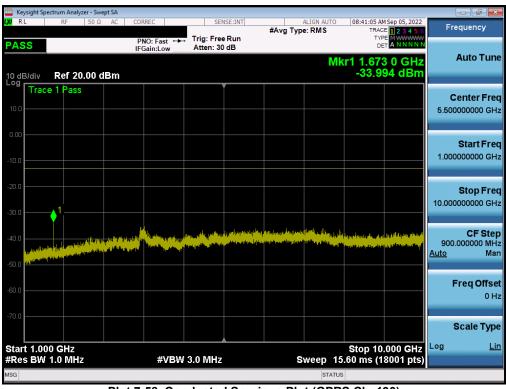


🔤 Ke	ysight Spec	ctrum Analyzer -	Swept SA										7 X
l <b>XI</b> R	L	RF 51	0Ω AC	COR	REC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		M Sep 05, 2022	Frequen	су
PAS	S			PN IFG	O: Fast ↔ ain:Low	Trig: Free Atten: 30		#rig iyp		TYF			_
10 di	3/div	Ref 20.00	0 dBm	1					Μ	kr1 909. -52.1	05 MHz 41 dBm	Auto	Tune
<b>Log</b> 10.0	Trace	1 Pass										Center 924.50000	
0.00 -10.0												<b>Start</b> 849.00000	t <b>Freq</b> 10 MHz
-20.0 -30.0												<b>Stop</b> 1.00000000	<b>Freq</b> 00 GHz
-40.0						,1						CF 15.10000 <u>Auto</u>	<b>Step</b> 0 MHz Man
-60.0	and the second	anan <mark>ang kapanga</mark>		iline (April 1996)	beihit staabbessiet	<b>pe</b> hangerhanderh	nin di pana ang ang ang ang ang ang ang ang ang	nantiyi Harin keningi		y an La an air an Annais an Ann	ana dalan dalaman	Freq (	Offset 0 Hz
-70.0												Scale	
		900 GHz				200 611-				Stop 1.00	JOOD GILZ	Log	Lin
	S BW '	100 kHz			#VBW	300 kHz					3021 pts)		
MSG									STATU	S			

Plot 7-57. Conducted Spurious Plot (GPRS Ch. 190)



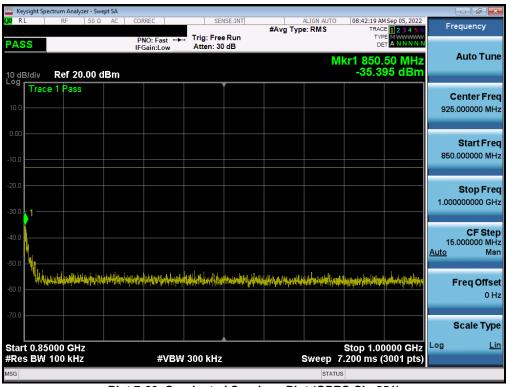
Plot 7-58. Conducted Spurious Plot (GPRS Ch. 190)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager				
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	ectrum Analyze												
LX/RL	RF	50 Ω	AC C	ORREC		SE	NSE:INT	#Avg Typ	ALIGN AUTO		M Sep 05, 2022	Fi	requency
PASS				PNO: Fa IFGain:L		Trig: Fre Atten: 3				TY D			
10 dB/div	Ref 20.	00 dB	m						М	kr1 665 -51.9	.75 MHz 53 dBm		Auto Tune
Log Trac	e 1 Pass						Ĭ					(	Center Freq
10.0												427	7.000000 MHz
0.00													
-10.0												30	Start Freq 0.000000 MHz
10.0													
-20.0													Stop Freq
-30.0												824	1.000000 WHZ
-40.0													CF Step
										1		Auto /s	9.400000 MHz Man
-50.0	يرابعان ويعاورا والد	utaa luma	ling was been	ر ور الارال	na . La Jania	4	i, dallamento	heads that keeps	ne de Millouilde	a yaxabilini she			
-60.0 <mark>1966 (196</mark> 7						a de la seconda de sec	a an	allen mekskillstellen staal	a Balincolde, son cher es,	a galetter ( an abraid ag	a di kali kali kali kali kali kali kali kal		Freq Offset 0 Hz
-70.0													
													Scale Type
Start 30.0 #Res BW				#	VBW	300 kHz			weep 3	Stop 8 3.11 ms (1	24.0 MHz 5881 pts)	Log	Lin
MSG									STATU				

Plot 7-59. Conducted Spurious Plot (GPRS Ch. 251)



Plot 7-60. Conducted Spurious Plot (GPRS Ch. 251)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT					
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	ctrum Analyz		: SA									
RL	RF	50 Ω	AC C	ORREC		SEN	ISE:INT	#Avg Typ	ALIGN AUTO		M Sep 05, 2022 CE 1 2 3 4 5 6	Frequency
ASS				PNO: Fas FGain:Lo		Trig: Free Atten: 30				T		
0 dB/div	Ref 20	.00 dE	3m						М	kr1 1.69 -33.7	7 5 GHz 51 dBm	Auto Tun
.og Trace	e 1 Pass											Center Fre 5.500000000 G⊦
10.0												Start Fre 1.000000000 G⊦
20.0	1											<b>Stop Fre</b> 10.000000000 GH
10.0	nal prin (hyperdica)	nin adama 			and the same of the system of the same of	an an an air an	n an	n den station of the Alpen Life of the Alpender Station		n <mark>de la service de la serv La service de la service de</mark>	the gas <sup>te</sup> to grant by bol type s <sup>all</sup> the provident	CF Ste 900.000000 MH <u>Auto</u> Ma
0.0												Freq Offs 0 F
70.0	0.047									Stop 1	).000 GHz	Scale Typ
Res BW				#	VBW	3.0 MHz		s	weep 1		18001 pts)	_
G									STATI	JS		

