



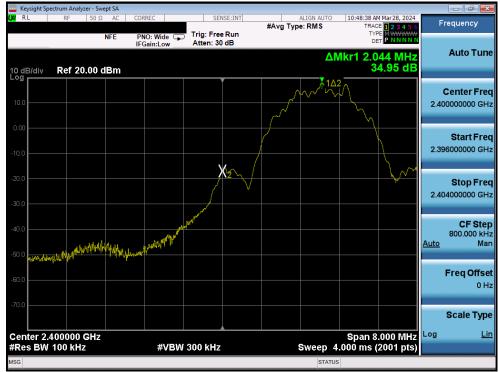
Plot 7-100. Band Edge Plot (Bluetooth (LE), 1Mbps - Ch. 0) - Ant2



Plot 7-101. Band Edge Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Ant2

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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Plot 7-102. Band Edge Plot (Bluetooth (LE), 2Mbps - Ch. 0) - Ant2



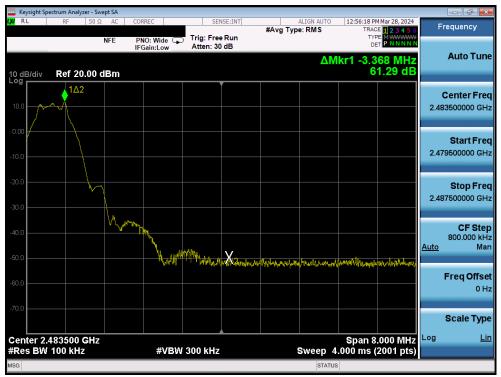
Plot 7-103. Band Edge Plot (Bluetooth (LE), 2Mbps - Ch. 39) - Ant2

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 76 at 110
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Plot 7-104. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant1



Plot 7-105. Band Edge Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Dual Ant1

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Plot 7-106. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Dual Ant1



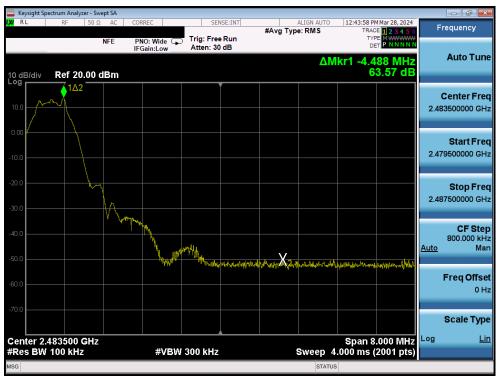
Plot 7-107. Band Edge Plot (Bluetooth (LE), 2Mbps - Ch. 39) - Dual Ant1

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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Plot 7-108. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant2



Plot 7-109. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant2

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Plot 7-110. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Dual Ant2



Plot 7-111. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Dual Ant2

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### 7.6 Conducted Spurious Emissions §15.247(d); RSS-247 [5.5]

### **Test Overview and Limit**

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.11.3 of ANSI C63.10-2013.

### **Test Procedure Used**

### ANSI C63.10-2013 – Section 11.11.3 Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

#### Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

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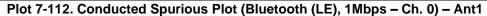
## Test Notes

- 1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
- The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
- 3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

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	pectrum Analyz										_	
X/RL	RF	50 Ω AC	COR	REC	SE	NSE:INT	#Avg Typ	ALIGN AUTO		M Mar 27, 2024	Fre	quency
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-10.00										DL1 -1:80 dBm		Start Fred 000000 MHz
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-40.0	ing a filosof y a carda i se Secondaria da secondaria		a ta factor da la		ralition and a state of the state	i son de ser l'astric Sen de ser d'astric	a <sub>a ba</sub> n la contra c		M. Manalysis (1995) In p <sup>oliti</sup> r compositions	l <mark>h<sub>ara</sub>nshyi anna</mark>	997.0 <u>Auto</u>	CF Step 000000 MH: Mar
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-70.0												cale Type
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MSG								STATU	IS			





Plot 7-113. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant1

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	ectrum Analyz										
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-10.0										DL1 -0.57 dBm	Start Free 30.000000 MHz
-20.0											Stop Fred 10.000000000 GHz
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MSG								STATU	s		

Plot 7-114. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 19) – Ant1



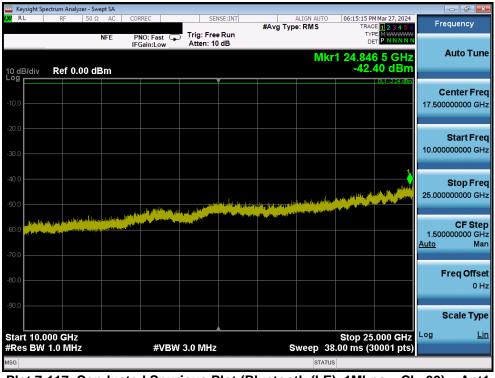
Plot 7-115. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 19) - Ant1

