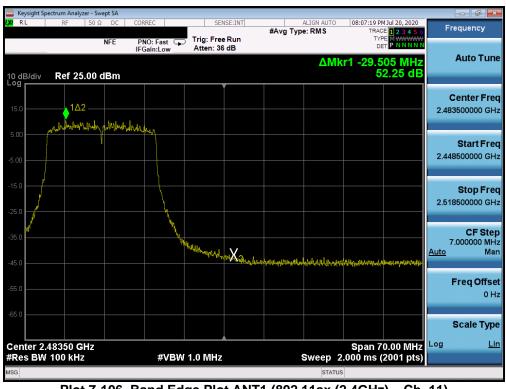


Plot 7-105. Band Edge Plot ANT1 (802.11ax (2.4GHz) - Ch. 1)



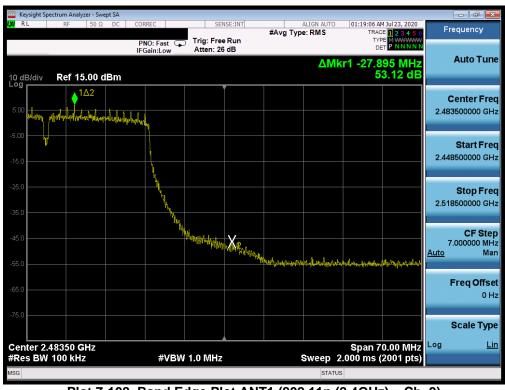
Plot 7-106. Band Edge Plot ANT1 (802.11ax (2.4GHz) - Ch. 11)

FCC ID: A3LSMH204V	PCTEST Presid to be part al @ memory *	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 90 of 119
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Plot 7-107. Band Edge Plot ANT1 (802.11n (2.4GHz) - Ch. 3)



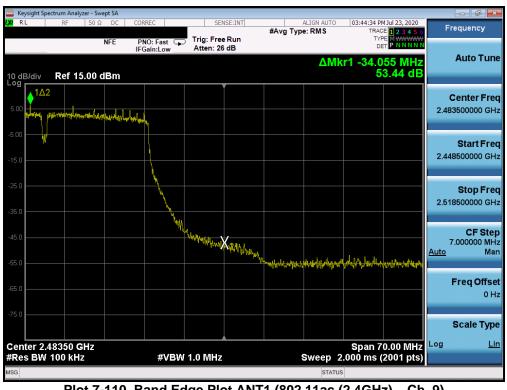
Plot 7-108. Band Edge Plot ANT1 (802.11n (2.4GHz) - Ch. 9)

FCC ID: A3LSMH204V	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dege 01 of 110
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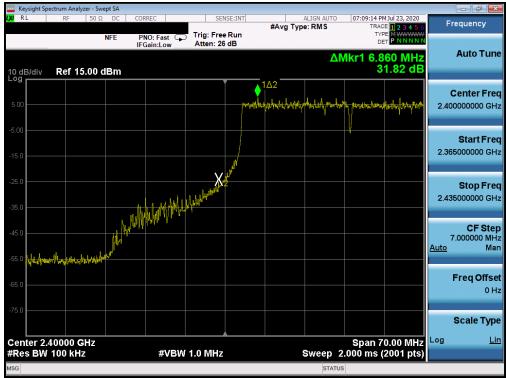
Plot 7-109. Band Edge Plot ANT1 (802.11ac (2.4GHz) - Ch. 3)



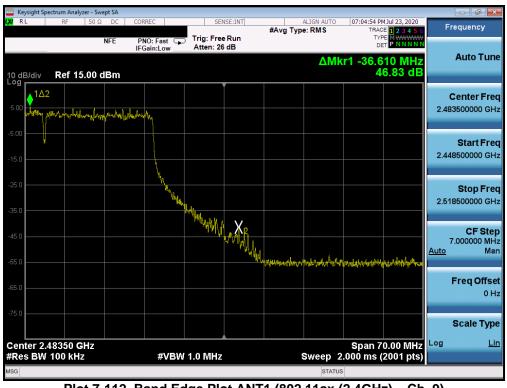
Plot 7-110. Band Edge Plot ANT1 (802.11ac (2.4GHz) - Ch. 9)

FCC ID: A3LSMH204V	PCTEST Protect to be part of the memory of	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 92 of 110
1M2004140062-06.A3L	4/29 - 8/12/2020	Indoor Customer Premises Equipment (CPE)		Page 82 of 118
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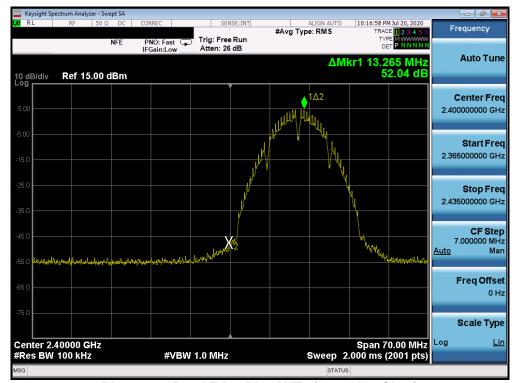
Plot 7-111. Band Edge Plot ANT1 (802.11ax (2.4GHz) - Ch. 3)



Plot 7-112. Band Edge Plot ANT1 (802.11ax (2.4GHz) - Ch. 9)

FCC ID: A3LSMH204V	PCTEST Presid to be part of @ memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		
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Antenna-2 Conducted Emissions at the Band Edge