Plot 7-61. Conducted Spurious Plot (GPRS Ch. 251)

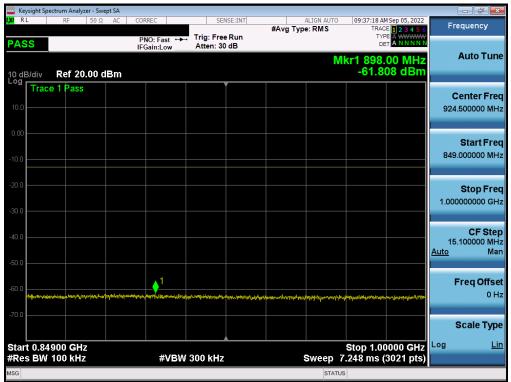
FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager				
Test Report S/N:	Test Dates:	Dates: EUT Type:					
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# WCDMA Cell

	ectrum Analyz												
L <mark>XI</mark> RL	RF	50 Ω	AC	CORREC		SE	NSE:INT	#Avg Typ	ALIGN AUTO		M Sep 05, 2022	F	requency
PASS				PNO: Fa	ast ↔→ .ow	Trig: Fre Atten: 30		#/(18/)P		TY			
10 dB/div	Ref 20	.00 dE	3m						MI	kr1 822. -33.0	.80 MHz 29 dBm		Auto Tune
10.0	e 1 Pass												Center Freq 6.500000 MHz
-10.0												3	Start Freq 0.000000 MHz
-20.0											<u>1</u>	82	Stop Fred 3.000000 MH
-40.0												7 <u>Auto</u>	<b>CF Step</b> 9.300000 MH: Mar
-60.0	alles and the second								a na pangang pangang katang katang Pangang pangang pangang katang pangang katang				Freq Offset 0 Hz
-70.0													Scale Type
Start 30.0 #Res BW		:		#	≠vBW∶	300 kHz		s	weep 38	Stop 8 .06 ms (1	23.0 MHz 5861 pts)	Log	Lin
MSG									STATUS				

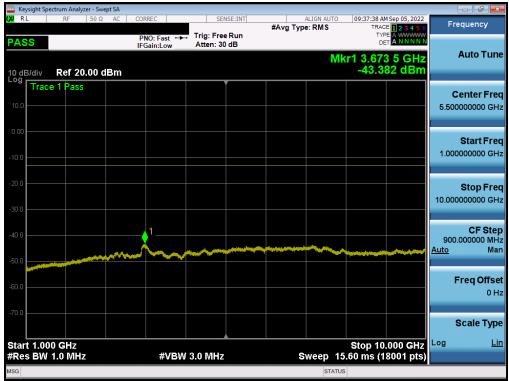
Plot 7-62. Conducted Spurious Plot (WCDMA Ch. 4132)



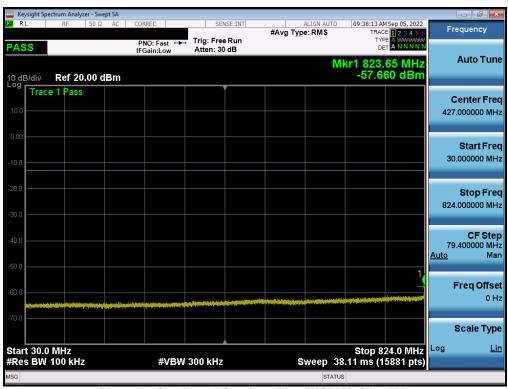
Plot 7-63. Conducted Spurious Plot (WCDMA Ch. 4132)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT					
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Plot 7-64. Conducted Spurious Plot (WCDMA Ch. 4132)



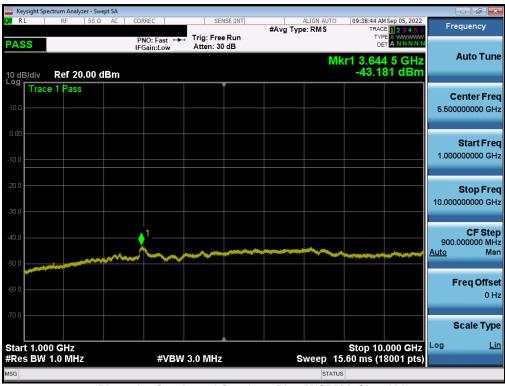
Plot 7-65. Conducted Spurious Plot (WCDMA Ch. 4183)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager				
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		Analyzer - Swe									-	
L <mark>XI</mark> RL	RF	50 Ω	AC (	CORREC		NSE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	4 Sep 05, 2022 E 1 2 3 4 5 6	Free	quency
PASS				PNO: Fast ↔ IFGain:Low	Trig: Fre Atten: 30				TYF			
								N	lkr1 849.	05 MHz 97 dBm	A	Auto Tune
10 dB/div Log		f 20.00 d	Bm			•			-57.3	97 abm		
Ira	ce 1 P	ass									Ce	enter Freq
10.0											924.5	00000 MHz
0.00												
0.00											;	Start Freq
-10.0											849.0	00000 MHz
-20.0												Stop Freq
-30.0											1.0000	000000 GHz
												CF Step
-40.0												00000 MHz
-50.0											<u>Auto</u>	Man
1												
-60.0	laanseld maan bi	المراجع المراجع الم	yangiradertar	una a la da canada di Malaka a Jua	ليادر المدينية والمناط	م ي ي القام ال	and the second second second		a subset to shok a		FI	r <b>eq Offset</b> 0 Hz
70.0		and an other states of the	la se	Internation to part of the	a sa	Magellin and my of		a an	and a subsection of the section of t			
-70.0											S	cale Type
												Lin
Start 0.8 #Res BV				#VB	V 300 kHz			Sweep	Stop 1.00 7.248 ms (	)000 GHz 3021 pts)	_	
MSG								STATU				