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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			alyzer - Sw												
<b>lxi</b> Ri		RF	50 Ω	AC	COF	REC		SEI	NSE:INT	#Avg Typ	ALIGN AUT		48 PM Mar 27, 2024	Fr	equency
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					IFC	Gain:Low		Atten. 30	u d d d d d d d d d d d d d d d d d d d		A 14	lend d	151 2 GHz		Auto Tune
10 dE		Bof	20.00 (	dBm								KET -1.	52.19 dB		
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0.00				+									DL1 -2.24 dBm		Start Freq
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-10.0															
-20.0															
														10.00	Stop Freq
-30.0														10.000	JUUUUUU GH2
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MSG											STA	105			

Plot 7-116. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Ant1



Plot 7-117. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Ant1

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	Spectrum Analy										
L <mark>XI</mark> RL	RF	50 Ω /	AC COI	RREC	SEI	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRA	M Mar 28, 2024	Frequency
		NF		NO:Fast 🕞 Gain:Low	Trig: Free Atten: 30				TY D		Auto Tune
10 dB/div Log	Ref 2	0.00 dB	m					M	lkr1 6.91 -35.	6 9 GHz 39 dBm	Auto Tune
											Center Free
10.0											5.015000000 GH
0.00										DL1 -1.61 dDm	Start Free
-10.0											30.000000 MH
-20.0											Stop Free 10.000000000 GH
-30.0								1			10.00000000 GH
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-50.0 <b></b>											
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#Res DV		2		#VDV	- <b>5.0</b> WHZ		3	STAT		iooo r pisj	

Plot 7-118. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant2



Plot 7-119. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant2

FCC ID: A3LNP960XMA		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager				
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	pectrum Analyz										
L <mark>XI</mark> RL	RF	50 Ω AC	CORRE	C	SEI	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRA	AM Mar 28, 2024 CE 1 2 3 4 5 6	Frequency
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10 dB/div Log	Ref 20	.00 dBm						M	kr1 3.64 -35	6 5 GHz 09 dBm	Auto Tune
											Center Freq
10.0											5.015000000 GHz
0.00										DL1 -1.00 dBm	Start Fred
-10.0											30.000000 MHz
-20.0											Stop Freq 10.00000000 GHz
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-40.0	.)		-	halya haar	Ingling the off	- The part is supported by	and a second second	anti Milanda	the Marshall		CF Step 997.000000 MHz
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-50.0											Freq Offset
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-70.0											
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Start 30 #Res BW	MHz / 1.0 MHz			#VBW	3.0 MHz		s	weep_1	Stop 10	).000 GHz 30001 pts)	Log <u>Lin</u>
MSG								STATI			

Plot 7-120. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 19) – Ant2



Plot 7-121. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 19) - Ant2

FCC ID: A3LNP960XMA		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager				
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	ysight Sp													- F	X
l <b>XI</b> R	L	RF	5	0Ω A	AC   (	CORREC			NSE:INT	#Avg Typ	ALIGN AUTO e: RMS		AM Mar 28, 2024 ACE 1 2 3 4 5 6	Frequency	/
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							1-							Stop F 10.000000000	
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-70.0 Star	t 30 N	ЛНz										Stop 1	0.000 GHz	Scale T	Гуре <u>Lir</u>
#Re	s BW		/IHz			\$	#VBW	/ 3.0 MHz		s		18.00 ms (	30001 pts)		
MSG											STA	105			

Plot 7-122. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Ant2



Plot 7-123. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Ant2

FCC ID: A3LNP960XMA		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept SA			
KL RF 50 Ω AC CORREC		#Avg Type: RMS TRAC	IMar 28, 2024 Frequency   E 1 2 3 4 5 6 Frequency
IFGain:L	ast 👝 Trig: Free Run .ow Atten: 30 dB	Mkr1 3.65	Auto Tune
10.0			Center Freq 5.015000000 GHz
-10.0			0L1 -5 60 dBm Start Freq 30.000000 MHz
-20.0	1		Stop Fred 10.000000000 GHz
-40.0		Ling and a group with Director of the Articles	CF Step 997.000000 MH: <u>Auto</u> Mar
-60.0			Freq Offse 0 H
-70.0			Scale Type
Start 30 MHz #Res BW 1.0 MHz #	≇VBW 3.0 MHz	10 Stop Sweep 18.00 ms	
MSG		STATUS	