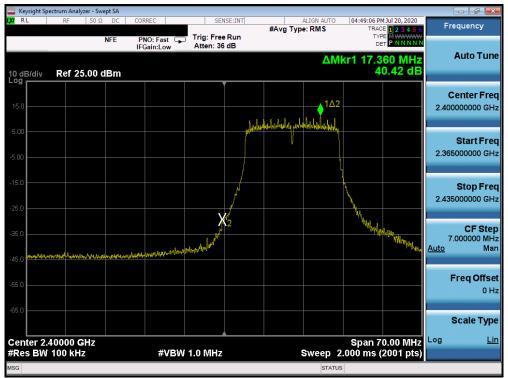


Plot 7-114. Band Edge Plot ANT2 (802.11b - Ch. 11)

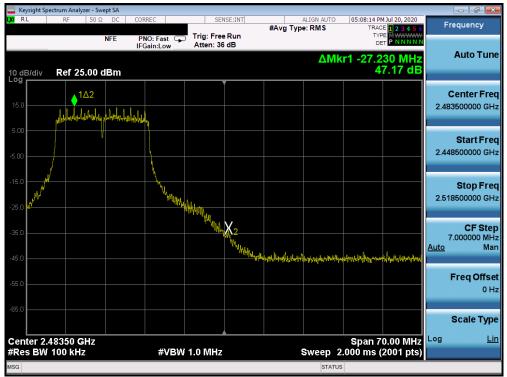
FCC ID: A3LSMH204V	PCTEST Protect to be port of the memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 04 of 110
1M2004140062-06.A3L	4/29 - 8/12/2020	Indoor Customer Premises Equipment (CPE)		Page 84 of 118
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Plot 7-115. Band Edge Plot ANT2 (802.11g- Ch. 1)



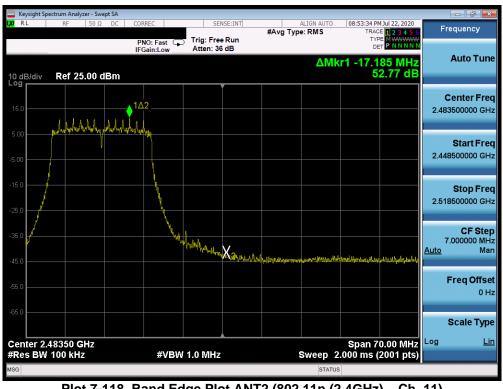
Plot 7-116. Band Edge Plot ANT2 (802.11g – Ch. 11)

FCC ID: A3LSMH204V	PCTEST Protect Si De part el Communication	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dege 95 of 119
1M2004140062-06.A3L	4/29 - 8/12/2020	Indoor Customer Premises Equipment (CPE)		Page 85 of 118
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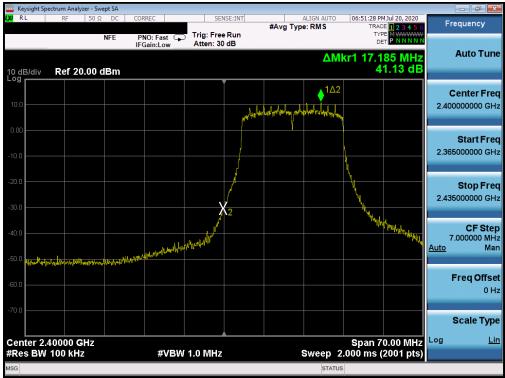
Plot 7-117. Band Edge Plot ANT2 (802.11n (2.4GHz) - Ch. 1)



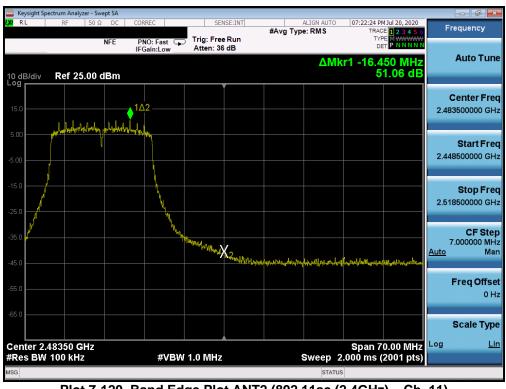
Plot 7-118. Band Edge Plot ANT2 (802.11n (2.4GHz) - Ch. 11)

FCC ID: A3LSMH204V	PCTEST Presid to be part of @ memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		
1M2004140062-06.A3L	4/29 - 8/12/2020	Indoor Customer Premises Equipment (CPE)		Page 86 of 118
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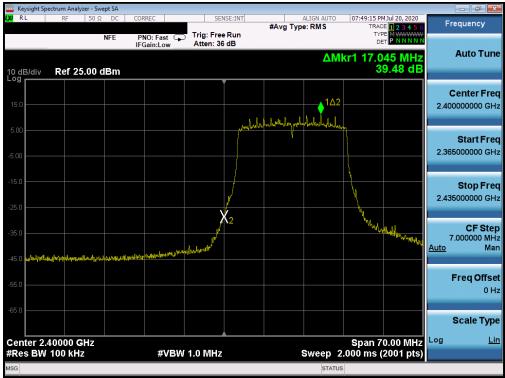
Plot 7-119. Band Edge Plot ANT2 (802.11ac (2.4GHz) - Ch. 1)



Plot 7-120. Band Edge Plot ANT2 (802.11ac (2.4GHz) - Ch. 11)

FCC ID: A3LSMH204V	PCTEST Provid to be post of @ Homeward	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 07 of 110
1M2004140062-06.A3L	4/29 - 8/12/2020	Indoor Customer Premises Equipment (CPE)		Page 87 of 118
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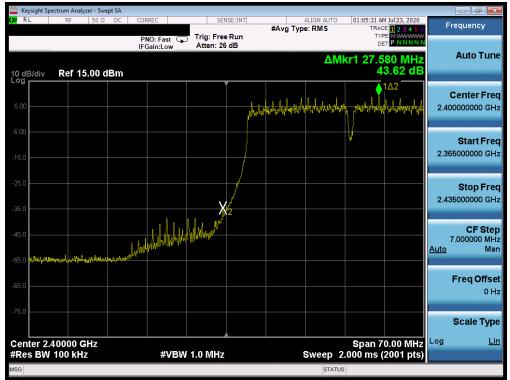
Plot 7-121. Band Edge Plot ANT2 (802.11ax (2.4GHz) - Ch. 1)



