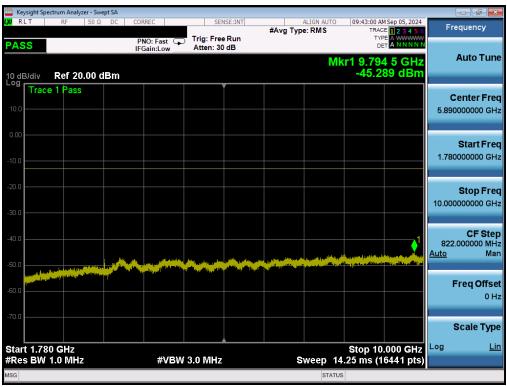


## LTE Band 66/4 - ANT1

Keysight Spectrum Analyzer - Swept SA					
RLT RF 50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:42:53 AM Sep 05, 2024 TRACE 1 2 3 4 5 6	Frequency
ASS dB/div Ref 20.00 dBm		Free Run : 30 dB	Mł	түре А WWWWW DET A N N N N N (r1 1.709 0 GHz -52.35 dBm	Auto Tur
Trace 1 Pass					Center Fre 869.500000 Mi
0.0					Start Fr 30.000000 M
					<b>Stop Fr</b> 1.709000000 G
				1	CF St 167.900000 M <u>Auto</u> M
0.0 <b>metherstrong damana d</b>	Hanna da ya amin anga kananga k	مىيەرىي. «ر. «ئارا» « «كارىتى الىرىدار	an air an tha an air an an air an an air air an an an air air an an an air air an an an air air air an an an ai		Freq Offs 0
art 0.0300 GHz				Stop 1.7090 GHz	Scale Ty
Res BW 1.0 MHz	#VBW 3.0 M	Hz	Sweep 2	.240 ms (3361 pts)	

Plot 7-115. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel)



Plot 7-116. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Low Channel)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 86 of 169
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🔤 Keysight Spe	ectrum Analyzer									-	- 6 ×
IXI RLT	RF	50 Ω DC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		M Sep 05, 2024	Fre	quency
PASS			PNO: Fast IFGain:Low	Trig: Free Atten: 10				TY D			
10 dB/div	Ref 0.00	) dBm					Mł	r1 19.37 -60.3	2 5 GHz 53 dBm		Auto Tune
Log -10.0	e 1 Pass										enter Freq
-20.0										10.0000	
-30.0											Start Freq
-40.0											Stop Freq
-50.0											000000 GH
-60.0				ور من مقد الحد و معامل من مقاد م			والمطارية وعافري				CF Step
-70.0		a Ministry (Mary a Ministry)		and states and so get	nd decidation (Terry which	and a second	a shine a shire of			<u>Auto</u>	Mar
-80.0										F	r <b>eq Offse</b> 0 Ha
-90.0										S	cale Type
Start 10.0 #Res BW			#VBW	/ 3.0 MHz		s	weep_1	Stop 20	.000 GHz 20001 pts)	Log	Lin
MSG							STAT				

Plot 7-117. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dege 97 of 160
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 87 of 169
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## NR Band n66 – ANT1

	ctrum Analyzer -										
X/RL	RF 51	DΩ DC	CORREC	SENS	E:INT	#Avg Typ	ALIGN AUTO		I Oct 31, 2024	Freq	uency
PASS			PNO: Fast ↔ IFGain:Low	. Trig: Free Atten: 30		#Avg 1yp	e. KW3	TYP	A WWWWW TANNNN		
10 dB/div	Ref 20.0	0 dBm					M	(r1 1.664 -49.9	40 GHz 78 dBm	A	uto Tune
Log Trac	e 1 Pass									Co	nter Fred
10.0											00000 MH
										070.00	
0.00											
											tart Fre
-10.0										30.00	
-20.0											
											Stop Fre
-30.0										1.71000	00000 GH
-40.0									. 1	168.00	CF Step 00000 MH
-50.0									<u> </u>	Auto	Ма
Logono Valent			anafrid <mark>a ariand</mark> an da nameka da			******	\$*************************************				
-60.0										Fr	eq Offse
											0 H
-70.0											
										Sc	ale Typ
Start 0.03 #Res BW			#\/B\	( 2 0 MH-			Ouroon (	Stop 1.7 2.240 ms (	7100 GHz	Log	Li
	1.0 WHZ		#VBV	/ 3.0 MHz					ssor pis)		_
ISG							STATUS	3			

Plot 7-118. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Mid Channel - ANT1)



Plot 7-119. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Mid Channel - ANT1)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 00 at 400	
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 88 of 169	
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🔤 Keysight Spectrun										_	
LXI RL	RF 50 Ω	DC CO	RREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO e: RMS		M Oct 31, 2024	Fred	uency
PASS			PNO: Fast ↔ Gain:Low	Atten: 10		• /		TYP			
10 dB/div R	ef 0.00 dE	m					Mkr	1 19.99 -56.8	45 GHz 81 dBm	A	uto Tune
-10.0	Pass										<b>nter Freq</b> 00000 GHz
-20.0										5	Start Freq
-30.0											00000 GHz
-40.0											<b>Stop Freq</b> 00000 GHz
-60.0										1 0000	CF Step
-70.0										<u>Auto</u>	Man
-80.0										Fr	e <b>q Offset</b> 0 Hz
-90.0										S	cale Type
Start 10.000 #Res BW 1.0			#VBM	V 3.0 MHz		s	weep 17	Stop 20 .33 ms (2	.000 GHz 0001 pts)	Log	<u>Lin</u>
MSG							STATUS				

Plot 7-120. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Mid Channel - ANT1)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 89 of 169	
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 697.9	-63.12	-13	-50.12
		Low	716.0 - 1000.0	-65.33	-13	-52.33
		Low	1000.0 - 10000.0	-43.51	-13	-30.51
		Mid	30.0 - 698.0	-64.49	-13	-51.49
LTE Band 12/17	10 MHz	Mid	716.0 - 1000.0	-65.33	-13	-52.33
		Mid	1000.0 - 10000.0	-44.59	-13	-31.59
		High	30.0 - 697.9	-65.14	-13	-52.14
		High	716.1 - 1000.0	-59.36	-13	-46.36
		High	1000.0 - 10000.0	-43.34	-13	-30.34
	10 MHz	Mid	30.0 - 777.0	-65.40	-35	-30.40
LTE Band 13		Mid	787.0 - 1000.0	-65.30	-13	-52.30
		Mid	1000.0 - 20000.0	-41.04	-13	-28.04

Table 7-17. Conducted Spurious Emissions Results – Ant2

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 663.0	-45.24	-13	-32.24
		Low	698.0 - 1000.0	-47.52	-13	-34.52
		Low	1000.0 - 10000.0	-63.44	-13	-50.44
		Mid	30.0 - 663.0	-54.04	-13	-41.04
LTE-B66-4	20 MHz	Mid	698.0 - 1000.0	-47.46	-13	-34.46
		Mid	1000.0 - 10000.0	-63.26	-13	-50.26
		High	30.0 - 663.0	-53.69	-13	-40.69
		High	698.0 - 1000.0	-47.48	-13	-34.48
		High	1000.0 - 10000.0	-63.19	-13	-50.19
		Low	30.0 - 1710.0	-49.50	-13	-36.50
		Low	1780.0 - 10000.0	-43.42	-13	-30.42
		Low	10000.0 - 20000.0	-59.32	-13	-46.32
		Mid	30.0 - 1710.0	-49.83	-13	-36.83
NR Band n66	45 MHz	Mid	1780.0 - 10000.0	-43.55	-13	-30.55
		Mid	10000.0 - 20000.0	-59.14	-13	-46.14
		High	30.0 - 1710.0	-49.65	-13	-36.65
		High	1780.0 - 10000.0	-43.55	-13	-30.55
		High	10000.0 - 20000.0	-59.16	-13	-46.16

Table 7-18. Conducted Spurious Emissions Results – Ant2

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 90 of 169	
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# LTE Band 12/17 – ANT2

	ctrum Analy:	ter - Swej	pt SA									
RLT	RF	50 Ω	AC	CORREC			#Avg Ty	ALIGN AUT	TI	5 AM Oct 20, 2024 RACE 1 2 3 4 5 6	F	requency
ASS 0 dB/div	Ref 20	.00 d	Bm	PNO: IFGair	Fast 🖵	Atten: 3			Mkr1 69	7.50 MHz 5.14 dBm		Auto Tur
og Trace	e 1 Pass											Center Fre 4.000000 Mł
0.00											3	<b>Start Fr</b> 0.000000 Mi
0.0											69	<b>Stop Fr</b> 8.000000 M
).0 ).0											61 <u>Auto</u>	CF St 6.800000 M N
D.0						ter an at which had a Mahadi	der mentelliche eine sonie	i stille in statisfice, telle	ur "Jaran", an Jenis santailàidh	1		Freq Offs 0
			an e contra de la contra		المأغالية فرجدي	a, ing ing the second staff					Log	Scale Ty
tart 30.0 Res BW		,			#VRM	300 kHz	ç	Sween	32.06 ms	698.0 MHz (13361 pts)	_	Ļ
	100 1.11				<b></b>	000 1112		Altoop	02100 1110	(10001 pto)		

Plot 7-121. Conducted Spurious Plot (LTE Band 12 /17- 10MHz QPSK - 1 RB - High Channel - ANT2)

		ctrum Analyz		t SA										
L <mark>XI</mark> RL	. T	RF	50 Ω	AC	CORREC			NSE:INT	#Avg T	ALIGN AUTO ype: RMS	TR	AM Oct 20, 2024 ACE 1 2 3 4 5 6	Fr	equency
PAS	S				PNO: IFGair	Fast 🕞	Trig: Fre Atten: 30							
10 dB Log r	3/div	Ref 20	.00 di	Зm							Mkr1 716 -59	6.10 MHz .36 dBm		Auto Tune
LUg	Trace	e 1 Pass											c	enter Freq
10.0													858	.050000 MHz
0.00														
-10.0													716	Start Freq
-10.0														
-20.0														Stop Freq
-30.0													1.000	0000000 GHz
-40.0														CF Step
-40.0													28 <u>Auto</u>	.390000 MHz Man
-50.0	1													
-60.0	)' 												1	F <b>req Offset</b> 0 Hz
70.0	Miley-weather	her been and state				والمتحصا والتيريا	, mar da da ya da	***		International states and the states of the	****	***		U HZ
-70.0 -														Scale Type
Start	: 0.7 <u>1</u>	61 GHz									Stop 1	.0000 GHz	Log	Lin
		100 kHz				#VBW	300 kHz			Sweep	13.63 ms	(5681 pts)		
MSG										STAT	rus			

Plot 7-122. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel - ANT2)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 01 of 160		
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		um Analyzer - Sw										×
LXI RL	T	RF 50 Ω	AC CO	RREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS		M Oct 20, 2024	Frequency	,
PAS	S			NO: Fast 🕞 Gain:Low	Trig: Free #Atten: 3		0 //		T\ E		Auto T	une
10 dB. <sup>Log</sup> r		Ref 0.00 dl	Bm	1					/kr1 1.42 -43.3	41 dBm		
	Trace <sup>·</sup>	Pass									Center F	
-10.0											5.500000000	GHz
-20.0											Start F	rea
-30.0											1.000000000	
-40.0											Stop F	
-50.0			-								10.000000000	GHz
-60.0				and the second second					an and the second		CF S	step
-0U.U —											900.000000 Auto	MHz Man
-70.0												
-80.0											Freq Of	
												0 Hz
-90.0 -											Scale T	ype
Start	1.000	CH7							Stop 1	).000 GHz	Log	Lin
	BW 1.			#VBW	3.0 MHz		s	weep	15.60 ms (			
MSG								STA	TUS			

Plot 7-123. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel - ANT2)

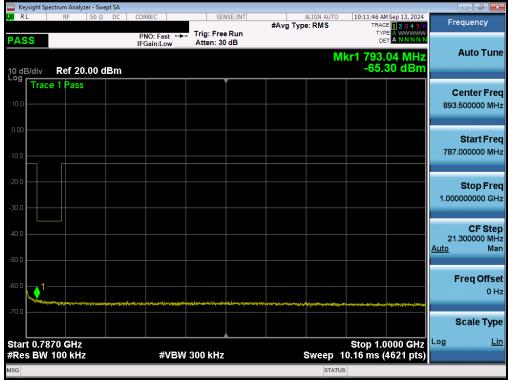
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 92 of 169		
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Fage 92 01 169		
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# LTE Band 13 – ANT2

🔤 Keysight Spectrum Analyzer - Swept SA 🚽			
LX/ RL RF 50Ω DC	CORREC SENSE:INT	ALIGN AUTO 10:11:35 AM Sep 13, 2024 #Avg Type: RMS TRACE 123456	Frequency
PASS	PNO: Fast +++ Trig: Free Run IFGain:Low Atten: 30 dB	TYPE A WWWWW DET A NNNN	
10 dB/div Ref 20.00 dBm		Mkr1 763.70 MHz -65.40 dBm	Auto Tune
Trace 1 Pass			Center Freq 403.500000 MHz
-10.0			Start Freq 30.000000 MHz
-20.0			Stop Freq 777.000000 MHz
-40.0			CF Step 74.700000 MHz <u>Auto</u> Mar
-60.0			Freq Offset 0 Hz
-70.0			Scale Type
Start 30.0 MHz #Res BW 100 kHz	#VBW 300 kHz	Stop 777.0 MHz Sweep 35.86 ms (14941 pts)	Log <u>Lin</u>
MSG	##B##-300-MHZ	status	

Plot 7-124. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



Plot 7-125. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
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	rum Analyzer - Sw	ept SA									
LXI RL	RF 50 Ω	DC	CORREC	SENS	E:INT	#Avg Typ	ALIGN AUTO		M Sep 13, 2024	Freq	Jency
PASS			PNO: Fast ↔ IFGain:Low	, Trig: Free Atten: 36				TYF DE			
	Ref 25.00 (	dBm					Mł	(r1 4.95 -41.0	1 0 GHz 41 dBm	A	uto Tune
Log Trace	1 Pass									Cer	nter Freq
15.0										5.50000	00000 GHz
5.00											
-5.00											<b>tart Freq</b> 10000 GHz
-3.00											
-15.0											top Freq
-25.0										10.00000	0000 GHz
-35.0											CF Step
				. <b>∮</b> '						900.00 <u>Auto</u>	0000 MHz Man
-45.0											
-55.0										Fre	e <b>q Offset</b> 0 Hz
-65.0											
										Sc	ale Type
Start 1.000			43 (15)					Stop 10	.000 0112	Log	Lin
#Res BW 1	.U WIHZ		#VBV	/ 3.0 MHz		S	status		8001 pts)		

Plot 7-126. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

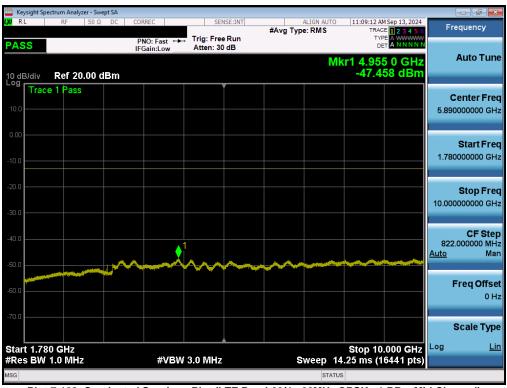
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 94 of 169		
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## LTE Band 66/4 - ANT2

RL RF 50 Ω DC	CORREC SENSE:INT PNO: Fast ↔→ Trig: Free Run	ALIGN AUTO 11:08:51 AM Sep 13, 2024 #Avg Type: RMS TRACE 12 3 4 5 6 TYPE A	
ASS dB/div Ref 20.00 dBm	IFGain:Low Atten: 30 dB	Det A NNNN Mkr1 1.697 0 GHz -54.042 dBm	
Drace 1 Pass			Center Fre 870.000000 Mi
0.0			<b>Start Fr</b> 30.000000 M
0.0			<b>Stop Fr</b> 1.710000000 G
0.0			CF St 168.000000 M <u>Auto</u> M
0.0 <u>Protection and a state of the state of </u>	any water and the defective descent and the second state of the second state of the second state of the second	<u> </u>	Freq Offs 0
tart 0.0300 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Stop 1.7100 GHz Sweep 2.240 ms (3361 pts)	Scale Ty Log <u>l</u>

Plot 7-127. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel)



Plot 7-128. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Mid Channel)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 95 of 169		
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🔤 Keysight Spectrum Analyzer -										×
KI RF 5	0Ω DC CO	RREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO		Sep 13, 2024	Frequency	
PASS		NO: Fast ↔→ Gain:Low	Trig: Free Atten: 10		#/19 I JP		TYP DE			
10 dB/div Ref 0.00	dBm					Mkr	1 19.535 -63.20	50 GHz 60 dBm	Auto Tu	une
-10.0 Trace 1 Pass									Center F 15.000000000 0	
-20.0									Start Fi 10.000000000 (	
-40.0									<b>Stop F</b> i 20.000000000 C	
-60.0								1	CF Si 1.000000000 C <u>Auto</u> M	
-80.0									<b>Freq Off</b> 0	f <b>se</b> DH:
-90.0									Scale Ty	
Start 10.000 GHz #Res BW 1.0 MHz		#VBW	3.0 MHz		s	weep <u>1</u> 7	Stop 20. 7.33 ms (2	000 0112	Log	Lin
MSG						STATU				_

Plot 7-129. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel)

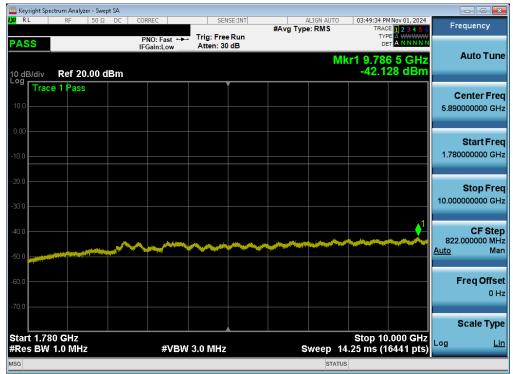
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Demo 06 of 160		
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 96 of 169		
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### NR Band n66 – ANT2

Keysight Spe											- •
KIRL	RF	50 Ω DC	CORREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO		MNov 01, 2024	F	equency
PASS			PNO: Fast ↔ IFGain:Low	. Trig: Free Atten: 30		#Avg iyi	Je. KWIS	TYF	PE A WWWWW ET A NNNNN		
I0 dB/div	Ref 20.	.00 dBm					М	kr1 1.62 -49.8	7 0 GHz 48 dBm		Auto Tun
og Trac	e 1 Pass										Downton Fra
10.0											Center Fre
10.0										870	0.000000 MH
0.00											
0.00											Start Fre
10.0										30	0.000000 MH
10.0											
20.0											
20.0											Stop Fre
30.0										1.71	0000000 GH
3U.U											
40.0											CF Ste
40.0									. 1	168	CF SIE 3.000000 MF
FO. 0									♦'	Auto	Ma
50.0					and the second second		and the state of t	an the section of the	and the second second second		
	and the second secon										
50.0											e <b>Freq Offs</b> ۱۱
											UF
70.0											
											Scale Typ
tart 0.03	00 GHz							Stop 1.	7100 GHz	Log	
Res BW	1.0 MHz		#VBW	/ 3.0 MHz			Sweep 2	2.240 ms (	3361 pts)	Log	<u>L</u>
SG							STATUS			_	

Plot 7-130. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Low Channel - ANT2)



Plot 7-131. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Low Channel - ANT2)

FCC ID: A3LSMS938B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 07 of 160
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🚾 Keysight Spectrum A									_		- • ×
L <mark>XI</mark> RL RF	= 50 Ω	DC CC	ORREC	SEN	SE:INT	#Avg Typ	ERMS	03:49:53 PMI TRACE	1 2 3 4 5 6	Fre	quency
PASS			PNO: Fast ↔↔ FGain:Low	Trig: Free Atten: 10		• //		TYPE	A WWWWW A N N N N N		
10 dB/div Re	f 0.00 dB	m					Mk	r1 18.975 -57.01	0 GHz 9 dBm		Auto Tune
-10.0	ass										enter Fred 000000 GH:
-20.0											Start Free
-40.0											Stop Free
-60.0	~~~								ini produktor posta (karaka) gina ini ini produktor	1.0000 <u>Auto</u>	CF Step 000000 GH Mai
-80.0										F	req Offse 0 H
Start 10.000 G			#\/B\A	3.0 MHz			ween 1	Stop 20.0 7.33 ms (20	000 GHz	S Log	cale Type <u>Lir</u>
ISG	WII 12		#VDV	5.0 10112			STATU		oo i pisj		

Plot 7-132. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - Low Channel - ANT2)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 00 of 100	
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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 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 $43 + 10 \log_{10}(P_{[Watts]})$ , 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 Report S/N:	Test Dates:	EUT Type:	Dega 00 of 160
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 99 of 169
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#### Test Notes

- Per 27.53(h) for AWS band operation, 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. Per 27.53(g) for operations in the 663 698 MHz and 698 746MHz bands, 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.
- 3. 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<sub>10</sub>(P) = -35dBm in a 6.25kHz bandwidth.