Plot 7-124. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 0) - Dual Ant1



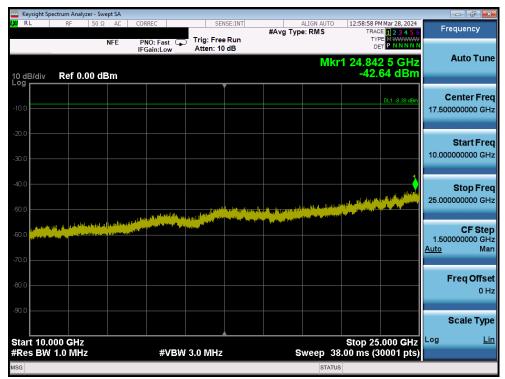
Plot 7-125. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 0) - Dual Ant1

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		n Analyzer - S									-0	d X
L <mark>XI</mark> RL		RF 50	Ω AC	CORREC PNO: Fast		e Run	#Avg Typ	ALIGN AUTO	TRAC	M Mar 28, 2024 DE 1 2 3 4 5 6 PE M WWWW	Frequ	ency
10 dB/d	liv R	ef 20.00		IFGain:Low				M		4 0 GHz 98 dBm	Au	to Tune
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-40.0	and the product of the	Trept A Dorotonia				ntaa dalaya bibah Marina	<mark>g stang () kan seben kan kan kan basi seben kan kan seben kan seben kan seben kan seben kan seben kan seben ka Seben kan seben kan s Seben kan seben kan s</mark>	lander och segnilla för sen som förstande som som		n dan yang katalog katalog katalog Katalog katalog katalog katalog Katalog katalog katalog katalog katalog katalog katalog katalog katalog katalog		CF Stej 0000 MH Ma
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-70.0	B0 MHz								Stop 10	.000 GHz	Sca Log	ale Typ <u>Li</u>
#Res E	3W 1.0			#V	BW 3.0 MH;	2	s		8.00 ms (3	1000 GH2	_	
MSG								STATU	s			

Plot 7-126. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 19) - Dual Ant1



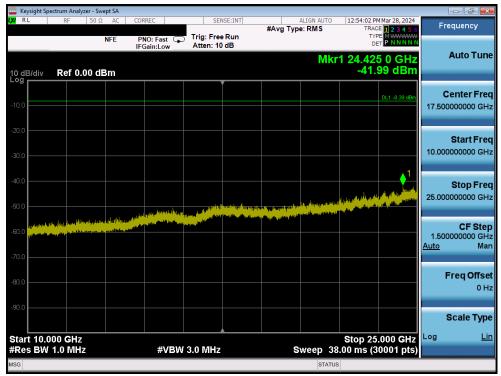
Plot 7-127. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 19) - Dual Ant1

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ht Spectrum Analyzer - Swept SA	
wryg rype. Kind the last of the	requency
NFE PNO: Fast Free Run Atten: 30 dB DKr1 6.696 6 GHz 4.498 dBm	Auto Tune
	Center Freq 15000000 GHz
DL1-8.39 dBm	Start Freq 0.000000 MHz
	<b>Stop Fred</b> 00000000 GH2
	CF Step 7.000000 MH Mar
	Freq Offse 0 H
	Scale Type
30 MHz Stop 10.000 GHz BW 1.0 MHz #VBW 3.0 MHz Sweep 18.00 ms (30001 pts)	Lir
STATUS	

Plot 7-128. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Dual Ant1



Plot 7-129. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Dual Ant1

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	sight Spectri														
l <b>xi</b> Rl		RF	50 Ω	AC	COF	RREC			ISE:INT	#Avg Typ	ALIGN AUTO		19 PM Mar 28, 2024 RACE 1 2 3 4 5 6	F	requency
				IFE	Pi IFC	NO: Fast Gain:Low	, P	Trig: Free Atten: 30			٨	/kr1 6.	278 5 GHz 4.73 dBm		Auto Tune
10 dE Log 10.0	3/dIV	ter 20	0.00 dl	Bm				,							<b>Center Freq</b> 5000000 GHz
0.00 - -10.0 -													DL1 -7.58 dBm	3	Start Freq 0.000000 MHz
-20.0 : -30.0 :										1				10.00	<b>Stop Freq</b> 0000000 GHz
-40.0	and a state of the		(ala sugaranti di Manganganti di	ال المراجع الأسلامين	Pagapat			<mark>la<sub>pa</sub>lapatko di</mark> S <sub>han</sub> ting <sup>di</sup> sete	a gal ji kan di part titi k Na seri ka sa katika	gan ye sala da sa		hikoporten alateran Mikoporten antenan	<mark>hyperne</mark> allegenes kinger yn ywede en seggenes my fellen waar skiere e	99 <sup>.</sup> <u>Auto</u>	CF Step 7.000000 MHz Man
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MSG											STA	rus			