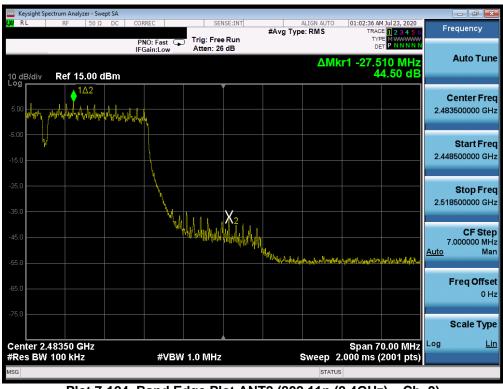
Plot 7-122. Band Edge Plot ANT2 (802.11ax (2.4GHz) - Ch. 11)

FCC ID: A3LSMH204V	PCTEST Presid to be part of @ memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		
1M2004140062-06.A3L	4/29 - 8/12/2020	Indoor Customer Premises Equipment (CPE)		Page 88 of 118
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Plot 7-123. Band Edge Plot ANT2 (802.11n (2.4GHz) - Ch. 3)



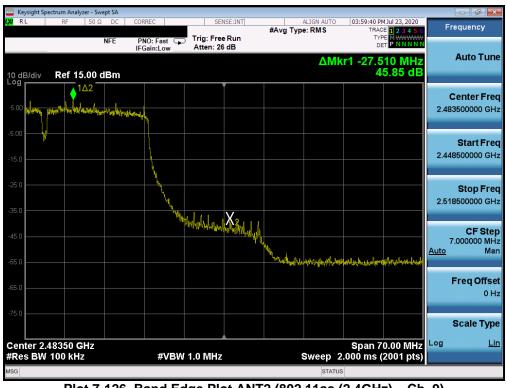
Plot 7-124. Band Edge Plot ANT2 (802.11n (2.4GHz) - Ch. 9)

FCC ID: A3LSMH204V	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 00 of 140
1M2004140062-06.A3L	4/29 - 8/12/2020	Indoor Customer Premises Equipment (CPE)		Page 89 of 118
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Keysight Spectrum Analyzer - Swept SA					
LX RL RF 50Ω DC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	03:56:36 PM Jul 23, 2020 TRACE 1 2 3 4 5 6	Frequency
NFE 10 dB/div Ref 15.00 dBm	PNO: Fast 🖵 T IFGain:Low A	rig: Free Run Atten: 26 dB	ΔΜ	түре Муминий Det P N N N N N kr1 17.185 MHz 40.64 dB	Auto Tune
500		plauluq	142 • • • • • • • • • • • • • • • • • • •	in jeropiteradlinkadystasiskasi	Center Freq 2.400000000 GHz
-5.0				¥	Start Freq 2.365000000 GHz
-35.0		¥2			Stop Freq 2.435000000 GHz
-45.0	where we want the stand of the				CF Step 7.000000 MHz <u>Auto</u> Mar
-65.0					Freq Offse 0 Ha
					Scale Type
Center 2.40000 GHz #Res BW 100 kHz	#VBW 1.0	0 MHz	Sweep 2	Span 70.00 MHz 2.000 ms (2001 pts)	Log <u>Lin</u>
MSG			STATUS	3	

Plot 7-125. Band Edge Plot ANT2 (802.11ac (2.4GHz) - Ch. 3)



Plot 7-126. Band Edge Plot ANT2 (802.11ac (2.4GHz) - Ch. 9)

FCC ID: A3LSMH204V	PCTEST Protect to be post of the memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 00 of 110
1M2004140062-06.A3L	4/29 - 8/12/2020	Indoor Customer Premises Equipment (CPE)		Page 90 of 118
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Plot 7-127. Band Edge Plot ANT2 (802.11ax (2.4GHz) - Ch. 3)



Plot 7-128. Band Edge Plot ANT2 (802.11ax (2.4GHz) - Ch. 9)

FCC ID: A3LSMH204V	PCTEST Protect to be port of the memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 01 of 110	
1M2004140062-06.A3L	6.A3L 4/29 - 8/12/2020 Indoor Customer Premises Equipment (CPE)			Page 91 of 118	
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7.6 Conducted Spurious Emissions §15.247(d); RSS-247 [5.5]

Test Overview and Limit

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. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for "b", "g", "n", "ax" modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in "b" mode at 1 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 30dB 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 11.1 of ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3 KDB 558074 D01 v05r02 – Section 8.5 ANSI C63.10-2013 – Section 14.3.3 KDB 662911 D01 v02r01 – Section E)3)b)

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

FCC ID: A3LSMH204V	PCTEST Proted to be part al @ memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 02 of 110	
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Test Notes

- 1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
- 2. The display line shown in the following plots denotes the limit at 30dB 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 30dB 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.
- 4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.