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Mode	Bandwidth	Channel	Test Case	Level	Limit	Margin
MODE	Banuwium	Chaimer	Test Case	[dBm]	[dBm]	[dB]
		Low	Band Edge	-29.47	-13	-16.47
	10 MHz	Low	Band Edge (B17)	-30.48	-13	-17.48
		High	Band Edge	-30.71	-13	-17.71
		Low	Band Edge	-23.68	-13	-10.68
LTE Band 12/17	5 MHz	Low	Band Edge (B17)	-22.64	-13	-9.64
LIE Dallu 12/17		High	Band Edge	-23.30	-13	-10.30
	3 MHz	Low	Band Edge	-17.33	-13	-4.33
		High	Band Edge	-19.49	-13	-6.49
	1.4 MHz	Low	Band Edge	-25.35	-13	-12.35
		High	Band Edge	-26.00	-13	-13.00
		Low	Band Edge	-27.89	-13	-14.89
		Low	Emission Mask	-64.07	-13	-51.07
	10 MHz	High	Band Edge	-26.89	-13	-13.89
LTE Band 13		High	Emission Mask	-45.69	-13	-32.69
		Low	Band Edge	-23.31	-13	-10.31
	5 MHz	Low	Emission Mask	-59.11	-13	-46.11
		High	Band Edge	-22.74	-13	-9.74
		High	EmMask	-54.56	-13	-41.56

Table 7-19. Conducted Band Edge Results – Ant1

FCC ID: A3LSMS938B		Approved by: Technical Manager	
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Mode	Bandwidth	Channel	Test Case	Level	Limit	Margin
	Banaman	Low	Band Edge	[dBm] -23.25	[dBm] -13	[dB] -10.25
WCDMA1700	N/A	High	Band Edge	-24.40	-13	-11.40
Mode	Bandwidth	Channel	Test Case	Level	Limit	Margin
mouo	Danaman	Low		[dBm] -27.41	[dBm]	[dB] -14.41
		Low	Band Edge Extended	-27.41	-13 -13	-14.41
	20MHz	High (B4)	Band Edge	-26.32	-13	-13.32
	ZUIVIHZ	High (B4)	Extended	-24.28	-13	-11.28
		High (B66)	Band Edge	-26.63	-13	-13.63
		High (B66) Low	Extended Band Edge	-24.25 -24.99	-13 -13	-11.25 -11.99
		Low	Extended	-21.31	-13	-8.31
	15MHz	High (B4)	Band Edge	-25.30	-13	-12.30
		High (B4)	Extended	-22.35	-13	-9.35
		High (B66) High (B66)	Band Edge Extended	-25.76 -22.57	-13 -13	-12.76 -9.57
		Low	Band Edge	-25.48	-13	-12.48
		Low	Extended	-20.51	-13	-7.51
	10MHz	High (B4)	Band Edge	-21.37	-13	-8.37
		High (B4) High (B66)	Extended Band Edge	-20.01 -24.00	-13 -13	-7.01 -11.00
		High (B66)	Extended	-24.00	-13	-7.20
LTE Band 66/4		Low	Band Edge	-19.94	-13	-6.94
		Low	Extended	-23.06	-13	-10.06
	5MHz	High (B4)	Band Edge	-21.40	-13	-8.40
		High (B4) High (B66)	Extended Band Edge	-26.28 -22.12	-13 -13	-13.28 -9.12
		High (B66)	Extended	-26.58	-13	-13.58
		Low	Band Edge	-18.51	-13	-5.51
		Low	Extended	-24.48	-13	-11.48
	3MHz	High (B4) High (B4)	Band Edge Extended	-19.35 -22.84	-13 -13	-6.35 -9.84
		High (B66)	Band Edge	-22.64	-13	-9.64
		High (B66)	Extended	-24.77	-13	-11.77
	1.4MHz	Low	Band Edge	-21.15	-13	-8.15
		Low	Extended	-32.13	-13	-19.13
		High (B4) High (B4)	Band Edge Extended	-20.17	-13 -13	-7.17 -14.21
		High (B66)	Band Edge	-19.60	-13	-6.60
		High (B66)	Extended	-30.61	-13	-17.61
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
				гартт		
		Low	Band Edge			
		Low Low	Band Edge Extended	-29.64 -30.39	-13 -13	-16.64 -17.39
	45 MHz	Low High	Extended Band Edge	-29.64 -30.39 -32.26	-13 -13 -13	-16.64 -17.39 -19.26
	45 MHz	Low High High	Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47	-13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47
	45 MHz	Low High High Low	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42	-13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42
	45 MHz 40 MHz	Low High High Low Low	Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17	-13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17
		Low High High Low	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42	-13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42
		Low High Low Low High High Low	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63
		Low High High Low Low High High Low Low	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67
	40 MHz	Low High High Low High High Low Low High	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45
	40 MHz	Low High High Low Low High High Low Low	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67
	40 MHz 35 MHz	Low High Low Low High Low Low High High Low Low Low	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -29.84 -28.43 -29.96	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.43 -16.96
	40 MHz	Low High Low Low High Low Low High High Low High	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -32.84 -28.43 -28.43 -28.43 -28.51	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.43 -16.96 -15.51
	40 MHz 35 MHz	Low High Low Low High Low Low High Low High Low High Low High High	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -32.84 -28.43 -28.43 -29.86 -28.51 -30.89	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.43 -16.96 -15.51 -17.89
	40 MHz 35 MHz 30 MHz	Low High Low Low High Low Low High High Low High	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -32.84 -28.43 -28.43 -28.43 -28.51	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -13.42 -13.42 -13.42 -13.42 -14.667 -19.86 -16.67 -20.45 -19.84 -15.43 -16.96 -15.51 -17.89 -20.24
NR Band n66	40 MHz 35 MHz	Low High Low Low High Low Low High Low Low High High Low	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -33.45 -33.45 -32.84 -28.43 -29.96 -28.51 -30.89 -33.24	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.43 -16.96 -15.51 -17.89
NR Band n66	40 MHz 35 MHz 30 MHz	Low High Low Low High Low Low High Low Low High Low High High High High	Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -33.45 -33.45 -33.45 -33.45 -33.284 -28.93 -29.961 -33.24 -33.24 -33.24 -36.43 -36.43	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.51 -17.89 -20.24 -20.24 -20.24 -23.43 -23.43
NR Band n66	40 MHz 35 MHz 30 MHz	Low High High Low Low High High Low Low High High Low Low High Low High High Low	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -29.67 -33.45 -29.66 -28.51 -30.89 -33.24 -33.24 -33.24 -36.43 -36.43 -36.43 -36.43 -36.43 -36.43	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.43 -16.96 -15.51 -17.89 -20.24 -20.24 -23.43 -23.43 -17.11
NR Band n66	40 MHz 35 MHz 30 MHz	Low High High Low Low High High Low Low High High Low Low High High Low Low High	Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -32.66 -31.63 -29.67 -33.45 -33.45 -33.45 -33.45 -28.51 -30.89 -33.24 -33.324 -33.334 -33.3444 -33.3444 -33.3444 -33.3444 -33.3444 -33.3444 -33.3444 -33.34444 -33.34444 -33.34444444444	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -20.45 -20.45 -19.84 -15.51 -17.89 -20.24 -20.24 -20.24 -23.43 -23.43 -23.43 -17.11 -13.59
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz	Low High High Low Low High High Low Low High High Low Low High Low High High Low	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -29.67 -33.45 -29.66 -28.51 -30.89 -33.24 -33.24 -33.24 -36.43 -36.43 -36.43 -36.43 -36.43 -36.43	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.43 -16.96 -15.51 -17.89 -20.24 -20.24 -23.43 -23.43 -17.11
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz	Low High High Low Low High High Low Low Low Low High High High Low Low High High Low Low Low Low Low Low Low Low Low	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.64 -28.43 -29.67 -33.24 -32.84 -28.43 -29.96 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -36.43 -36.43 -36.43 -36.43 -26.59 -22.862 -26.59	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -16.67 -20.45 -19.84 -15.51 -15.51 -15.51 -17.89 -20.24 -20.24 -20.24 -20.24 -23.43 -17.11 -13.59 -19.60 -15.82 -13.56
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz	Low High Low Low High High Low Low Low Low Low Low Low Low Low Low	Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.45 -33.45 -33.45 -33.45 -33.45 -33.284 -28.51 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -35.265 -28.59 -22.65 -23.29	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.43 -16.96 -15.51 -15.43 -16.96 -15.51 -17.89 -20.24 -20.24 -20.24 -20.24 -20.24 -23.43 -17.11 -13.56 -13.56 -13.562 -13.562 -13.562 -13.562 -10.29
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz 20 MHz	Low High High Low Low Low Low Low Low Low Low High High High Low Low High High Low Low Low High High	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.24 -29.67 -33.24 -28.43 -29.96 -33.24 -33.25 -2	-13           -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.51 -17.89 -20.24 -23.43 -15.51 -17.89 -20.24 -23.43 -23.43 -23.43 -17.11 -3.59 -19.80 -10.29 -19.86
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz 20 MHz	Low High High Low Low High High Low Low Low High High Low High High High Low High High High High High High	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.24 -28.43 -29.67 -33.24 -32.84 -28.43 -29.96 -33.24 -30.89 -33.24 -33.24 -33.24 -33.24 -36.43 -36.43 -36.43 -36.43 -36.43 -26.59 -22.86 -23.286 -26.282	-13           -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.51 -17.89 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -21.55 -15.55 -15.59 -19.860 -15.59 -13.28
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low Low Low Low Low Low Low Low High High High Low Low High High Low Low Low High High	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.24 -29.67 -33.24 -28.43 -29.96 -33.24 -33.25 -2	-13           -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.51 -17.89 -20.24 -23.43 -15.51 -17.89 -20.24 -23.43 -23.43 -23.43 -17.11 -3.59 -19.80 -10.29 -19.86
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz 20 MHz	Low High High Low Low High High Low Low Low Low High High Low Low High High High Low High High High Low Low High High	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.64 -28.43 -29.67 -33.24 -32.84 -28.43 -29.96 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -32.65 -22.86 -23.260 -26.56 -23.260 -26.56 -25.56	-13           -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.51 -17.89 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -21.55 -15.51 -15.51 -15.52 -15.51 -15.52 -13.56 -10.29 -13.56 -13.28 -14.63 -6.57 -16.46
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low Low High High Low Low Low Low Low Low High High High High High High Low Low High High High High High High High High	Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.96 -33.45 -32.84 -32.84 -32.84 -32.84 -32.84 -33.24 -36.43 -33.24 -36.43 -33.24 -36.43 -36.69 -22.86 -22.86 -23.29 -22.86 -23.29 -22.86 -23.29 -22.86 -23.29 -23.29 -22.86 -23.29 -23.29 -22.86 -23.29 -2	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.51 -17.89 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -23.43 -15.51 -17.19 -15.82 -13.56 -10.29 -19.86 -13.28 -14.63 -6.57 -16.46 -8.71
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low Low High High Low Low Low High High Low Low Low High High High Low Low High High Low Low Low Low Low Low Low Low Low Low	Extended Band Edge Extended Band Edge	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.67 -33.24 -29.67 -33.24 -28.61 -32.84 -28.51 -30.89 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -33.24 -32.66 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.29 -23.26 -23.27 -23.26 -25.26 -23.26 -25.26 -25.26 -25.26 -25.26 -25.26 -2	-13           -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.51 -17.89 -20.24 -23.43 -15.51 -17.89 -20.24 -23.43 -15.51 -17.89 -20.24 -23.43 -15.51 -15.51 -17.89 -20.24 -23.43 -15.51 -15.51 -15.51 -15.51 -15.52 -15.52 -13.56 -13.56 -13.28 -14.63 -6.57 -16.64 -8.71 -13.78
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low Low High High Low Low Low Low Low Low High High High High High High Low Low High High High High High High High High	Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.96 -33.45 -32.84 -32.84 -32.84 -32.84 -32.84 -33.24 -36.43 -33.24 -36.43 -33.24 -36.43 -36.69 -22.86 -22.86 -23.29 -22.86 -23.29 -22.86 -23.29 -22.86 -23.29 -23.29 -22.86 -23.29 -23.29 -22.86 -23.29 -2	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	-16.64 -17.39 -19.26 -21.47 -13.42 -17.17 -10.27 -19.66 -18.63 -16.67 -20.45 -19.84 -15.51 -17.89 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -20.24 -23.43 -15.51 -17.19 -15.82 -13.56 -10.29 -19.86 -13.28 -14.63 -6.57 -16.46 -8.71
NR Band n66	40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low Low High High Low Low Low Low Low Low High High High High High High Low Low High High High High High High High High	Extended Band Edge Extended Band Edge Extended	-29.64 -30.39 -32.26 -34.47 -26.42 -30.17 -23.27 -32.66 -31.63 -29.96 -33.45 -32.84 -32.84 -32.84 -32.84 -32.84 -33.24 -36.43 -33.24 -36.43 -33.24 -36.43 -36.69 -22.86 -22.86 -23.29 -22.86 -23.29 -22.86 -23.29 -22.86 -23.29 -23.29 -22.86 -23.29 -23.29 -22.86 -23.29 -2	-13 -13 -13 -13 -13 -13 -13 -13 -13 -13	$\begin{array}{c} -16.64\\ -17.39\\ -19.26\\ -19.26\\ -19.26\\ -14.72\\ -19.26\\ -19.26\\ -17.17\\ -19.26\\ -17.17\\ -10.27\\ -19.86\\ -16.16\\ -16.87\\ -19.84\\ -20.46\\ -15.51\\ -17.89\\ -20.44\\ -20.24\\$

Table 7-20. Conducted Band Edge Results – Ant1

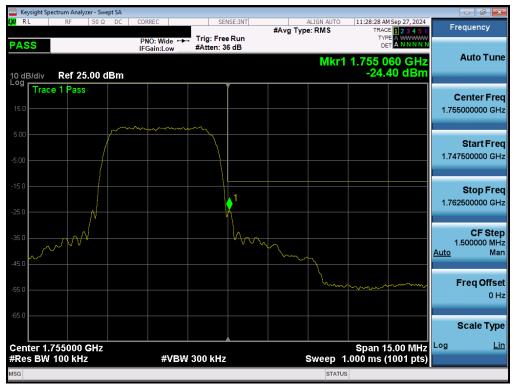
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 102 of 169	
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Fage 102 01 109	
© 2024 ELEMENT			V11.1 08/28/2023	



## WCDMA AWS – ANT1



Plot 7-133. Lower Band Edge Plot (WCDMA AWS - Ch. 1312 - ANT1)

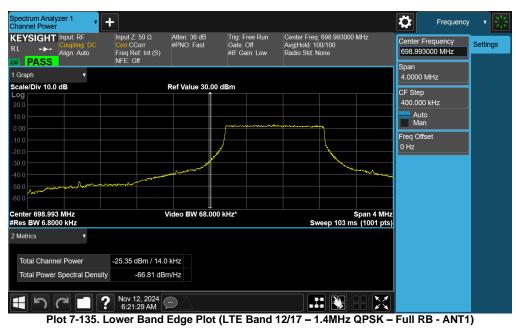


Plot 7-134. Upper Band Edge Plot (WCDMA AWS - Ch. 1513 - ANT1

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:		Dege 102 of 100
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset		Page 103 of 169
© 2024 ELEMENT	·			V11 1 08/28/2023



# LTE Band 12/17 – ANT1





Plot 7-136. Upper Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB - ANT1

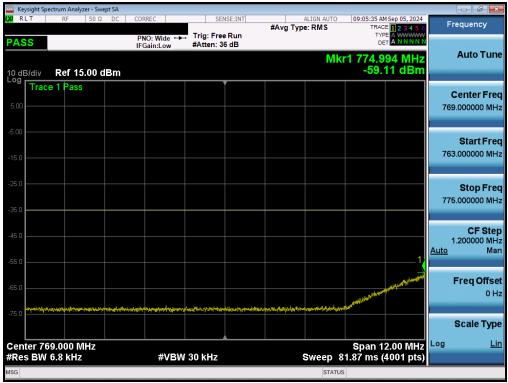
FCC ID: A3LSMS938B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 104 of 160
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 104 of 169
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# LTE Band 13 – ANT1



Plot 7-137. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)



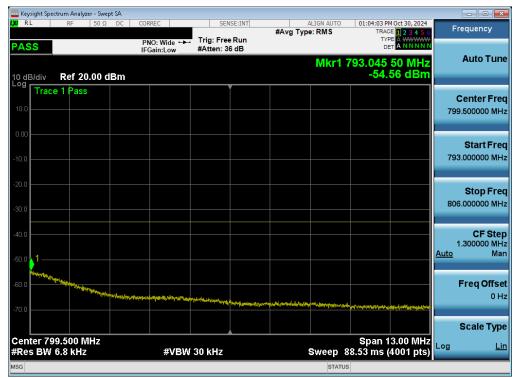
Plot 7-138. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:		Page 105 of 169	
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset		Fage 105 01 109	
© 2024 ELEMENT	<u>.</u>			V11.1 08/28/2023	



