre Atten: 30		• //		TY D			
				IFGall.L	0	, then o	ub		Mk	r1 14 81	2 5 GHz		Auto Tune
10 dB/div	Ref 20	.00 di	Зm							-29	40 dBm		
							Ĭ						
10.0													enter Freq
10.0												0.041	000000 GH2
0.00													
												2 600	Start Freq
-10.0												2.090	000000 GHZ
-20.0													
-20.0											DL1 -25.00 d 👔		Stop Freq
-30.0												15.000	000000 GHz
					والمرجولين و				ally and see the	on the state of th	and dependences		05.044.0
-40.0	the Barner, when	1 100 T	ndings filtered An an	n an	, Magazar ayas Magazar Masara	alla sa			الدير محركم ومحروقا و	and a state of the second state		1.231	CF Step 1000000 GHz
	Anton the shearest	a deservice of	- H									<u>Auto</u>	Man
-50.0													
-60.0												F	req Offset
													0 Hz
-70.0													
													Scale Type
	690 GHz									Stop 15	5.000 GHz	Log	<u>Lin</u>
	V 1.0 MHz	2		#	VBW	3.0 MHz		8	-	4.62 ms (2	24621 pts)		
MSG									STATU	IS			

Plot 7-167. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



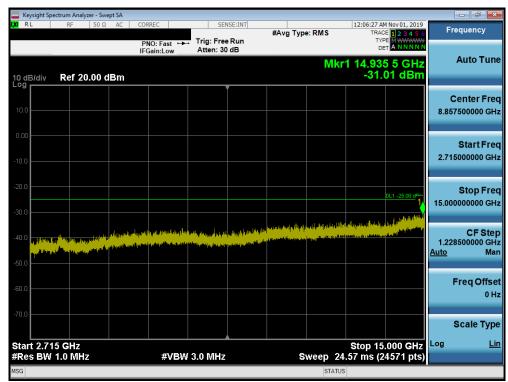
Plot 7-168. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 100 of 250
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	pectrum Analyz	er - Swep	t SA										a X
L <mark>XI</mark> RL	RF	50 Ω	AC	CORREC			NSE:INT	#Avg Ty	e: RMS	TRA	M Nov 01, 2019 CE 1 2 3 4 5 6 PE M WWWWW	Frequer	псу
	-			PNO: F IFGain:	ast ↔ Low	Atten: 3				D		Auto	Tune
10 dB/div Log	Ref 20	.00 dE	3m						Ν	/kr1 2.40 -38.	9 0 GHz 54 dBm	Auto	Tune
							Í					Cente	r Freq
10.0												1.2630000	00 GHz
0.00												Star	rt Freq
-10.0												30.0000	00 MHz
-20.0												Sto	p Freq
-30.0											DL1 -25.00 dBm	2.4960000	
											<b>♦</b> <sup>1</sup>	6	FStep
-40.0	ang still the operation of the									and a state of the st		246.6000 <u>Auto</u>	
-50.0	n mariti, da al den and de print a plan e de collect	100000											
-60.0												Freq	Offset 0 Hz
-70.0													
													е Туре
Start 0.0 #Res BV	30 GHz / 1.0 MHz				#VBW	3.0 MHz			Sweep	Stop 2 3.288 ms (	2.496 GHz (4933 pts)	Log	Lin
MSG									STA				

Plot 7-169. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-170. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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							pt SA	Analyzer - Swe	sight Spectrum	- Key
Frequency	12:07:01 AM Nov 01, 2019 TRACE 2 3 4 5 6 TYPE MWWWW DET A N N N N N	Avg Type: RMS		Trig: Fre	Fast 🔸		AC	50 Ω	RI	X/RL
Auto Tune	1 25.869 0 GHz -39.87 dBm	Mkr	10 dB	Atten: 1	:Low	IFGain	3m	f 0.00 dE	div Re	10 dB Log r
Center Fred 21.000000000 GH										-10.0
Start Fred 15.000000000 GH	DL1 -25.00 dBm									-20.0 - -30.0 -
Stop Free 27.000000000 GH			end spears to play and a			seguille and a first light	and transporting protocology and		Andre, Martin (Barrier)	-40.0 - -50.0 <del>,</del>
CF Ste 1.200000000 GH <u>Auto</u> Ma										-60.0
Freq Offse 0 H										80.0
Scale Typ Log <u>Li</u>	Stop 27.000 GHz 0.40 ms (24001 pts)	Succession - 20		3.0 MHz	#\/D\M			Hz	: 15.000 C BW 1.0	-90.0 Start
	1	Sweep 30	2	3.0 WIHZ	#VDVV			WINZ		ASG

Plot 7-171. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
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# 7.4 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 its maximum duty cycle, 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<sub>10</sub>(P<sub>[Watts]</sub>), where P is the transmitter power in Watts.

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

### Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

### **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 average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

#### Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

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#### Test Notes

Per 22.917(b), 24.238(a), and 27.53(h) in the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. 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 emission are attenuated at least 26 dB below the transmitter power.

Per 27.53(g) for operations in the 698-746 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

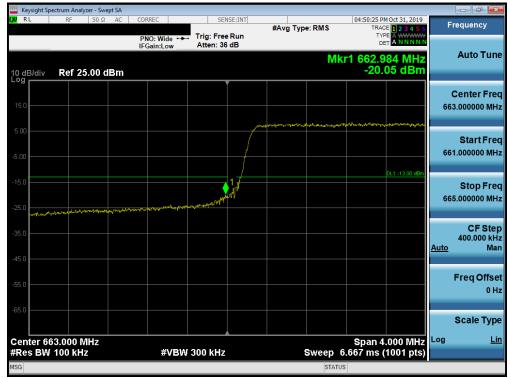
Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is 65 + 10  $\log_{10}(P) = -35$ dBm in a 6.25kHz bandwidth.

Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than  $40 + 10 \log (P) dB$  on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P) dB$  on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P) dB$  on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.

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Plot 7-172. Lower Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)



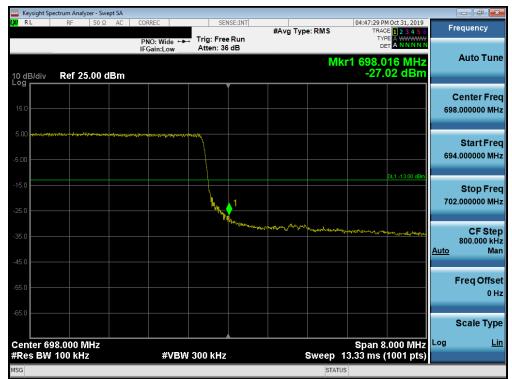
Plot 7-173. Upper Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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ter Fre
0000 MH
ort Err
art Fre 0000 Mi
op Fre
CFSte 0.000 kl M
q Offs 0
ale Typ L
<u> </u>

Plot 7-174. Lower Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-175. Upper Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					- ē 💌
XIRL RF 50Ω AC	CORREC PNO: Wide ↔ IFGain:Low	SENSE:INT Trig: Free Run Atten: 36 dB	#Avg Type: RMS	04:42:15 PM Oct 31, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
10 dB/div Ref 25.00 dBm	II Gam.Low		MI	(r1 662.976 MHz -29.96 dBm	Auto Tun
15.0					Center Free 663.000000 MH
5.00				DL1 -13.00 dBm	Start Fre 657.000000 MH
-15.0		1,1			Stop Fre 669.000000 MH
45.0	· · · · · · · · · · · · · · · · · · ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			CF Ste 1.200000 MH <u>Auto</u> Ma
55.0 65.0					Freq Offse 0 H
Center 663.000 MHz				Span 12.00 MHz	Scale Typ Log <u>Li</u>
#Res BW 150 kHz	#VBW 4	470 kHz	Sweep	1.000 ms (1001 pts)	