Plot 7-130. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 0) - Dual Ant2



Plot 7-131. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 0) - Dual Ant2

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		n Analyzer -											- F ×
L <mark>XI</mark> RL		RF 50	Ω AC	COR	NO:Fast		NSE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRA	PM Mar 28, 2024 CE 1 2 3 4 5 6 PE M	Frec	luency
10 dB/d	liv R	ef 20.00		IFO	Gain:Low	Atten: 30			М		2 0 GHz 25 dBm	A	uto Tune
10.0													nter Fred 00000 GH:
-10.0											DL1 -7.12 dBm		Start Free
-20.0					1								Stop Fred 00000 GH:
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-60.0												Fr	e <b>q Offse</b> 0 H
-70.0	30 MHz									Stop 10	).000 GHz	So Log	cale Type Lii
#Res E	BW 1.0				#VBW	/ 3.0 MHz		s		8.00 ms (3	30001 pts)		
MSG									STAT	US			

Plot 7-132. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 19) - Dual Ant2



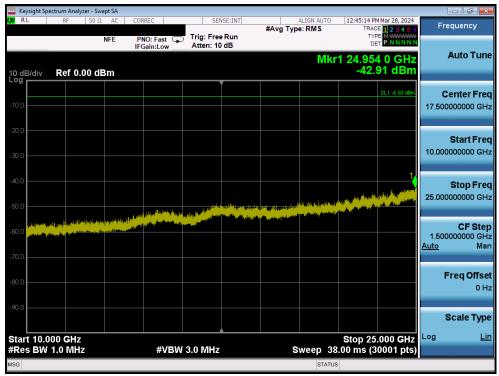
Plot 7-133. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 19) - Dual Ant2

FCC ID: A3LNP960XMA		Approved by: Technical Manager				
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							n Analyzer - Swep		
2:44:49 PM Mar 28, 2024 Frequency   TRACE 1 2 3 4 5 6		#Avg Typ	NSE:INT		RREC	AC CO	RF 50 Ω		XI RI
6.135 6 GHz -35.80 dBm	Mkr1 6.			Trig: Fre Atten: 3	NO:Fast 🕞 Gain:Low	IF	• ef 20.00 di	3/div R	10 dE
Center Freq 5.015000000 GHz									Log 10.0
DL1 -0.50 dBm Start Freq 30.000000 MHz									0.00 -10.0
Stop Fred 10.000000000 GHz		1							-20.0 -30.0
CF Step 997.000000 MHz <u>Auto</u> Mar	a line al la tallet a su della canada della canada del L'Angel Les Françaistes a su della canada L'Angel Les Françaistes a su della canada	an an fallen men hynr a swyfer yn de Mannen fallen fallen fallen fallen fallen fallen fallen fallen fallen fal Mannen fallen				in the factor of	u gana ding karang bagan dan pada ba		-40.0
Freq Offse 0 H;									-60.0
Scale Type									-70.0
top 10.000 GHz Log Lin ms (30001 pts)	Stop weep 18.00 m	s	2	/ 3.0 MHz	#VBW			t 30 MHz s BW 1.0	
	STATUS								MSG

Plot 7-134. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Dual Ant2



Plot 7-135. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 39) - Dual Ant2

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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### 7.7 Radiated Spurious Emission Measurements §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

### **Test Overview and Limit**

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-14 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-14. Radiated Limits

## **Test Procedures Used**

ANSI C63.10-2013 – Section 6.6.4.3

## Test Settings

### Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3kHz > 1/T
- 4. Averaging type was set to RMS to ensure that video filtering was applied in the power domain
- 5. Detector = peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Trace was allowed to run for at least 50 times (1/duty cycle) traces

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## Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW is set depending on measurement frequency, as specified in Table 7-15 below
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Frequency	RBW
9 – 150kHz	200 – 300Hz
0.15 – 30MHz	9 – 10kHz
30 – 1000MHz	100 – 120kHz
> 1000MHz	1MHz