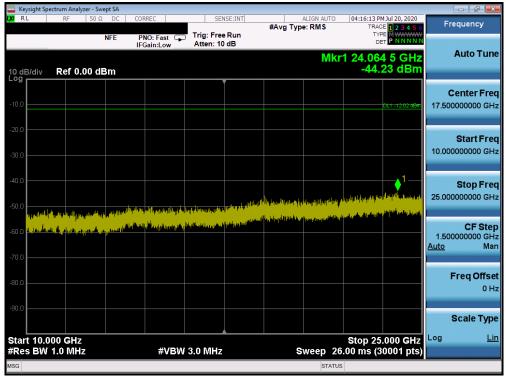
FCC ID: A3LSMH204V	Posta to be part al @ merrored	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 02 of 119	
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Antenna-1 Conducted Spurious Emission



Plot 7-129. Conducted Spurious Plot ANT1 (802.11b - Ch. 1)



Plot 7-130. Conducted Spurious Plot ANT1 (802.11b - Ch. 1)

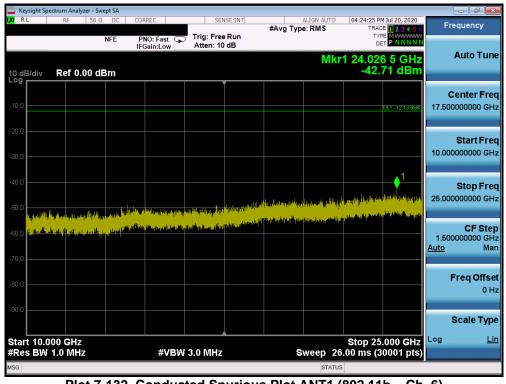
FCC ID: A3LSMH204V	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 04 of 119
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Nikit 1 5.002 4 CH2 O dB/div Ref 25.00 dBm Start Fre Stor Fre	🧧 Keysight Spectrum Analyzer - S	wept SA				
Inc. Inc. Atten: 36 dB Der PINNNN Mkr1 9.862 4 GHz -25.55 dBm Auto Tur 10 dB/div Ref 25.00 dBm Center Fre 5.01500000 GH 500 Image: Start Fre 30.000000 GHz Image: Start Fre 30.000000 GHz 500 Image: Start Fre 30.000000 GHz Image: Start Fre 30.000000 GHz 500 Image: Start Fre 30.000000 GHz Image: Start Fre 30.000000 GHz 500 Image: Start Fre 30.000000 GHz Image: Start Fre 30.0000000 GHz 510 Image: Start Fre 30.0000000 GHz Image: Start Fre 30.0000000 GHz 510 Image: Start Fre 30.000000 GHz Image: Start Fre 30.000000 GHz 510 Image: Start Fre 30.000000 GHz Image: Start Fre 30.000000 GHz 510 Image: Start Fre 30.000000 GHz Image: Start Fre 30.000000 GHz 510 Image: Start Fre 30.00000 GHz Image: Start Fre 30.000000 GHz 610 Image: Start Fre 30.00000 GHz Image: Start Fre 30.00000 GHz 610 Image: Start Fre 30.00000 GHz Image: Start Fre 30.00000 GHz 610 Image: Start Fre 30.0000 GHz Image: Start Fre 30.0000 GHz 610 Image: Start Fre 30.0000 GHz	M RL RF 50	Ω DC CORREC			TRACE 1 2 3 4 5 6	Frequency
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Start 30 MHz						Center Freq 5.015000000 GHz
-5.00 0.1-1213 den -15.0 0.1-1213 den -25.0 0.1-1213 den -35.0 0.1-1213 den						Start Free
-250 					DL1 -12:13 dBm	Stop Free
45.0 45.0	-35.0	and the state of the	Carl and the second	الله ومن الله من الله ومن الل ومن الله ومن	n television de la constance d La constance de la constance de	CF Stej 997.000000 MH
65.0 G5.0	45.0 4					Auto Mai Freq Offse
						0Н I Scale Type
		#V	/BW 3.0 MHz	Sweep 18		

Plot 7-131. Conducted Spurious Plot ANT1 (802.11b - Ch. 6)



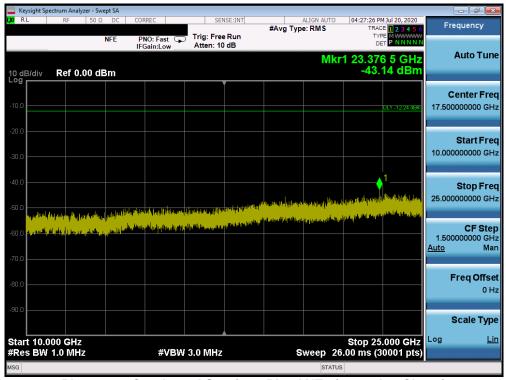
Plot 7-132. Conducted Spurious Plot ANT1 (802.11b - Ch. 6)

FCC ID: A3LSMH204V	Protest	MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage OF of 110
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	ectrum Analyze											
L <mark>XI</mark> RL	RF	50 Ω DC	CORREC		SEN	ISE:INT	#Avg Typ	ALIGN AUTO		PM Jul 20, 2020	Freq	Jency
		NFE	PNO: IFGain	Fast 🖵 :Low	Trig: Free Atten: 36				T			
10 dB/div	Ref 25.	.00 dBm						Μ	kr1 9.80 -25	2 9 GHz .65 dBm	A	uto Tune
15.0												n ter Freq 10000 GHz
-5.00										DL1 -12.24 dBm		t art Freq 0000 MHz
-15.0								n. 14 1.	Installation of the state of th			top Freq 10000 GHz
-35.0	رور ورور بر المراجع الالالية المراجع ورور ورور المراجع	and the state of the	energen (na bin eta educe (na bi	(kaya) ^{la k} ay ngyan ^{ti} ng	in and a state	nisty, diapolisa Veta, diapolisa	Malakan Marak Musukan di	anger ander anderen Anger anderen angeren	na dhergebbereyektive oo gebeyeebbe yekkeese	ار الله بنظان و السرية. ا	997.00 <u>Auto</u>	CF Step 0000 MHz Man
-55.0											Fre	e q Offset 0 Hz
-65.0 Start 30 M									Stop_1	0.000 GHz	Sc Log	ale Type <u>Lin</u>
#Res BW				#VBW	3.0 MHz		s	weep 1	8.00 ms (30001 pts)		
мsg 🤙 Poin	ts changed	d; all traces	s cleared					STATU	JS			

