

Spectrum Analyzer 1         wept SA         KEYSIGHT         Input RF         Coupling: DC         Align: Auto/No Rf         xr         PASS	<ul> <li>Input Ζ: 50 Ω</li> <li>Corr CCorr RCal</li> <li>Freq Ref: Int (S)</li> <li>NFE: Off</li> </ul>	µW Path: Standard Gat	D: Fast e: Off Gain: Low Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WW W A N N N N	924.500000 MHz
Spectrum v cale/Div 10 dB		Ref Level 20.00 dBm		Mkr1 850.85 MHz -60.673 dBm	
0.0 0.0					Full Span Start Freq 849.000000 MHz
0.0					Stop Freq 1.000000000 GHz
0.0					AUTO TUNE CF Step 15.100000 MHz
	n dan diserant Production graph tang an ang bara	Sansar an	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Auto Man Freq Offset 0 Hz
art 0.84900 GHz Res BW 100 kHz		#Video BW 300 kHz		Stop 1.00000 GH: Sweep 7.25 ms (3021 pts	X Axis Scale
1 h C [ ?	Apr 06, 2022 5:12:12 PM				Signal Track (Span Zoom)

Plot 7-39. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel)



Plot 7-40. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel)

FCC ID: A3LSMF936B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 22 of 06
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	*	·	V3.0 1/4/2022



Imput: RF         Coupling: DC         T       ↔         Align: Auto/No RF         PASS	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WW W A N N N N N	427.000000 MHz
spectrum v cale/Div 10 dB		Ref Level 20.00 dB	m	Mkr1 810.85 MHz -60.624 dBm	794.000000 MHz
					Full Span Start Freq 30.000000 MHz
0.0					Stop Freq 824.000000 MHz
					CF Step 79.400000 MHz Auto
0.0					Man Freq Offset 0 Hz
art 30.0 MHz Res BW 100 kHz		#Video BW 300 kH	Z	Stop 824.0 MH Sweep 38.1 ms (15881 pts	

Plot 7-41. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel)

Ispectrum         Mkr1 893.30 MHz         Span           Scale/Div 10 dB         Ref Level 20.00 dBm         -56.428 dBm         151.000000 MHz           100         Trace 1 Pass         Image: Start Freq 849.00000 MHz         Start Freq 849.00000 MHz           100         Image: Start Freq 849.00000 MHz         Start Freq 849.00000 MHz         Start Freq 849.00000 MHz           200         Image: Start Freq 849.00000 MHz         Image: Start Freq 849.00000 MHz         Start Freq 849.00000 MHz           200         Image: Start Freq 849.00000 MHz         Image: Start Freq 849.00000 MHz         Start Freq 849.00000 MHz           200         Image: Start Freq 849.00000 MHz           200         Image: Start Freq 849.00000 MHz         Image: Start Freq 849.00000 MHz	T +>+ Coupling: DC Align: Auto/No PASS	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	µW Path: Standard	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	324.300000 WII 12	Settings
I Face       Pass       Full Span         Full Span       Start Freq         849.000000 MHz       Stop Freq         1.00000000 GHz       AUTO TUNE         CF Step       15.100000 MHz         100       Auto	cale/Div 10 dB		Ref Level 20.00 dE	ßm			151.000000 MHz	
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0							Full Span Start Freq	
CF Step 15.10000 MHz							Stop Freq 1.000000000 GHz	
		<b>1</b>					CF Step 15.100000 MHz Auto	
0.0 Wan Preq Offset 0 Hz X Axis Scale	Jana and a state of the state o			un an de Samer an gener gen		August August ann dir dig Byld Angolaith an an dir ia	0 Hz	Loc

Plot 7-42. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel)

FCC ID: A3LSMF936B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 24 of 06
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			V3.0 1/4/2022





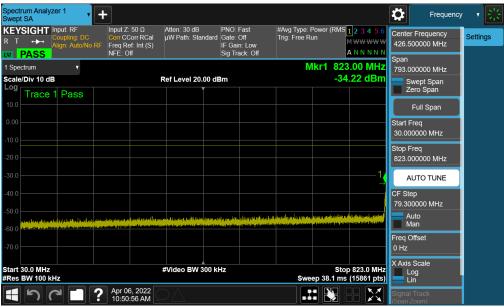
Plot 7-43. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - High Channel)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 35 of 96		
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			V3.0 1/4/2022		