Plot 7-176. Lower Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-177. Upper Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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RL	pectrum Anal RF	50 Ω		CORREC			NSE:INT			04-26-05	PM Oct 31, 2019		
KL.	NF	20.35	AC		ide ↔→	Trig: Fre Atten: 3	e Run	#Avg Ty	pe: RMS	TR	ACE 1 2 3 4 5 6 YPE A WWWWW DET A NNNNN	Freq	uency
0 dB/div	Ref 2	5.00 di	Bm						Μ	kr1 662. -32	808 MHz 10 dBm	A	uto Tun
15.0													nter Fre 00000 M⊦
5.00									- waaraanaanaanaanaanaanaanaanaanaanaanaana	Are the second	DL1 -13.00 dBm		tart Fre
25.0							1						top Fre 0000 MF
15.0		-	we want	~~~~~	-	- Your March	~~					1.60 <u>Auto</u>	CFSte 00000 MH Ma
55.0												Fre	eq Offs 0 F
enfer 6	63.000 M	ЛН7								Span	16.00 MHz		ale Typ <u>L</u>
	/ 200 kH			ā	¢VB₩	620 kHz	2		Sweep	1.000 ms	(1001 pts)		

Plot 7-178. Lower Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

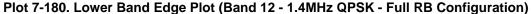


Plot 7-179. Upper Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type: Portable Handset		Dogo 114 of 250
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Plot 7-181. Upper Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

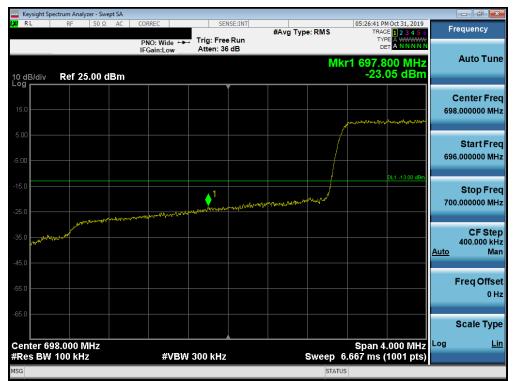
FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 115 of 250
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	ectrum Analyze		t SA										
XU RL	RF	<b>50 Ω</b>		CORREC PNO: Wi IFGain:L		Trig: Free Atten: 36		#Avg Typ	e:RMS	TRA	M Dec 04, 2019 DE <b>1 2 3 4 5 6</b> PE A WWWWW ET A N N N N N	F	requency
10 dB/div Log	Ref 25.	00 dE		II Gam.L					Μ	kr1 716.1 -15.0	48 MHz 80 dBm		Auto Tune
15.0													Center Free 8.100000 MH
5.00												71	Start Fre 6.100000 MH
25.0	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									DL1 -13.00 dBm	72	<b>Stop Fre</b> 0.100000 МН
45.0			Low	~~~~	L-V-L	m	~~~~	mintan	×			<u>Auto</u>	<b>CF Ste</b> 400.000 kH Ma
55.0													Freq Offse 0 H
-65.0													Scale Typ
Center 71 #Res BW				#	VBW (	300 kHz			Sweep	Span 4 1.000 ms (	.000 MHz (1001 pts)	Log	Lii
ISG									STAT	rus			

Plot 7-182. Upper Extended Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-183. Lower Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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PNO: Wide		Spectrum Ana												
AB/div       Ref 25.00 dBm       -17.89 dBm         AB/div       Ref 25.00 dBm       -17.89 dBm         Center F       716.000000         AB/div       Center F         Cincle       Center F         Cincle       Center F         Cincle       Center F         Cincle       Cincle	RL	RF	50 Ω	AC	PNO: W	ide ↔→ .ow	Trig: Fre	Run	#Avg Ty	pe: RMS	TRA	CE 1 2 3 4 5 6	F	requency
5.0       Center F         5.0       Center F         6.00       Center F         C		Ref 2	25.00 d	Bm						Μ	ikr1 716. -17	004 MHz .89 dBm		Auto Tur
00       1       01	5.0	and the second	montoned	munur	erynge yn yn a	minner	whener							Center Fre 6.000000 Mi
50       Stop F         50													71	Start Fre 4.000000 Mi
50 CFS 400.000 50 CFS 50 CFS 5								1	and and a start and a start and a start	millinnigen	eter from grand book of the		71	Stop Fr 8.000000 M
so to to to to to to to to to t													<u>Auto</u>	CF Ste 400.000 k M
enter 716.000 MHz Span 4.000 MHz Log														Freq Offs 0
Res BW 100 kHz #VBW 300 kHz Sweep 6.667 ms (1001 pts)	enter 7										Span 4	1.000 MHz	Log	Scale Tyj
	tes BV	N 100 kH	lz		-	#VBW	300 kHz			Sweep	6.667 ms	(1001 pts)		

Plot 7-184. Upper Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-185. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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		nalyzer - Swe										_	
RL	RF	50 Ω	AC	PNO: V	Vide ↔→ Low			#Avg Ty	pe: RMS	TRA	PM Oct 31, 2019 CE 1 2 3 4 5 6 PE A WWWW DET A NNNNN	F	requency
) dB/div	Ref	25.00 d	lBm						Μ	kr1 716.0 -18.	004 MHz 85 dBm		Auto Tur
5.0	tongament	~~~~uton	-	nother to a start	man	~							Center Fre 6.000000 Mi
											DL1 -13.00 dBm	71	Start Fr 4.000000 M
5.0						hy,	1	List of Providence	Maylange Angelester	Search Barry Virently		71	Stop Fr 8.000000 M
5.0												<u>Auto</u>	CF Sto 400.000 k M
i.0 ——													Freq Offs 0
enter 7	716.000	MHz								Snan	1.000 MHz	Log	Scale Ty
	V 100 I				#VBW	300 kHz			Sweep	6.667 ms	(1001 pts)		
G									STA	TUS			

Plot 7-186. Upper Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-187. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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RL	ctrum Analyz RF	er - swep 50 Ω	AC	CORREC		SE	SE:INT			05-18-34	PM Oct 31, 2019	_	
NL.	N	00.35	AC		ide ↔→		Run	#Avg Ty	e:RMS	TRA	ACE 1 2 3 4 5 6 (PE A WWWWW A N N N N N	F	requency
) dB/div	Ref 25	.00 di	Bm						Μ	kr1 716. -24	008 MHz .35 dBm		Auto Tun
5.0													Center Fre 6.000000 MH
.00 <b></b>	trinoria pitrodi		and the second	400°YQ#4==41	ed <del>e - ontoe -</del> o							71:	Start Fre 2.000000 MI
5.0						WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	1	March Marchard			DL1 -13.00 dBm	72	Stop Fre 0.000000 MI
5.0									and and a second second	inter Aller Stage Andrews	Mara and a start	<u>Auto</u>	CF Ste 800.000 kl M
5.0													Freq Offs 0
5.0													Scale Ty
enter 71 Res BW	6.000 M 100 kHz			;	#VBW	300 kHz			Sweep	Span 3 13.33 ms	8.000 MHz (1001 pts)	Log	Ĺ