Keysight Spectrum Analyzer - Swept SA									
CIRLT RF 50Ω DC	CORREC	SEN		#Avg Typ	ALIGN AUTO e: RMS	TRAC	MSep 05, 2024 E 1 2 3 4 5 6 E A WWWWW	F	requency
PASS 0 dB/div Ref 25.00 dBm	PNO: Wide	#Atten: 3			Mk	r1 787.0			Auto Tune
Trace 1 Pass									Center Fred 7.000000 MH;
5.00								78	<b>Start Fred</b> 5.000000 MH:
25.0		<i>w</i>	1 MM					789	Stop Free 9.000000 MH
45.0			t where	mm	hum	<u>\</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>Auto</u>	CF Ste 400.000 kH Ma
55.0									FreqOffse 0⊦
65.0 Center 787.000 MHz						Span 4	.000 MHz	Log	Scale Typ <u>Li</u>
Res BW 100 kHz	#VBW :	300 kHz			Sweep 2	2.000 ms (	1001 pts)		

Plot 7-139. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)



Plot 7-140. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)

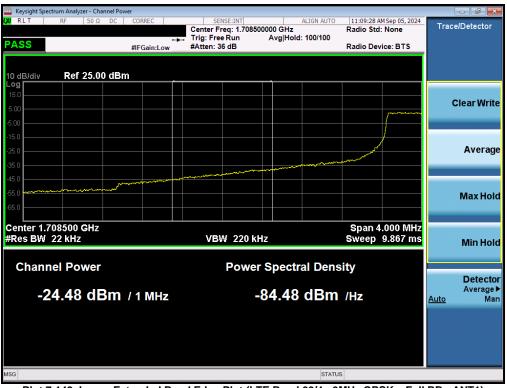
FCC ID: A3LSMS938B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 106 of 169
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Fage 100 01 109
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# LTE Band 66/4 – ANT1



Plot 7-141. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - ANT1)



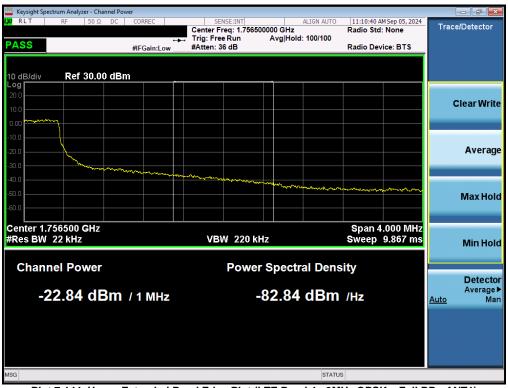
Plot 7-142. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - ANT1)

FCC ID: A3LSMS938B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 107 of 160	
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 107 of 169	
© 2024 ELEMENT			1/11 1 08/28/2023	





Plot 7-143. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK - Full RB - ANT1)



Plot 7-144. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK - Full RB - ANT1)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 108 of 169
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Fage 106 01 109
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Plot 7-145. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK - Full RB - ANT1)



Plot 7-146. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 109 of 169	
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Fage 109 01 109	
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## NR Band n66 – ANT1



Plot 7-147. Lower Band Edge Plot (NR Band n66 - 10.0MHz - Full RB - ANT1)



Plot 7-148. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 110 of 160
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 110 of 169
© 2024 ELEMENT			V11.1 08/28/2023



Keysight Spec	trum Analyzer - Swe RF 50 Ω		ORREC	CEN.	CE-TNT		ALIGN AUTO	05-15-50 0	M Oct 31, 2024	_	- 0 ×
NL	RF   50 Ω				SE:INT	#Avg Typ		TRAC	E 1 2 3 4 5 6 E A WWWW	Fre	equency
PASS			PNO: Wide ↔→ FGain:Low	#Atten: 3				DE			
10 dB/div Log	Ref 25.00 d	IBm					Mkr1	1.780 0 -29.	25 GHz 46 dBm		Auto Tune
Trace	1 Pass									С	enter Freq
15.0										1.780	000000 GHz
5.00	prom	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		m							Start Freq
-5.00										1.767	500000 GHz
15.0											Stop Free
-25.0					1					1.792	2500000 GHz
35.0					<u> </u>						CF Step
45.0					mm	www				2 <u>Auto</u>	500000 MHz. Mar
43.0							wwwww	mm A a	~		
-55.0									1 - Corrigon	F	Freq Offset 0 Hz
65.0											
											Scale Type
Center 1.7 #Res BW 1	8000 GHz 120 kHz		#VBW	430 kHz			Sweep 1	Span 2 .000 ms (	5.00 MHz 1001 pts)	Log	<u>Lin</u>
MSG							STATUS				

Plot 7-149. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

Keysight Spectrum Analyzer - Swept SA					- • •
RL RF 50Ω DC	CORREC	SENSE:INT	ALIGN AUTO	05:16:07 PM Oct 31, 2024	Frequency
ASS	PNO: Wide ↔→ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type: RMS	TRACE <b>1 2 3 4 5 6</b> TYPE A <del>WWWW</del> DET <b>A NNNN</b>	
o dB/div Ref 25.00 dBm			Mkr1	1.781 004 GHz -21.71 dBm	Auto Tun
Trace 1 Pass		Ĭ			Center Fre
15.0					1.783000000 G⊦
5.00					Start Fre
5.00					1.781000000 GH
15.0 1					Stop Fre
25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	MAJARAHARA MANAGANA MANANA				1.785000000 GH
35.0	and a second	pulling and pressing the second second	Harnoldzentherappen and the second a	and any other than the first of the standy with the party of the stand of the standy o	CF Ste 400.000 ki
45.0					Auto Ma
56.0					Freq Offs
55.0					
					Scale Typ
Center 1.783000 GHz Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep 2	Span 4.000 MHz 2.000 ms (1001 pts)	Log <u>L</u>
SG			STATUS	;	

Plot 7-150. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 111 of 169
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Fage 111 01 109
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Mada	Bandwidth	Channel	Test Case	Level	Limit	Margin
Mode	Mode Bandwidth		Channel Test Case		[dBm]	[dB]
		Low	Band Edge	-29.63	-13	-16.63
	10 MHz	Low	Band Edge (B17)	-29.45	-12	-17.45
		High	Band Edge	-28.79	-13	-15.79
		Low	Band Edge	-21.75	-13	-8.75
LTE Band 12/17	5 MHz	Low	Band Edge (B17)	-22.30	-12	-10.30
LIE Dallu 12/17		High	Band Edge	-21.74	-13	-8.74
	3 MHz	Low	Band Edge	-17.42	-13	-4.42
		High	Band Edge	-16.38	-13	-3.38
	1.4 MHz	Low	Band Edge	-24.94	-13	-11.94
		High	Band Edge	-25.65	-13	-12.65
	10 MHz	Low	Band Edge	-28.47	-13	-15.47
		Low	Emission Mask	-63.94	-13	-50.94
		High	Band Edge	-25.60	-13	-12.60
LTE Band 13		High	Emission Mask	-45.12	-13	-32.12
		Low	Band Edge	-21.11	-13	-8.11
	5 MHz	Low	Emission Mask	-60.14	-13	-47.14
		High	Band Edge	-20.11	-13	-7.11
		High	EmMask	-54.39	-13	-41.39

Table 7-21. Conducted Band Edge Results – Ant2

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 112 of 169	
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Fage 112 01 109	
© 2024 ELEMENT	•		V11.1 08/28/2023	



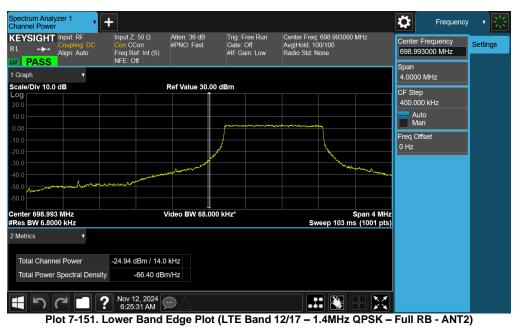
Mada	D an shui shik	0	Test	Level	Limit	Margin
Mode	Bandwidth	Channel	Test Case	[dBm]	[dBm]	[dB]
		Low	Band Edge	-21.96	-13	-8.96
		Low High (B4)	Extended Band Edge	-20.18 -17.83	-13 -13	-7.18 -4.83
	20MHz	High (B4)	Extended	-15.60	-13	-2.60
		High (B66)	Band Edge	-24.41	-13	-11.41
		High (B66)	Extended	-23.67	-13	-10.67
		Low	Band Edge	-20.90	-13	-7.90
		Low	Extended	-19.09	-13	-6.09
	15MHz	High (B4)	Band Edge	-16.80	-13 -13	-3.80
		High (B4) High (B66)	Extended Band Edge	-14.93 -25.21	-13	-1.93 -12.21
		High (B66)	Extended	-23.06	-13	-10.06
		Low	Band Edge	-19.50	-13	-6.50
		Low	Extended	-15.53	-13	-2.53
	10MHz	High (B4)	Band Edge	-17.61	-13	-4.61
		High (B4)	Extended	-14.16	-13	-1.16
		High (B66)	Band Edge	-21.18	-13	-8.18
LTE Band 66/4		High (B66) Low	Extended Band Edge	-20.87 -16.89	-13 -13	-7.87 -3.89
		Low	Band Edge Extended	-21.37	-13	-8.37
		High (B4)	Band Edge	-16.59	-13	-3.59
	5MHz	High (B4)	Extended	-14.02	-13	-1.02
		High (B66)	Band Edge	-20.63	-13	-7.63
		High (B66)	Extended	-19.06	-13	-6.06
		Low	Band Edge	-14.66	-13	-1.66
		Low	Extended	-20.94	-13	-7.94
	3MHz	High (B4)	Band Edge	-16.77	-13	-3.77
	*****	High (B4)	Extended	-14.07	-13	-1.07
		High (B66)	Band Edge	-20.74	-13	-7.74
		High (B66) Low	Extended	-18.22	-13	-5.22
	1.4MHz	Low	Band Edge Extended	-16.69 -28.05	-13 -13	-3.69 -15.05
		High (B4)	Band Edge	-17.66	-13	-4.66
		High (B4)	Extended	-31.04	-13	-18.04
		High (B66)	Band Edge	-20.19	-13	-7.19
		High (B66)	Extended	-33.30	-13	-20.30
				Laval	Limit	Morgin
Mode	Bandwidth	Channel	Test Case	Level		Margin
Mode	Bandwidth	Channel	Test Case	[dBm]	[dBm]	[dB]
Mode	Bandwidth	Low	Band Edge	[dBm] -29.89	[ <b>dBm]</b> -13	[dB] -16.89
Mode	Bandwidth 45 MHz	Low Low	Band Edge Extended	[dBm] -29.89 -31.44	[dBm] -13 -13	[dB] -16.89 -18.44
Mode		Low Low High	Band Edge Extended Band Edge	[dBm] -29.89 -31.44 -32.92	[dBm] -13 -13 -13	[dB] -16.89 -18.44 -19.92
Mode		Low Low High High	Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49	[dBm] -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49
Mode	45 MHz	Low Low High	Band Edge Extended Band Edge	[dBm] -29.89 -31.44 -32.92	[dBm] -13 -13 -13	[dB] -16.89 -18.44 -19.92
Mode		Low Low High High Low	Band Edge Extended Band Edge Extended Band Edge	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69	[dBm] -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69
Mode	45 MHz	Low Low High High Low Low	Band Edge Extended Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25	[dBm] -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25
Mode	45 MHz	Low Low High Low Low High High Low	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -24.99 -33.25 -30.25	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -11.99 -20.25 -17.25
Mode	45 MHz	Low Low High Low Low High High Low Low	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -24.99 -33.25 -30.25 -30.82	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -11.99 -20.25 -17.25 -17.82
Mode	45 MHz 40 MHz	Low Low High High Low High Low Low Low High	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -24.99 -33.25 -30.25 -30.82 -30.82 -34.01	(dBm) -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -11.99 -20.25 -17.25 -17.82 -21.01
Mode	45 MHz 40 MHz	Low Low High High Low Low High Low Low High High High	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -24.99 -33.25 -30.82 -30.82 -30.82 -34.01 -33.48	(dBm)           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -11.99           -20.25           -17.25           -17.25           -21.01           -20.48
Mode	45 MHz 40 MHz 35 MHz	Low Low High Low Low High High Low High High High Low	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -30.25 -30.25 -30.82 -30.82 -33.401 -33.48 -30.38	(dBm)           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.82           -20.01           -20.48           -17.38
Mode	45 MHz 40 MHz	Low High High Low Low High Low High High Low Low	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -24.99 -33.25 -30.25 -30.25 -30.25 -30.25 -30.25 -30.25 -33.48 -33.48 -33.48 -30.38	[dBm] -13 -13 -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -17.25 -17.25 -17.25 -17.25 -17.25 -21.01 -20.48 -17.38 -17.70
Mode	45 MHz 40 MHz 35 MHz	Low High High Low Low High Low High Low High Low Low Low High	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -30.25 -30.25 -30.25 -30.25 -30.25 -30.25 -30.82 -34.01 -33.48 -30.38 -30.38	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.32           -20.48           -21.01           -20.48           -17.38           -17.38           -17.70
Mode	45 MHz 40 MHz 35 MHz	Low High High Low Low High Low High High Low Low	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -24.99 -33.25 -30.25 -30.25 -30.25 -30.25 -30.25 -30.25 -33.48 -33.48 -33.48 -30.38	[dBm] -13 -13 -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -17.25 -17.25 -17.25 -17.25 -17.25 -21.01 -20.48 -17.38 -17.70
	45 MHz 40 MHz 35 MHz 30 MHz	Low High High Low Low High High Low High High High High High	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.382           -34.01           -33.48           -30.70           -29.13           -33.01	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -11.99 -20.25 -17.25 -17.25 -17.25 -17.25 -17.82 -21.01 -20.48 -17.38 -17.70 -6.13 -20.01
Mode NR Band n66	45 MHz 40 MHz 35 MHz	Low High High Low Low High High Low High High Low High High High High	Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -30.25 -30.25 -30.25 -30.25 -30.25 -34.01 -33.48 -30.38 -30.70 -29.13 -33.01 -33.10	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -17.25 -17.25 -17.25 -17.25 -21.01 -20.48 -17.70 -16.13 -20.01 -20.01 -20.10
	45 MHz 40 MHz 35 MHz 30 MHz	Low High High Low High Low Low Low High High Low Low High High Low Low Low	Band Edge Extended Band Edge Extended	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -30.25 -30.82 -34.01 -33.48 -30.38 -30.38 -30.38 -30.70 -29.13 -33.10 -33.10 -33.10	[dBm]           -13	[dB] -16.89 -18.49 -19.92 -22.49 -14.69 -17.25 -11.99 -20.25 -17.25 -17.82 -21.01 -20.48 -17.38 -17.38 -17.70 -16.13 -20.10 -20.10 -20.10
	45 MHz 40 MHz 35 MHz 30 MHz	Low High High Low Low High Low Low High High Low Low High High High Low Low	Band Edge Extended Band Edge	[dBm] -29.89 -31.44 -32.92 -35.49 -27.69 -30.25 -30.25 -30.25 -30.25 -30.25 -30.25 -30.25 -33.48 -33.48 -33.48 -33.48 -33.48 -33.48 -33.10 -33.10 -35.86 -35.86 -35.86 -35.86 -35.86	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.49 -19.92 -22.49 -14.69 -17.25 -17.25 -17.25 -17.25 -17.25 -17.82 -20.14 -20.48 -17.38 -17.70 -16.13 -20.10 -20.10 -20.10 -22.86 -22.86 -22.86 -18.36
	45 MHz 40 MHz 35 MHz 30 MHz	Low Low High Low High Low Low Low High Low Low High High Low High High Low Low High High Low Low	Band Edge Extended Band Edge Extended	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.82           -33.48           -30.38           -30.70           -29.11           -33.10           -33.10           -33.10           -35.86           -31.36           -26.89	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -17.25 -17.25 -17.25 -17.25 -17.82 -21.01 -20.48 -17.38 -17.70 -16.13 -20.01 -20.10 -20.10 -20.10 -22.86 -18.36 -18.36 -13.89
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz	Low High High Low High Low Low High High Low High High Low Low High High Low Low High	Band Edge Extended Band Edge	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.21           -33.40           -29.13           -33.10           -35.86           -35.86           -35.86           -32.08	[dBm] -13 -13 -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -17.25 -17.25 -17.25 -17.82 -20.25 -17.25 -17.82 -20.48 -17.88 -17.88 -17.70 -20.10 -20.10 -20.10 -20.10 -22.86 -22.86 -13.89 -13.81 -13.
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz	Low High High Low High High Low Low High High Low High High Low High High High High High High High	Band Edge Extended Band Edge Extended	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.31           -33.401           -33.41           -33.10           -33.10           -35.86           -35.86           -35.86           -35.86           -32.08           -30.03	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB]           -16.89           -18.84           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.82           -20.48           -17.38           -17.01           -20.101           -20.10           -22.86           -18.36           -13.89           -19.08           -17.03
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz	Low High High Low Low High Low Low High High Low Low High High Low Low High High High Low Low	Band Edge Extended Band Edge	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.31           -33.40           -30.38           -30.70           -29.13           -33.10           -33.10           -35.86           -35.86           -35.86           -35.86           -35.86           -35.86           -35.86           -30.03           -31.36           -26.89           -30.03           -30.03           -31.47	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.28           -20.01           -20.01           -20.10           -20.10           -22.86           -18.36           -17.08           -19.08           -17.08           -18.36           -17.03           -18.47
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz	Low Low High High Low High Low Low High Low Low Low High High Low Low High High High Low Low High High Low Low Low	Band Edge Extended Band Edge Extended	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.82           -30.82           -30.82           -30.83           -30.82           -33.10           -33.10           -35.86           -31.36           -32.08           -30.03           -30.03	[dBm] -13 -13 -13 -13 -13 -13 -13 -13 -13 -13	[dB] -16.89 -18.44 -19.92 -22.49 -14.69 -17.25 -17.25 -17.25 -17.25 -17.25 -21.01 -20.48 -17.38 -17.38 -17.70 -16.13 -20.01 -20.10 -20.10 -20.10 -22.86 -13.89 -19.908 -17.03 -18.47 -18.87 -18.77 -10.78
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz	Low High High Low High Low High Low Low High High Low Low High High Low Low High High Low Low High	Band Edge Extended Band Edge	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.21           -33.40           -33.10           -33.10           -33.10           -35.86           -35.86           -35.86           -32.08           -30.03           -31.47           -23.78           -35.65	[dBm]           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.82           -20.48           -17.70           -20.48           -17.70           -16.13           -20.01           -22.86           -13.89           -19.08           -17.03           -18.47           -10.78           -22.65
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz	Low High High Low High High Low Low High High Low High High Low High High High Low High High High High High High High High	Band Edge Extended Band Edge Extended	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.21           -33.40           -33.41           -33.10           -35.86           -35.86           -35.86           -35.86           -35.86           -35.86           -31.36           -26.89           -30.03           -31.47           -23.78           -35.65           -26.89	[dBm] -13 -13 -13 -13 -13 -13 -13 -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.82           -20.48           -17.38           -17.70           -16.13           -20.10           -22.86           -18.36           -13.89           -19.08           -17.03           -18.47           -10.78           -22.65           -13.89
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low High Low High Low Low High High Low Low High High Low Low High High Low Low High	Band Edge Extended Band Edge	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.21           -33.40           -33.10           -33.10           -33.10           -35.86           -35.86           -35.86           -32.08           -30.03           -31.47           -23.78           -35.65	[dBm]           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.20           -20.48           -17.70           -20.48           -17.70           -61.13           -20.01           -20.10           -20.10           -22.86           -13.89           -19.08           -17.03           -18.47           -10.78           -22.65
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz	Low High High Low Low High Low Low High High Low Low High High Low High High Low High High Low High High Low	Band Edge Extended Band Edge	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.02           -34.01           -33.40           -29.13           -30.01           -33.10           -33.10           -35.86           -35.86           -35.86           -35.86           -35.86           -35.86           -35.86           -32.08           -30.03           -31.47           -22.89           -32.08           -30.03           -31.47           -23.86           -35.86           -35.86           -32.08           -30.03           -31.47           -23	[dBm]           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.25           -17.38           -17.38           -20.01           -20.10           -20.10           -22.86           -18.36           -17.03           -18.47           -10.78           -22.86           -18.36           -17.03           -18.47           -10.78           -22.86           -18.36           -17.03           -18.47           -10.78           -22.86           -13.89           -14.95
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low High Low High Low Low Low Low High High Low Low High High Low Low High High High Low Low High High Low Low Low Low Low	Band Edge Extended Band Edge Extended	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.26           -30.27           -33.10           -33.10           -33.10           -35.86           -31.36           -36.89           -32.08           -30.147           -31.47           -23.78           -35.65           -26.89           -27.95           -19.69	[dBm]           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.82           -20.048           -17.82           -17.82           -20.01           -20.48           -17.70           -16.13           -20.010           -22.86           -28.86           -13.89           -19.08           -17.703           -18.47           -10.78           -22.65           -13.89           -14.95           -6.69
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low Low High High Low Low High High Low Low High High Low Low High High Low High High Low High High Low High High	Band Edge Extended Band Edge	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.38           -30.38           -30.38           -30.310           -33.10           -33.10           -35.86           -31.36           -26.89           -30.03           -31.47           -23.78           -30.03           -31.47           -26.89           -27.95           -19.69           -31.35           -26.89           -27.95           -19.69           -31.35           -22.45           -25.68	[dBm]           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.82           -21.01           -20.48           -17.70           -16.13           -20.10           -20.10           -20.10           -20.10           -20.10           -22.86           -18.36           -13.89           -19.08           -17.70           -16.13           -20.10           -22.86           -13.89           -19.08           -17.70           -16.13           -10.78           -22.86           -13.89           -10.78           -22.65           -13.89           -14.95           -6.69           -18.35           -9.45           -12.68
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz 10 MHz	Low High High Low High Low High Low High Low High Low Low High High Low Low High High Low Low High High Low High High Low Low High High Low Low Low Low High	Band Edge Extended Band Edge Extended	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -33.10           -33.10           -33.10           -33.10           -35.86           -31.36           -26.89           -32.08           -30.03           -31.47           -27.95           -19.69           -31.35           -22.48           -25.68           -14.76	[dBm]           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.84           -17.25           -17.83           -17.70           -16.13           -20.01           -22.86           -28.86           -13.89           -19.08           -17.03           -18.47           -10.78           -22.65           -13.89           -14.95           -6.69           -14.85           -9.45           -12.68           -12.68
	45 MHz 40 MHz 35 MHz 30 MHz 25 MHz 20 MHz 15 MHz	Low High High Low Low High High Low Low High High Low Low High High Low Low High High Low High High Low High High Low High High	Band Edge Extended Band Edge	[dBm]           -29.89           -31.44           -32.92           -35.49           -27.69           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.25           -30.38           -30.38           -30.38           -30.310           -33.10           -33.10           -35.86           -31.36           -26.89           -30.03           -31.47           -23.78           -30.03           -31.47           -26.89           -27.95           -19.69           -31.35           -26.89           -27.95           -19.69           -31.35           -22.45           -25.68	[dBm]           -13	[dB]           -16.89           -18.44           -19.92           -22.49           -14.69           -17.25           -17.25           -17.25           -17.25           -17.25           -17.82           -21.01           -20.48           -17.70           -16.13           -20.10           -20.10           -20.10           -20.10           -20.10           -22.86           -18.36           -13.89           -19.08           -17.70           -16.13           -20.10           -22.86           -13.89           -19.08           -17.70           -16.13           -10.78           -22.86           -13.89           -10.78           -22.65           -13.89           -14.95           -6.69           -18.35           -9.45           -12.68