Plot 7-66. Conducted Spurious Plot (WCDMA Ch. 4183)



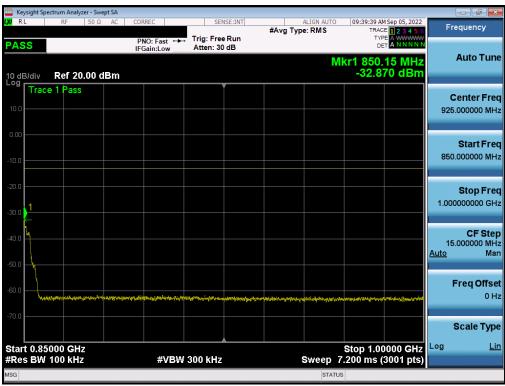
Plot 7-67. Conducted Spurious Plot (WCDMA Ch. 4183)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT					
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	ectrum Analyz												
LXI RL	RF	50 Ω	AC	CORREC			SE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Sep 05, 2022	Fr	requency
PASS				PNO: Fa	ast ↔ ow	Trig: Free Atten: 30				TYI Di			
10 dB/div Log	Ref 20	.00 dE	3m						MI	kr1 823. -60.9	.45 MHz 67 dBm		Auto Tune
10.0	e 1 Pass												Center Freq 7.000000 MHz
-10.0												30	Start Freq 0.000000 MHz
-20.0												824	Stop Freq 4.000000 MHz
-40.0												79 <u>Auto</u>	CF Step 9.400000 MHz Man
-60.0							and the property of the	et de la companya de		a fara yang sebagai se			Freq Offset 0 Hz
-70.0													Scale Type
Start 30.0 #Res BW				#	VBW	300 kHz		s	weep 38	Stop 8 .11 ms (1	24.0 MHz 5881 pts)	Log	<u>Lin</u>
MSG									STATUS				

Plot 7-68. Conducted Spurious Plot (WCDMA Ch. 4233)



Plot 7-69. Conducted Spurious Plot (WCDMA Ch. 4233)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept S					
LXV RL RF 50Ω /	AC CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:39:58 AM Sep 05, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast ↔→ IFGain:Low	Trig: Free Run Atten: 30 dB	- //	TYPE A WWWWW DET A NNNNN	Auto Turo
10 dB/div Ref 20.00 dB	m		Mk	r1 3.650 0 GHz -43.303 dBm	Auto Tune
Log Trace 1 Pass		ľ			Center Freq
10.0					5.500000000 GHz
0.00					Start Freq
-10.0					1.000000000 GHz
-20.0					
					Stop Fred 10.000000000 GHz
-30.0					
-40.0					CF Step 900.000000 MHz Auto Mar
-50.0					
-60.0					Freq Offset
-70.0					
					Scale Type
Start 1.000 GHz #Res BW 1.0 MHz	#VBW :	3.0 MHz	Sween 15	Stop 10.000 GHz .60 ms (18001 pts)	Log <u>Lin</u>
MSG			STATUS		

Plot 7-70. Conducted Spurious Plot (WCDMA Ch. 4233)

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# 7.5 Band Edge Emissions at Antenna Terminal

## **Test Overview**

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

# The minimum permissible attenuation level 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 > 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 7-4. Test Instrument & Measurement Setup

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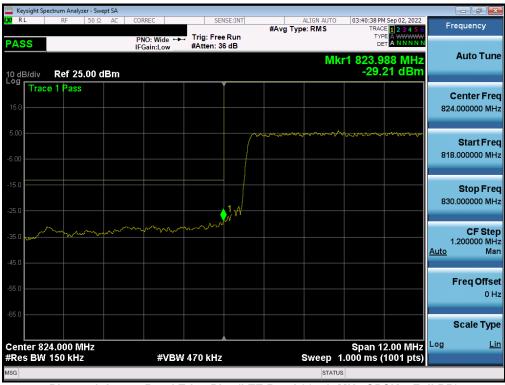
# Test Notes

- 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 7-71. Lower Band Edge Plot (LTE Band 26 - 15MHz QPSK - Full RB)



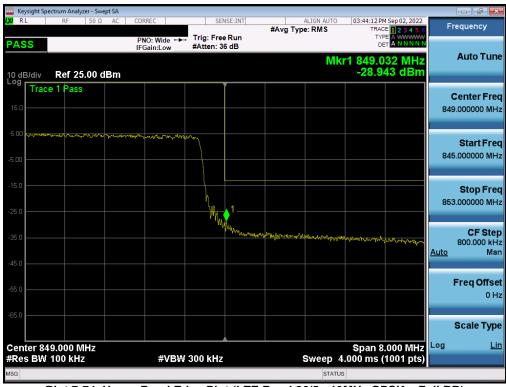
Plot 7-72. Upper Band Edge Plot (LTE Band 26 - 15MHz QPSK – Full RB)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-73. Lower Band Edge Plot (LTE Band 26/5 - 10MHz QPSK - Full RB)



Plot 7-74. Upper Band Edge Plot (LTE Band 26/5 - 10MHz QPSK – Full RB)

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Plot 7-75. Lower Band Edge Plot (LTE Band 26/5 - 5MHz QPSK - Full RB)



Plot 7-76. Upper Band Edge Plot (LTE Band 26/5 - 5MHz QPSK - Full RB)

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🔤 Keysight Spectrum Analyz	er - Swept SA									
🗶 RL RF	50 Ω AC	CORREC	SENSE		/ Avg Type	RMS		4 Sep 02, 2022	F	requency
PASS		PNO: Wide ↔ IFGain:Low	Trig: Free R #Atten: 36 d	un	, (18 1) po		TYP			
10 dB/div Ref 25	.00 dBm					Mkr	1 823.9 -16.4	88 MHz 84 dBm		Auto Tune
15.0					~~~_	mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	monumen		<b>Center Freq</b> 4.000000 MHz
-5.00									82	Start Freq 2.000000 MHz
-15.0		ملك طعه بحرك	Mannahal						82	Stop Freq 6.000000 MHz
-35.0	wwwwwww	na Jon Million Man Maria							<u>Auto</u>	CF Step 400.000 kHz Man
-55.0										Freq Offsel 0 Hz
-65.0										Scale Type
Center 824.000 M #Res BW 100 kHz		#VBW	300 kHz			Sweep 2	Span 4 .000 ms (	.000 MHz 1001 pts)	Log	Lin
MSG						STATUS				