Plot 7-188. Upper Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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Plot 7-189. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-190. Lower Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
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RL F	n Analyzer - Swept RF 50 Ω		RREC	SEN	ISE:INT				M Oct 31, 2019		equency
			IO: Wide ↔ Sain:Low	Trig: Free Atten: 36		#Avg Typ	e: RMS	TRAC TY D	CE 1 2 3 4 5 6 PE A WWWW ET A NNNNN	F1	equency
dB/div Re	ef 25.00 dE						Mk	r1 787.0 -22.	98 dBm		Auto Tur
5.0	promonality to optimize of the providence of the	hall - after the grant	and again and a final	M-7							Center Fre 7.000000 MH
.00									DL1 -13.00 dBm	785	Start Fre
5.0				- Ving	1 And Westernoon	of the share a share for the	ورسكار والأعلام والمحالين والمحالين والمحالين والمحالين والمحالين والمحالين والمحالين والمحالين والمحالين والم	and the second second		789	Stop Fre
5.0										<u>Auto</u>	CF Ste 400.000 ki M
5.0											Freq Offs 0
5.0											Scale Tyj
enter 787.0 Res BW 100			#VBW	/ 300 kHz			Sweep (	Span 4 6.667 ms	.000 MHz (1001 pts)	Log	Ļ

Plot 7-191. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-192. Upper Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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			SENSE:IN	#Avg Type: RM	06:21:08 PM Oct 31, 2019 TRACE 1 2 3 4 5 6	Frequency
			Trig: Free Run Atten: 36 dB		DET A NNNN	
					Mkr1 776.872 MHz	Auto Tui
0 dB/div Ref 25.0	00 dBm				-28.83 dBm	
			Ĭ			Center Fr
5.0						777.000000 M
.00				Manageroutian	Mandan ang daning dalah perjeti panangan penyah	Start Fr
						773.000000 M
					DL1 -13.00 dBm	
5.0					DET -13.00 (BM)	Stop Fr
						781.000000 M
5.0			۳. (			
5.0		and the second second	hours			CFSt
3.0		. Harad Walt				800.000 k Auto N
5.0	الماليون	44				
dynam valen any ma	and the second and the					Freq Offs
5.0						0
:5.0						Scale Ty
enter 777.000 MH Res BW 100 kHz	Z	#VBW 3	00 647	Swo	Span 8.000 MHz p 13.33 ms (1001 pts)	Log

Plot 7-193. Lower Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



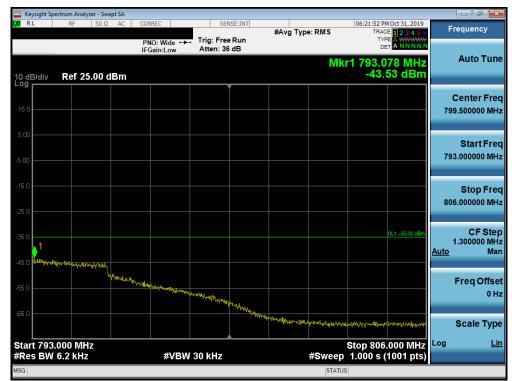
Plot 7-194. Lower Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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RL	RF	50 Ω	AC	CORREC		SE	NSE:INT	<i>"•</i> <del>•</del>			M Oct 31, 2019	E	requency
				PNO: W	ide ↔ .ow	Trig: Fre Atten: 3		#Avg Typ	DE: RIVIS	TY D	CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N		equeiney
dB/div	Ref 2	5.00 d	Bm						Mk	(r1 787.( -26.	040 MHz 99 dBm		Auto Tui
5.0													Center Fro 7.000000 Mi
.00	5-3-4- <u>-</u> 9-9	98494- <sup>0</sup> -1-49-08-9	Y <b>y-byseco</b> r		n at we divise the second						DL1 -13.00 dBm	78:	Start Fr 3.000000 M
5.0							1					791	Stop Fr 1.000000 M
5.0							A allow a post of	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ne Mensen af blende for an an an	nen tittern puttern ge	here water	<u>Auto</u>	CF Sto 800.000 k M
5.0													Freq Offs 0
5.0													Scale Ty
	787.000 I V 100 kH				#VBW	300 kHz	· · · · ·		Sweep	Span 8 13.33 ms	3.000 MHz (1001 pts)	Log	ļ

Plot 7-195. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-196. Upper Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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Plot 7-197. Lower Band Edge Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-198. Upper Band Edge Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
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2 AC CORREC PNO: Wide ← IFGain:Low	Trig: Free Run Atten: 36 dB	#Avg Type: RMS	(07:33:42 PM Oct 31, 2019) TRACE 12.3 4 5 6 TYPE A WWWWY DET A NN NN N Kr1 823.992 MHz -22.61 dBm	Frequency Auto Tur Center Fre 824.000000 MH
IFGain:Low	Atten: 36 dB	M	kr1 823.992 MHz	Center Fre 824.000000 MH
		and week make a start of the same and a first	ىرىيالەر، مەلەر مەلەر يەن مەرەر يەن مەرەر يەن بايور بەت	824.000000 MH
			011_12.00 vBm	Start Fr 822.000000 M
	1			Stop Fr 826.000000 M
				CF St 400.000 k <u>Auto</u> M
				Freq Offs 0
				Scale Ty
#VB\	N 300 kHz	Sweep		Log <u>l</u>
		a construction of the state of	www.www.www.www.www.www.www.www.www.ww	суми мили и и и и и и и и и и и и и и и и

Plot 7-199. Lower Band Edge Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-200. Upper Band Edge Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dega 105 of 250	
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	Spectrum Analy:	zer - Swept S	SA										
LXU RL	RF	50 Ω	AC	CORREC	ide ⊶⊷			#Avg Typ	e: RMS	TR4	PM Oct 31, 2019 ACE 1 2 3 4 5 6 YPE A WWWW	F	requency
				IFGain:L		Atten: 36			М	kr1 823.	968 MHz		Auto Tune
10 dB/div Log	Ref 25	.00 dB	m							-24	.96 dBm		
15.0													Center Fred 4.000000 MHz
5.00							مسمو	manufarmans.	water	mappin	and and the second second second		
-5.00												82	Start Fred 2.000000 MHz
											DL1 -13.00 dBm		
-15.0						4	1					82	Stop Free 6.000000 MH
	fridger and and	munitur	, munun	and the first of the second	howner	warner WW							
-35.0	·											<u>Auto</u>	CF Step 400.000 kH Mar
-43.0													Freq Offse
-55.0													0 H
-65.0													
													Scale Type
	324.000 M V 100 kHz			#	¢VBW	300 kHz			Sweep	Span - 6.667 ms	4.000 MHz (1001 pts)	Log	<u>Lir</u>
MSG									STA	TUS			

Plot 7-201. Lower Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-202. Upper Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 120 of 250
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RL	RF	/zer - Swej 50 Ω	AC	CORREC		SEI	NSE:INT			07:24:20 PI	4 Oct 31, 2019	_	
				PNO: W IFGain:L	ide ↔→ .ow	Trig: Free Atten: 36	Run	#Avg Type	RMS	TRAC	E 1 2 3 4 5 6 E A W N N N N		equency
0 dB/div	Ref 2	5.00 d	Bm						Mk	r1 823.9 -28.	60 MHz 45 dBm		Auto Tun
15.0													Center Fre
5.00							/**	\$µ <sup>1</sup> **18****************************	₩₽₩₩₽₩₽₩₽₩₽₩₽₩₩₽₩₩	44 <u>5<sup>-1</sup>14</u> 754-1 <sub>144</sub> 2-4744		820	Start Fre
25.0							1				DL1 -13.00 dBm	828	Stop Fre
5.0	Parting of the start of the	Yminadaulid	ليلغون	rkeyrar <sup>a</sup> lyyby <sup>rd</sup>		u.n.a.yh.a.M	,					<u>Auto</u>	CF Ste 800.000 ki M
5.0													Freq Offs 0
enter	824.000 N	ЛH7								Span 8	.000 MHz		Scale Typ
	W 100 kH			;	¢VB₩	300 kHz		5	Sweep 1	3.33 ms (	1001 pts)		