 Table 7-22. Conducted Band Edge Results – Ant2

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dego 112 of 160		
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 113 of 169		
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# LTE Band 12/17 – ANT2





Plot 7-152. Upper Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB - ANT2)

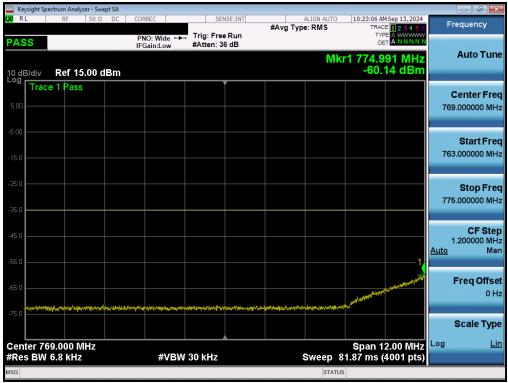
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 114 of 169		
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset			
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# LTE Band 13 – ANT2



Plot 7-153. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT2)



Plot 7-154. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT2)

FCC ID: A3LSMS938B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 115 of 169
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Fage 115 01 109
© 2024 ELEMENT	V11.1 08/28/2023		



🚾 Keysight Spectrum Analyzer - Swept SA 🚽					
🗶 RL RF 50Ω DC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	10:23:26 AM Sep 13, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS		rig: Free Run Atten: 36 dB			Auto Tune
10 dB/div Ref 25.00 dBm			Mkı	1 787.012 MHz -20.11 dBm	Auto Tune
Log Trace 1 Pass		Ĭ			Center Fred
15.0					787.000000 MH;
Anaratan and Antiparation of the second second second	man warman and any	<u></u>			
5.55					Start Free
-5.00					785.000000 MH;
-15.0					Stop Free
-25.0		ML WWW.			789.000000 MH:
-20.0		"WILL BOUND	homound grand and a second		05.04
-35.0			and the second second	aller ykkenethenske Martin Bryging in yn artificydau	CF Ster 400.000 kH
-45.0					<u>Auto</u> Mar
					Freq Offse
-55.0					0 H:
-65.0					Scale Type
Center 787.000 MHz #Res BW 100 kHz	#VBW 30	00 kHz	Sweep 6	Span 4.000 MHz .667 ms (1001 pts)	
MSG			STATUS		

Plot 7-155. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT2)



Plot 7-156. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT2)

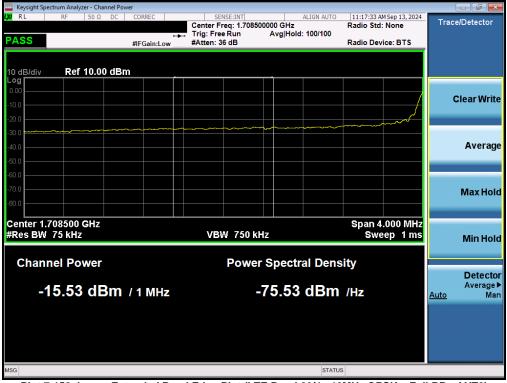
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 116 of 169		
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset			
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# LTE Band 66/4 – ANT2



Plot 7-157. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - ANT2)



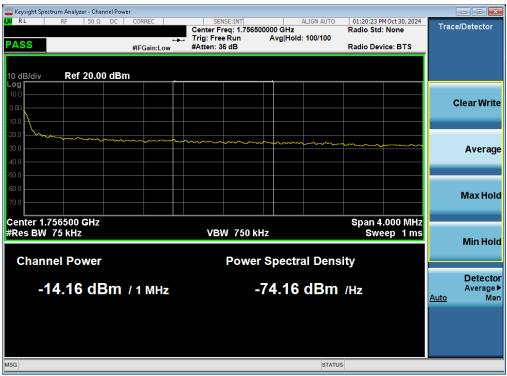
Plot 7-158. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - ANT2)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 117 of 160		
1M2408260069-06.A3L	09/06/2024 - 11/12/2024	Portable Handset	Page 117 of 169		
© 2024 ELEMENT		·	V11 1 08/28/2023		





Plot 7-159. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - ANT2)



Plot 7-160. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 118 of 169		
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Plot 7-161. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK - Full RB - ANT2)



Plot 7-162. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK - Full RB - ANT2)

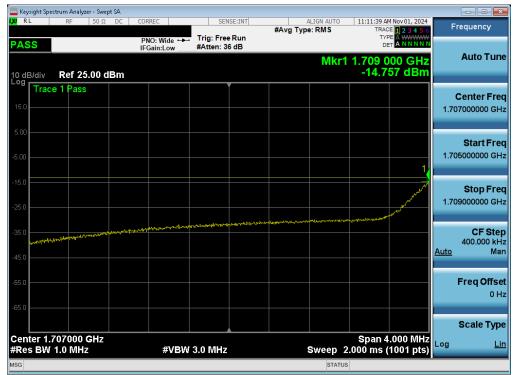
FCC ID: A3LSMS938B		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 119 of 169	
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## NR Band n66 – ANT2



Plot 7-163. Lower Band Edge Plot (NR Band n66 - 5.0MHz - Full RB - ANT2)



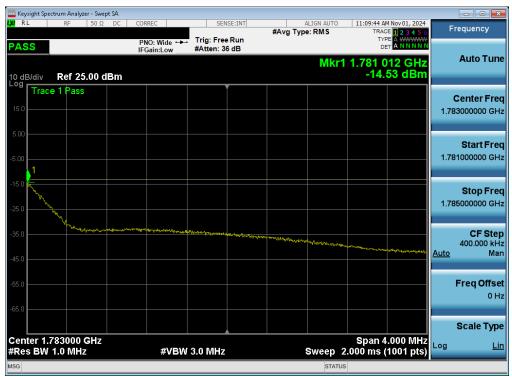
Plot 7-164. Lower Extended Band Edge Plot (NR Band n66 - 5.0MHz - Full RB - ANT2)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
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Keysight Spectrur											-   •   •
X/RL	RF 50 Ω	DC C	ORREC	SEN	ISE:INT	#Avg Ty	ALIGN AUTO		M Nov 01, 2024	Fred	luency
PASS			PNO: Wide ↔ IFGain:Low	Trig: Free #Atten: 3				TY			
10 dB/div R	ef 25.00 d	lBm					Mkr1	1.780 01: -26.	2 5 GHz 28 dBm	A	uto Tune
Trace 1	Pass									Ce	nter Fred
15.0										1.7800	00000 GH
5.00	Innow	$\sim$	<u> </u>	mm							Start Fre 50000 G⊢
15.0										1.7737	50000 GF
25.0	}			Ļ	1						<b>Stop Fre</b> 50000 G⊦
35.0	)										CF Ste
45.0					h.	mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			1.2 <u>Auto</u>	50000 MH Ma
55.0					m			my m	www.	Fr	eq Offse
65.0											0 H
											cale Typ
enter 1.780 Res BW 62			#VBW	/ 220 kHz			Sweep	Span 1 1.400 ms (	2.50 MHz (1001 pts)	Log	Li
SG							STATL				

Plot 7-165. Upper Band Edge Plot (NR Band n66 - 5.0MHz - Full RB - ANT2)



Plot 7-166. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT2)

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
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## 7.6 Peak-Average Ratio

#### Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

#### Test Procedure Used

ANSI C63.26-2015 - Section 5.2.3.4

#### Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

#### Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

#### Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
WCDMA-AWS	5MHz	GMSK	22.94	3.16	13	-9.84
	20141-	QPSK	22.48	4.62	13	-8.38
	20MHz	256QAM	18.47	6.72	13	-6.28
	15MHz	QPSK	22.74	4.58	13	-8.42
_		256QAM	18.83	6.66	13	-6.34
	10MHz	QPSK	22.86	4.67	13	-8.33
LTE-B66-4		256QAM	18.90	6.74	13	-6.26
L1E-D00-4	5MHz	QPSK	22.90	4.79	13	-8.21
		256QAM	18.96	6.70	13	-6.30
-	3MHz	QPSK	22.86	4.76	13	-8.24
		256QAM	18.94	6.76	13	-6.24
	1.4MHz	QPSK	22.78	4.67	13	-8.33
	1.4101⊓∠	256QAM	18.87	6.77	13	-6.23

Table 7-23. Peak-Average Ratio Results – Ant1

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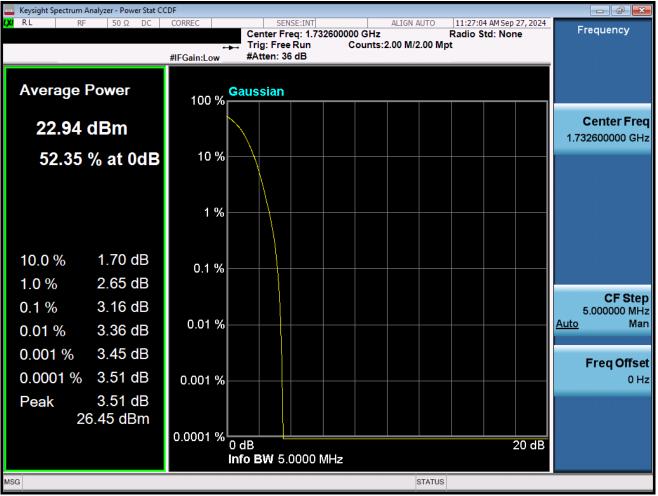
Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
	45MHz	π/2 BPSK	22.20	4.59	13	-8.41
		QPSK	19.58	7.78	13	-5.22
		256QAM	16.15	8.48	13	-4.52
		π/2 BPSK	22.18	4.70	13	-8.30
	40MHz	QPSK	19.61	7.51	13	-5.49
		256QAM	16.06	8.58	13	-4.42
		π/2 BPSK	22.02	4.62	13	-8.38
	35MHz	QPSK	19.54	7.70	13	-5.30
		256QAM	16.08	8.57	13	-4.43
		π/2 BPSK	21.97	4.09	13	-8.91
	30MHz	QPSK	19.47	7.84	13	-5.16
		256QAM	16.01	8.57	13	-4.43
	25MHz	π/2 BPSK	22.08	4.38	13	-8.62
NR-n66		QPSK	19.69	7.80	13	-5.20
		256QAM	16.09	9.96	13	-3.04
	20MHz	π/2 BPSK	22.08	4.11	13	-8.89
		QPSK	19.57	8.01	13	-4.99
		256QAM	16.01	8.61	13	-4.39
		π/2 BPSK	22.00	4.24	13	-8.76
	15MHz	QPSK	19.65	7.69	13	-5.31
		256QAM	16.02	8.53	13	-4.47
		π/2 BPSK	22.10	4.08	13	-8.92
	10MHz	QPSK	19.60	7.69	13	-5.31
		256QAM	16.08	8.84	13	-4.16
		π/2 BPSK	22.03	4.22	13	-8.78
	5MHz	QPSK	19.64	8.06	13	-4.94
		256QAM 7-24. Peak-Averag	16.05	8.55	13	-4.45

Table 7-24. Peak-Average Ratio Results – Ant1

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## WCDMA AWS – ANT1

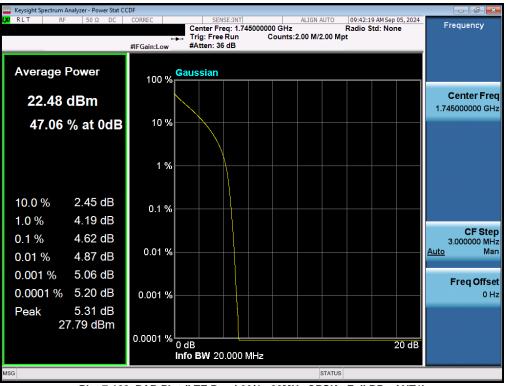


Plot 7-167. PAR Plot (WCDMA, Ch. 1413 - ANT1)

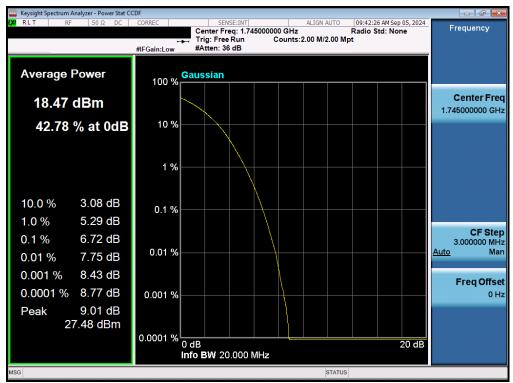
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	
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## LTE Band 66/4 – ANT1



Plot 7-168. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT1)

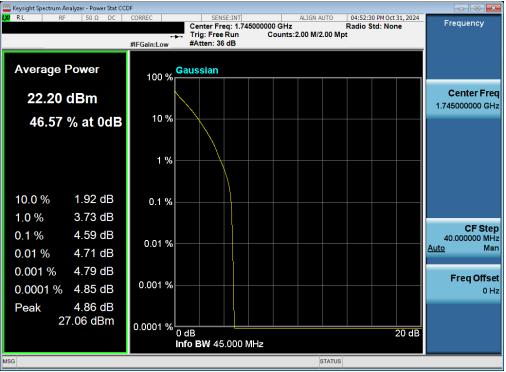


Plot 7-169. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT1)

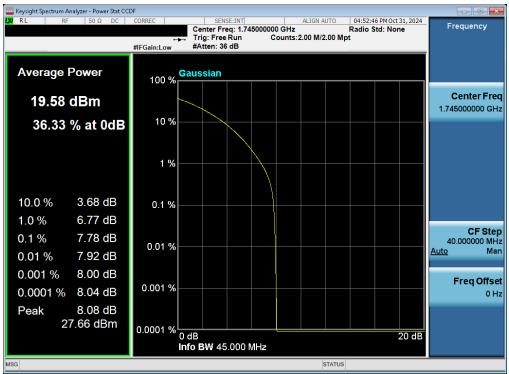
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT		<b>Approved by:</b> Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	D	ana 106 at 160
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## NR Band n66 – ANT1



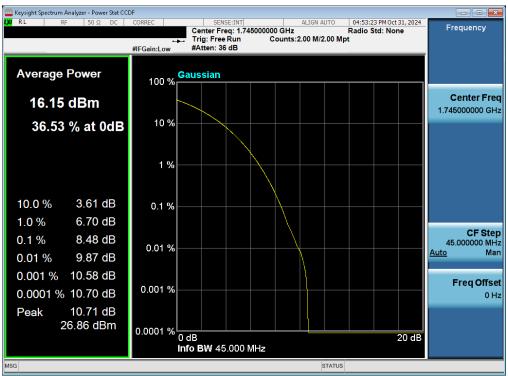
Plot 7-170. PAR Plot (NR Band n66 - 45.0MHz DFT-s-OFDM π/2 BPSK- Full RB - ANT1)



Plot 7-171. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM QPSK - Full RB - ANT1)

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Plot 7-172. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