Plot 7-77. Lower Band Edge Plot (LTE Band 26/5 - 3MHz QPSK - Full RB)



Plot 7-78. Upper Band Edge Plot (LTE Band 26/5 - 3MHz QPSK – Full RB)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-79. Lower Band Edge Plot (LTE Band 26/5 – 1.4MHz QPSK – Full RB)



Plot 7-80. Upper Band Edge Plot (LTE Band 26/5 – 1.4MHz QPSK – Full RB)

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# NR Band n5

EYSIGHT Input: RF T +++ Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	#Atten: 36 dB µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off		23456 WWWWW PNNNN	Center Frequency 824.000000 MHz Span	Settings
Spectrum v cale/Div 10 dB		Ref Level 25.00 di	Зm	Mkr1 823. -29.0	95 MHz 22 dBm	50.0000000 MHz	
5.0 Trace 1 Pass						Zero Span Full Span	
				www.www.www.		Start Freq 799.000000 MHz	
5.0						Stop Freq 849.000000 MHz	
5.0					Manner	AUTO TUNE CF Step	
5.0						5.000000 MHz Auto Man	
5.0						Freq Offset 0 Hz	
nter 824.00 MHz es BW 200 kHz		#Video BW 620 k	Hz	Span Sweep 1.00 ms	50.00 MHz (1001 pts)	X Axis Scale Log Lin	Loc

Plot 7-81. Lower Band Edge Plot (NR Band n5 – 20.0MHz - Full RB)



Plot 7-82. Upper Band Edge Plot (NR Band n5 - 20.0MHz - Full RB)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT						
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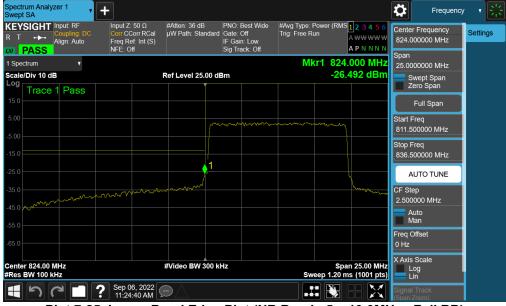
Plot 7-83. Lower Band Edge Plot (NR Band n5 – 15.0MHz - Full RB)



Plot 7-84. Upper Band Edge Plot (NR Band n5 – 15.0MHz - Full RB)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT					
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Plot 7-85. Lower Band Edge Plot (NR Band n5 – 10.0MHz - Full RB)



Plot 7-86. Upper Band Edge Plot (NR Band n5 – 10.0MHz - Full RB)

FCC ID: A3LSMS916U		Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:			
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Plot 7-87. Lower Band Edge Plot (NR Band n5 – 5.0MHz - Full RB)

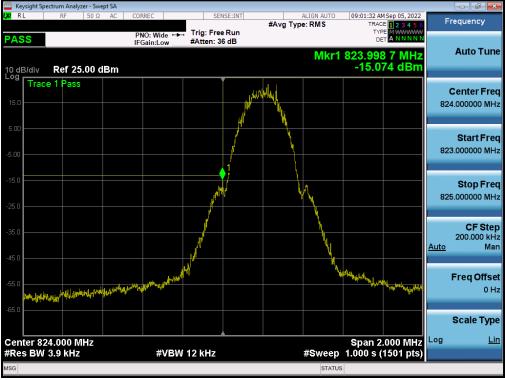


Plot 7-88. Upper Band Edge Plot (NR Band n5 – 5.0MHz - Full RB)

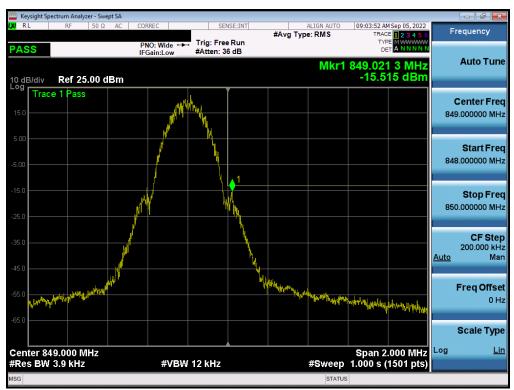
FCC ID: A3LSMS916U		Approved by: Technical Manager		
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# **GSM/GPRS** Cell



Plot 7-89. Lower Band Edge Plot (GPRS Cell – Ch. 128)





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# WCDMA Cell



Plot 7-91. Lower Band Edge Plot (WCDMA Cell – Ch. 4132)



## Plot 7-92. Upper Band Edge Plot (WCDMA Cell – Ch. 4233)

FCC ID: A3LSMS916U		PART 22 MEASUREMENT REPORT							
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# 7.6 Radiated Power (ERP)

## **Test Overview**

Effective Radiated Power (ERP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

## Test Procedures Used

ANSI C63.26-2015 - Section 5.2.4.4

## **Test Settings**

- 1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used.
- 2. RBW = 1 5% of the expected OBW, not to exceed 1MHz
- 3. VBW  $\geq$  3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points  $\geq$  2 x span / RBW
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize.