Plot 7-203. Lower Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-204. Upper Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕕 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 107 of 250
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Keysight Spectrum Analyzer - Swept SA					
RL RF 50 Ω AC	CORREC PNO: Wide	SENSE:INT Trig: Free Run Atten: 36 dB	#Avg Type: RMS	07:18:29 PM Oct 31, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
0 dB/div Ref 25.00 dBm	II Gain.cow		MI	(r1 824.000 MHz -28.993 dBm	Auto Tun
15.0					Center Fre 824.000000 MH
5.00					Start Fre 818.000000 MH
25.0		1,		DL1 -13.00 dBm	Stop Fre 830.000000 MH
35.0 <b>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</b>	man				CF Ste 1.200000 MH <u>Auto</u> Ma
55.0					Freq Offso 0 F
Senter 824.000 MHz				Span 12.00 MHz	Scale Typ Log <u>Li</u>
Res BW 150 kHz	#VBW 4	470 kHz	Sweep	1.000 ms (1001 pts)	

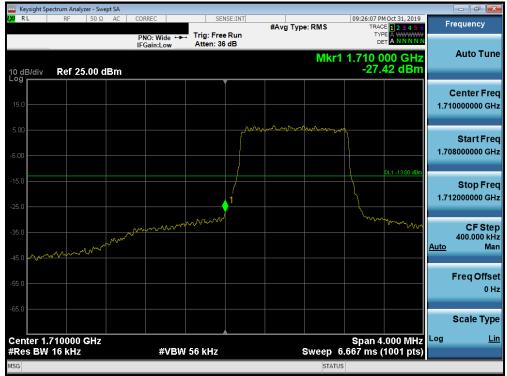
Plot 7-205. Lower Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-206. Upper Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 128 of 250
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Plot 7-207. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)



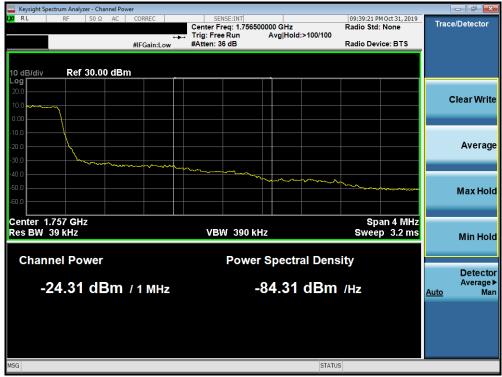
Plot 7-208. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 120 of 250
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Keysight Spectrum Analyzer - Swept SA				- ē 💌
KURL RF 50Ω AC	CORREC SEN PNO: Wide ↔ Trig: Free	SE:INT #Avg Type: RM Run	TYPE A WWWWW	Frequency
10 dB/div Ref 25.00 dBm	IFGain:Low Atten: 36		DET ANNNNN Ikr1 1.755 000 GHz -30.096 dBm	Auto Tun
15.0				Center Fre 1.755000000 GH
5.00			DL1 -13.00 dBm	Start Fre 1.753000000 GH
25.0		,1		Stop Fre 1.757000000 GH
15.0		man man way	Mar And	CF Ste 400.000 kl <u>Auto</u> Ma
5.0				Freq Offs 0 I
Senter 1.755000 GHz	41/DW/ 56 1/11-		00001 Tivvv IIII IL	Scale Typ Log <u>L</u>
Res BW 16 kHz	#VBW 56 kHz		ep 6.667 ms (1001 pts)	

Plot 7-209. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)



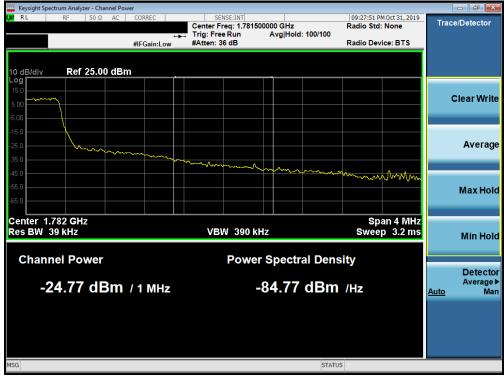
Plot 7-210. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕕 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 120 of 250
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Keysight Spectrum An							
RLRF	50 Ω AC	CORREC PNO: Wide ↔ IFGain:Low	SENSE:IN Trig: Free Run Atten: 36 dB	#Avg Typ	e: RMS	09:28:14 PM Oct 31, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N	Frequency
0 dB/div Ref 2	25.00 dBm	IFGain:Low	Atten: 00 dB		Mkr1	1.780 000 GHz -27.861 dBm	Auto Tun
15.0							Center Fre 1.780000000 GH
5.00		ung ginn manage					Start Fre 1.778000000 GH
25.0			1			DL1 -13.00 dBm	Stop Fre 1.782000000 GF
5.0	<i>س</i> ر			www.	n	man	CF Ste 400.000 kl <u>Auto</u> Ma
5.0							Freq Offs 0 F
55.0 Center 1.780000	) GHz					Span 4.000 MHz	Scale Typ Log <u>L</u>
Res BW 16 kH		#VBW	56 kHz		Sweep 6	6.667 ms (1001 pts)	
SG					STATU	s	

Plot 7-211. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)



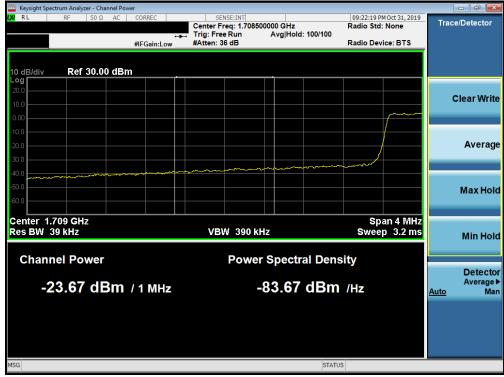
Plot 7-212. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕞 LG	Approved by: Quality Manager
Test Report S/N:	t S/N: Test Dates: EUT Type:			Dage 121 of 250
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	Spectrum An												
XI RL	RF	50 Ω	AC	CORREC PNO: W	ide ↔→	SET Trig: Free Atten: 36		#Avg Typ	e:RMS	TRAC	M Oct 31, 2019 DE <b>1 2 3 4 5</b> 6 PE A WWWWW T A N N N N N	F	requency
10 dB/div	Ref	25.00 dl	Bm	II Gam.					Mkı	1 1.709 9 -32.	988 GHz 14 dBm		Auto Tune
15.0													Center Free 0000000 GH
-5.00							/	hilphosphane	un han an a	hensem		1.70	Start Free 8000000 GH
-15.0							1				DL1 -13.00 dBm	1.71	Stop Fre 2000000 GH
35.0	and warden	ᠰᢦᠾᠰᢦᢦ᠕ᡟ	-Www	ᠬᢧ᠊ᠬᡟ᠈ᠴ᠋ᢕᠮ	n al and a star of a star	the apph						<u>Auto</u>	CF Ste 400.000 kH Ma
55.0													Freq Offse 0 H
Center	1.71000	0 GHz								Span 4	.000 MHz	Log	Scale Type Li
	W 36 kH			\$	¢∨B₩	120 kHz			Sweep	6.667 ms (	(1001 pts)		
ISG									STA	TUS			