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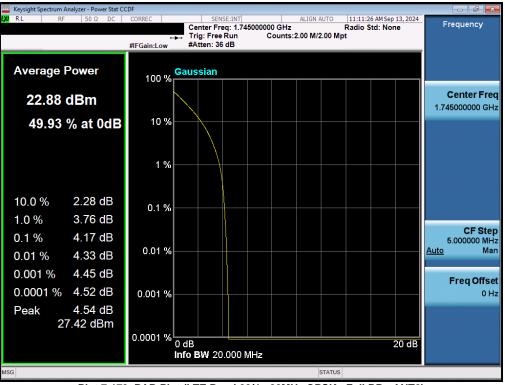
Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
	20MHz	QPSK	22.88	4.17	13	-8.83
- - LTE-B66-4	2010162	256QAM	18.92	6.33	13	-6.67
	15MHz	QPSK	22.90	4.14	13	-8.86
	TOIVITIZ	256QAM	18.91	6.34	13	-6.66
	10MHz	QPSK	22.96	4.21	13	-8.79
		256QAM	18.95	6.35	13	-6.65
	5MHz	QPSK	23.01	4.13	13	-8.87
	SIVILIZ	256QAM	19.01	6.33	13	-6.67
-	3MHz	QPSK	23.04	4.04	13	-8.96
	510112	256QAM	18.74	7.50	13	-5.50
	1.4MHz	QPSK	22.98	3.96	13	-9.04
	1.4101112	256QAM	18.95	6.35	13	-6.65
		π/2 BPSK	21.81	4.37	13	-8.63
	45MHz	QPSK	19.29	8.01	13	-4.99
		256QAM	15.96	8.40	13	-4.61
	40MHz	π/2 BPSK	21.74	4.27	13	-8.73
		QPSK	19.28	7.71	13	-5.29
		256QAM	15.93	8.49	13	-4.51
		π/2 BPSK	21.69	4.25	13	-8.75
	35MHz	QPSK	19.20	7.77	13	-5.23
		256QAM	15.93	8.45	13	-4.55
	30MHz	π/2 BPSK	21.71	4.20	13	-8.80
		QPSK	19.13	7.82	13	-5.18
		256QAM	15.93	8.47	13	-4.53
		π/2 BPSK	21.76	4.46	13	-8.54
NR-n66	25MHz	QPSK	19.36	7.77	13	-5.23
		256QAM	16.00	8.75	13	-4.25
		π/2 BPSK	21.84	21.84	13	8.84
	20MHz	QPSK	19.32	7.75	13	-5.25
		256QAM	16.03	8.52	13	-4.48
		π/2 BPSK	21.77	4.24	13	-8.76
	15MHz	QPSK	19.29	7.67	13	-5.33
		256QAM	15.90	8.43	13	-4.57
		π/2 BPSK	21.85	4.06	13	-8.94
	10MHz	QPSK	19.41	7.53	13	-5.47
		256QAM	15.99	8.72	13	-4.28
		π/2 BPSK	21.84	4.20	13	-8.80
	5MHz	QPSK	19.42	7.76	13	-5.24
	Table 7.2	256QAM	16.06	8.47	13	-4.53

Table 7-25. Peak-Average Ratio Results – Ant2

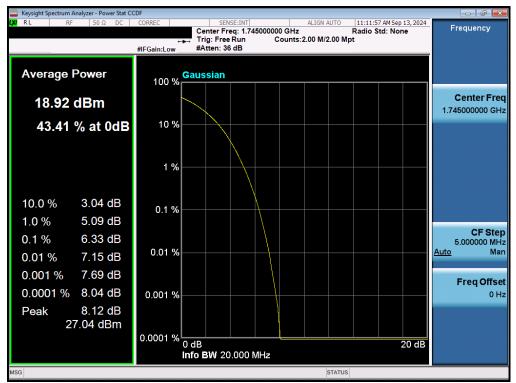
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## LTE Band 66/4 – ANT2



Plot 7-173. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT2)

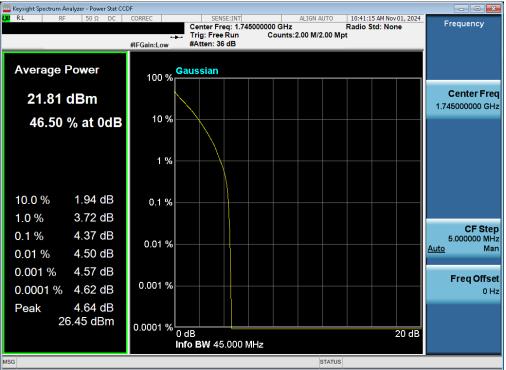


Plot 7-174. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT2)

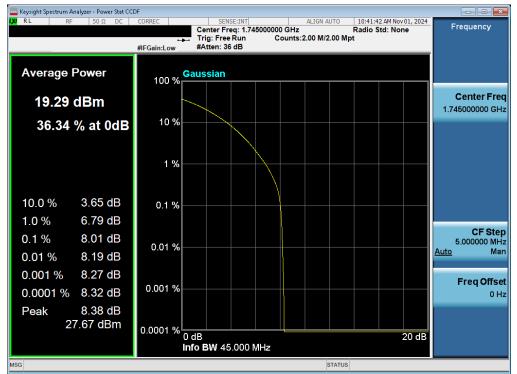
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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### NR Band n66 – ANT2



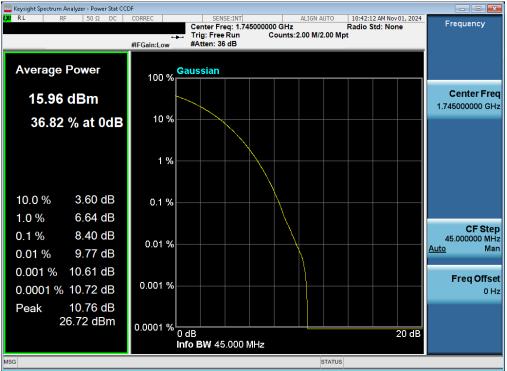
Plot 7-175. PAR Plot (NR Band n66 - 45.0MHz DFT-s-OFDM π/2 BPSK- Full RB - ANT2)



Plot 7-176. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM QPSK - Full RB - ANT2)

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Plot 7-177. PAR Plot (NR Band n66 - 45.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

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# 7.7 Radiated Power (ERP/EIRP)

### Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) 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.
- 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  $\geq 2 \times \text{span} / \text{RBW}$
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize

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### Test Setup

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

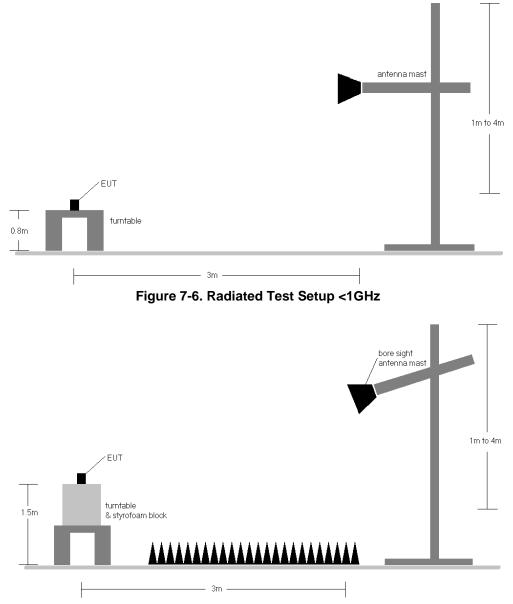


Figure 7-7. Radiated Test Setup >1GHz

### Test Notes

- 1) 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.
- 2) 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.

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT					
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- 3) This unit was tested with its standard battery.
- <sup>4)</sup> 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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Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	V	157	325	20.12	2.88	23.00	0.200	30.00	-7.00
1732.60	WCDMA1700	V	149	332	20.02	2.92	22.94	0.197	30.00	-7.06
1752.60	WCDMA1700	V	142	323	20.38	2.96	23.34	0.216	30.00	-6.66
1752.60	WCDMA1700	Н	137	354	18.37	2.83	21.20	0.132	30.00	-8.80
1752.60	WCDMA1700 (WCP)	V	290	127	8.52	2.96	11.48	0.014	30.00	-18.52

Table 7-26. EIRP Data (WCDMA AWS) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
N	QPSK	704.00	V	Х	260	176	1.12	1 / 49	19.89	21.01	0.126	36.99	-15.98	18.86	0.077	34.77	-15.91
MHz	QPSK	707.50	V	Х	107	172	1.14	1 / 49	20.19	21.33	0.136	36.99	-15.65	19.18	0.083	34.77	-15.59
•	QPSK	711.00	V	Х	260	176	1.17	1 / 49	20.31	21.48	0.141	36.99	-15.51	19.33	0.086	34.77	-15.44
-	16-QAM	711.00	V	Х	260	176	1.17	1 / 49	19.54	20.71	0.118	36.99	-16.28	18.56	0.072	34.77	-16.21
ы	QPSK	701.50	V	Х	260	176	1.10	1 / 12	20.15	21.25	0.133	36.99	-15.74	19.10	0.081	34.77	-15.67
MHz	QPSK	707.50	V	Х	107	172	1.14	1/0	20.43	21.57	0.144	36.99	-15.42	19.42	0.088	34.77	-15.35
2	QPSK	713.50	V	Х	260	176	1.19	1 / 24	20.26	21.45	0.140	36.99	-15.54	19.30	0.085	34.77	-15.47
-,	16-QAM	713.50	V	Х	260	176	1.19	1 / 24	19.55	20.74	0.119	36.99	-16.25	18.59	0.072	34.77	-16.18
N	QPSK	700.50	V	Х	260	176	1.09	1/7	20.06	21.15	0.130	36.99	-15.84	19.00	0.079	34.77	-15.77
MHz	QPSK	707.50	V	Х	107	172	1.14	1/7	20.23	21.37	0.137	36.99	-15.62	19.22	0.084	34.77	-15.55
≥ e	QPSK	714.50	V	Х	260	176	1.20	1/7	20.01	21.21	0.132	36.99	-15.78	19.06	0.081	34.77	-15.71
	16-QAM	714.50	V	Х	260	176	1.20	1/7	19.63	20.83	0.121	36.99	-16.16	18.68	0.074	34.77	-16.09
₽	QPSK	699.70	V	Х	260	176	1.08	1/5	19.90	20.98	0.125	36.99	-16.01	18.83	0.076	34.77	-15.94
±	QPSK	707.50	V	Х	107	172	1.14	1/5	20.25	21.40	0.138	36.99	-15.59	19.25	0.084	34.77	-15.52
4	QPSK	715.30	V	Х	260	176	1.21	1/5	20.20	21.41	0.138	36.99	-15.58	19.26	0.084	34.77	-15.51
- <del></del>	16-QAM	715.30	V	X	260	176	1.21	1/5	19.47	20.68	0.117	36.99	-16.31	18.53	0.071	34.77	-16.24
10 MHz	WCP	711.00	V	WCP	281	266	1.12	1 / 49	16.25	17.37	0.055	36.99	-19.62	15.22	0.033	34.77	-19.55

Table 7-27. ERP Data (LTE Band 12/17) - Ant1

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]
10 MHz	QPSK	782.00	V	155	127	0.89	1/0	19.04	17.78	0.060	34.77	-16.99
	16-QAM	782.00	V	155	127	0.89	1/0	18.39	17.13	0.052	34.77	-17.64
	QPSK	779.50	V	155	127	0.94	1 / 12	18.97	17.75	0.060	34.77	-17.02
5 MHz	QPSK	782.00	V	155	127	0.89	1 / 24	19.10	17.84	0.061	34.77	-16.93
JIMITZ	QPSK	784.50	V	155	127	0.85	1 / 12	19.06	17.75	0.060	34.77	-17.02
	16-QAM	779.50	V	155	127	0.94	1 / 12	18.38	17.16	0.052	34.77	-17.61
10 MHz	Opposite Pol.	782.00	Н	247	64	1.09	1/0	18.74	17.68	0.059	34.77	-17.10
	WCP	782.00	V	228	20	0.89	1/0	15.18	13.92	0.025	34.77	-20.85

Table 7-28. ERP Data (LTE Band 13) - Ant1

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 126 of 160
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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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
N	QPSK	1720.00	V	155	324	2.90	1 / 50	19.71	22.61	0.182	30.00	-7.39
Ŧ	QPSK	1745.00	V	142	333	2.94	1/0	19.31	22.25	0.168	30.00	-7.75
20 MHz	QPSK	1770.00	V	148	328	3.02	1 / 50	19.02	22.04	0.160	30.00	-7.96
5	16-QAM	1720.00	V	155	324	2.90	1 / 50	18.88	21.78	0.151	30.00	-8.22
N	QPSK	1717.50	V	155	324	2.89	1 / 37	20.19	23.08	0.203	30.00	-6.92
Ŧ	QPSK	1745.00	V	142	333	2.94	1 / 37	19.92	22.86	0.193	30.00	-7.14
5 MHz	QPSK	1772.50	V	148	328	3.03	1/0	18.88	21.91	0.155	30.00	-8.09
~	16-QAM	1717.50	V	155	324	2.89	1 / 37	19.45	22.34	0.171	30.00	-7.66
N	QPSK	1715.00	V	155	324	2.89	1 / 25	20.16	23.05	0.202	30.00	-6.95
Ŧ	QPSK	1745.00	V	142	333	2.94	1 / 49	19.83	22.77	0.189	30.00	-7.23
10 MHz	QPSK	1775.00	V	148	328	3.04	1/0	18.80	21.84	0.153	30.00	-8.16
-	16-QAM	1715.00	V	155	324	2.89	1/0	19.22	22.11	0.163	30.00	-7.89
N	QPSK	1712.50	V	155	324	2.88	1 / 24	20.17	23.05	0.202	30.00	-6.95
5 MHz	QPSK	1745.00	V	142	333	2.94	1 / 12	19.79	22.74	0.188	30.00	-7.26
2	QPSK	1777.50	V	148	328	3.05	1 / 0	18.88	21.92	0.156	30.00	-8.08
	16-QAM	1712.50	V	155	324	2.88	1/0	19.27	22.15	0.164	30.00	-7.85
N	QPSK	1711.50	V	155	324	2.88	1/7	20.25	23.13	0.206	30.00	-6.87
3 MHz	QPSK	1745.00	V	142	333	2.94	1/7	19.84	22.78	0.190	30.00	-7.22
2	QPSK	1778.50	V	148	328	3.05	1/7	18.80	21.85	0.153	30.00	-8.15
	16-QAM	1711.50	V	155	324	2.88	1/0	19.25	22.13	0.163	30.00	-7.87
N	QPSK	1710.70	V	155	324	2.88	1/0	20.16	23.04	0.201	30.00	-6.96
T T	QPSK	1745.00	V	142	333	2.94	1/3	19.72	22.66	0.184	30.00	-7.34
1.4 MHz	QPSK	1779.30	V	148	328	3.05	1/0	18.68	21.73	0.149	30.00	-8.27
-	16-QAM	1710.70	V	155	324	2.88	1/0	19.10	21.98	0.158	30.00	-8.02
20 MHz	Opposite Pol.	1720.00	Н	152	356	2.88	1 / 50	19.07	21.95	0.157	30.00	-8.05
20 10112	WCP	1720.00	V	146	203	2.90	1/0	5.17	8.07	0.006	30.00	-21.93

Table 7-29. EIRP Data (LTE Band 66/4) – Ant1

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 137 of 169
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	1732.50	V	Н	143	211	2.92	1 / 121	18.92	21.84	0.153	30.00	-8.16
	π/2 BPSK	1745.00	V	н	143	211	2.94	1 / 121	19.03	21.97	0.158	30.00	-8.03
	π/2 BPSK	1757.50	V	н	140	180	2.98	1/1	18.24	21.22	0.132	30.00	-8.78
45 MHz	QPSK	1732.50	V	Н	143	211	2.92	1 / 121	18.88	21.80	0.151	30.00	-8.20
	QPSK	1745.00	V	н	143	211	2.94	1 / 121	18.99	21.93	0.156	30.00	-8.07
	QPSK	1757.50	V V	н	140	180	2.98	1/1	18.17	21.15	0.130	30.00	-8.85
	16-QAM π/2 BPSK	1745.00 1730.00	V	H H	143 143	211 211	2.94	1 / 121 1 / 214	18.08 18.75	21.02 21.67	0.127	30.00 30.00	-8.98 -8.33
	π/2 BPSK	1730.00	V	н	143	211	2.92	1 / 214	18.85	21.07	0.147	30.00	-8.21
	π/2 BPSK	1745.00	V	н	143	180	2.94	1 / 214	18.15	21.79	0.130	30.00	-8.86
40 MHz	QPSK	1730.00	V	н	143	211	2.92	1 / 214	19.01	21.92	0.156	30.00	-8.08
40 10112	QPSK	1745.00	v	н	143	211	2.94	1/214	18.94	21.88	0.154	30.00	-8.12
	QPSK	1760.00	v	н	140	180	2.99	1 / 214	18.08	21.06	0.128	30.00	-8.94
	16-QAM	1745.00	V	Н	143	211	2.94	1 / 214	17.83	20.77	0.119	30.00	-9.23
	π/2 BPSK	1727.50	V	н	143	211	2.91	1/1	18.53	21.44	0.139	30.00	-8.56
	π/2 BPSK	1745.00	V	н	143	211	2.94	1 / 186	18.77	21.71	0.148	30.00	-8.29
	π/2 BPSK	1762.50	V	н	140	180	2.99	1 / 186	18.12	21.11	0.129	30.00	-8.89
35 MHz	QPSK	1727.50	V	н	143	211	2.91	1/1	18.71	21.62	0.145	30.00	-8.38
	QPSK	1745.00	V	Н	143	211	2.94	1 / 186	18.63	21.57	0.144	30.00	-8.43
	QPSK	1762.50	V	н	140	180	2.99	1 / 186	18.21	21.20	0.132	30.00	-8.80
	16-QAM	1745.00	V	Н	143	211	2.94	1 / 186	18.37	21.31	0.135	30.00	-8.69
	π/2 BPSK	1725.00	V	н	143	211	2.91	1/1	18.82	21.73	0.149	30.00	-8.27
	π/2 BPSK	1745.00	V	н	143	211	2.94	1 / 158	18.95	21.89	0.155	30.00	-8.11
	π/2 BPSK	1765.00	V	Н	140	180	3.00	1 / 158	18.14	21.15	0.130	30.00	-8.85
30 MHz	QPSK	1725.00	V	н	143	211	2.91	1/1	18.95	21.86	0.153	30.00	-8.14
	QPSK	1745.00	V V	н	143 140	211	2.94	1 / 158	19.00	21.94	0.156	30.00	-8.06
	QPSK 16-QAM	1765.00 1725.00	V	H H	140	180 211	3.00 2.91	1 / 158 1 / 1	18.20 18.08	21.20 20.99	0.132	30.00 30.00	-8.80 -9.01
	π/2 BPSK	1723.00	V	Н	143	211	2.91	1/1	18.83	21.73	0.149	30.00	-9.01
	π/2 BPSK	1722.0	v	н	143	211	2.94	1 / 66	18.92	21.73	0.143	30.00	-8.13
	π/2 BPSK	1767.5	v	н	140	180	3.01	1/1	18.04	21.05	0.127	30.00	-8.95
25 MHz	QPSK	1722.5	v	Н	143	211	2.90	1/1	19.03	21.93	0.156	30.00	-8.07
	QPSK	1745.0	V	н	143	211	2.94	1 / 66	18.82	21.76	0.150	30.00	-8.24
	QPSK	1767.5	V	н	140	180	3.01	1/1	18.13	21.14	0.130	30.00	-8.86
	16-QAM	1722.5	V	Н	143	211	2.90	1/1	18.10	21.01	0.126	30.00	-8.99
	π/2 BPSK	1720.00	V	Н	143	211	2.90	1/1	18.77	21.67	0.147	30.00	-8.33
	π/2 BPSK	1745.00	V	н	143	211	2.94	1 / 104	18.86	21.80	0.152	30.00	-8.20
	π/2 BPSK	1770.00	V	н	140	180	3.02	1 / 104	18.10	21.12	0.129	30.00	-8.88
20 MHz	QPSK	1720.00	V	н	143	211	2.90	1/1	18.76	21.66	0.147	30.00	-8.34
	QPSK	1745.00	V	н	143	211	2.94	1 / 104	18.89	21.83	0.152	30.00	-8.17
	QPSK	1770.00	V	н	140	180	3.02	1 / 104	18.02	21.04	0.127	30.00	-8.96
	16-QAM	1720.00	V	н	143	211	2.90	1/1	18.23	21.13	0.130	30.00	-8.87
	π/2 BPSK π/2 BPSK	1717.50 1745.00	V V	H H	143 143	211 211	2.89 2.94	1/77 1/1	18.79 18.92	21.69 21.86	0.147	30.00 30.00	-8.31 -8.14
	π/2 BPSK	1745.00	V	н	143	180	3.03	1/39	18.92	21.86	0.153	30.00	-8.14
15 MHz	QPSK	1772.50	V	H	140	211	2.89	1/39	18.95	21.11	0.129	30.00	-8.89
	QPSK	1745.00	v	н	143	211	2.03	1/1	18.92	21.87	0.153	30.00	-8.13
	QPSK	1743.00	v	н	140	180	3.03	1/39	17.93	20.96	0.125	30.00	-9.04
	16-QAM	1717.50	V	н	143	211	2.89	1/77	18.27	21.16	0.120	30.00	-8.84
	π/2 BPSK	1715.00	V	Н	143	211	2.89	1 / 26	18.72	21.61	0.145	30.00	-8.39
	π/2 BPSK	1745.00	V	Н	143	211	2.94	1 / 26	18.80	21.74	0.149	30.00	-8.26
	π/2 BPSK	1775.00	V	н	140	180	3.04	1 / 50	17.90	20.94	0.124	30.00	-9.06
10 MHz	QPSK	1715.00	V	н	143	211	2.89	1 / 26	18.73	21.62	0.145	30.00	-8.38
	QPSK	1745.00	V	Н	143	211	2.94	1 / 26	18.71	21.65	0.146	30.00	-8.35
	QPSK	1775.00	V	н	140	180	3.04	1 / 50	17.98	21.02	0.126	30.00	-8.98
	16-QAM	1745.00	V	н	143	211	2.94	1 / 26	17.65	20.59	0.115	30.00	-9.41
	π/2 BPSK	1712.50	V	Н	143	211	2.88	1 / 23	18.85	21.73	0.149	30.00	-8.27
	π/2 BPSK	1745.00	V	н	143	211	2.94	1/1	18.68	21.63	0.145	30.00	-8.37
5 MHz	π/2 BPSK	1777.50	V	Н	140	180	3.05	1 / 12	18.03	21.08	0.128	30.00	-8.92
	QPSK	1745.00	V	н	143	211	2.94	1/1	18.72	21.66	0.147	30.00	-8.34
	16-QAM	1712.50	V	н	143	211	2.88	1/23	18.02	20.90	0.123	30.00	-9.10
45 MHz	QPSK (CP-OFDM) QPSK (WCP)	1745.00	V	H	140	180	2.92	1 / 121	16.78	19.70	0.093	30.00	-10.30
	QPSK (WCP)	1745.00	V	WCP	143	211	2.92	1 / 121	18.76	21.68	0.147	30.00	-8.32