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## **GSM/GPRS** Cell



Plot 7-44. Conducted Spurious Plot (GPRS Ch. 128)

Spectrum Analyzer 1				Frequency	- 7 ※
R T Coupling: DC C Align: Auto/No RF F	hput Z: 50 Ω Atten: 30 dB Sorr CCorr RCal μW Path: Standard req Ref: Int (S) IFE: Off	PNO: Fast #Avg I Gate: Off Trig: IF Gain: Low Sig Track: Off	3 Type: Power (RMS 1 2 3 4 5 6 Free Run A N N N N N	924.500000 MHz	Settings
1 Spectrum v Scale/Div 10 dB	Ref Level 20.00 d		Mkr1 978.60 MHz -51.13 dBm		
10.0 0.00				Full Span	
-10.0				849.000000 MHz Stop Freq	
				1.00000000 GHz	
-40.0	urensetessilanga kersanilan da jatigarda par ya terengi pisa parta pada pila.	المسترجع والمستعد والمراجع والمستعد والمستعد المستند المستند المستعد والمستعد والمستعد والمستعد المستعد والمست	1 4 mart hall to fast to contact the contact the second second second second second second second second second s	CF Step 15.100000 MHz	
				Man Freq Offset 0 Hz	
Start 0.84900 GHz #Res BW 100 kHz	#Video BW 300 k	Hz	Stop 1.00000 GHz Sweep 7.25 ms (3021 pts		
	Apr 06, 2022 10:51:07 AM			Signal Track (Span Zoom)	

Plot 7-45. Conducted Spurious Plot (GPRS Ch. 128)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 26 of 06	
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		-	V3.0 1/4/2022	





Plot 7-46. Conducted Spurious Plot (GPRS Ch. 128)

Spectrum Analyzer 1	-					Frequency	- * 崇
KEYSIGHT       Input: RF         R       T       +→         Align: Auto/No RF       Auto/No RF		Atten: 30 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RN Trig: Free Run	1S <mark>1</mark> 23456 M₩₩₩₩₩₩ ANNNN	Center Frequency 427.000000 MHz	Settings
1 Spectrum			Ŭ		16.85 MHz	Span 794.000000 MHz	
Scale/Div 10 dB	F	Ref Level 20.00 dl	Bm	-4	48.35 dBm	Swept Span Zero Span	
						Full Span	
						Start Freq 30.000000 MHz	
20.0						Stop Freq 824.000000 MHz	
						AUTO TUNE	
40.0				•	1	CF Step 79.400000 MHz	
50.0 	و مرود المراجعة محافظ المراجع المراجع محمد مراجع المراجع	ประเทศสารให้ไประการที่สาราชาง การระบบการการการการการการการการกา	https://www.slatine.html		(1944), Lizza de Marina (1944) Antista da como de la como de	Auto Man	
						Freq Offset 0 Hz	
tart 30.0 MHz Res BW 100 kHz		#Video BW 300 k	Hz		top 824.0 MHz ns (15881 pts)	X Axis Scale Log Lin	Local
	Apr 06, 2022 10:52:28 AM					Signal Track (Span Zoom)	

Plot 7-47. Conducted Spurious Plot (GPRS Ch. 190)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dega 27 of 06		
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Spectrum Analyzer 1 Swept SA	• +						Frequency	/ 『影
	pling: DC Corr C	CCorr RCal µW F Ref: Int (S)	Path: Standard C	PNO: Fast Gate: Off F Gain: Low Sig Track: Off	#Avg Type: Power (RM Trig: Free Run	MS 1 2 3 4 5 6 M WW WW W A N N N N N	Center Frequency 924.500000 MHz Span	Settings
1 Spectrum Scale/Div 10 dB	T	Pof	evel 20.00 dBr	-		56.20 MHz 49.77 dBm	151.000000 MHz	
Loa	Pass					43.17 dBill	Swept Span Zero Span	
0.00							Full Span	
-10.0							Start Freq 849.000000 MHz	2
							Stop Freq 1.000000000 GHz	
							AUTO TUNE	
-40.0							CF Step 15.100000 MHz	
-50.0	Harishe da sida e ta dibisa di gan d	highist philipping you and supplying	والإيرانية المواز ويهاريه الإستال مندو	opologilisis, names, polisis, hale angel di	an a	n fan de platter en servicie de la company	Auto Man	
							Freq Offset 0 Hz	
Start 0.84900 GHz #Res BW 100 kHz		#Vid	eo BW 300 kH	Z		p 1.00000 GHz ms (3021 pts)	X Axis Scale Log Lin	Local
<b>1</b> 1	10:5	06, 2022 52:42 AM			Blot (GBB		Signal Track (Span Zoom)	