Plot 7-213. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)



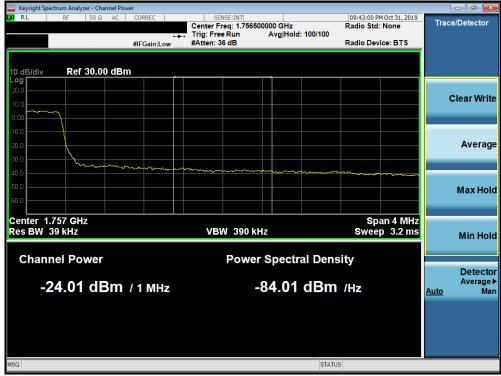
Plot 7-214. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 122 of 250
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	trum Analyzer - Swep	it SA							×
XI RL	RF 50 Ω	AC CORREC	ide 🛶 Trig: Fre		#Avg Type: RMS	TRAC	M Oct 31, 2019 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	Frequency	
10 dB/div Log	Ref 25.00 dl	IFGain:L		6 dB	Μ	kr1 1.755 (		Auto Tu	une
15.0								Center F 1.755000000 (	
5.00	<del>₯₯</del> ₯₯₯₯₯₯₯		to the ter barry					Start F 1.753000000 (	
25.0				1			DL1 -13.00 dBm	Stop F 1.757000000 (	
45.0				hanne	mmm	many	and and the	CF S 400.000 <u>Auto</u>	
55.0								Freq Off C	fs 0 H
-65.0	55000 GHz					Spand	.000 MHz	Scale Ty	yp Li
#Res BW 3		;	≠VBW 130 kHz	z	Swee	p 6.667 ms (			
ISG					5	TATUS			

Plot 7-215. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)



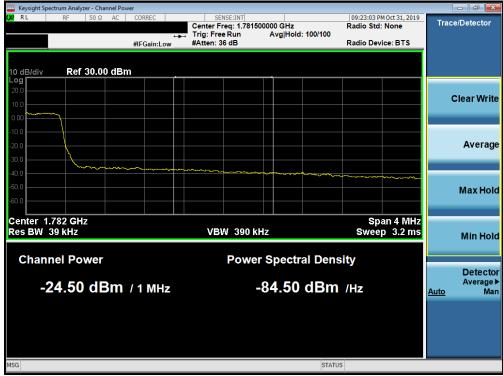
Plot 7-216. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	PM Oct 31, 2019	00-00-17.0			ISE:INT		-C	CORR		F 50 Ω	sight Spectrur	u Key XIRL
Frequency	ACE 1 2 3 4 5 6 YPE A WWWW DET A NNNN	TRAC	/pe: RMS	#Avg 1	Run		:∪ :Wide ↔ ► → in:Low	PNC	2 AC	F   50 Si		KL
Auto Tur	012 GHz .45 dBm	1 1.780 ( -33.	Mkr					100	dBm	ef 25.00	3/div R	0 dE
Center Fre 1.780000000 GF												5.0
<b>Start Fre</b> 1.778000000 GF							et and the second s	www	v Mun	Norman	Maryap	.00 .00
Stop Fre 1.782000000 GI	DL1 -13.00 dBm											5.0 5.0
CFSte 400.000 kl <u>Auto</u> Ma	ym /arra	m from from for	han war	ann an	1	<u>م</u> ر ا						5.0
Freq Offs 0												5.U + 5.O +
Scale Ty												5.0 -
Log <u>L</u>	4.000 MHz (1001 pts)	Span 4 6.667 m <u>s (</u>	Sweep			120 kHz	#VBW				ter 1.780 s BW 36	
			STAT									G

Plot 7-217. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)



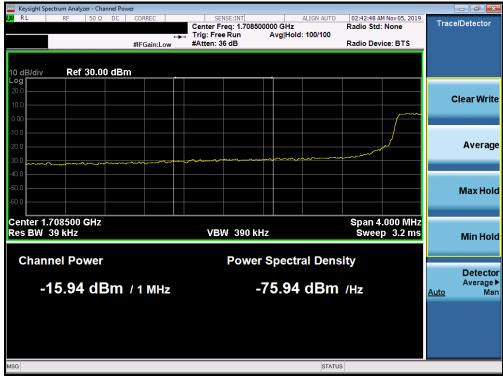
Plot 7-218. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					
RL RF 50Ω AC		sense:INT rig: Free Run	#Avg Type: RMS	09:15:12 PM Oct 31, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
0 dB/div Ref 25.00 dBm	in Gameon		Mkr	1 1.709 992 GHz -23.12 dBm	Auto Tun
15.0					Center Fre 1.71000000 GH
5.00			الحرياني مي طويقي مي من المراجع المعلم المراجع المعلم المعلم المعلم المعلم المعلم المعلم المعلم المعلم المعلم ا المحرية المعلم	ng fy Phologen frank frank frank fy fan fy f	Start Fre 1.708000000 GH
25.0		1 N			Stop Fre 1.712000000 GH
35.0 Max Anno Mandala Maria	un mannan an a	w/] • ·			CF Ste 400.000 kH <u>Auto</u> Ma
56.0					Freq Offs 0 F
Enter 1.710000 GHz				Span 4.000 MHz	Scale Typ
Res BW 62 kHz	#VBW 22	0 kHz	Sweep	6.667 ms (1001 pts)	

Plot 7-219. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)



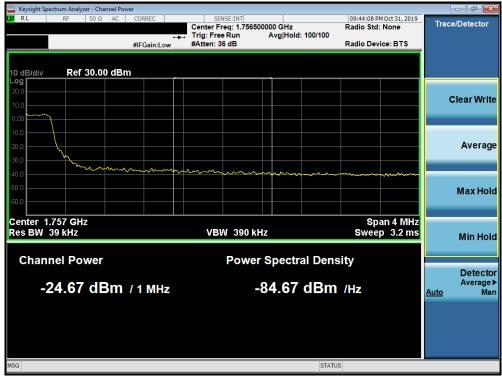
Plot 7-220. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	oectrum Analyz							- 6 -
XI RL	RF	50 Ω AC	CORREC PNO: Wide ↔	SENSE:	#Avg T	ype: RMS	09:55:29 PM Oct 31, 2019 TRACE 2 3 4 5 6 TYPE A WWWW DET A N N N N N	Frequency
10 dB/div Log	Ref 25	.00 dBm	IFGain:Low	Atten: 36 dE		Mkr1	1.755 008 GHz -28.68 dBm	Auto Tun
15.0								Center Fre 1.755000000 GH
5.00	Mar Har Mar Mar Mar Mar Mar Mar Mar Mar Mar M	nersegen self Managerikki	All and the second s					Start Fre 1.753000000 GH
25.0							DL1 -13.00 dBm	Stop Fre 1.757000000 GF
45.0				44	& Aron M. Walawala	waadantii waxaadaan	monthing	CF Ste 400.000 kl <u>Auto</u> Ma
55.0								Freq Offs 0 H
65.0								Scale Typ
Center 1. Res BW	.755000 ( 62 kHz	GHz	#VBW	220 kHz		Sweep 6	Span 4.000 MHz 5.667 ms (1001 pts)	Log <u>L</u>
ISG						STATU	s	

Plot 7-221. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)