Table 7-30. EIRP Data (NR Band n66) - Ant1

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dage 120 of 100		
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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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
	QPSK	704.00	V	Х	133	257	1.12	1 / 49	21.16	22.28	0.169	36.99	-14.71	20.13	0.103	34.77	-14.64
	QPSK	707.50	V	Х	131	254	1.14	1 / 49	20.82	21.96	0.157	36.99	-15.02	19.81	0.096	34.77	-14.96
MHz	QPSK	711.00	V	Х	131	256	1.17	1 / 49	19.68	20.85	0.122	36.99	-16.14	18.70	0.074	34.77	-16.07
	16-QAM	704.00	V	Х	133	257	1.12	1 / 49	20.04	21.16	0.131	36.99	-15.83	19.01	0.080	34.77	-15.76
10	16-QAM	707.50	V	Х	131	254	1.14	1 / 49	19.80	20.94	0.124	36.99	-16.04	18.79	0.076	34.77	-15.98
	16-QAM	711.00	V	Х	131	256	1.17	1 / 49	18.86	20.03	0.101	36.99	-16.96	17.88	0.061	34.77	-16.89
	64-QAM	704.00	V	Х	133	257	1.12	1 / 49	19.23	20.35	0.108	36.99	-16.64	18.20	0.066	34.77	-16.57
N	QPSK	701.50	V	Х	133	257	1.10	1 / 12	21.32	22.42	0.175	36.99	-14.57	20.27	0.106	34.77	-14.50
MHz	QPSK	707.50	V	Х	131	254	1.14	1/0	20.72	21.86	0.154	36.99	-15.13	19.71	0.094	34.77	-15.06
2 ≤	QPSK	713.50	V	Х	131	256	1.19	1 / 24	19.87	21.06	0.128	36.99	-15.93	18.91	0.078	34.77	-15.86
4/	16-QAM	701.50	V	Х	133	257	1.10	1 / 12	19.99	21.09	0.129	36.99	-15.90	18.94	0.078	34.77	-15.83
N	QPSK	700.50	V	Х	133	257	1.09	1/7	21.19	22.28	0.169	36.99	-14.71	20.13	0.103	34.77	-14.65
MHz	QPSK	707.50	V	Х	131	254	1.14	1/7	20.73	21.87	0.154	36.99	-15.12	19.72	0.094	34.77	-15.05
S≤	QPSK	714.50	V	Х	131	256	1.20	1/7	19.75	20.95	0.124	36.99	-16.04	18.80	0.076	34.77	-15.97
.,	16-QAM	707.50	V	Х	131	254	1.14	1/7	20.00	21.15	0.130	36.99	-15.84	19.00	0.079	34.77	-15.78
N	QPSK	699.70	V	Х	133	257	1.08	1/0	21.21	22.29	0.169	36.99	-14.70	20.14	0.103	34.77	-14.63
MHz	QPSK	707.50	V	Х	131	254	1.14	1/5	20.66	21.81	0.152	36.99	-15.18	19.66	0.092	34.77	-15.11
4	QPSK	715.30	V	Х	131	256	1.21	1/0	19.65	20.86	0.122	36.99	-16.13	18.71	0.074	34.77	-16.06
	16-QAM	699.70	V	Х	133	257	1.08	1/0	19.81	20.89	0.123	36.99	-16.10	18.74	0.075	34.77	-16.03
10 MHz	WCP	704.00	V	WCP	132	248	1.12	1 / 49	20.97	22.09	0.162	36.99	-14.90	19.94	0.099	34.77	-14.83

### Table 7-31. ERP Data (LTE Band 12/17) – Ant2

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]
10 MHz	QPSK	782.00	V	139	253	0.89	1/0	20.91	19.65	0.092	34.77	-15.12
	16-QAM	782.00	V	139	253	0.89	1/0	20.21	18.95	0.079	34.77	-15.82
	QPSK	779.50	V	139	253	0.94	1 / 12	20.79	19.58	0.091	34.77	-15.19
5 MHz	QPSK	782.00	V	139	253	0.89	1 / 12	20.93	19.67	0.093	34.77	-15.10
5 10172	QPSK	784.50	V	139	253	0.85	1 / 12	20.87	19.56	0.090	34.77	-15.21
	16-QAM	784.50	V	139	253	0.85	1 / 12	20.35	19.05	0.080	34.77	-15.72
10 MHz	Opposite Pol.	782.00	Н	224	269	1.09	1/0	20.50	19.44	0.088	34.77	-15.34
	WCP	782.00	V	222	176	0.89	1 / 49	15.57	14.31	0.027	34.77	-20.46

Table 7-32. ERP Data (LTE Band 13) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
N	QPSK	1720.00	Н	316	345	2.88	1/0	17.30	20.18	0.104	30.00	-9.82
Ŧ	QPSK	1745.00	Н	310	345	2.84	1 / 50	16.60	19.44	0.088	30.00	-10.56
20 MHz	QPSK	1770.00	Н	309	343	2.79	1/0	15.92	18.71	0.074	30.00	-11.29
2	16-QAM	1720.00	Н	316	345	2.88	1/0	16.70	19.58	0.091	30.00	-10.42
N	QPSK	1717.50	Н	316	345	2.88	1 / 50	17.77	20.65	0.116	30.00	-9.35
5 MHz	QPSK	1745.00	Н	310	345	2.84	1 / 50	17.21	20.06	0.101	30.00	-9.94
5 1	QPSK	1772.50	Н	309	343	2.78	1 / 50	15.79	18.57	0.072	30.00	-11.43
,≓	16-QAM	1717.50	Н	316	345	2.88	1 / 50	17.26	20.14	0.103	30.00	-9.86
N	QPSK	1715.00	Н	316	345	2.88	1 / 37	17.74	20.62	0.115	30.00	-9.38
Ŧ	QPSK	1745.00	Н	310	345	2.84	1 / 37	17.12	19.97	0.099	30.00	-10.03
10 MHz	QPSK	1775.00	Н	309	343	2.78	1/0	15.73	18.51	0.071	30.00	-11.49
~	16-QAM	1715.00	Н	316	345	2.88	1 / 37	17.02	19.91	0.098	30.00	-10.09
N	QPSK	1712.50	Н	316	345	2.89	1 / 25	17.73	20.62	0.115	30.00	-9.38
5 MHz	QPSK	1745.00	Н	310	345	2.84	1 / 49	17.08	19.93	0.098	30.00	-10.07
≥ ≥	QPSK	1777.50	Н	309	343	2.77	1/0	15.82	18.59	0.072	30.00	-11.41
4	16-QAM	1712.50	Н	316	345	2.89	1/0	17.06	19.95	0.099	30.00	-10.05
N	QPSK	1711.50	Н	316	345	2.89	1 / 24	17.81	20.70	0.117	30.00	-9.30
3 MHz	QPSK	1745.00	Н	310	345	2.84	1 / 12	17.13	19.97	0.099	30.00	-10.03
N	QPSK	1778.50	Н	309	343	2.77	1/0	15.75	18.51	0.071	30.00	-11.49
	16-QAM	1711.50	Н	316	345	2.89	1/0	17.04	19.93	0.098	30.00	-10.07
N	QPSK	1710.70	Н	316	345	2.89	1/7	17.72	20.61	0.115	30.00	-9.39
.4 MHz	QPSK	1745.00	Н	310	345	2.84	1/7	17.01	19.85	0.097	30.00	-10.15
4	QPSK	1779.30	Н	309	343	2.77	1 / 7	15.63	18.40	0.069	30.00	-11.60
-	16-QAM	1710.70	Н	316	345	2.89	1/0	16.89	19.78	0.095	30.00	-10.22
20 MHz	Opposite Pol.	1720.00	V	127	315	2.90	1/0	17.09	19.99	0.100	30.00	-10.01
20 1012	WCP	1720.00	Н	146	303	2.88	1/0	17.82	20.70	0.117	30.00	-9.30

Table 7-33. EIRP Data (LTE Band 66/4) – Ant2

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dega 120 of 100		
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	1732.50	V	Х	115	247	2.92	1 / 121	20.10	23.02	0.200	30.00	-6.98
	π/2 BPSK	1745.00	V	X	115	247	2.94	1/1	20.29	23.23	0.211	30.00	-6.77
45 MHz	π/2 BPSK QPSK	1757.50 1732.50	V V	X X	115 115	247 247	2.98 2.92	1 / 1 1 / 121	19.76 20.05	22.74 22.97	0.188	30.00 30.00	-7.26 -7.03
45 10112	QPSK	1732.30	V	x	115	247	2.92	1/1	20.03	22.97	0.130	30.00	-6.73
	QPSK	1757.50	v	X	115	247	2.98	1/1	19.55	22.53	0.179	30.00	-7.47
	16-QAM	1745.00	V	X	115	247	2.94	1/1	19.44	22.38	0.173	30.00	-7.62
	π/2 BPSK	1730.00	V	Х	115	247	2.92	1/1	19.93	22.85	0.193	30.00	-7.15
	π/2 BPSK	1745.00	V	Х	115	247	2.94	1/1	20.19	23.14	0.206	30.00	-6.86
	π/2 BPSK	1760.00	V	Х	115	247	2.99	1 / 1	19.49	22.47	0.177	30.00	-7.53
40 MHz	QPSK	1730.00	V	X	115	247	2.92	1/1	20.03	22.95	0.197	30.00	-7.05
	QPSK QPSK	1745.00	V V	X	115	247	2.94	1/1	20.10	23.04	0.202	30.00	-6.96
	16-QAM	1760.00 1730.00	V	X X	115 115	247 247	2.99 2.92	1/1	19.31 18.92	22.30 21.83	0.170	30.00 30.00	-7.70 -8.17
	π/2 BPSK	1730.00	V	X	115	247	2.92	1/94	20.25	23.16	0.155	30.00	-6.84
	π/2 BPSK	1745.00	v	X	115	247	2.94	1 / 94	20.20	23.15	0.206	30.00	-6.85
	π/2 BPSK	1762.50	V	X	115	247	2.99	1 / 94	19.48	22.48	0.177	30.00	-7.52
35 MHz	QPSK	1727.50	V	Х	115	247	2.91	1 / 94	19.96	22.88	0.194	30.00	-7.12
	QPSK	1745.00	V	Х	115	247	2.94	1 / 94	20.30	23.25	0.211	30.00	-6.75
	QPSK	1762.50	V	Х	115	247	2.99	1 / 94	19.50	22.49	0.178	30.00	-7.51
	16-QAM	1745.00	V	Х	115	247	2.94	1 / 94	19.34	22.29	0.169	30.00	-7.71
	π/2 BPSK	1725.00	V	X	115	247	2.91	1/1	20.10	23.01	0.200	30.00	-6.99
	π/2 BPSK	1745.00	V	X	115	247	2.94	1 / 158	20.06	23.00	0.199	30.00	-7.00
20 MU~	π/2 BPSK QPSK	1765.00 1725.00	V V	X X	115 115	247 247	3.00 2.91	1 / 158 1 / 1	19.60 20.09	22.60 23.00	0.182	30.00	-7.40 -7.00
30 MHz	QPSK	1725.00	V	X	115	247	2.91	1 / 158	20.09	23.00	0.200	30.00 30.00	-7.00
	QPSK	1765.00	v	X	115	247	3.00	1 / 158	19.40	22.30	0.174	30.00	-7.60
	16-QAM	1745.00	V	X	115	247	2.94	1 / 158	19.37	22.31	0.170	30.00	-7.69
	π/2 BPSK	1722.5	V	Х	115	247	2.90	1 / 66	20.21	23.12	0.205	30.00	-6.88
	π/2 BPSK	1745.0	V	Х	115	247	2.94	1 / 131	20.14	23.08	0.203	30.00	-6.92
	π/2 BPSK	1767.5	V	Х	115	247	3.01	1 / 66	19.44	22.45	0.176	30.00	-7.55
25 MHz	QPSK	1722.5	V	Х	115	247	2.90	1 / 66	19.98	22.88	0.194	30.00	-7.12
	QPSK	1745.0	V	X	115	247	2.94	1 / 131	20.24	23.18	0.208	30.00	-6.82
	QPSK 16-QAM	1767.5 1745.0	V V	X X	115 115	247 247	3.01 2.94	1 / 66 1 / 131	19.38 19.37	22.39 22.31	0.174	30.00 30.00	-7.61 -7.69
	π/2 BPSK	1745.0	V	X	115	247	2.94	1 / 131	20.07	22.31	0.170	30.00	-7.03
	π/2 BPSK	1720.00	V	X	115	247	2.90	1 / 53	20.07	22.97	0.198	30.00	-6.91
	π/2 BPSK	1770.00	v	X	115	247	3.02	1 / 53	19.39	22.41	0.174	30.00	-7.59
20 MHz	QPSK	1720.00	V	Х	115	247	2.90	1 / 104	19.99	22.89	0.194	30.00	-7.11
	QPSK	1745.00	V	Х	115	247	2.94	1 / 53	20.07	23.01	0.200	30.00	-6.99
	QPSK	1770.00	V	Х	115	247	3.02	1 / 53	19.38	22.40	0.174	30.00	-7.60
	16-QAM	1745.00	V	Х	115	247	2.94	1 / 53	18.91	21.85	0.153	30.00	-8.15
	π/2 BPSK	1717.50	V	X	115	247	2.89	1/1	20.09	22.98	0.199	30.00	-7.02
	π/2 BPSK	1745.00	V	X	115	247	2.94	1/1	20.16	23.10	0.204	30.00	-6.90
15 MHz	π/2 BPSK QPSK	1772.50 1717.50	V V	X X	115 115	247 247	3.03 2.89	1/1 1/1	19.46 20.28	22.49 23.17	0.177	30.00 30.00	-7.51 -6.83
	QPSK	1745.00	V	X	115	247	2.89	1/1	20.28	23.17	0.208	30.00	-6.85
	QPSK	1772.50	v	X	115	247	3.03	1/1	19.30	22.33	0.171	30.00	-7.67
	16-QAM	1717.50	V	X	115	247	2.89	1/1	18.72	21.62	0.145	30.00	-8.38
	π/2 BPSK	1715.00	V	Х	115	247	2.89	1 / 50	20.05	22.94	0.197	30.00	-7.06
	π/2 BPSK	1745.00	V	Х	115	247	2.94	1/1	20.11	23.06	0.202	30.00	-6.94
	π/2 BPSK	1775.00	V	Х	115	247	3.04	1 / 26	19.43	22.46	0.176	30.00	-7.54
10 MHz	QPSK	1715.00	V	Х	115	247	2.89	1 / 50	19.90	22.79	0.190	30.00	-7.21
	QPSK	1745.00	V	Х	115	247	2.94	1/1	20.06	23.00	0.200	30.00	-7.00
	QPSK	1775.00	V	X	115	247	3.04	1/26	19.20	22.24	0.167	30.00	-7.76
	16-QAM	1715.00	V V	X	115	247	2.89	1 / 50	18.48	21.37	0.137	30.00	-8.63
	π/2 BPSK π/2 BPSK	1712.50 1745.00	V	X X	115 115	247 247	2.88 2.94	1 / 12 1 / 23	20.17 20.21	23.06 23.15	0.202	30.00 30.00	-6.94 -6.85
	π/2 BPSK	1745.00	V	X	115	247	3.05	1 / 23	19.58	22.62	0.207	30.00	-0.05
5 MHz	QPSK	1712.50	V	X	115	247	2.88	1 / 12	19.84	22.02	0.183	30.00	-7.28
_	QPSK	1745.00	V	X	115	247	2.94	1 / 23	20.18	23.12	0.205	30.00	-6.88
	QPSK	1777.50	V	X	115	247	3.05	1 / 12	19.47	22.52	0.179	30.00	-7.48
	16-QAM	1777.50	V	Х	115	247	3.05	1 / 12	18.52	21.56	0.143	30.00	-8.44
45 MHz	QPSK (CP-OFDM)	1745.00	V	Х	115	247	2.92	1/1	18.94	21.86	0.153	30.00	-8.14
	QPSK (WCP)	1745.00	V	WCP	146	243	2.92	1 / 121	16.46	19.38	0.087	30.00	-10.62

## Table 7-34. EIRP Data (NR Band n66) – Ant2

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### 7.8 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.