Plot 7-133. Conducted Spurious Plot ANT1 (802.11b - Ch. 11)

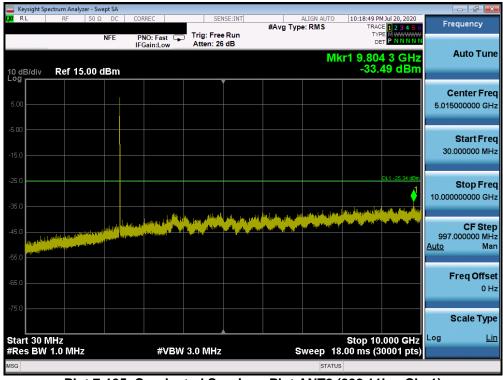


Plot 7-134. Conducted Spurious Plot ANT1 (802.11b - Ch. 11)

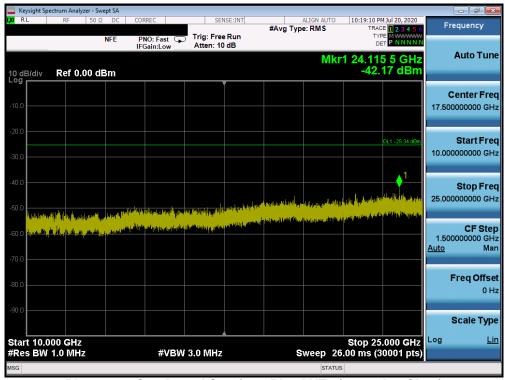
FCC ID: A3LSMH204V	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 06 of 110
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Antenna-2 Conducted Spurious Emissions



Plot 7-135. Conducted Spurious Plot ANT2 (802.11b - Ch. 1)



Plot 7-136. Conducted Spurious Plot ANT2 (802.11b - Ch. 1)

FCC ID: A3LSMH204V	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 07 of 119	
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	ctrum Analyzer - Sw												
LXI RLT	RF 50 Ω	AC	COR	REC		SENS	SE:INT	#Avg Ty	ALIGN AUT	0 01:24	4:52 AM Aug 01, 202 TRACE 1 2 3 4 5		requency
			PN IFC	NO:Fast C Gain:Low		: Free n: 26						Ň	A
10 dB/div Log	Ref 15.00 (dBm								/lkr1 9 -	.987 0 GH 42.40 dBn		Auto Tune
													Center Freq
5.00												5.0	15000000 GHz
-5.00													Start Freq
-15.0												3	0.000000 MHz
-25.0											DL1 -24.57 dB		Stop Freq
-35.0												10.0	00000000 GHz
											1		CF Step
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-55.0	Last of the second s												
-65.0													Freq Offset 0 Hz
-75.0													
													Scale Type
Start 30 N #Res BW				#\/P	W 3.0 N	111-7			Swoon		p 10.000 GH: is (30001 pts		Lin
#Res BW				#VD	W 3.0 N	anz				18.00 m	is (autor pis	2	

Plot 7-137. Conducted Spurious Plot ANT2 (802.11b - Ch. 6)



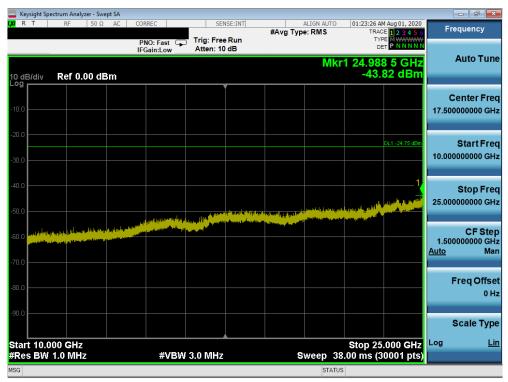
Plot 7-138. Conducted Spurious Plot ANT2 (802.11b - Ch. 6)

FCC ID: A3LSMH204V	PCTEST Provid to be poet of the memory of	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 00 of 110	
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									r x
LXU RLT RF 50Ω AC	CORREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO e: RMS		4 Aug 01, 2020	Freque	ency
	PNO: Fast 🖵	Trig: Free Atten: 26		• ,,		TYP			
	IFGain:Low	Atten: 20	ub		M	kr1 5.91	3 6 4 7	Aut	o Tune
10 dB/div Ref 15.00 dBm						-42.	15 dBm		_
Log								Cent	er Freg
5.00								5.015000	
-5.00								Sta	urt Freq
-15.0									000 MHz
-13.0									
-25.0							DL1 -24.75 dBm	Ste	op Freq
								10.000000	
-35.0				1					
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-45.0		And the second second second	National States of the second s	a destruction of the second	And the state of the second	in a second second second second	a sector a	997.000 Auto	000 MHz Man
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								Free	Offset
-65.0								1100	0 Hz
-75.0									
-/3.0								Sca	le Type
								Log	Lin
Start 30 MHz #Res BW 1.0 MHz	#VBW	3.0 MHz		s	weep 1	Stop 10 8.00 ms (3	.000 GHz 0001 pts)	LUg	<u>_m</u>
MSG					STATU				

Plot 7-139. Conducted Spurious Plot ANT2 (802.11b - Ch. 11)



Plot 7-140. Conducted Spurious Plot ANT2 (802.11b - Ch. 11)

FCC ID: A3LSMH204V	PCTEST Protect to be port of the memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 00 of 110
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7.7 Radiated Spurious Emission Measurements – Above 1 GHz §15.247(d) §15.205 & §15.209; 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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. 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 7-13 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-13. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3 KDB 558074 D01 v05r02 – Sections 8.6, 8.7

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 = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. 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.