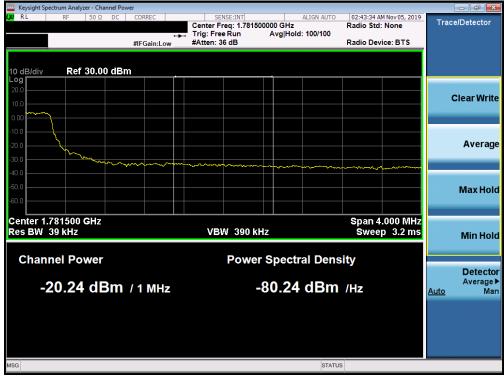
Plot 7-222. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 126 of 250
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Keysight Spe				000055						00.40.55			
RL	RF	50 Ω	AC	CORREC PNO: W	ide ↔			#Avg Ty	pe: RMS	TRA	PM Oct 31, 2019 CE 1 2 3 4 5 6 PE A A A N N N N N	F	requency
0 dB/div	Ref 25	5.00 dE	Зm	II Gain.					Mkr	1 1.780 -23	004 GHz .84 dBm		Auto Tur
15.0													Center Fre
.00	an a	<del>NY ANDERE</del>	-10		-^							1.77	<b>Start Fre</b> 8000000 Gi
5.0						"Mu	1				DL1 -13.00 dBm	1.78	Stop Fre 2000000 Gi
5.0							White I was a second	mtyunnan angang	kartula Marana	and a particular strains	and any of the states of the s	<u>Auto</u>	CF Ste 400.000 k M
5.0													Freq Offs 0
5.0													Scale Ty
enter 1.7 Res BW		GHz		-	#VBW	220 kHz			Sweep	Span 4 6.667 ms	1.000 MHz (1001 pts)	Log	L
G									STAT		· · · · · · · · · · · · · · · · · · ·	_	

Plot 7-223. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-224. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 127 of 250
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	Spectrum Ana												
X/RL	RF	50 Ω	AC		ide ↔	Trig: Free		#Avg Ty	/pe: RMS	TRA	PM Oct 31, 2019 CE 1 2 3 4 5 6 (PE A WWWWW DET A NNNNN	F	requency
I0 dB/div	Ref 2	5.00 di	Bm	IFGain:L	.ow	Atten: 36	dB		Mkr	1 1.710	000 GHz .13 dBm		Auto Tun
15.0													Center Fre 0000000 GH
5.00								nologia gla gydriad	unplify&.conservation	Roman Branch - Grant		1.70	Start Fre
25.0							1.0				DL1 -13.00 dBm	1.71	Stop Fre 4000000 GH
85.0	leggel(refe]).Alexader	heraphalleed	Ador[pt=1444	AL BUT DURING	angyan bisar	Yougery we let 117						<u>Auto</u>	CF Ste 800.000 kl Ma
i5.0 ——													Freq Offs 0 I
enter	1.710000	GHz								Span	8.000 MHz	Log	Scale Typ <u>L</u>
	W 120 kH			3	¢VB₩ ∘	430 kHz			Sweep	13.33 ms	(1001 pts)		
SG									STAT	rus			

Plot 7-225. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)



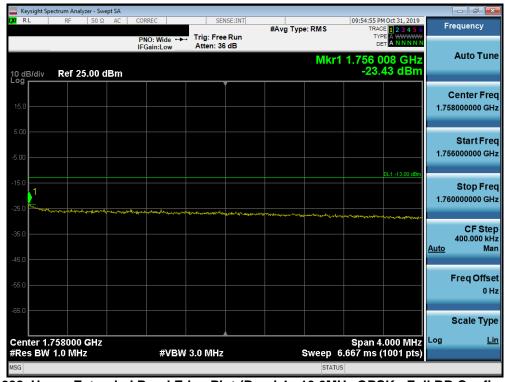
Plot 7-226. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	pectrum Analyz			000050						00.54.46.5		_	
<mark>0</mark> RL	RF	50 Ω	AC	PNO: W	ide ↔→ .ow	Trig: Free Atten: 36		#Avg Typ	e: RMS	TRA	M Oct 31, 2019 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	Fr	equency
0 dB/div	Ref 25	.00 dE	3m						Mkr	1 1.755 2 -31.	208 GHz 92 dBm		Auto Tur
15.0													enter Fre 5000000 GH
5.00 <b></b>	98	9 <del>9-91</del> 94/	and the second		1114							1.75 <sup>,</sup>	Start Fre
25.0											DL1 -13.00 dBm	1.75	Stop Fre
5.0							Mulwriterd	in a grant day	to the second	alger Aller and an and a start of the start	miniman	<u>Auto</u>	CF Ste 800.000 kl Ma
5.0												1	Freq Offs 0
i5.0													Scale Typ
	.755000 ( 120 kHz			į	≠vBW -	430 kHz			Sweep	Span 8 13.33 ms	3.000 MHz (1001 pts)	Log	Ļ
G									STATU	JS			

Plot 7-227. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)



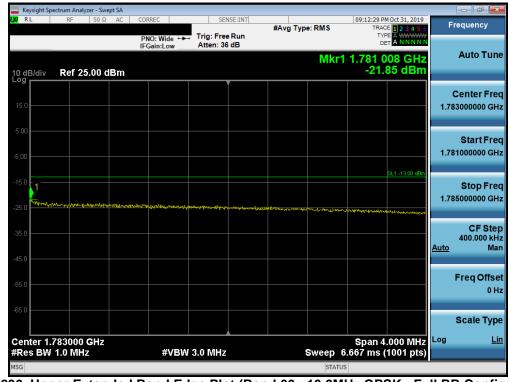
Plot 7-228. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕕 LG	Approved by: Quality Manager
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	ectrum Analyz											
<mark>XU</mark> RL	RF	50 Ω A	PN	EC D:Wide ↔ →			#Avg Typ	e: RMS	TRA	PM Oct 31, 2019 CE 1 2 3 4 5 6 PE A A A N N N N N	F	requency
10 dB/div	Ref 25	.00 dBr						Mkr	1 1.780 -27	064 GHz 74 dBm		Auto Tun
15.0												Center Fre 0000000 GH
5.00	1949perapa	an an an training and a start of the	and the second second	deren versen for						DL1 -13.00 dBm	1.77	Start Fre 6000000 GH
25.0						<b>∮</b> 1				ULT -T3.00 dBm	1.78	Stop Fre 4000000 GH
45.0						Melenne and	Norther March M	<u>k</u> meret yn h	-ayyheriyeenidiyy	Scatterio and and a second	<u>Auto</u>	CF Ste 800.000 kH Ma
55.0												Freq Offs 0 H
.65.0												Scale Typ Li
Center 1. Res BW				#VBW	430 kHz			Sweep	Span 8 13.33 ms	3.000 MHz (1001 pts)	LUg	<u> </u>
ISG								STAT	JS			

Plot 7-229. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-230. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ectrum Analyzer - S										- 6
XI RL	RF 50	Ω AC	CORREC PNO: Wide ↔ IFGain:Low			#Avg Type:	RMS	09:03:55 PM TRACE TYPE DET	Oct 31, 2019 <b>1 2 3 4 5 6</b> A WWWWW A NNNN	Fre	quency
10 dB/div	Ref 25.00	dBm	IFGam:Low	Atten: ou			Mkr1	1.709 9			Auto Tun
- <b>og</b> 15.0											enter Fre 000000 GH
5.00							an	anter de la constant de la constant La constant de la const			Start Fre
25.0					1_1				0L1 -13.00 dBm		Stop Fre
35.0 <mark>ممص</mark>	maynam	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		- Amerika	W *					1.: <u>Auto</u>	CF Ste 200000 MH Ma
55.0										F	req Offs 0 F
	710000 GH:	z						Span <u>12</u>	2.00 MHz	S Log	cale Typ <u>Li</u>
Res BW	180 kHz		#VB\	V 620 kHz		Si		.000 ms (1	001 pts)		
SG							STATUS				