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

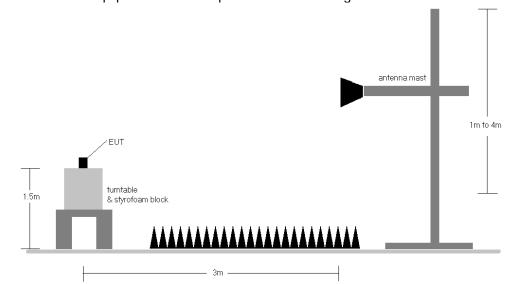


Figure 7-5. Radiated Test Setup < 1GHz

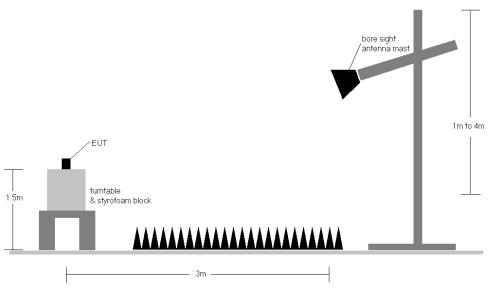


Figure 7-6. Radiated Test Setup > 1GHz

## Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".

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- 3) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 4) This unit was tested with its standard battery.
- 5) 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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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [W atts]	EIRP Limit [dBm]	Margin [dB]
15MHz	QPSK	831.5	V	156	251	1.29	1/0	22.05	21.19	0.131	38.45	-17.26	23.34	0.216	40.61	-17.27
(Band 26	QPSK	836.5	V	137	274	1.31	1/37	21.57	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.73
	QPSK	841.5	V	143	255	1.33	1/0	21.63	20.81	0.121	38.45	-17.64	22.96	0.198	40.61	-17.64
only)	16-QAM	831.5	V	156	251	1.29	1/0	21.08	20.22	0.105	38.45	-18.23	22.37	0.172	40.61	-18.24
	QPSK	829.0	V	156	251	1.27	1 / 25	22.18	21.31	0.135	38.45	-17.14	23.46	0.222	40.61	-17.15
10 MHz	QPSK	836.5	V	137	274	1.31	1/0	21.74	20.90	0.123	38.45	-17.55	23.05	0.202	40.61	-17.56
	QPSK	844.0	V	143	255	1.35	1 / 49	21.81	21.01	0.126	38.45	-17.45	23.16	0.207	40.61	-17.45
	16-QAM	829.0	V	156	251	1.27	1/25	21.07	20.19	0.104	38.45	-18.26	22.34	0.171	40.61	-18.27
	QPSK	826.5	V	156	251	1.26	1 / 12	22.18	21.29	0.135	38.45	-17.16	23.44	0.221	40.61	-17.16
5 MHz	QPSK	836.5	V	137	274	1.31	1/24	21.83	20.99	0.126	38.45	-17.46	23.14	0.206	40.61	-17.47
5 11112	QPSK	846.5	V	143	255	1.36	1/0	21.79	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.45
	16-QAM	826.5	V	156	251	1.26	1/12	21.22	20.33	0.108	38.45	-18.12	22.48	0.177	40.61	-18.13
	QPSK	825.5	V	156	251	1.26	1 / 14	22.19	21.29	0.135	38.45	-17.16	23.44	0.221	40.61	-17.16
3 MHz	QPSK	836.5	V	137	274	1.31	1/0	21.75	20.91	0.123	38.45	-17.55	23.06	0.202	40.61	-17.55
5 11112	QPSK	847.5	V	143	255	1.36	1/0	21.71	20.93	0.124	38.45	-17.52	23.08	0.203	40.61	-17.53
	16-QAM	825.5	V	156	251	1.26	1 / 14	21.21	20.31	0.107	38.45	-18.14	22.46	0.176	40.61	-18.14
	QPSK	824.7	V	156	251	1.25	1/3	22.11	21.21	0.132	38.45	-17.24	23.36	0.217	40.61	-17.25
1.4 MHz	QPSK	836.5	V	137	274	1.31	1/3	21.76	20.92	0.124	38.45	-17.53	23.07	0.203	40.61	-17.53
1.4 MILZ	QPSK	848.3	V	143	255	1.37	1/3	21.67	20.89	0.123	38.45	-17.56	23.04	0.201	40.61	-17.57
	16-QAM	824.7	V	156	251	1.25	1/5	21.13	20.23	0.106	38.45	-18.22	22.38	0.173	40.61	-18.22
10MHz	QPSK (Opposite Pol.)	829.0	Н	217	299	1.27	1 / 25	16.63	15.75	0.038	38.45	-22.70	17.90	0.062	40.61	-22.71
TOWINZ	QPSK (WCP)	829.0	V	137	325	1.27	1 / 25	17.38	16.50	0.045	38.45	-21.95	18.65	0.073	40.61	-21.96