Plot 7-48. Conducted Spurious Plot (GPRS Ch. 190)



Plot 7-49. Conducted Spurious Plot (GPRS Ch. 190)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 28 of 06		
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Spectrum Analyzer 1	+					Frequency	· • 🔀
KEYSIGHT R T ↔ Coupling: DC Align: Auto/No RF	Corr CCorr RCal µV	V Path: Standard Ga	IO: Fast ite: Off Gain: Low ) Track: Off	#Avg Type: Power (RMS Trig: Free Run	123456 MWWWWW ANNNNN	Center Frequency 427.000000 MHz	Settings
1 Spectrum 🔹					1.90 MHz	Span 794.000000 MHz	
Scale/Div 10 dB	Ref	Level 20.00 dBm		-50	0.62 dBm	Swept Span Zero Span	
10.0						Full Span	
0.00						Start Freq 30.000000 MHz	
						Stop Freq 824.000000 MHz	
						AUTO TUNE	
40.0			1			CF Step 79.400000 MHz	
50.0 (hartzaldinakon) atekial sigilarialda 60.0	a lang yang mengerakan landar pengerakan kenang bertakan dari bertakan bertakan bertakan bertakan bertakan bert Bertakan di pengerakan bertakan	nana ana ana baar	ten para para barangala ten amarangan antara bara	nada ana ana ang kana ang kabunakan manang kananan data ang kana kang matatak	addu aan famil huraan dool uu shahada dagaan ahaa	Auto Man	
						Freq Offset 0 Hz	
start 30.0 MHz Res BW 100 kHz	#V	ideo BW 300 kHz		Sto Sweep 38.1 ms	p 824.0 MHz s (15881 pts)	X Axis Scale Log Lin	Loca
- C - ?	Apr 06, 2022 10:54:02 AM	$\triangle$				Signal Track (Span Zoom)	

Plot 7-50. Conducted Spurious Plot (GPRS Ch. 251)

Spectrum Analyzer 1	-				Frequency 🔻 👯
KEYSIGHT       Input: RF         R       T       ←         Align: Auto/No RF       Align: Auto/No RF	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 30 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off		WWW 925.000000 MHz Settings
1 Spectrum v Scale/Div 10 dB	ſ	Ref Level 20.00 dl	3m	Mkr1 850.05 -32.46	130.00000 Mil 12
Trace 1 Pass					Erro Span Full Span
					Start Freq 850.000000 MHz
.20.0					Stop Freq 1.00000000 GHz
40.0					AUTO TUNE CF Step
50.0	ومافله ومعروه ويعارفه والمعافر أوالم	yterteinigenetik onergenetikeget afkeite	ملاته المعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمع	riddanaisianidanidan dilanganingashiridagani biyaaa	AMUV
					Freq Offset 0 Hz
Start 0.85000 GHz #Res BW 100 kHz		#Video BW 300 k	Hz	Stop 1.0000 Sweep 7.20 ms (300	
まって」?	Apr 06, 2022 10:54:21 AM				Signal Track (Span Zoom)

Plot 7-51. Conducted Spurious Plot (GPRS Ch. 251)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT		
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Plot 7-52. Conducted Spurious Plot (GPRS Ch. 251)

FCC ID: A3LSMF936B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 40 of 96
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			V/3 0 1///2022