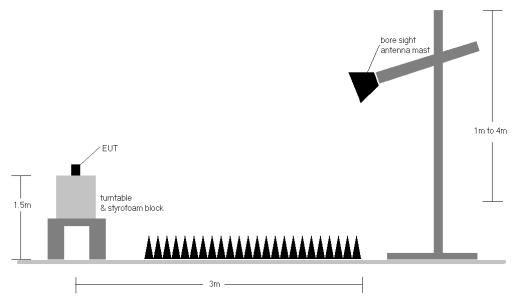


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

- The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
- 2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-13.
- 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 while powered by an DC power source.
- 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. 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.
- 7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions

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produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.

- 8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

- ο Field Strength Level [dB_μV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

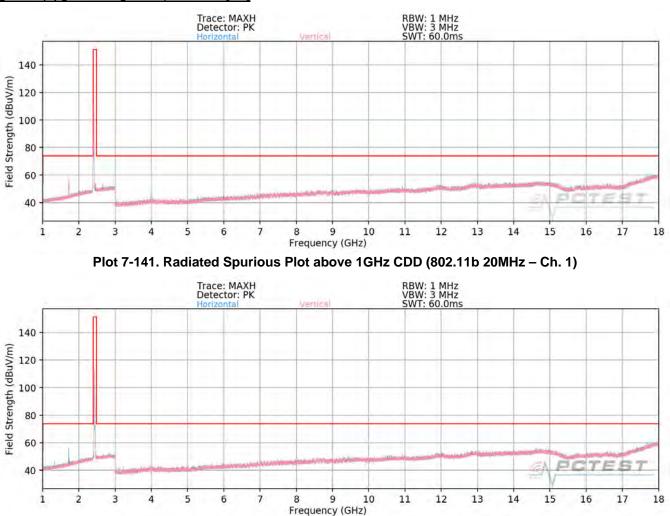
Radiated Band Edge Measurement Offset

• The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

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

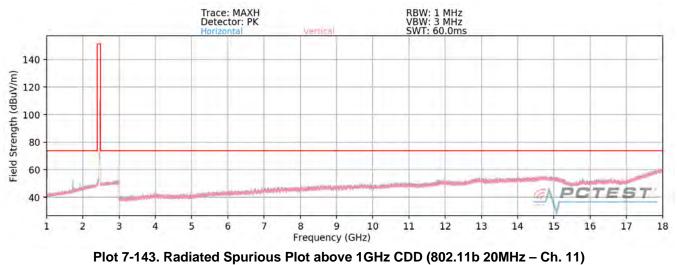
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7.7.1 MIMO/CDD Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

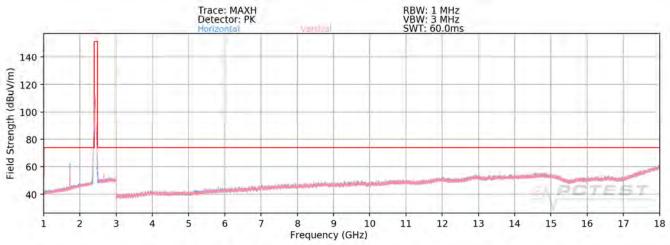




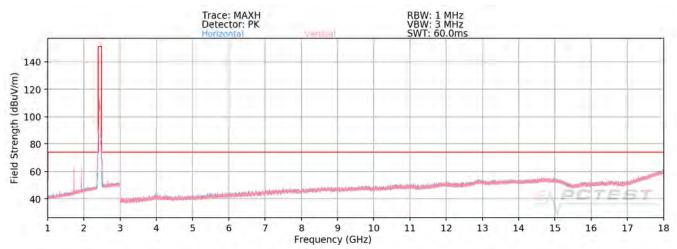
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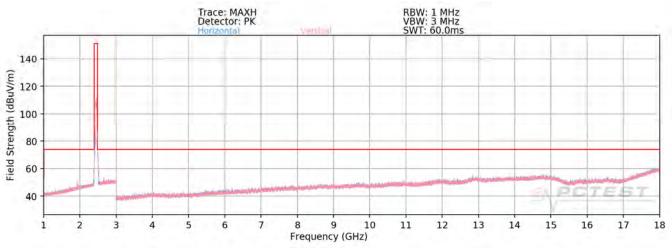










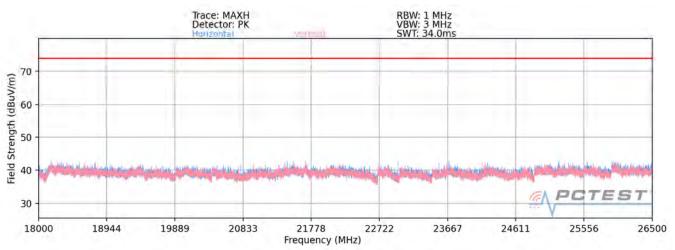


Plot 7-146. Radiated Spurious Plot above 1GHz MIMO (802.11n 40MHz - Ch. 9)

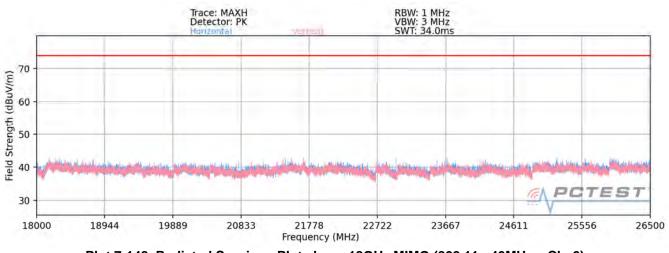
FCC ID: A3LSMH204V	PCTEST Protect at the post of the memory	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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MIMO/CDD Radiated Spurious Emissions Measurements (Above 18GHz) §15.209; RSS-Gen [8.9]



Plot 7-147. Radiated Spurious Plot above 18GHz CDD (802.11b 20MHz – Ch. 6)



Plot 7-148. Radiated Spurious Plot above 18GHz MIMO (802.11n 40MHz - Ch. 6)