Table 7-8. ERP Data (LTE Band 26/5)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [W atts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	834.0	V	140	253	6.15	1 / 79	16.06	20.06	0.101	38.45	-18.39	22.21	0.166	40.61	-18.39
	π/2 BPSK	836.5	V	143	258	6.18	1/79	16.12	20.15	0.103	38.45	-18.30	22.30	0.170	40.61	-18.31
	π/2 BPSK	839.0	V	146	259	6.30	1 / 53	16.02	20.17	0.104	38.45	-18.28	22.32	0.171	40.61	-18.28
20 MHz	QPSK	834.0	V	140	253	6.15	1 / 79	16.20	20.20	0.105	38.45	-18.25	22.35	0.172	40.61	-18.25
	QPSK	836.5	V	143	258	6.18	1 / 79	15.91	19.94	0.099	38.45	-18.51	22.09	0.162	40.61	-18.52
	QPSK	839.0	V	146	259	6.30	1 / 53	15.95	20.10	0.102	38.45	-18.35	22.25	0.168	40.61	-18.35
	16-QAM	839.0	V	146	259	6.30	1 / 53	15.15	19.30	0.085	38.45	-19.15	21.45	0.140	40.61	-19.15
	π/2 BPSK	831.5	V	140	253	1.29	1 / 20	21.10	20.23	0.105	38.45	-18.22	22.38	0.173	40.61	-18.22
	π/2 BPSK	836.5	V	143	258	1.31	1 / 58	21.03	20.19	0.105	38.45	-18.26	22.34	0.171	40.61	-18.27
	π/2 BPSK	841.5	V	146	259	1.33	1 / 58	21.05	20.23	0.105	38.45	-18.22	22.38	0.173	40.61	-18.23
15 MHz	QPSK	831.5	V	140	253	1.29	1 / 20	21.18	20.31	0.108	38.45	-18.14	22.46	0.176	40.61	-18.14
	QPSK	836.5	V	143	258	1.31	1/39	20.68	19.84	0.096	38.45	-18.61	21.99	0.158	40.61	-18.62
	QPSK	841.5	V	146	259	1.33	1 / 20	20.93	20.11	0.103	38.45	-18.34	22.26	0.168	40.61	-18.35
	16-QAM	831.5	V	140	253	1.29	1 / 58	20.11	19.25	0.084	38.45	-19.20	21.40	0.138	40.61	-19.21
	π/2 BPSK	829.0	V	140	253	1.27	1/38	21.03	20.16	0.104	38.45	-18.29	22.31	0.170	40.61	-18.30
	π/2 BPSK	836.5	V	143	258	1.31	1 / 26	20.81	19.97	0.099	38.45	-18.48	22.12	0.163	40.61	-18.49
	π/2 BPSK	844.0	V	146	259	1.35	1 / 26	20.90	20.10	0.102	38.45	-18.35	22.25	0.168	40.61	-18.36
10 MHz	QPSK	829.0	V	140	253	1.27	1/38	20.91	20.03	0.101	38.45	-18.42	22.18	0.165	40.61	-18.43
	QPSK	836.5	V	143	258	1.31	1 / 26	20.65	19.81	0.096	38.45	-18.64	21.96	0.157	40.61	-18.65
	QPSK	844.0	V	146	259	1.35	1 / 26	20.68	19.88	0.097	38.45	-18.58	22.03	0.159	40.61	-18.58
	16-QAM	836.5	V	143	258	1.31	1/38	19.68	18.84	0.077	38.45	-19.61	20.99	0.126	40.61	-19.61
	π/2 BPSK	829.0	V	140	253	1.26	1/6	20.89	20.00	0.100	38.45	-18.45	22.15	0.164	40.61	-18.46
	π/2 BPSK	836.5	V	143	258	1.31	1 / 18	20.80	19.96	0.099	38.45	-18.49	22.11	0.162	40.61	-18.50
	π/2 BPSK	844.0	V	146	259	1.36	1 / 18	20.87	20.08	0.102	38.45	-18.37	22.23	0.167	40.61	-18.38
5 MHz	QPSK	829.0	V	140	253	1.26	1/6	20.83	19.94	0.099	38.45	-18.51	22.09	0.162	40.61	-18.52
	QPSK	836.5	V	143	258	1.31	1 / 18	20.53	19.69	0.093	38.45	-18.76	21.84	0.153	40.61	-18.77
	QPSK	844.0	V	146	259	1.36	1/6	20.71	19.91	0.098	38.45	-18.54	22.06	0.161	40.61	-18.54
	16-QAM	844.0	V	146	259	1.36	1 / 18	19.84	19.04	0.080	38.45	-19.41	21.19	0.132	40.61	-19.41
	QPSK (CP-OFDM)	834.0	V	140	253	6.15	1/53	14.51	18.51	0.071	38.45	-19.94	20.66	0.116	40.61	-19.94
20 MHz	QPSK (Opposite Pol.)	834.0	н	221	284	6.65	1/53	14.52	19.02	0.080	38.45	-19.43	21.17	0.131	40.61	-19.43
	QPSK (WCP)	834.0	V	140	253	6.15	1/79	7.19	11.19	0.013	38.45	-27.26	13.34	0.022	40.61	-27.26
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Table 7-93. ERP Data (NR Band n26/5)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GSM850	V	152.00	284.00	30.13	1.25	29.23	0.838	38.45	-9.22	31.38	1.374	40.61	-9.23
836.60	GSM850	V	177.00	265.00	27.31	1.31	26.47	0.444	38.45	-11.98	28.62	0.728	40.61	-11.99
848.80	GSM850	V	130.00	279.00	28.17	1.37	27.39	0.548	38.45	-11.06	29.54	0.899	40.61	-11.07
824.20	GSM850	н	227.00	284.00	25.75	1.25	24.85	0.306	38.45	-13.60	27.00	0.501	40.61	-13.61
824.20	EDGE850	V	152.00	284.00	24.80	1.25	23.90	0.246	38.45	-14.55	26.05	0.403	40.61	-14.56
824.20	GSM850 (WCP)	V	141.00	255.00	23.56	1.25	22.66	0.185	38.45	-15.79	24.81	0.303	40.61	-15.80

## Table 7-9. ERP Data (GPRS Cell)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	V	139.00	254.00	22.24	1.26	21.35	0.137	38.45	-17.10	23.50	0.224	40.61	-17.11
836.60	WCDMA850	V	131.00	252.00	21.05	1.31	20.21	0.105	38.45	-18.24	22.36	0.172	40.61	-18.25
846.60	WCDMA850	V	137.00	251.00	21.01	1.36	20.22	0.105	38.45	-18.23	22.37	0.173	40.61	-18.24
826.40	WCDMA850	н	226.00	277.00	17.54	1.26	16.65	0.046	38.45	-21.80	18.80	0.076	40.61	-21.81
826.40	WCDMA850 (WCP)	V	142.00	280.00	17.04	1.26	16.15	0.041	38.45	-22.30	18.30	0.068	40.61	-22.31

# Table 7-10. ERP Data (WCDMA Cell)

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# 7.7 Radiated Spurious Emissions Measurements