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## WCDMA Cell

	+					Frequency	· • 😤
R     T     T     Coupling: DC       Align:     Auto/No RI	Input Z: 50 Ω Corr CCorr RCal F Freq Ref: Int (S) NFE: Off	Atten: 30 dB µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RM Trig: Free Run	MS <mark>1</mark> 23456 A <del>WWWWW</del> ANNNNN	Center Frequency 426.500000 MHz	Settings
1 Spectrum v Scale/Div 10 dB		Ref Level 20.00 dl	3m		22.85 MHz 3.077 dBm	Span 793.000000 MHz Swept Span Zero Span	
10.0 0.00						Full Span	
-10.0						30.000000 MHz Stop Freq 823.000000 MHz	
-30.0					1	AUTO TUNE	
-40.0						CF Step 79.300000 MHz Auto Man	
-60.0						Freq Offset 0 Hz	
Start 30.0 MHz #Res BW 100 kHz		#Video BW 300 k	Hz		top 823.0 MHz ms (15861 pts)	X Axis Scale Log Lin	
	Apr 06, 2022 12:46:11 PM		<u> </u>			Signal Track (Span Zoom)	1

Plot 7-53. Conducted Spurious Plot (WCDMA Ch. 4132)

Spectrum Analyzer 1	+					Frequency	· • 🔀
KEYSIGHT R T ↔ Coupling: DC Align: Auto/No	Input Ζ: 50 Ω Corr CCorr RCal RF Freq Ref: Int (S) NFE: Off	µW Path: Standard G	NO: Fast ate: Off Gain: Low ig Track: Off	#Avg Type: Power (RI Trig: Free Run	MS <mark>123456</mark> A <del>WWWWW</del> ANNNN	Center Frequency 924.500000 MHz	Settings
1 Spectrum v Scale/Div 10 dB		Ref Level 20.00 dBm	-		80.55 MHz 0.875 dBm	Span 151.000000 MHz Swept Span	
Trace 1 Pass						Zero Span Full Span	
0.00						Start Freq 849.000000 MHz	
						Stop Freq 1.000000000 GHz	
						AUTO TUNE	
	▲1					15.100000 MHz Auto Man	
50.0		4-************************************			au inensis dagang daga nibaganaka panya	Freq Offset 0 Hz	
tart 0.84900 GHz Res BW 100 kHz		#Video BW 300 kHz			op 1.00000 GHz 5 ms (3021 pts)	X Axis Scale Log Lin	Loca
<b>1</b> 7 7 <b>1</b>	<b>?</b> Apr 06, 2022 12:46:31 PM				i 🗆 🖍	Signal Track (Span Zoom)	

Plot 7-54. Conducted Spurious Plot (WCDMA Ch. 4132)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT	
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Plot 7-55. Conducted Spurious Plot (WCDMA Ch. 4132)

Spectrum Analyzer 1						Frequency	· · · 😤
R       T       T       Coupling: DC         Align: Auto/No RF       Auto/No RF		uW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS Trig: Free Run	123456 Awwwww ANNNNN	427.000000 WINZ	Settings
1 Spectrum v				Mkr1 82	3.25 MHz	Span 794.000000 MHz	
Scale/Div 10 dB Log Trace 1 Pass	R	ef Level 20.00 dE	3m	-54	.213 dBm	Swept Span Zero Span	
10.0						Full Span	
						Start Freq 30.000000 MHz	
-10.0						Stop Freq 824.000000 MHz	
						AUTO TUNE	
						CF Step 79.400000 MHz	
-50.0					<u> </u>	Auto Man	
-70.0						Freq Offset 0 Hz	
Start 30.0 MHz #Res BW 100 kHz	#	Video BW 300 kł	łz	Sweep 38.1 m	op 824.0 MHz s (15881 pts)		Local
	Apr 06, 2022 12:44:19 PM					Signal Track (Span Zoom)	