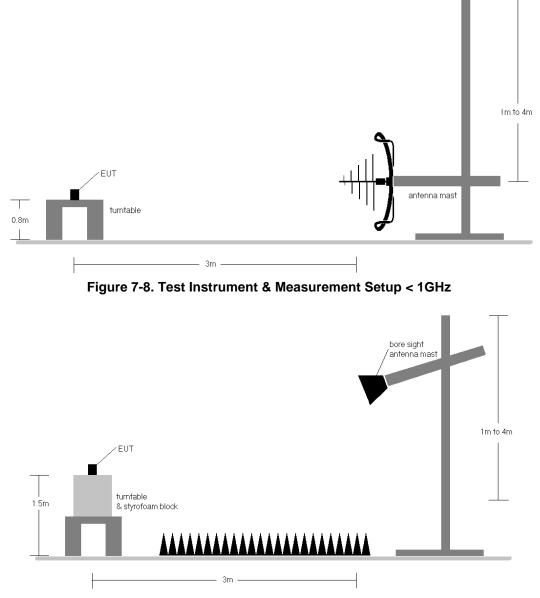


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

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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:

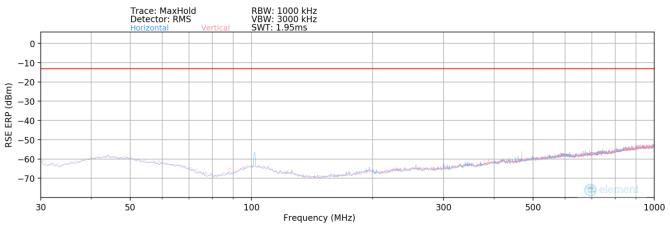
a)  $E(dB\mu V/m) =$  Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m) b) EIRP (dBm) =  $E(dB\mu V/m)$  + 20logD - 104.8; where D is the measurement distance in meters.

- 2. 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.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5. 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.
- 6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7. 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.
- 8. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. 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.

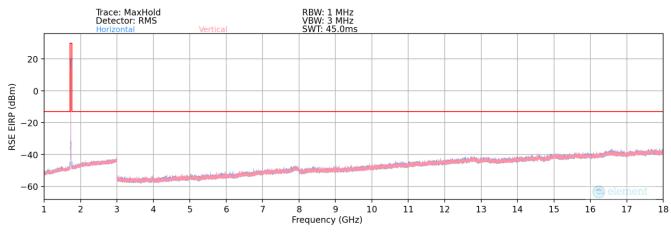
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
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### WCDMA AWS – Ant1









Mode:		Stand Alone							
Channel:		1413							
Frequency (MHz):		1732.6							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
101.00	Н	349	255	-78.40	-13.52	15.08	-82.33	-13.00	-69.33
Tah	0 7-35 Ra	diated Sni	urique Dat			Mid Ch	annol) _ Ant	1	

Table 7-35. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 144 of 169		
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Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

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]
3424.80	V	-	-	-78.82	4.62	32.80	-62.46	-13.00	-49.46
5137.20	V	-	-	-79.41	7.28	34.87	-60.39	-13.00	-47.39
6849.60	V	-	-	-80.73	10.90	37.17	-58.08	-13.00	-45.08

7-36. Radiated Spurious Data (WCDMA AWS - Low Channel) - Ant1

Mode:	WCDMARMC
Channel:	1413
Frequency (MHz):	1732.6

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]
3465.20	V	-	-	-78.73	4.39	32.66	-62.60	-13.00	-49.60
5197.80	V	-	-	-79.58	7.32	34.74	-60.51	-13.00	-47.51
6930.40	V	-	-	-80.49	11.59	38.10	-57.16	-13.00	-44.16

Table 7-37. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

Mode					
Channel:		1513			
Frequency (MHz):		1752.6			
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]
3505.20	V	-	-	-78.97	4.41
5257.80	V	-	-	-79.35	7.52
7010.40	V	-	-	-80.28	11.54

Table 7-38. Radiated Spurious Data (WCDMA AWS – High Channel) – Ant1

Field

Strength [dBµV/m]

32.44

35.17

38.26

EIRP Spurious Emission Level

[dBm]

-62.82

-60.09

-57.00

Limit [dBm] Margin [dB]

-49.82

-47.09

-44.00

-13.00

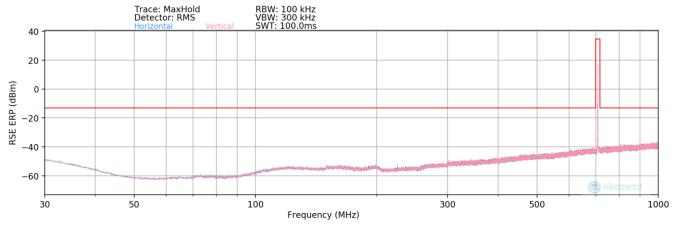
-13.00

-13.00

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
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# LTE Band 12/17 – Ant1



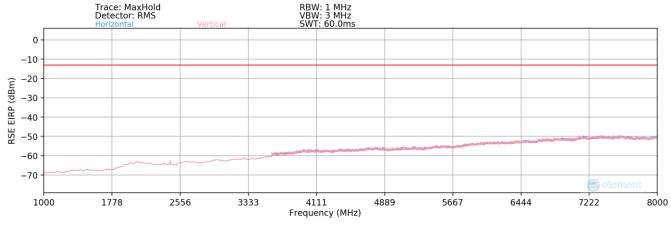


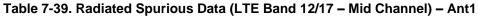
Bandwidth (MHz):	10								
Frequency (MHz):	707.5								
RB / Offset:	<b>RB / Offset:</b> 1 / 25								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
224.00	Н	-	-	-94.03	17.95	30.92	-66.49	-13.00	-53.49

Plot 7-181. Radiated Spurious Plot (LTE Band 12/17) – Ant1

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Bandwidth (MHz):	10
Frequency (MHz):	704
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]
1408.00	Н	230	220	-77.45	-6.95	22.60	-72.66	-13.00	-59.66
2112.00	Н	154	191	-72.15	-2.79	32.06	-63.20	-13.00	-50.20
2816.00	Н	-	-	-77.92	-2.84	26.24	-69.01	-13.00	-56.01
3520.00	Н	-	-	-77.52	-0.32	29.16	-66.10	-13.00	-53.10
4224.00	Н	-	-	-77.83	1.61	30.78	-64.48	-13.00	-51.48

Table 7-40. Radiated Spurious Data (LTE Band 12/17 – Low Channel) – Ant1

Bandwidth (MHz):	10
Frequency (MHz):	707.5
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]
1415.00	Н	-	-	-76.43	-6.96	23.61	-71.64	-13.00	-58.64
2122.50	Н	144	198	-74.29	-2.87	29.84	-65.41	-13.00	-52.41
2830.00	Н	-	-	-77.77	-2.68	26.55	-68.71	-13.00	-55.71
3537.50	Н	-	-	-77.65	-0.21	29.14	-66.12	-13.00	-53.12
4245.00	Н	-	-	-78.24	1.70	30.46	-64.80	-13.00	-51.80

Table 7-41. Radiated Spurious Data (LTE Band 12/17 – Mid Channel) – Ant1

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dega 147 of 160		
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Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1/25

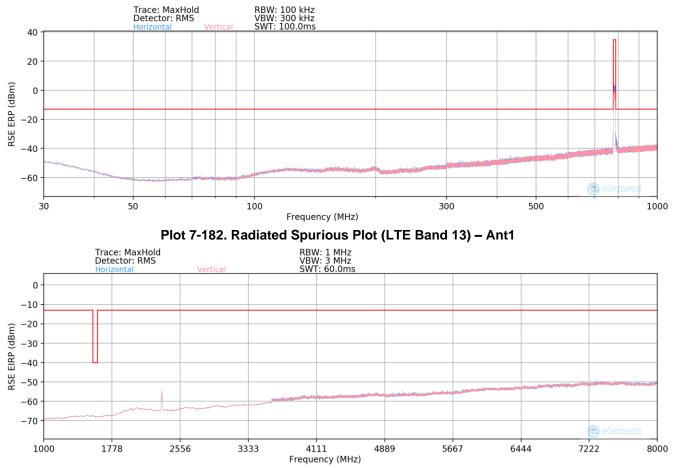
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	Н	155	159	-76.07	-6.95	23.98	-71.27	-13.00	-58.27
2133.00	Н	150	204	-74.41	-2.96	29.63	-65.63	-13.00	-52.63
2844.00	Н	-	-	-77.43	-2.59	26.98	-68.28	-13.00	-55.28
3555.00	Н	-	-	-77.57	-0.04	29.39	-65.87	-13.00	-52.87
4266.00	Н	-	-	-78.44	1.79	30.35	-64.91	-13.00	-51.91

Table 7-42. Radiated Spurious Data (LTE Band 12/17 – High Channel) – Ant1

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 148 of 169		
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## LTE Band 13 – Ant1





Mode:		Stand Alone							
Frequency (MHz):		782							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
193.59	Н	396	233	-84.57	19.18	41.61	-55.80	-13.00	-42.80

Table 7-43. Radiated Spurious Data (LTE Band 13) – Ant1

FCC ID: A3LSMS938B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 149 of 169
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Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1/25

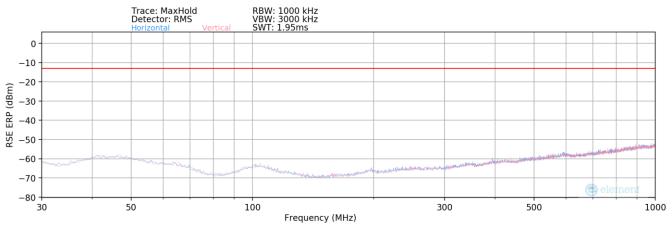
	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Г	1564.00	н	165	333	-69.34	-6.90	30.76	-64.49	-40.00	-24.49
	2346.00	Н	187	315	-51.91	-3.81	51.28	-43.98	-13.00	-30.98
	3128.00	Н	-	-	-76.87	-1.71	28.42	-66.84	-13.00	-53.84
	3910.00	Н	302	241	-75.19	1.51	33.32	-61.94	-13.00	-48.94
	4692.00	Н	-	-	-78.32	3.01	31.69	-63.56	-13.00	-50.56
	5474.00	Н	-	-	-78.65	4.42	32.77	-62.48	-13.00	-49.48
	6256.00	Н	-	-	-78.65	6.63	34.98	-60.28	-13.00	-47.28

 Table 7-44. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant1

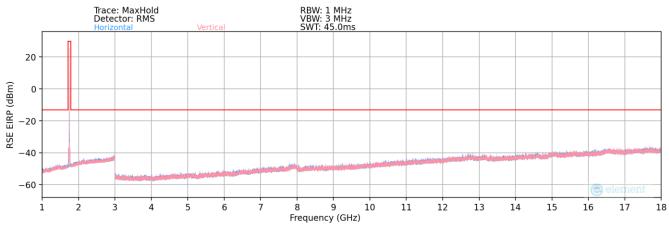
FCC ID: A3LSMS938B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 150 of 169		
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# LTE Band 66/4 - Ant1









Mode:		Stand Alone							
Frequency (MHz):		1361							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
100.00	Н	400	110	-78.38	-13.64	14.98	-82.43	-13.00	-69.43

Table 7-45. Radiated Spurious Data (LTE Band 66/4) – Ant1

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dega 151 of 100			
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© 2024 ELEMENT V11.1 08/28/202:						



5310.00

7080.00

Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50

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]
3440.00	Н	-	-	-78.74	5.27	33.53	-61.73	-13.00	-48.73
5160.00	Н	-	-	-79.66	7.54	34.88	-60.38	-13.00	-47.38
6880.00	Н	-	-	-80.51	11.63	38.12	-57.13	-13.00	-44.13

Table 7-46. Radiated Spurious Data (LTE Band 66/4 - Low Channel) - Ant1

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

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]
3490.00	Н	-	-	-78.78	5.31	33.53	-61.72	-13.00	-48.72
5235.00	Н	-	-	-79.38	7.26	34.88	-60.38	-13.00	-47.38
6980.00	Н	-	-	-80.19	11.06	37.87	-57.38	-13.00	-44.38

Table 7-47. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant1

	Bandwidth (MHz):		20					
	Frequency (MHz):		1770					
	RB / Offset:		1 / 50					
Ì				Turntable	Anolymor			
	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth [degree]	Analyzer Level [dBm]			

Н

 H
 -80.27
 11.66
 38.39
 -56.87
 -13.00

 Table 7-48. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant1

-79.37

Field

Strength

[dBµV/m]

33.76

35.28

AFCL

[dB/m]

5.24

7.65

**EIRP Spurious** 

Emission Level

[dBm]

-61.50

-59.98

Limit [dBm] Margin [dB]

-48.50

-46.98

-43.87

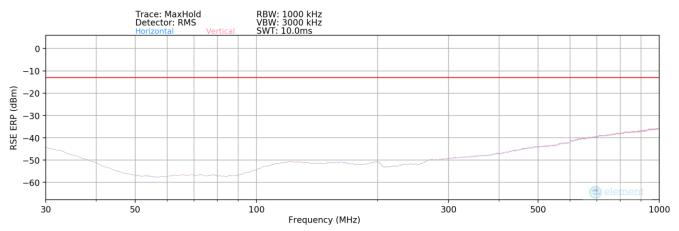
-13.00

-13.00

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
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# NR Band n66 – Ant1





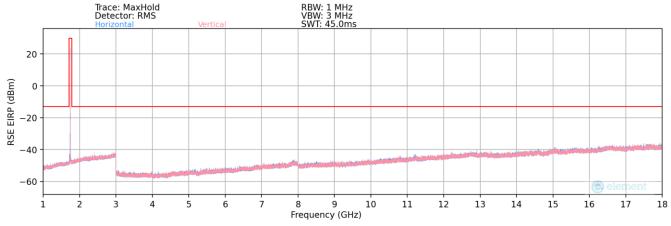
Mode:	Stand Alone
Channel:	349000
Frequency (MHz):	1745

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
69.83	н	-	-	-108.06	14.65	13.59	-83.82	-13.00	-70.82
131.73	Н	-	-	-107.95	20.12	19.17	-78.24	-13.00	-65.24
298.84	Н	-	-	-107.66	21.09	20.43	-76.98	-13.00	-63.98

Plot 7-187. Radiated Spurious Plot (NR Band n66) - Ant1

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Bandwidth (MHz):	45
Frequency (MHz):	1732.5
RB / Offset:	1 / 120

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]
3465.00	V	-	-	-80.25	5.23	31.98	-63.27	-13.00	-50.27
5197.50	V	-	-	-80.91	7.24	33.33	-61.93	-13.00	-48.93
6930.00	V	-	-	-81.63	11.32	36.69	-58.57	-13.00	-45.57

Table 7-50. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant1

Bandwidth (MHz):	45
Frequency (MHz):	1745
RB / Offset:	1 / 120

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]
3490.00	V	-	-	-79.60	5.31	32.71	-62.54	-13.00	-49.54
5235.00	V	-	-	-80.34	7.26	33.92	-61.34	-13.00	-48.34
6980.00	V	-	-	-81.39	11.06	36.67	-58.58	-13.00	-45.58

Table 7-51. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant1

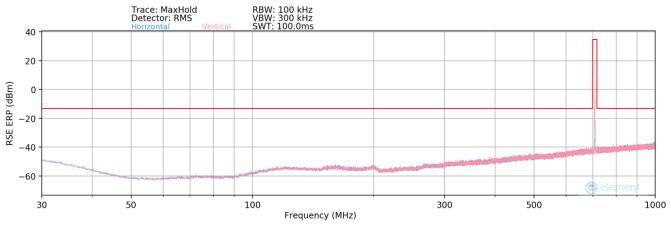
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3515.00	V	-	-	-80.01	5.28	32.27	-62.99	-13.00	-49.99
5272.50	V	-	-	-80.25	7.11	33.86	-61.39	-13.00	-48.39
7030.00	V	-	-	-80.64	11.24	37.60	-57.66	-13.00	-44.66

Table 7-52. Radiated Spurious Data (NR Band n66 – High Channel) – Ant1

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## LTE Band 12/17 - Ant2



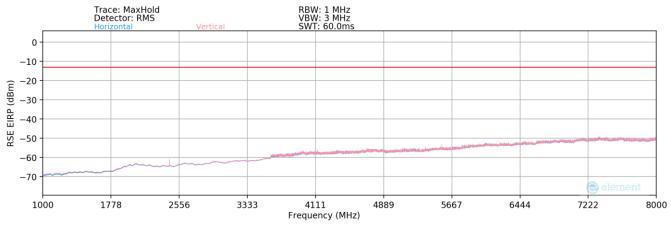


Bandwidth (MHz):		10							
Frequency (MHz):		707.5							
Frequency (MHz):		1 / 25							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
621.00	V	-	-	-97.03	27.29	37.26	-60.14	-13.00	-47.14
Plot 7-189 Radiated Spurious Plot (I TE Band 12/17) – Ant2									

Plot 7-189. Radiated Spurious Plot (LTE Band 12/17) – Ant2

FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):         10           Frequency (MHz):         704           RB / Offset:         1 / 25	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyze Level [dBm]				
	RB / Offset:		1 / 25						
Bandwidth (MHz): 10	Frequency (MHz):								
	Bandwidth (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]
V	-	-	-76.99	-6.95	23.06	-72.20	-13.00	-59.20
V	-	-	-78.15	-2.79	26.06	-69.20	-13.00	-56.20
V	-	-	-77.99	-2.84	26.17	-69.08	-13.00	-56.08
	[H/V] V V V	[H/V]         Height [cm]           V         -           V         -           V         -           V         -	Ant. Pol. [H/V]     Antenna Height [cm]     Azimuth [degree]       V     -     -       V     -     -       V     -     -       V     -     -	Ant. Pol. [H/V]         Antenna Height [cm]         Azimuth [degree]         Level [dBm]           V         -         -         -76.99           V         -         -         -78.15           V         -         -         -77.99	Ant. Pol. [H/V]         Antenna Height [cm]         Azimuth [degree]         Level [dBm]         AFCL [dB/m]           V         -         -         -76.99         -6.95           V         -         -         -78.15         -2.79           V         -         -         -77.99         -2.84	Ant. Pol. [H/V]         Antenna Height [cm]         Azimuth [degree]         Level [dBm]         AFCL [dB/m]         Strength [dB/w]           V         -         -         -76.99         -6.95         23.06           V         -         -         -78.15         -2.79         26.06           V         -         -         -77.99         -2.84         26.17	Ant. Pol. [H/V]         Antenna Height [cm]         Azimuth [degree]         Level [dB/m]         AFCL [dB/m]         Strength [dB/V/m]         Emission Level [dBm]           V         -         -         -76.99         -6.95         23.06         -72.20           V         -         -         -78.15         -2.79         26.06         -69.20           V         -         -         -77.99         -2.84         26.17         -69.08	Ant. Pol. [H/V]         Antenna Height [cm]         Azimuth [degree]         Level [dBm]         AFCL [dB/m]         Strength [dBµV/m]         Emission Level [dBm]         Limit [dBm]           V         -         -         -76.99         -6.95         23.06         -72.20         -13.00           V         -         -         -78.15         -2.79         26.06         -69.20         -13.00           V         -         -         -77.99         -2.84         26.17         -69.08         -13.00