Plot 7-231. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-232. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					
<b>X R L</b> RF 50 Ω AC	CORREC	SENSE:INT	#Avg Type: RMS	09:53:48 PM Oct 31, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N	Frequency
10 dB/div Ref 25.00 dBm	IFGain:Low	Atten: 36 dB	Mkr1	1.755 168 GHz -33.17 dBm	Auto Tune
15.0					Center Free 1.755000000 GH
5.00					Start Fre 1.749000000 GH
25.0				DL1 -13.00 dBm	Stop Fre 1.761000000 GH
35.0		"My of "	www.www.	to the second	CF Ste 1.200000 M⊦ <u>Auto</u> Ma
55.0					Freq Offso 0 H
65.0					Scale Typ
Center 1.755000 GHz #Res BW 180 kHz	#VBW 6	20 kHz	Sweep 7	Span 12.00 MHz 1.000 ms (1001 pts)	Log <u>Li</u>
ISG			STATU	S	

Plot 7-233. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-234. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ectrum Analyzer										- # <b>X</b>
XV RL	RF	50 Ω AC	CORREC PNO: Wide ↔			#Avg Type	RMS	TRAC	M Oct 31, 2019 E 1 2 3 4 5 6 E A WWWWW A N N N N N	Fre	quency
0 dB/div	Ref 25.0	00 dBm					Mkr	1 1.780 0 -29.	48 GHz 93 dBm		Auto Tun
15.0											enter Fre 000000 GH
5.00 <b></b>		******	*******								Start Fre 000000 G⊦
25.0					<u> </u>				DL1 -13.00 dBm		Stop Fre
45.0				-Jun	mun	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ᠬᠬ᠁᠁᠕	an and and a second	day and the second s	1.: <u>Auto</u>	CF Ste 200000 MH Ma
5.0										F	req Offs 0 H
55.0											cale Typ
	780000 G 180 kHz	HZ	#VB\	N 620 kHz		\$	weep '	Span 1 1.000 ms (	2.00 MHz 1001 pts)	LUg	<u> </u>
SG							STATU	IS			

Plot 7-235. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-236. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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CI RL	RF	50 Ω	AC	CORREC		SEI	NSE:INT			08:59:32 P	M Oct 31, 2019	_	
				PNO: W IFGain:L	ide ↔→ .ow	Trig: Free Atten: 36	Run	#Avg Typ	be: RMS	TRA	ET A NNNN	Frequ	
0 dB/div	Ref 25.	.00 dl	Bm						Mkr	1 1.709 § -30.	936 GHz 65 dBm	Au	to Tun
15.0												Cen 1.710000	ter Fre 0000 GH
5.00										nodianeo venera		St 1.702000	art Fre 0000 G⊦
25.0							1				DL1 -13.00 dBm	St 1.718000	op Fre 0000 Gi
15.0		<u>n</u> rwh	-	wan kanarat	l,,,,	Norsenand							CFSte 0000 MI Ma
i5.0 —												Fre	q Offs 0 I
65.0													ale Typ
	1.710000 ( W 240 kHz			į	#VBW	820 kHz			Sweep	Span 1 1.000 ms	6.00 MHz (1001 pts)	Log	L

Plot 7-237. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-238. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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Keysight Spectrum Ana RL RF	50 Ω AC	CORREC	SENSE:INT		09:51:59 PM Oct 31, 2019	
		PNO: Wide ↔→ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N	Frequency
0 dB/div Ref 1	8.00 dBm			Mkr	1 1.755 128 GHz -33.68 dBm	Auto Tur
8.00	www.	mmmm	m			Center Fre 1.755000000 GH
2.0					0L1~13.00 dBm	<b>Start Fr</b> 1.747000000 G
2.0			1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Stop Fro 1.763000000 G
2.0						CF Sto 1.600000 M <u>Auto</u> M
2.0						Freq Offs 0
/2.0						Scale Ty
enter 1.755000 Res BW 240 kH		#VBW	820 kHz	Sweep	Span 16.00 MHz 1.000 ms (1001 pts)	Log <u>L</u>
G				STAT	US	

Plot 7-239. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-240. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 145 of 250	
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	ectrum Analyz											
<mark>(</mark> RL	RF	50 Ω AC		ide ↔	Trig: Free Atten: 36		#Avg Ty	oe: RMS	TRA	PM Oct 31, 2019 CE 1 2 3 4 5 6 (PE A WWWW DET A NNNNN	Fre	quency
0 dB/div	Ref 25	.00 dBm						Mkr	1 1.780 -31	016 GHz .34 dBm		Auto Tun
15.0												enter Fre 000000 GH
5.00 <b></b>	and the second	www.ww	m. m	VV-NL/VV								Start Fre
25.0					Ma	1				DL1 -13.00 dBm		Stop Fre
15.0					, n/	Margan	phanna	᠕ᡊᢑᠰᠺᡭᠼᢦᡙ	nd	a manya wa	1.6 <u>Auto</u>	CFSte 500000 MI Ma
5.0											F	req Offs 0 I
65.0	780000 (	SH7							Snan	16.00 MHz		cale Typ L
Res BW	240 kHz		\$	¢γΒ₩ 3	820 kHz			Sweep	1.000 ms	(1001 pts)		
SG								STAT	US			

Plot 7-241. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



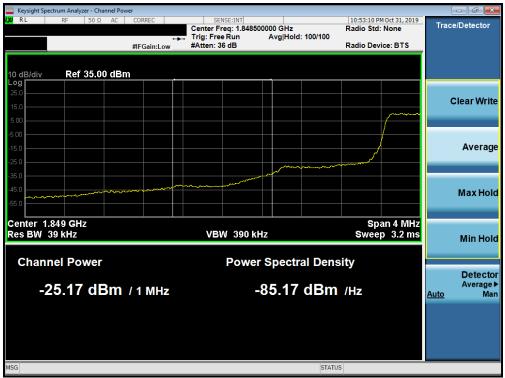
Plot 7-242. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dege 146 of 250	
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Plot 7-243. Lower Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



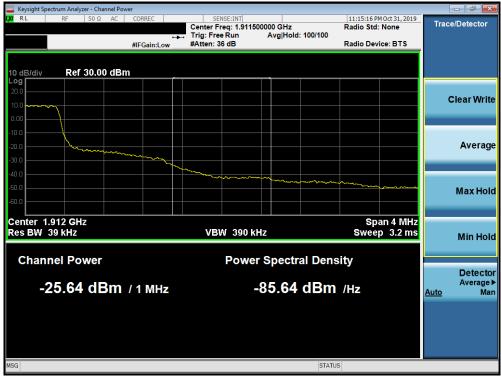
Plot 7-244. Lower Extended Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ectrum Analyzer - Swept S					- 6 -
RL	RF 50 Ω A	PNO: Wide ↔	SENSE:INT	#Avg Type: RMS	11:14:29 PM Oct 31, 2019 TRACE 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
0 dB/div	Ref 25.00 dBr	IFGain:Low	Atten: 36 dB	Mkr1	1.910 000 GHz -24.332 dBm	Auto Tur
15.0						Center Fre 1.91000000 GF
i.00		na n	2010q.00		DL1 -13.00 dBm	Start Fre 1.908000000 GH
25.0	www		1			Stop Fre 1.912000000 GF
5.0				Jer Marine Ma	M. M. Market	CF Ste 400.000 kl <u>Auto</u> Ma
5.0						Freq Offs 0 I
enter 1.9	910000 GHz				Span 4.000 MHz	Scale Typ
Res BW	16 kHz	#VBW :	56 kHz	Sweep 6	5.667 ms (1001 pts)	
G				STATU	S	