Plot 7-56. Conducted Spurious Plot (WCDMA Ch. 4183)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dega 42 of 06
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Spectrum Analyzer Swept SA	r 1 🛛 🕇	+					Frequency	/ 「影
	out: RF oupling: DC ign: Auto/No Rf	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 30 dB µW Path: Standard	PNO: Fast   Gate: Off  F Gain: Low Sig Track: Off	#Avg Type: Power (RMS Trig: Free Run	123456 A <del>WWWWW</del> ANNNNN	Center Frequency 924.500000 MHz	Settings
1 Spectrum Scale/Div 10 dB	T		Ref Level 20.00 d	Bm		9.80 MHz 666 dBm	Span 151.000000 MHz Swept Span Zero Span	
10.00 Trace 1	Pass						Full Span	
-10.0							Start Freq 849.000000 MHz Stop Freq	
-20.0							1.00000000 GHz	
-40.0							CF Step 15.100000 MHz	
-60.0	ainan dalam metangkan dalah dalah sebagai kan dalah sebagai kan dalah sebagai kan dalah sebagai kan dalah sebag	tilgation talas de la constancia segui	mount of the second	يون در دارو رو بروی رو بروی رو بروی رو		1649 449 479 479 479 479 479 479 479 479 4	Man Freq Offset 0 Hz	
Start 0.84900 GH; #Res BW 100 kHz			#Video BW 300 F	Hz	Stop Sweep 7.25 n	1.00000 GHz 1s (3021 pts)	X Axis Scale	
ר <del> </del>				Coursians			Signal Track (Span Zoom)	

Plot 7-57. Conducted Spurious Plot (WCDMA Ch. 4183)



Plot 7-58. Conducted Spurious Plot (WCDMA Ch. 4183)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 42 of 06
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Spectrum Analyzer 1		Frequency 🕇 🔆
	Corr RCal µW Path: Standard Gate: Off ef: Int (S) IF Gain: L	Trig: Free Run AWWWW 427.00000 MHz
1 Spectrum v		Mkr1 815.55 MHz 50.000 dHz
Scale/Div 10 dB Log Trace 1 Pass	Ref Level 20.00 dBm	-60.906 dBm Swept Span Zero Span
		Full Span
0.00		Start Freq 30.000000 MHz
		Stop Freq 824.00000 MHz
		AUTO TUNE
		CF Step 79.400000 MHz
.70.0		Freq Offset 0 Hz
Start 30.0 MHz Res BW 100 kHz	#Video BW 300 kHz	Stop 824.0 MHz Sweep 38.1 ms (15881 pts)
4pr 0 12:42	6, 2022 1:15 PM	III III III IIII IIII IIII IIIIIIIIIII

Plot 7-59. Conducted Spurious Plot (WCDMA Ch. 4233)

Spectrum Analyzer 1	•					Frequency	· <del>*</del>
KEYSIGHT       Input: RF         R       T         →       Coupling: DC         Align: Auto/No RF         ▶         ▶		uW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RM Trig: Free Run	IS <mark>123456</mark> A <del>WWWWW</del> ANNNNN	Center Frequency 925.000000 MHz	Settings
1 Spectrum v Scale/Div 10 dB	R	ef Level 20.00 dE	. •		50.20 MHz 2.897 dBm	Span 150.000000 MHz Swept Span	
Trace 1 Pass						Zero Span Full Span	
-10.0						Start Freq 850.000000 MHz	
-20.0						Stop Freq 1.000000000 GHz	
-40.0						AUTO TUNE CF Step 15.000000 MHz	
-50.0	and the second set of the seco					Auto Man	
-70.0						Freq Offset 0 Hz	
Start 0.85000 GHz #Res BW 100 kHz		Video BW 300 kł	łz	Sweep 7.20	o 1.00000 GHz ms (3001 pts)		
1 C 1 ?	Apr 06, 2022 12:42:38 PM					Signal Track (Span Zoom)	

Plot 7-60. Conducted Spurious Plot (WCDMA Ch. 4233)

FCC ID: A3LSMF936B		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 44 of 96	
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			V3 0 1/4/2022	