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MIMO/CDD Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11b
Bandwidth:	20MHz
Worst Case Transfer Rate:	6 Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

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]
4824.00	Avg	Н	-	-	-76.34	1.83	32.49	53.98	-21.49
4824.00	Peak	Н	-	-	-66.95	1.83	41.88	73.98	-32.10
12060.00	Avg	н	-	-	-73.89	15.01	48.12	53.98	-5.86
12060.00	Peak	Н	-	-	-66.87	15.01	55.14	73.98	-18.84

Table 7-14. Radiated Measurements CDD

Worst Case Mode: Bandwidth: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel:

80)2.11b
20)MHz
6	Mbps
3	Meters
24	137MHz
06	3

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]
4874.00	Avg	Н	-	-	-77.89	2.08	31.19	53.98	-22.79
4874.00	Peak	н	-	-	-67.59	2.08	41.49	73.98	-32.49
7311.00	Avg	н	-	-	-78.86	8.37	36.51	53.98	-17.47
7311.00	Peak	Н	-	-	-67.24	8.37	48.13	73.98	-25.85
12185.00	Avg	н	-	-	-76.37	15.26	45.89	53.98	-8.09
12185.00	Peak	Н	-	-	-67.02	15.26	55.24	73.98	-18.74

Table 7-15. Radiated Measurements CDD

FCC ID: A3LSMH204V	PCTEST Presid to be part of the mark	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11b
Bandwidth:	20MHz
Worst Case Transfer Rate:	6 Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

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]
4924.00	Avg	Н	-	-	-76.31	1.94	32.63	53.98	-21.35
4924.00	Peak	Н	-	-	-67.54	1.94	41.40	73.98	-32.58
7386.00	Avg	Н	-	-	-77.86	8.56	37.70	53.98	-16.28
7386.00	Peak	Н	-	-	-67.95	8.56	47.61	73.98	-26.37
12310.00	Avg	Н	-	-	-78.41	15.23	43.82	53.98	-10.16
12310.00	Peak	Н	-	-	-67.89	15.23	54.34	73.98	-19.64

Table 7-16. Radiated Measurements CDD

Worst Case Mode:	802.11b
Bandwidth:	40MHz
Worst Case Transfer Rate:	6 Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2422MHz
Channel:	03

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]
4824.00	Avg	Н	-	-	-76.34	1.83	32.49	53.98	-21.49
4824.00	Peak	н	-	-	-66.95	1.83	41.88	73.98	-32.10
12060.00	Avg	н	-	-	-73.89	15.01	48.12	53.98	-5.86
12060.00	Peak	Н	-	-	-66.87	15.01	55.14	73.98	-18.84

Table 7-17. Radiated Measurements MIMO

FCC ID: A3LSMH204V	Post to be part of the ment	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11b
Bandwidth:	20MHz
Worst Case Transfer Rate:	6 Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2437MHz
Channel:	06

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]
4874.00	Avg	Н	-	-	-77.89	2.08	31.19	53.98	-22.79
4874.00	Peak	н	-	-	-67.59	2.08	41.49	73.98	-32.49
7311.00	Avg	Н	-	-	-78.86	8.37	36.51	53.98	-17.47
7311.00	Peak	Н	-	-	-67.24	8.37	48.13	73.98	-25.85
12185.00	Avg	Н	-	-	-76.37	15.26	45.89	53.98	-8.09
12185.00	Peak	Н	-	-	-67.02	15.26	55.24	73.98	-18.74

Table 7-18. Radiated Measurements MIMO

Worst Case Mode: Bandwidth: Worst Case Transfer Rate: Distance of Measurements: **Operating Frequency:** Channel:

802.11b
20MHz
6 Mbps
3 Meters
2452MHz
09

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]
4924.00	Avg	Н	-	-	-76.31	1.94	32.63	53.98	-21.35
4924.00	Peak	Н	-	-	-67.54	1.94	41.40	73.98	-32.58
7386.00	Avg	н	-	-	-77.86	8.56	37.70	53.98	-16.28
7386.00	Peak	Н	-	-	-67.95	8.56	47.61	73.98	-26.37
12310.00	Avg	Н	-	-	-78.41	15.23	43.82	53.98	-10.16
12310.00	Peak	Н	-	-	-67.89	15.23	54.34	73.98	-19.64

Table 7-19. Radiated Measurements MIMO

FCC ID: A3LSMH204V	PCTEST Proted to be post of the memory of	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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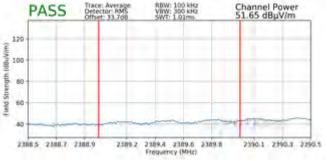


7.7.2 MIMO Radiated Restricted Band Edge Measurements

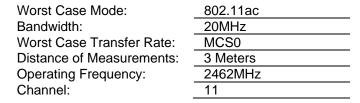
§15.205 §15.209; RSS-Gen [8.9]

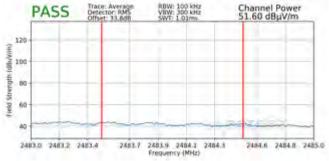
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11g
Bandwidth:	20MHz
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

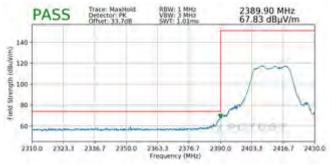


Plot 7-149. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

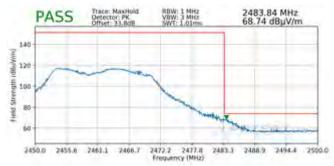




Plot 7-151. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-150. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

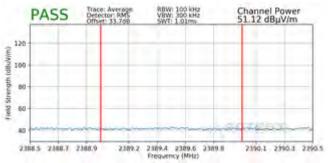


Plot 7-152. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: A3LSMH204V	PCTEST Protect to generated	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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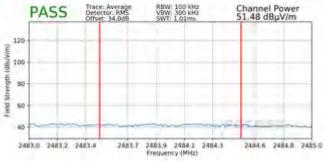