Table 7-54. Radiated Spurious Data (LTE Band 12/17 – Low Channel) – Ant2

Bandwidth (MHz):	10
Frequency (MHz):	707.5
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]
1415.00	V	-	-	-76.38	-6.96	23.66	-71.59	-13.00	-58.59
2122.50	V	-	-	-77.40	-2.87	26.73	-68.52	-13.00	-55.52
2830.00	V	-	-	-77.76	-2.68	26.56	-68.70	-13.00	-55.70

Table 7-55. Radiated Spurious Data (LTE Band 12/17 – Mid Channel) – Ant2

Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1/25

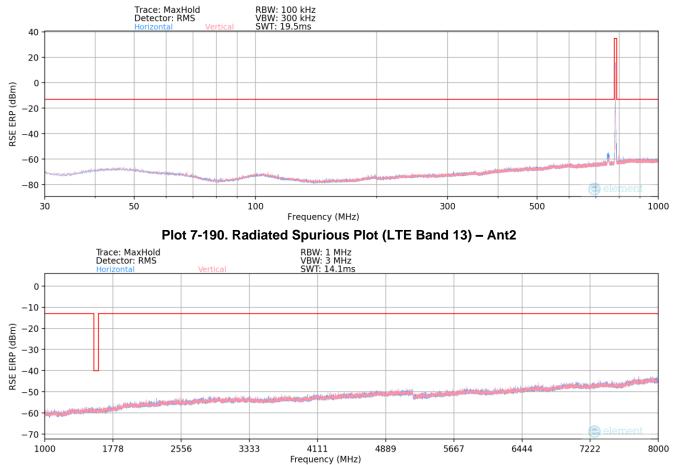
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	V	-	-	-76.30	-6.95	23.75	-71.50	-13.00	-58.50
2133.00	V	-	-	-77.19	-2.96	26.85	-68.41	-13.00	-55.41
2844.00	V	-	-	-77.56	-2.59	26.85	-68.41	-13.00	-55.41

Table 7-56. Radiated Spurious Data (LTE Band 12/17 – High Channel) – Ant2

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## LTE Band 13 – Ant2





Mode:		Stand Alone							
Frequency (MHz):		782							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
101.60	Н	210	61	-78.59	-13.48	14.93	-82.48	-13.00	-69.48

Table 7-57. Radiated	Spurious Data	a (LTE Band 13) – Ant2
----------------------	---------------	------------------------

Bandwidth (MHz):	10	
Frequency (MHz):	782	
RB / Offset:	1/25	

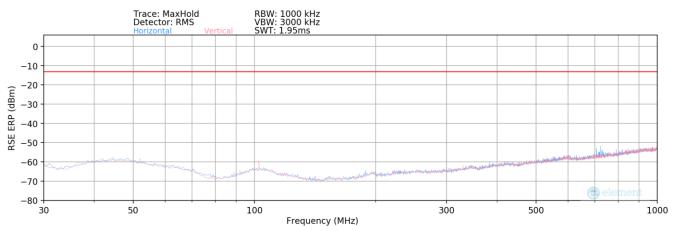
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	н	-	-	-77.41	-1.45	28.14	-67.12	-40.00	-27.12
2346.00	н	-	-	-78.10	2.43	31.33	-63.93	-13.00	-50.93
3128.00	Н	-	-	-78.02	3.84	32.82	-62.44	-13.00	-49.44

### Table 7-58. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant2

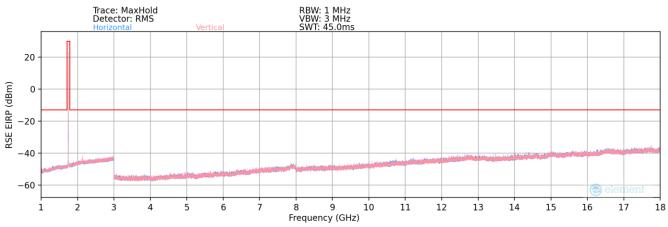
FCC ID: A3LSMS938B		PART 27 MEASUREMENT REPORT			
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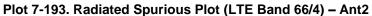


## LTE Band 66/4 - Ant2









Mode:		Stand Alone							
Frequency (MHz):		1745							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
98.81	V	170	171	-78.46	-13.80	14.74	-82.67	-13.00	-69.67

Table 7-59. Radiated Spurious Data (LTE Band 66/4) – Ant2

Bandwidth (MHz)	:	20							
Frequency (MHz)	): 1720								
RB / Offset	:	1/50							
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]
3440.00	Н	-	-	-78.83	4.49	32.66	-62.60	-13.00	-49.60
	н	-	-	-79.44	7.31	34.87	-60.39	-13.00	-47.39
5160.00									

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Bandwidth (MHz):		20							
Frequency (MHz): 1745									
RB / Offset:		1 / 50							
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]
3490.00	Н	-	-	-78.57	4.38	32.81	-62.44	-13.00	-49.44
5235.00	Н	-	-	-79.27	7.45	35.18	-60.08	-13.00	-47.08
6980.00	Н	-	-	-80.35	11.61	38.26	-57.00	-13.00	-44.00

Table 7-61. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

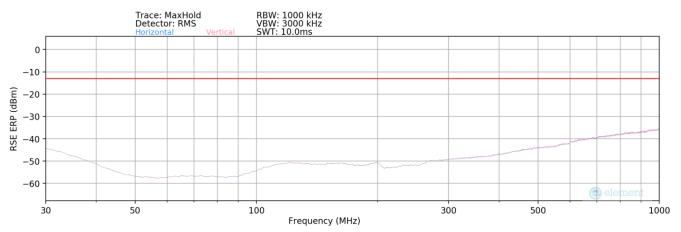
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	Н	-	-	-78.51	4.45	32.94	-62.32	-13.00	-49.32
5310.00	Н	-	-	-79.53	7.62	35.09	-60.17	-13.00	-47.17
7080.00	Н	-	-	-80.28	11.70	38.42	-56.84	-13.00	-43.84

Table 7-62. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant2

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### NR Band n66 – Ant2





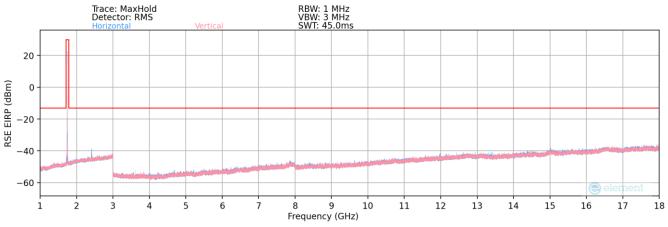
Mode:		Stand Alone		
Channel:				
Frequency (MHz):				
Frequency [MHz]	Ant. Pol. [H/V]	Turntable Azimuth [degree]	Analyzer Level [dBm]	

	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
ſ	69.83	Н	-	-	-108.06	14.65	13.59	-83.82	-13.00	-70.82
	131.73	Н	-	-	-107.95	20.12	19.17	-78.24	-13.00	-65.24
	298.84	Н	-	-	-107.66	21.09	20.43	-76.98	-13.00	-63.98

Plot 7-195. Radiated Spurious Plot (NR Band n66) - Ant2

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Bandwidth (MHz):	45	
Frequency (MHz):	1732.5	
RB / Offset:	1 / 120	

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]
3465.00	Н	-	-	-79.67	5.23	32.56	-62.69	-13.00	-49.69
5197.50	Н	-	-	-80.64	7.24	33.60	-61.66	-13.00	-48.66
6930.00	Н	-	-	-81.73	11.32	36.59	-58.67	-13.00	-45.67

Table 7-64. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant2

Bandwidth (MHz):	45
Frequency (MHz):	1745
RB / Offset:	1 / 120
RB / Offset:	1 / 120

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]
3490.00	Н	-	-	-80.26	5.31	32.05	-63.20	-13.00	-50.20
5235.00	Н	-	-	-81.00	7.26	33.26	-62.00	-13.00	-49.00
6980.00	Н	-	-	-82.13	11.06	35.93	-59.32	-13.00	-46.32

Table 7-65. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant2

Bandwidth (MHz):	45
Frequency (MHz):	1757.5
RB / Offset:	1 / 120

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]
3515.00	Н	-	-	-80.67	5.28	31.61	-63.65	-13.00	-50.65
5272.50	Н	-	-	-81.22	7.11	32.89	-62.36	-13.00	-49.36
7030.00	Н	-	-	-81.42	11.24	36.82	-58.44	-13.00	-45.44

Table 7-66. Radiated Spurious Data (NR Band n66 – High Channel) – Ant2

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### 7.9 Frequency Stability / Temperature Variation

#### **Test Overview and Limit**

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### Test Procedure Used

ANSI C63.26-2015 – Section 5.6

#### Test Settings

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

#### Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

#### Test Notes

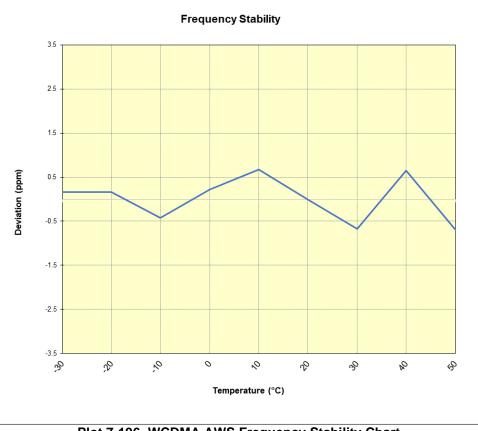
None

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WCDMA AWS							
	Operating	Frequency (Hz):	1,732,60	00,000			
	Ref	. Voltage (VDC):	3.8	5			
		Deviation Limit:	± 0.00025%	or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	1,732,503,998	283	0.0000163		
		- 20	1,732,503,999	284	0.0000164		
		- 10	1,732,502,987	-728	-0.0000420		
		0	1,732,504,096	381	0.0000220		
100 %	3.85	+ 10	1,732,504,889	1,174	0.0000678		
		+ 20 (Ref)	1,732,503,715	0	0.0000000		
		+ 30	1,732,502,554	-1,161	-0.0000670		
		+ 40	1,732,504,840	1,125	0.0000649		
		+ 50	1,732,502,509	-1,206	-0.0000696		
Battery Endpoint	3.21	+ 20	1,732,504,221	506	0.0000292		

Table 7-67.WCDMA AWS Frequency Stability Data



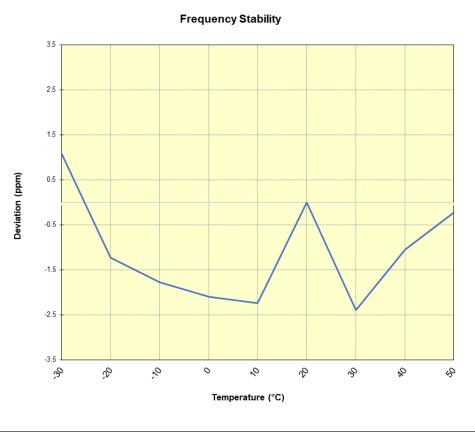
Plot 7-196. WCDMA AWS Frequency Stability Chart

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LTE Band	12				
	Operating	Frequency (Hz):	707,50	00,000	
	Ref	. Voltage (VDC):	3.	85	
		Deviation Limit:	± 0.00025%	or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
		- 30	707,603,478	774	0.0001094
		- 20	707,601,834	-870	-0.0001230
		- 10	707,601,448	-1,256	-0.0001775
		0	707,601,220	-1,484	-0.0002097
100 %	3.85	+ 10	707,601,122	-1,582	-0.0002236
		+ 20 (Ref)	707,602,704	0	0.0000000
		+ 30	707,601,011	-1,693	-0.0002393
		+ 40	707,601,963	-741	-0.0001047
		+ 50	707,602,546	-158	-0.0000223
Battery Endpoint	3.21	+ 20	707,602,478	-226	-0.0000319

Table 7-68. LTE Band 12 Frequency Stability Data



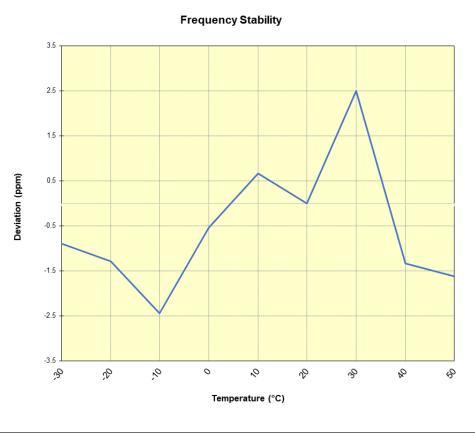
Plot 7-197. LTE Band 12 Frequency Stability Chart

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LTE Band 13							
	Operating	Frequency (Hz):	782,00	00,000			
	Ref	. Voltage (VDC):	3.	85			
		Deviation Limit:	± 0.00025%	or 2.5 ppm			
					-		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	782,094,733	-696	-0.0000890		
		- 20	782,094,425	-1,004	-0.0001284		
		- 10	782,093,522	-1,907	-0.0002438		
		0	782,095,008	-421	-0.0000538		
100 %	3.85	+ 10	782,095,953	524	0.0000670		
		+ 20 (Ref)	782,095,429	0	0.0000000		
		+ 30	782,097,389	1,960	0.0002506		
		+ 40	782,094,391	-1,038	-0.0001327		
		+ 50	782,094,166	-1,263	-0.0001615		
Battery Endpoint	3.21	+ 20	782,094,455	-974	-0.0001245		

Table 7-69. LTE Band 13 Frequency Stability Data



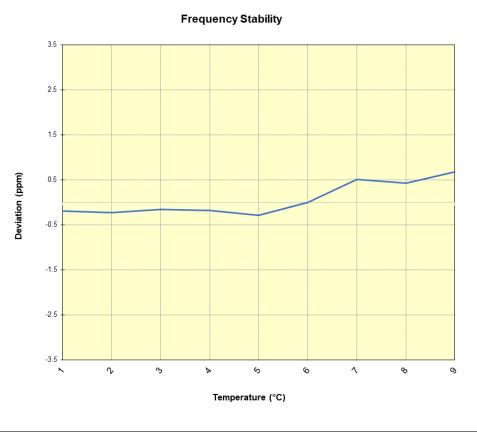
Plot 7-198. LTE Band 13 Frequency Stability Chart

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LTE Band	66/4				
	Operating	Frequency (Hz):	1,745,000,000		
	Ref	. Voltage (VDC):	3.85		
		Deviation Limit:	± 0.00025%	or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
		- 30	1,745,049,501	-334	-0.0000191
		- 20	1,745,049,433	-402	-0.0000230
		- 10	1,745,049,569	-266	-0.0000152
		0	1,745,049,529	-306	-0.0000175
100 %	3.85	+ 10	1,745,049,337	-498	-0.0000285
		+ 20 (Ref)	1,745,049,835	0	0.0000000
		+ 30	1,745,050,736	901	0.0000516
		+ 40	1,745,050,591	756	0.0000433
		+ 50	1,745,051,015	1,180	0.0000676
Battery Endpoint	3.21	+ 20	1,745,048,555	-1,280	-0.0000734

Table 7-70. LTE Band 66/4 Frequency Stability Data



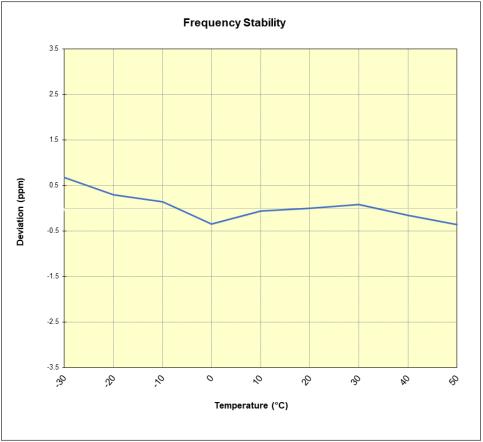
Plot 7-199. LTE Band 66/4Frequency Stability Chart

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NR Band n12					
	Operating	Frequency (Hz):	707,500,000		
	Ref	. Voltage (VDC):	3.85		
		Deviation Limit:	± 0.00025% or 2.5 ppm		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	707,497,703	481	0.0000680
		- 20	707,497,436	214	0.0000302
		- 10	707,497,327	105	0.0000148
		0	707,496,980	-242	-0.0000342
		+ 10	707,497,178	-44	-0.0000062
		+ 20 (Ref)	707,497,222	0	0.0000000
		+ 30	707,497,281	59	0.0000083
		+ 40	707,497,111	-111	-0.0000157
		+ 50	707,496,971	-251	-0.0000355
Battery Endpoint	3.21	+ 20	707,497,706	484	0.0000684

Table 7-71. NR Band n12 Frequency Stability Data



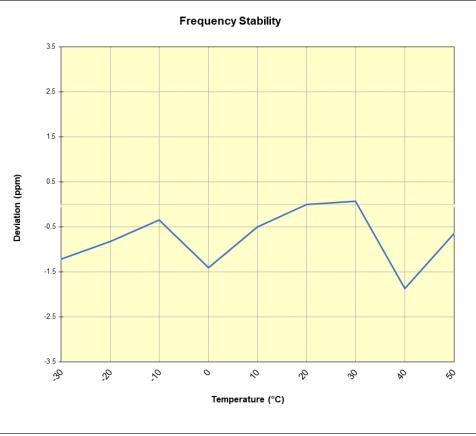
Plot 7-200. NR Band n12 Frequency Stability Chart

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NR Band n66					
	Operating	Frequency (Hz):	1,745,000,000		
	Ref	. Voltage (VDC):	3.85		
		Deviation Limit:	± 0.00025% or 2.5 ppm		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	1,745,000,249	-2,110	-0.0001209
		- 20	1,745,000,931	-1,428	-0.0000818
		- 10	1,745,001,760	-599	-0.0000343
		0	1,744,999,915	-2,444	-0.0001401
		+ 10	1,745,001,485	-874	-0.0000501
		+ 20 (Ref)	1,745,002,359	0	0.0000000
		+ 30	1,745,002,484	125	0.0000072
		+ 40	1,744,999,103	-3,256	-0.0001866
		+ 50	1,745,001,248	-1,111	-0.0000637
Battery Endpoint	3.21	+ 20	1,745,004,903	2,544	0.0001458

Table 7-72. NR Band n66 Frequency Stability Data



Plot 7-201. NR Band n66 Frequency Stability Chart

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# 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS938B** complies with all the requirements of Part 27 of the FCC rules.

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