KEYSIGHT Input RF R T +       Input Z: 50 Ω Corr CCorr KCall Align: Auto/No RF       #Atten: 30 dB FW Path: Standard Gate: Off JF Gan: Low Sig Track: Off       #Avg Type: Power (RMS 12 3 4 5 6 Awwwwww Sig Track: Off       Center Frequency S: 50000000 GHz       Settin Span         1 Spectrum       Imput Z: 50 Ω Align: Auto/No RF       #Atten: 30 dB Freq Ref: Int (S) NFE: Off       PNO. Fast pw Path: Standard Gate: Off       #Avg Type: Power (RMS 12 3 4 5 6 Awwwww Sig Track: Off       Center Frequency S: 500000000 GHz       Span         1 Spectrum       Imput Z: 50 Ω NFE: Off       #Atten: 30 dB Freq Freq Level 0.00 dBm       Mkr1 6.911 5 GHz -40.407 dBm       Span         100       Imput Z: 50 Ω Source       Imput Z: 50 Ω Sig Track: Off       Imput Z: 50 Ω Freq       Span         200       Imput Z: 50 Ω Start Freq       Imput Z: 50 Ω Start Freq       Imput Z: 50 Ω Start Freq       Start Freq         10.000000000 GHz       Imput Z: 50 Ω       Imput Z: 50 Ω       Imput Z: 50 Ω       Imput Z: 50 Ω         200       Imput Z: 50 Ω         1000       Imput Z: 50 Ω         200       Imput Z: 50 Ω	25
Spectrum       Mkr1       6.911 5 GHz 9.0000000 GHz         Scale/Div 10 dB       Ref Level 0.00 dBm       -40.407 dBm         100       Trace 1 Pass       Swept Span         100       Image: Specific state	igs
Trace 1 Pass         Full Span           200         Start Freq           300         1           400         1	
-30 0 -40 0 -00	
40.0	
-60.0 CF Step 900.000000 MHz -70.0 Auto	
-80.0 Man	
-90.0 Start 1.000 GHz #Video BW 3.0 MHz Stop 10.000 GHz XAxis Scale	
Start 1.000 GH2     #Video BW 3.0 MH2     Stop 10.000 GH2     Log       #Res BW 1.0 MHz     Sweep ~16.5 ms (18001 pts)     Lin       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log       Image: Comparison of the start 1.000 GH2     Image: Comparison of the start 1.000 GH2     Log	

Plot 7-61. Conducted Spurious Plot (WCDMA Ch. 4233)

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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 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.

#### **Test Procedure Used**

ANSI C63.26-2015 - Section 5.7.3

#### Test Settings

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

#### Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

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#### Test Notes

- 1. Per 22.917(b) and RSS-132(5.5), 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.
- 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 26/5



Plot 7-62. Lower Band Edge Plot (LTE Band 26 - 15MHz QPSK - Full RB)



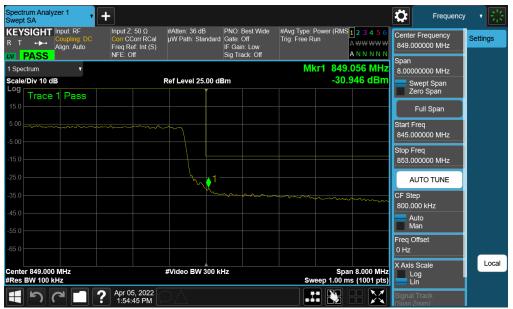
Plot 7-63. Upper Band Edge Plot (LTE Band 26 - 15MHz QPSK – Full RB)

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Plot 7-64. Lower Band Edge Plot (LTE Band 26/5 - 10MHz QPSK – Full RB)



Plot 7-65. Upper Band Edge Plot (LTE Band 26/5 - 10MHz QPSK – Full RB)

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Plot 7-66. Lower Band Edge Plot (LTE Band 26/5 - 5MHz QPSK - Full RB)



Plot 7-67. Upper Band Edge Plot (LTE Band 26/5 - 5MHz QPSK – Full RB)