Table 7-15. RBW as a Function of Frequency

## Test Setup

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

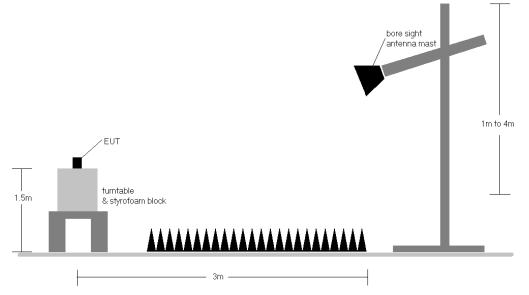


Figure 7-6. Radiated Test Setup >1GHz

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## Test Notes

- 1. All radiated spurious emissions levels were measured in a radiated test setup.
- 2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-14.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Average measurements were recorded using a VBW of 3kHz, per Section 4.1.4.2.3 of ANSI C63.10-2013, since 1/T is equal to just under 3kHz. This method was used because the EUT could not be configured to operate with a duty cycle > 98%. Both average and peak measurements were made using a peak detector
- 7. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9. No Emission was founded above 18GHz.

### **Sample Calculations**

### **Determining Spurious Emissions Levels**

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level  $[dB\mu V/m]$  Limit  $[dB\mu V/m]$

### Radiated Band Edge Measurement Offset

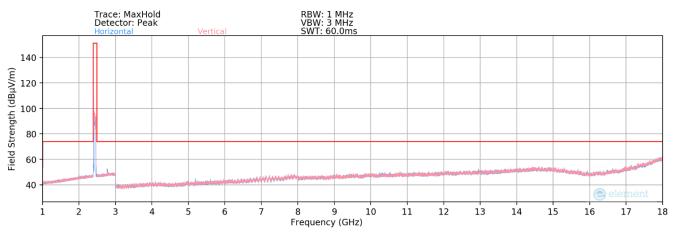
• The amplitude offset shown in the radiated restricted band edge plots in Section 7.8 was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

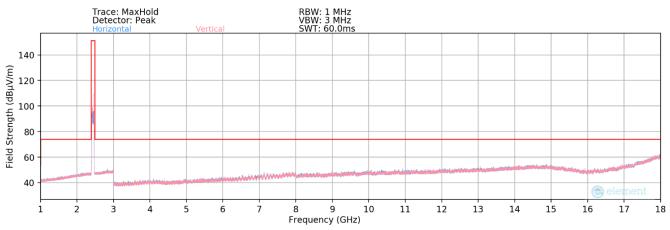
FCC ID: A3LNP960XMA		Approved by: Technical Manager				
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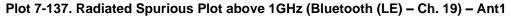


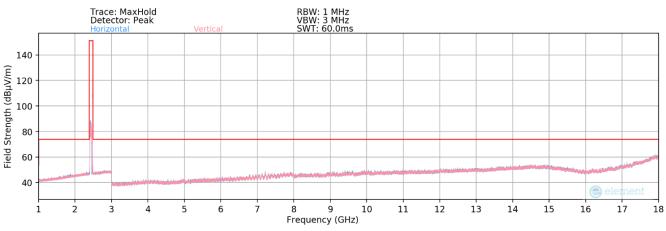
## Radiated Spurious Emission Measurements – Ant1 §15.205 §15.209 §15.247(d); RSS-Gen [8.9]













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## Radiated Spurious Emission Measurements – Ant1 §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

LE
3 Meters
2402MHz
0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4804.00	Avg	V	198	50	-73.35	0.13	33.78	53.98	-20.20
4804.00	Peak	V	198	50	-62.85	0.13	43.95	73.98	-30.03
12010.00	Avg	V	-	-	-81.19	12.88	38.69	53.98	-15.29
12010.00	Peak	V	-	-	-69.94	12.88	49.94	73.98	-24.04

## Table 7-16. Radiated Measurements – Ant1

Bluetooth Mode:LEDistance of Measurements:3 MOperating Frequency:244Channel:19

3 Meters 2440MHz 19

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4880.00	Avg	V	114	359	-72.36	0.36	35.00	53.98	-18.98
4880.00	Peak	V	114	359	-62.94	0.36	44.42	73.98	-29.56
7320.00	Avg	V	-	-	-77.52	6.13	35.61	53.98	-18.37
7320.00	Peak	V	-	-	-65.84	6.13	47.29	73.98	-26.69
12200.00	Avg	V	-	-	-80.64	12.80	39.16	53.98	-14.82
12200.00	Peak	V	-	-	-68.78	12.80	51.02	73.98	-22.96

Table 7-17. Radiated Measurements – Ant1

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Bluetooth Mode:	LE
Distance of Measurements:	3 Meters
Operating Frequency:	2480MHz
Channel:	39