Plot 7-245. Upper Band Edge Plot (Band 2 – 1.4MHz QPSK - Full RB Configuration)



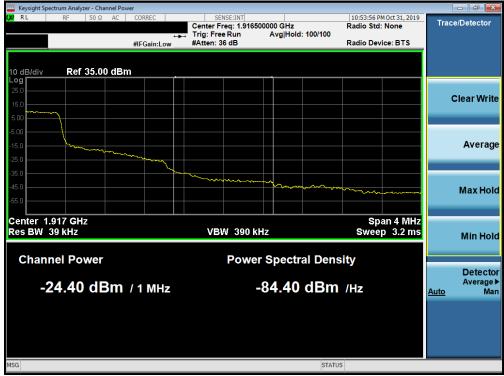
Plot 7-246. Upper Extended Band Edge Plot (Band 2 – 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	ectrum Analyzer											
U RL	RF	50 Ω AC		REC O:Wide ←		ee Run	#Avg Typ	e: RMS	TRAC	M Oct 31, 2019 DE 1 2 3 4 5 6 PE A WWWW	F	requency
				O: Wide ← ain:Low	Atten:				D			
0 dB/div	Ref 25.0	0 dBm	1					Mkr	1 1.915 ( -19.	)60 GHz 68 dBm		Auto Tun
.ºg												Center Fre
15.0											1.91	5000000 GH
5.00		pro	s. m	$\sqrt{1}$	MANY							Start Fre
5.00											1.91	3000000 GH
										DL1 -13.00 dBm		
15.0		/				√ <b>1</b>						Stop Fre
25.0 ~~~~	r.m.m.m.						monte				1.91	7000000 GH
								mg.				CF Ste
15.0								1 mm	<b>N</b>		Auto	400.000 kl Ma
15.0									man	mon		
i5.0												Freq Offs
												01
i5.0 <b></b>												Scale Typ
	045000 0								Onen	000 8411-	Log	
	915000 G 15 kHz	12		#VB	W 56 kHz			Sweep	5pan 4 6.667 ms (	.000 MHz (1001 pts)	209	
G								STAT				

Plot 7-247. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)



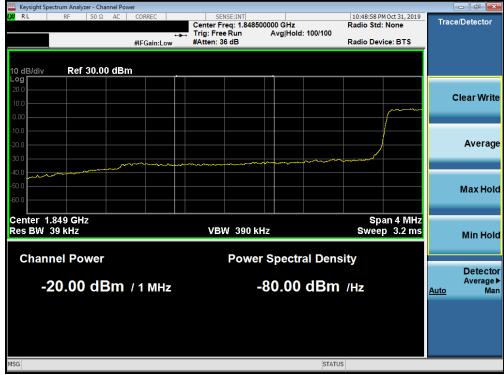
Plot 7-248. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
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	ectrum Analyz										- # ×
X/RL	RF	50 Ω AC	CORREC			#Avg Type: I	RMS	10:48:01 PM TRACE	123456	F	requency
			PNO: Wide ++ IFGain:Low	Atten: 36				DET	A WWWWW A N N N N N		
10 dB/div	Ref 25	.00 dBm					Mkr1	1.850 0 -28.83	00 GHz 7 dBm		Auto Tun
-°9										(	Center Fre
15.0										1.85	0000000 GH
5.00					And	an procession and a	www.www	mman	way		
										1.84	Start Fre 8000000 GH
-5.00										1.04	
15.0									0L1 -13.00 dBm		Stop Fre
25.0					1					1.85	2000000 GH
				man and adding							
35.0 🗠	m <del>an som s</del> om		yogen when when	Dodd Herein							CF Ste 400.000 kH
45.0										<u>Auto</u>	Ma
											Freq Offse
55.0											0 H
65.0											
											Scale Typ
	850000 (	GHz						Span 4.	000 MHz	Log	Li
fRes BW	36 kHz		#VBN	/ 120 kHz		Sv		.667 ms (1	001 pts)		
SG							STATUS				

Plot 7-249. Lower Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)



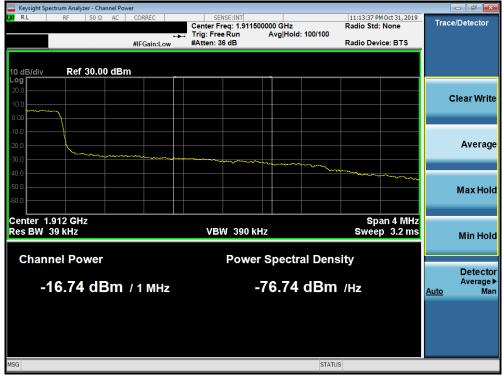
Plot 7-250. Lower Extended Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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	trum Analyzer - Swept									_	- đ <b>×</b>
XI RL	RF 50 Ω	AC CORRE	c Wide ⊶⊶	SEN		#Avg Typ	e: RMS	TRAC	M Oct 31, 2019 DE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	Fr	equency
			n:Low	Atten: 36			Mkr	DI 1 1.910 (			Auto Tune
10 dB/div	Ref 25.00 dE	3m						-26.1	36 dBm		
15.0											Center Free
15.0										1.91	0000000 GH
5.00	Non and a start	<u>mallhanhan</u> he		www.en							Start Free
-5.00										1.90	8000000 GH
15.0									DL1 -13.00 dBm		Stop Fre
-25.0				\	1					1.91	2000000 GH
					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	manne	Marsidyslasherik	man	maryn		CF Ste
35.0										<u>Auto</u>	400.000 kH Ma
45.0											
-55.0											Freq Offse 0 H
-65.0											
											Scale Type
Center 1.9 #Res BW 3	10000 GHz 36 kHz		#VBW	130 kHz			Sweep	Span 4 6.667 ms (	.000 MHz (1001 pts)	Log	Li
ISG							STATU	JS			

Plot 7-251. Upper Band Edge Plot (Band 2 – 3.0MHz QPSK - Full RB Configuration)



Plot 7-252. Upper Extended Band Edge Plot (Band 2 – 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
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	ectrum Analyz RF			000050	_					10.10.50		_	
RL	RF	50Ω A		CORREC PNO: W IFGain:L	ide ↔→			#Avg Ty	pe:RMS	TR	PM Oct 31, 2019 ACE 1 2 3 4 5 6 YPE A WWWWW DET A NNNNN	F	requency
0 dB/div	Ref 25	.00 dBi		IF Galli.L	.0w				Mkr	1 1.915 <sup>-</sup> 20-	064 GHz .78 dBm		Auto Tur
5.0													Center Fre 5000000 Gł
	un com	4 <u>mm</u>	<u>nyennu.</u>									1.91	<b>Start Fr</b> 3000000 G
5.0						- L	1 Myurm	m much and	na posteradora A	and hard only	DL1 -13.00 dBm	1.91	<b>Stop Fr</b> 7000000 G
5.0											Mar Mar Market	<u>Auto</u>	CF Sto 400.000 k M
i.0 ———													Freq Offs 0
5.0													Scale Ty
enter 1.9 Res BW	915000 ( 36 kHz	GHz		\$	¢VBW	120 kHz			Sweep	Span 6.667 ms	4.000 MHz (1001 pts)	Log	L
G									STAT				

Plot 7-253. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-254. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFL555DL		MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager	
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