## **Test Overview**

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

## **Test Procedures Used**

ANSI C63.26-2015 - Section 5.5.4

## Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW  $\geq$  3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points  $\geq$  2 x span / RBW
- 5. Detector = RMS
- 6. Trace mode = Average (Max Hold for pulsed emissions)
- 7. The trace was allowed to stabilize

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

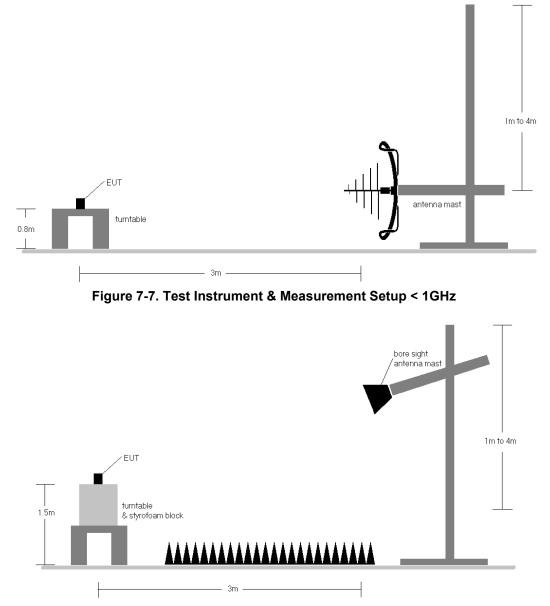


Figure 7-8. Test Instrument & Measurement Setup > 1GHz

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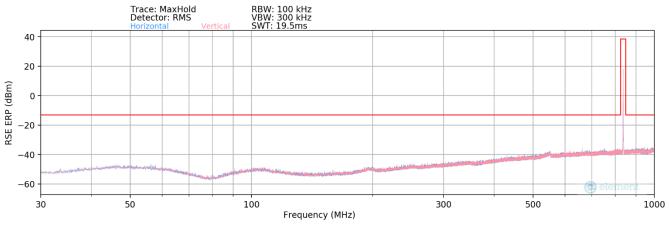
## Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(dB\mu V/m) =$  Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m) b) EIRP (dBm) =  $E(dB\mu V/m) + 20logD - 104.8$ ; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 10) 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.
- 11) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

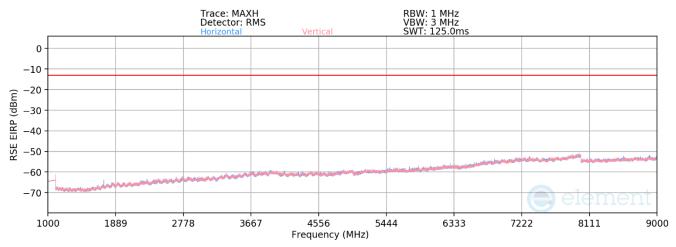
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# LTE Band 26/5









Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
457.04	V	-	-	-79.20	17.92	45.72	-49.53	-13.00	-36.53
551.95	V	-	-	-78.83	19.77	47.94	-47.32	-13.00	-34.32
919.65	V	-	-	-80.64	25.24	51.60	-43.66	-13.00	-30.66

Table 7-11. Radiated Spurious Data (LTE Band 26/5 – Below 1GHz)

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Bandwidth (MHz):	10
Frequency (MHz):	829
RB / Offset:	1/0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.00	V	129	321	-71.75	-7.67	27.58	-67.68	-13.00	-54.68
2487.00	V	112	314	-75.62	-4.23	27.15	-68.11	-13.00	-55.11
3316.00	V	-	-	-76.66	-0.82	29.52	-65.74	-13.00	-52.74
4145.00	V	-	-	-77.77	0.75	29.98	-65.27	-13.00	-52.27
4974.00	V	-	-	-77.54	1.57	31.03	-64.23	-13.00	-51.23
5803.00	V	-	-	-78.83	4.09	32.26	-63.00	-13.00	-50.00

#### Table 7-12. Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1/0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.00	V	113	345	-72.88	-7.63	26.49	-68.76	-13.00	-55.76
2509.50	V	108	316	-75.55	-4.17	27.28	-67.98	-13.00	-54.98
3346.00	V	-	-	-76.09	-0.95	29.96	-65.29	-13.00	-52.29
4182.50	V	-	-	-76.94	0.38	30.44	-64.81	-13.00	-51.81
5019.00	V	-	-	-77.52	1.28	30.76	-64.49	-13.00	-51.49
5855.50	V	-	-	-78.82	4.36	32.54	-62.71	-13.00	-49.71

## Table 7-13. Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844
RB / Offset:	1/0

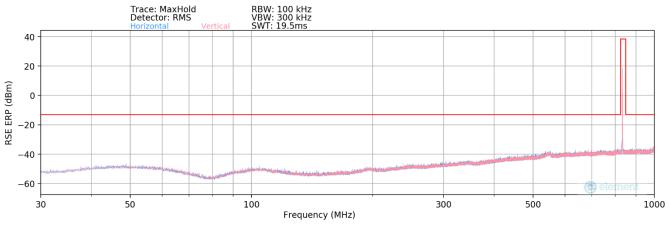
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.00	V	120	316	-73.85	-7.50	25.65	-69.61	-13.00	-56.61
2532.00	V	108	287	-71.16	-4.17	31.67	-63.59	-13.00	-50.59
3376.00	V	-	-	-76.96	-1.05	28.99	-66.26	-13.00	-53.26
4220.00	V	-	-	-77.15	0.51	30.36	-64.90	-13.00	-51.90
5064.00	V	-	-	-77.63	1.63	31.00	-64.26	-13.00	-51.26
5908.00	V	-	-	-79.24	4.07	31.83	-63.42	-13.00	-50.42

Table 7-14. Radiated Spurious Data (LTE Band 26/5 – High Channel)