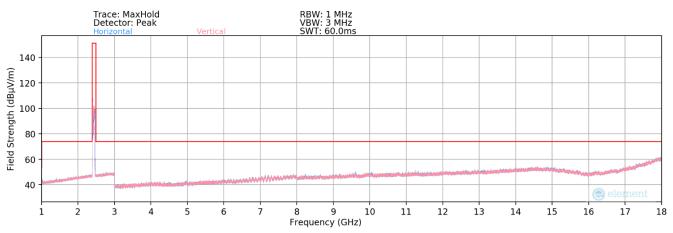
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4960.00	Avg	V	186	49	-76.91	1.41	31.50	53.98	-22.48
4960.00	Peak	V	186	49	-65.69	1.41	42.72	73.98	-31.26
7440.00	Avg	V	-	-	-78.44	6.20	34.76	53.98	-19.22
7440.00	Peak	V	-	-	-67.27	6.20	45.93	73.98	-28.05
12400.00	Avg	V	-	-	-81.76	13.37	38.61	53.98	-15.37
12400.00	Peak	V	-	-	-70.15	13.37	50.22	73.98	-23.76

Table 7-18. Radiated Measurements – Ant1

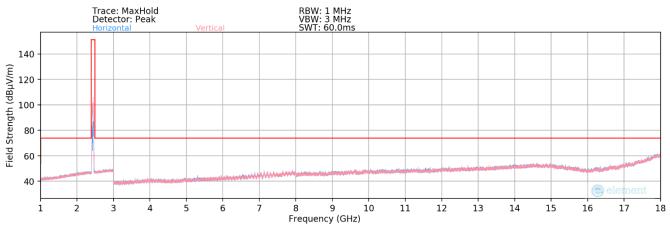
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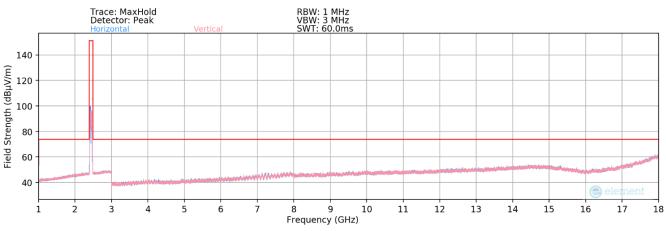
## Radiated Spurious Emission Measurements – Ant2 §15.205 §15.209 §15.247(d); RSS-Gen [8.9]







Plot 7-140. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 19) – Ant2





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## Radiated Spurious Emission Measurements – Ant2 §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Bluetooth Mode:	LE
Distance of Measurements:	3 Meters
Operating Frequency:	2402MHz
Channel:	0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4804.00	Avg	V	-	-	-75.94	0.13	31.19	53.98	-22.79
4804.00	Peak	V	-	-	-62.85	0.13	43.01	73.98	-30.97
12010.00	Avg	V	-	-	-81.18	12.88	38.70	53.98	-15.28
12010.00	Peak	V	-	-	-70.04	12.88	49.84	73.98	-24.14

## Table 7-19. Radiated Measurements – Ant2

Bluetooth Mode: \_\_\_\_\_ Distance of Measurements: \_\_\_\_\_ Operating Frequency: \_\_\_\_\_ Channel:

LE ts: <u>3 Meters</u> 2440MHz

19

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4880.00	Avg	V	-	-	-76.13	0.36	31.23	53.98	-22.75
4880.00	Peak	V	-	-	-64.32	0.36	43.04	73.98	-30.94
7320.00	Avg	V	-	-	-77.48	6.13	35.65	53.98	-18.33
7320.00	Peak	V	-	-	-65.79	6.13	47.34	73.98	-26.64
12200.00	Avg	V	-	-	-80.68	12.80	39.12	53.98	-14.86
12200.00	Peak	V	-	-	-69.13	12.80	50.67	73.98	-23.31

Table 7-20. Radiated Measurements – Ant2

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LE
3 Meters
2480MHz
39

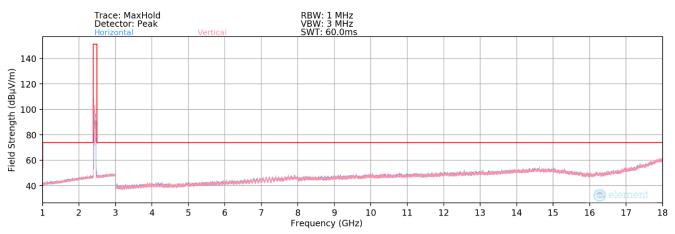
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4960.00	Avg	V	-	-	-76.24	1.41	32.17	53.98	-21.81
4960.00	Peak	V	-	-	-65.36	1.41	43.05	73.98	-30.93
7440.00	Avg	V	-	-	-78.16	6.20	35.04	53.98	-18.94
7440.00	Peak	V	-	-	-68.34	6.20	44.86	73.98	-29.12
12400.00	Avg	V	-	-	-81.39	13.37	38.98	53.98	-15.00
12400.00	Peak	V	-	-	-70.27	13.37	50.10	73.98	-23.88