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Spectrum Analyzer 1 Swept SA	t				Frequency	( ) 崇
KEYSIGHT       Input: RF         R       T         PASS	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	µW Path: Standard Gate	: Balanced #Avg Type: Po : Off Trig: Free Run ain: Low Track: Off	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A N N N N N	Center Frequency 824.000000 MHz	Settings
1 Spectrum v Scale/Div 10 dB	1	Ref Level 25.00 dBm	Mkr	1 823.988 MHz -19.210 dBm	Span 4.00000000 MHz Swept Span	
Trace 1 Pass					Zero Span Full Span	
					Start Freq 822.000000 MHz	
-15.0		1 —			Stop Freq 826.000000 MHz	
-35.0		n nort			AUTO TUNE	
-45.0					400.000 kHz Auto Man	
					Freq Offset 0 Hz	
Center 824.000 MHz #Res BW 100 kHz		#Video BW 300 kHz		Span 4.000 MHz ep 1.00 ms (1001 pts)	X Axis Scale Log Lin	
	Apr 05, 2022 2:03:18 PM		(I TE Band 26/5		Signal Track (Span Zoom)	

Plot 7-68. Lower Band Edge Plot (LTE Band 26/5 - 3MHz QPSK - Full RB)



Plot 7-69. Upper Band Edge Plot (LTE Band 26/5 - 3MHz QPSK – Full RB)

FCC ID: A3LSMF936B		Approved by: Technical Manager		
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Plot 7-70. Lower Band Edge Plot (LTE Band 26/5 – 1.4MHz QPSK – Full RB)

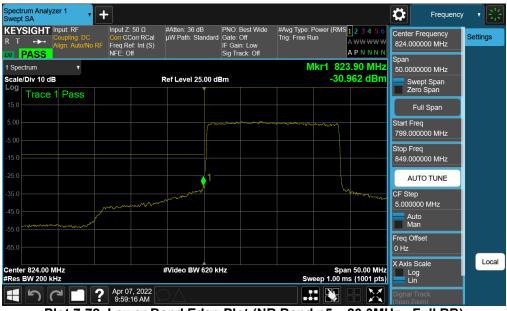


Plot 7-71. Upper Band Edge Plot (LTE Band 26/5 – 1.4MHz QPSK – Full RB)

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## NR Band n5



Plot 7-72. Lower Band Edge Plot (NR Band n5 – 20.0MHz - Full RB)



Plot 7-73. Upper Band Edge Plot (NR Band n5 – 20.0MHz - Full RB)

FCC ID: A3LSMF936B		PART 22 MEASUREMENT REPORT		
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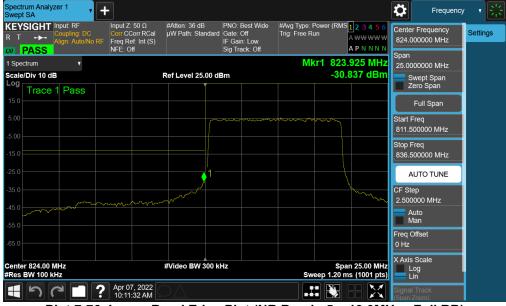
Plot 7-74. Lower Band Edge Plot (NR Band n5 – 15.0MHz - Full RB)



Plot 7-75. Upper Band Edge Plot (NR Band n5 – 15.0MHz - Full RB)

FCC ID: A3LSMF936B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager	
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Plot 7-76. Lower Band Edge Plot (NR Band n5 – 10.0MHz - Full RB)

R T + Coupling: DC Coupling:	put Z: 50 Ω #Atten: 36 dE orr CCorr RCal req Ref: Int (S) FE: Off	i PNO: Best Wide ndard Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RM Trig: Free Run	4S <mark>123456</mark> A <del>WWWWW</del> APNNN	Frequency Center Frequency 849.000000 MHz	Settings
Spectrum   Gcale/Div 10 dB	Ref Level 25	00 dBm		9.025 MHz 8.088 dBm	Span 25.0000000 MHz Swept Span Zero Span	
Trace 1 Pass					Full Span	
					836.500000 MHz Stop Freq	
5.0		1			861.500000 MHz	
5.0		manner			CF Step 2.500000 MHz	
55.0					Man Freq Offset 0 Hz	
enter 849.00 MHz Res BW 100 kHz	#Video BW	300 kHz		pan 25.00 MHz ms (1001 pts)	X Axis Scale	
	Apr 14, 2022 1:02:20 PM				Signal Track (Span Zoom)	

Plot 7-77. Upper Band Edge Plot (NR Band n5 – 10.0MHz - Full RB)

FCC ID: A3LSMF936B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager	
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