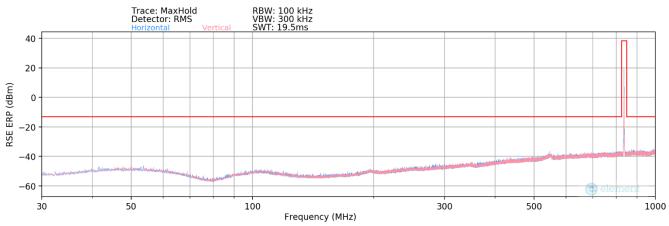
FCC ID: A3LSMS916U		Approved by: Technical Manager	
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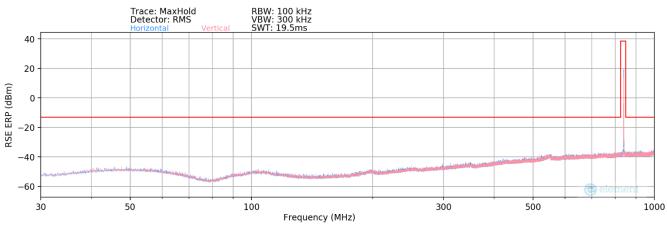
# ULCA LTE Band 5







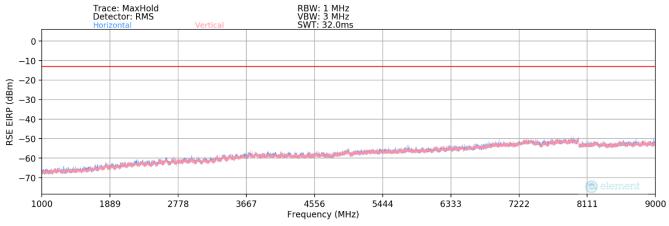




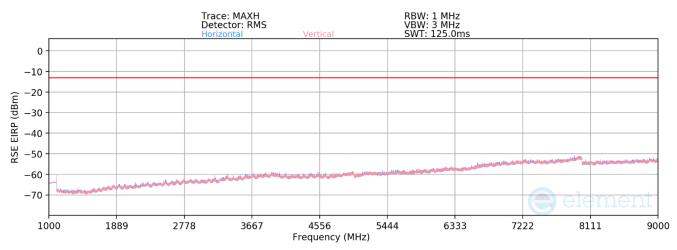
Plot 7-98. Radiated Spurious Plot (ULCA LTE Band 5 – High Channel – Below 1GHz)

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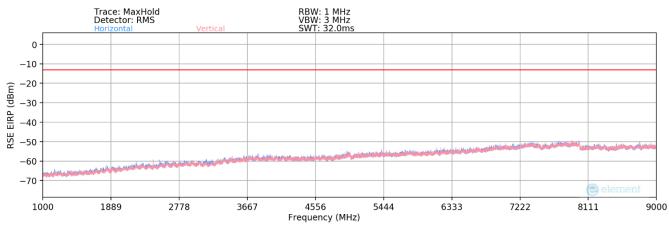














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PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	831.5
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	841.4
SCC RB / Offset:	1/0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
452.81	Н	-	-	-79.32	17.91	45.59	-49.66	-13.00	-36.66
552.25	Н	-	-	-79.08	19.78	47.70	-47.55	-13.00	-34.55
854.87	Н	-	-	-80.77	24.63	50.86	-44.40	-13.00	-31.40

# Table 7-15. Radiated Spurious Data (ULCA LTE Band 5 – Below 1GHz)

10
829.0
1 / 49
10
838.9
1/0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.00	н	400	10	-74.34	-7.69	24.97	-70.29	-13.00	-57.29
2487.00	н	-	-	-76.36	-4.28	26.36	-68.90	-13.00	-55.90
3316.00	н	-	-	-76.59	-0.82	29.59	-65.67	-13.00	-52.67
4145.00	н	-	-	-77.38	0.76	30.38	-64.87	-13.00	-51.87
4974.00	н	-	-	-77.05	1.42	31.37	-63.88	-13.00	-50.88

Table 7-16. Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)

PCC Bandwidth (MHz):	10
PCC Frequency (MHz):	831.5
PCC RB / Offset:	1 / 49
SCC Bandwidth (MHz):	10
SCC Frequency (MHz):	841.4
SCC RB / Offset:	1/0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1663.00	н	400	351	-75.02	-7.67	24.31	-70.95	-13.00	-57.95
2494.50	н	400	9	-75.57	-4.23	27.20	-68.06	-13.00	-55.06
3326.00	н	-	-	-76.34	-0.82	29.84	-65.42	-13.00	-52.42
4157.50	Н	-	-	-77.17	0.75	30.58	-64.67	-13.00	-51.67
4989.00	Н	-	-	-76.98	1.57	31.59	-63.67	-13.00	-50.67
5820.50	Н	-	-	-78.07	4.09	33.02	-62.24	-13.00	-49.24

Table 7-17. Radiated Spurious Data (ULCA LTE Band 5 – Mid Channel)

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<b>:):</b> 10	PCC Bandwidth (MHz):
844.0	PCC Frequency (MHz):
.t: 1/0	PCC RB / Offset:
<b>:):</b> 10	SCC Bandwidth (MHz):
<b>:):</b> 834.1	SCC Frequency (MHz):
et: 1 / 49	SCC RB / Offset:

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.00	н	-	-	-75.28	-7.43	24.29	-70.96	-13.00	-57.96
2532.00	н	-	-	-75.08	-4.15	27.77	-67.48	-13.00	-54.48
3376.00	Н	-	-	-76.89	-0.94	29.17	-66.09	-13.00	-53.09
4220.00	Н	-	-	-77.09	0.57	30.48	-64.78	-13.00	-51.78
5064.00	Н	-	-	-77.05	1.70	31.65	-63.61	-13.00	-50.61

Table 7-18. Radiated Spurious Data (ULCA LTE Band 5 – High Channel)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
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