Table 7-21. Radiated Measurements – Ant2

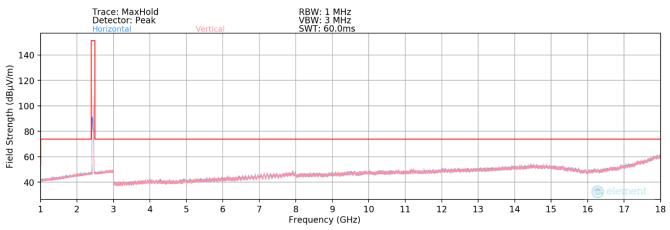
FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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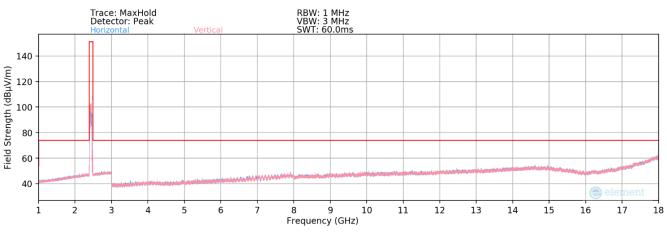
## Radiated Spurious Emission Measurements – Dual §15.205 §15.209 §15.247(d); RSS-Gen [8.9]







Plot 7-143. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 19) – Dual





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# Radiated Spurious Emission Measurements – Dual §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Bluetooth Mode:	LE
Distance of Measurements:	3 Meters
Operating Frequency:	2402MHz
Channel:	0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4804.00	Avg	V	186	38	-72.19	0.13	34.94	53.98	-19.04
4804.00	Peak	V	186	38	-62.85	0.13	43.62	73.98	-30.36
12010.00	Avg	V	-	-	-81.08	12.88	38.80	53.98	-15.18
12010.00	Peak	V	-	-	-69.78	12.88	50.10	73.98	-23.88

## Table 7-22. Radiated Measurements – Dual

Bluetooth Mode:LEDistance of Measurements:3 MOperating Frequency:244Channel:19

3 Meters 2440MHz 19

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4880.00	Avg	V	190	36	-73.13	0.36	34.23	53.98	-19.75
4880.00	Peak	V	190	36	-65.45	0.36	41.91	73.98	-32.07
7320.00	Avg	V	-	-	-77.63	6.13	35.50	53.98	-18.48
7320.00	Peak	V	-	-	-65.06	6.13	48.07	73.98	-25.91
12200.00	Avg	V	-	-	-81.03	12.80	38.77	53.98	-15.21
12200.00	Peak	V	-	-	-68.92	12.80	50.88	73.98	-23.10

Table 7-23. Radiated Measurements – Dual

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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Bluetooth Mode:	LE
Distance of Measurements:	3 Meters
Operating Frequency:	2480MHz
Channel:	39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4960.00	Avg	V	234	40	-74.36	1.41	34.05	53.98	-19.93
4960.00	Peak	V	234	40	-63.59	1.41	44.82	73.98	-29.16
7440.00	Avg	V	-	-	-80.36	6.20	32.84	53.98	-21.14
7440.00	Peak	V	-	-	-66.34	6.20	46.86	73.98	-27.12
12400.00	Avg	V	-	-	-81.32	13.37	39.05	53.98	-14.93
12400.00	Peak	V	-	-	-69.68	13.37	50.69	73.98	-23.29

Table 7-24. Radiated Measurements – Dual

FCC ID: A3LNP960XMA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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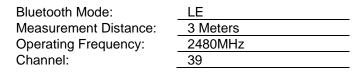


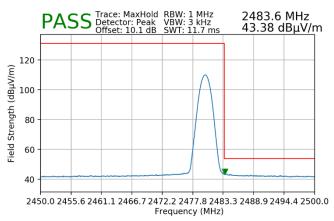
## 7.8 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

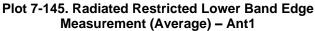
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

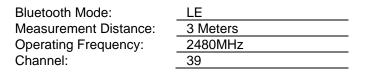
The amplitude offset shown in the following plots for average measurements was calculated using the formula:

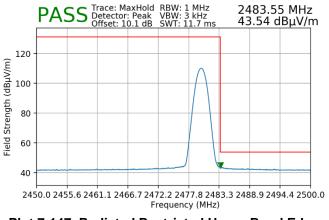
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

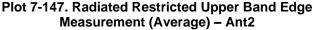


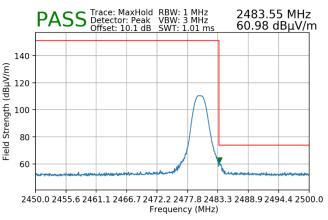




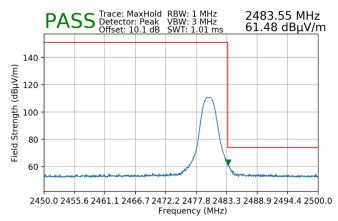


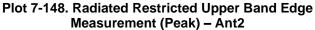






Plot 7-146. Radiated Restricted Lower Band Edge Measurement (Peak) – Ant1

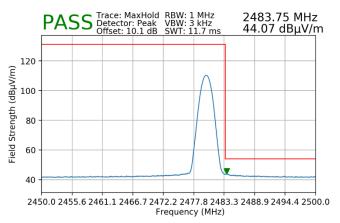




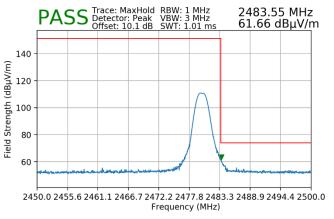
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Bluetooth Mode:	LE
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	39



Plot 7-149. Radiated Restricted Upper Band Edge Measurement (Average) – Dual



Plot 7-150. Radiated Restricted Upper Band Edge Measurement (Peak) – Dual

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## 7.9 Line Conducted Measurement Data §15.207; RSS-Gen [8.8]

## **Test Overview and Limit**

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

## All conducted emissions must not exceed the limits shown in the table below per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-21. Conducted Limits

\*Decreases with the logarithm of the frequency.

### **Test Procedures Used**

ANSI C63.10-2013, Section 6.2

#### **Test Settings**

#### **Quasi-Peak Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

#### Average Field Strength Measurements

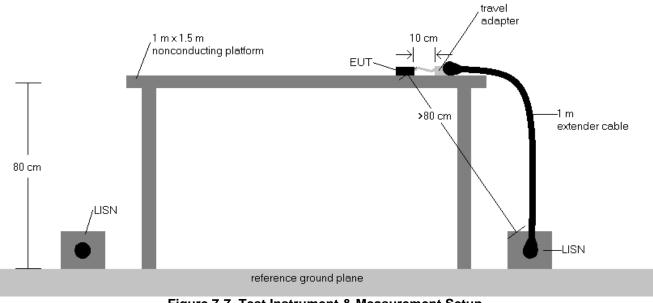
- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

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## Test Setup

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



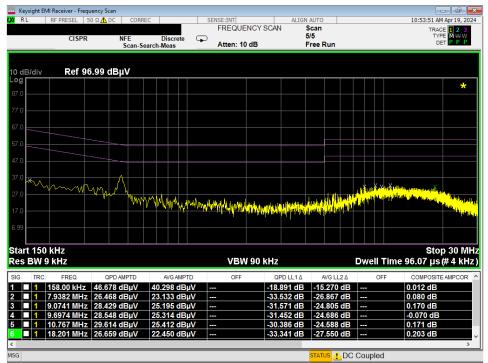
## Figure 7-7. Test Instrument & Measurement Setup

### Test Notes

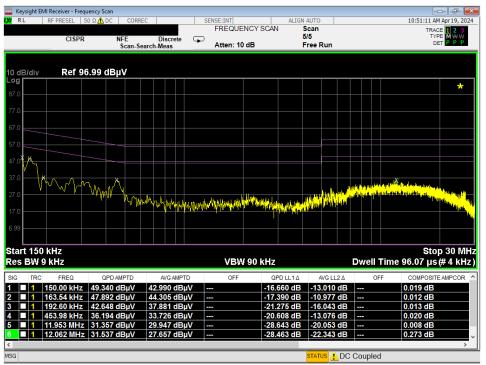
- 1. All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP/AV Level (dB $\mu$ V) = QP/AV Analyzer/Receiver Level (dB $\mu$ V) + Corr. (dB)
- 5. Margin (dB) = QP/AV Limit (dB $\mu$ V) QP/AV Level (dB $\mu$ V)
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.

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Plot 7-151. Line-Conducted Test Plot (L1)



Plot 7-152. Line-Conducted Test Plot (N)

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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Computing Device FCC ID: A3LNP960XMA** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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