Worst Case Mode:	802.11ax
Bandwidth:	40MHz
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2422MHz
Channel:	3



Plot 7-153. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

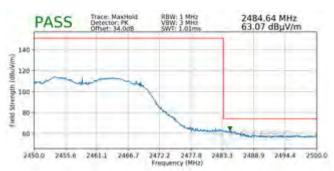
Worst Case Mode:	802.11ax
Bandwidth:	40MHz
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	2452MHz
Channel:	9



Plot 7-155. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-154. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)



Plot 7-156. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

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7.8 Radiated Spurious Emissions Measurements – Below 1GHz §15.209; 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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. 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 7-20 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 7-20. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 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 diagrams below.

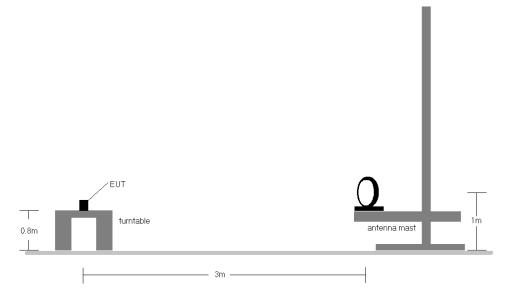
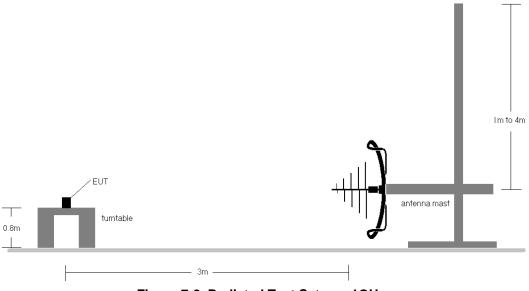
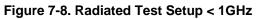


Figure 7-7. Radiated Test Setup < 30Mhz





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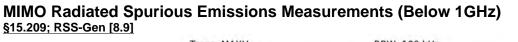


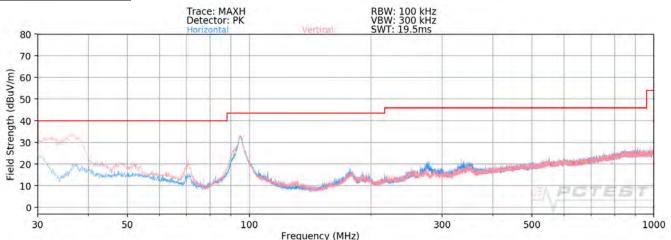
Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-20.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
- 3. This unit was tested while powered by an DC power source.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

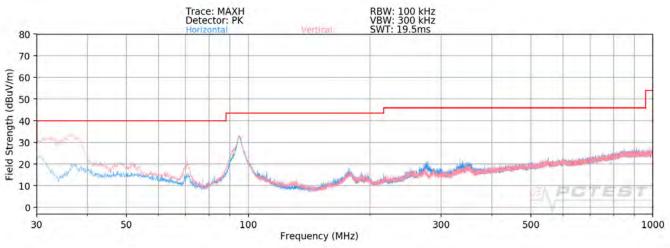
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Plot 7-157. Radiated Spurious Plot below 1GHz CDD (802.11b 20MHz - Ch. 6)



Plot 7-158. Radiated Spurious Plot below 1GHz MIMO (802.11n 40MHz - Ch. 6)

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7.9 Line-Conducted Test 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

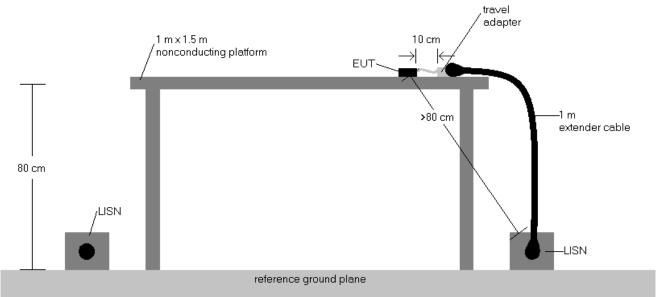
- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

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Test Setup

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



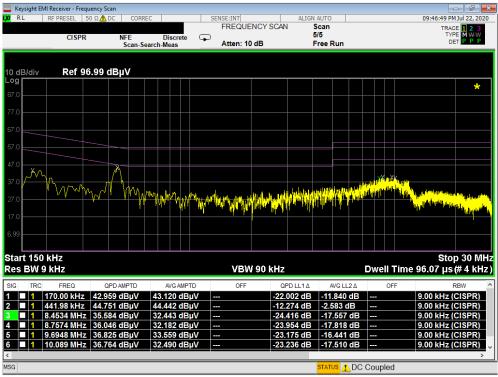


Test Notes

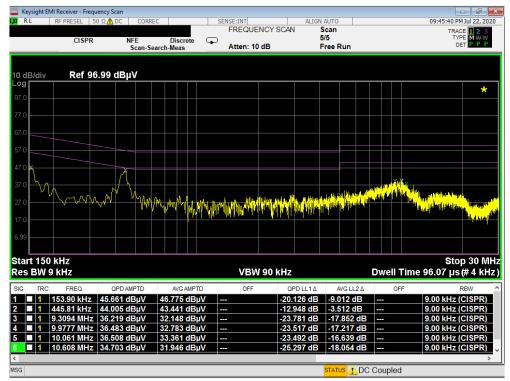
- All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
-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

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Plot 7-159. Line Conducted Plot with 802.11b (L1)





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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Indoor Customer Premises Equipment (CPE) FCC ID: A3LSMH204V** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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