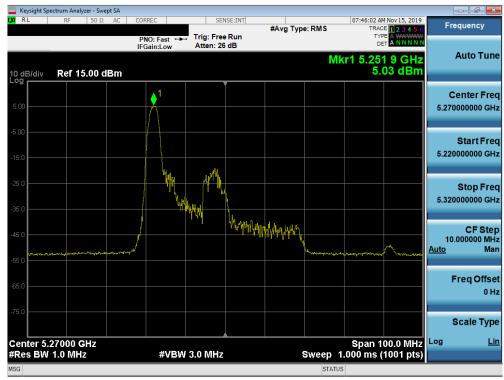




Plot 7-225. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



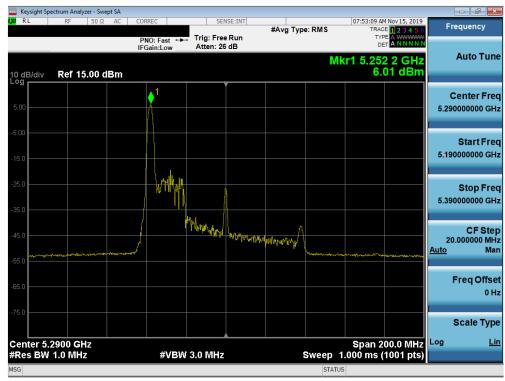
Plot 7-226. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	m Analyzer - Swept SA								
L <mark>XI</mark> RL	RF 50 Ω AC	CORREC	SEN	ISE:INT	#Avg Ty	e: RMS		H Nov 15, 2019	Frequency
		PNO: Fast ++- IFGain:Low	Trig: Free Atten: 26				TYF		
		IF Gall.LOW	,			M	kr1 5.30	3 5 GHz	Auto Tun
10 dB/div R	ef 15.00 dBm						5.	88 dBm	
									Center Fre
5.00			<u> </u>						5.310000000 GH
-5.00									Start Fre
45.0									5.260000000 GH
-15.0									
-25.0			AN WY	h.					Stop Fre
		1 AMA	ď.	W.					5.360000000 GH
-35.0					MULLINU MAL				
		1 · · · ·			MAN AND AND				CF Ste
-45.0		1				Y,			10.000000 MH <u>Auto</u> Ma
-55.0	and the second					man	•••• • •••••••••••••••••••••••••••••••	mon monto	Auto Wa
									FreqOffse
-65.0									0 H
75.0									
-75.0									Scale Typ
Center 5.310 #Res BW 1.0		#VBW	3.0 MHz			Sween	Span 1 1.000 ms (00.0 MHz 1001 pts)	Log <u>Li</u>
MSG		<i></i>	010 141112			STAT		ree i pis)	

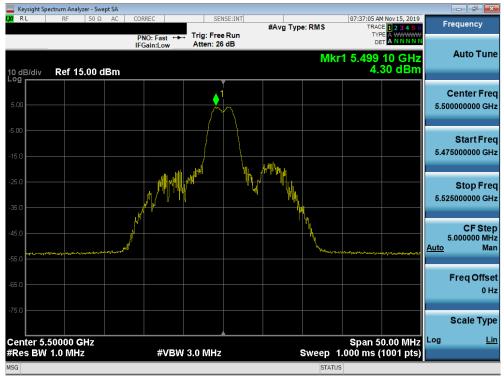
Plot 7-227. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



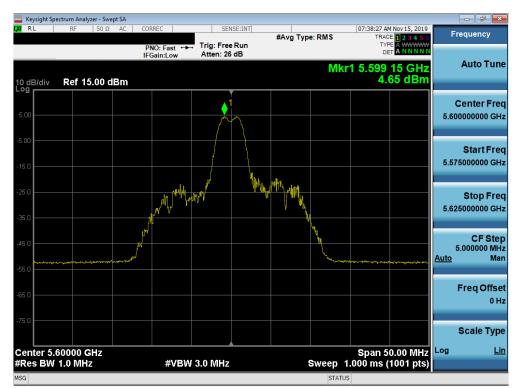
Plot 7-228. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 164 of 265
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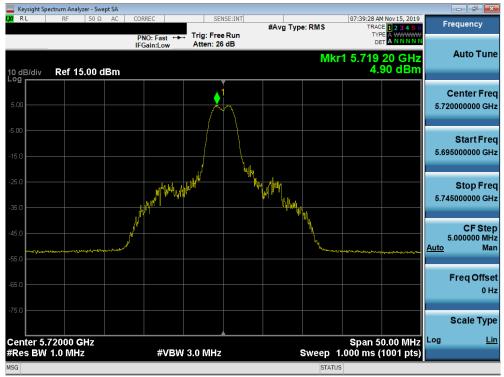
Plot 7-229. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



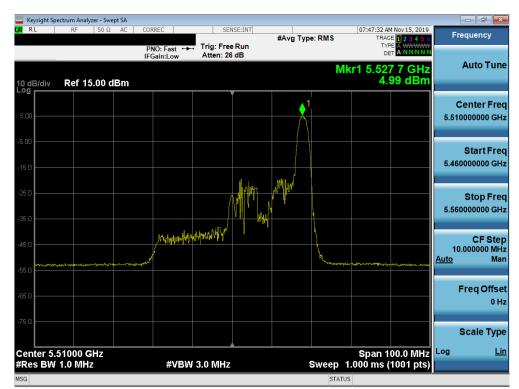
Plot 7-230. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMG986W	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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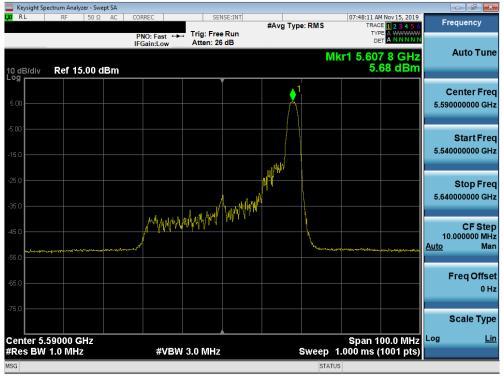
Plot 7-231. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



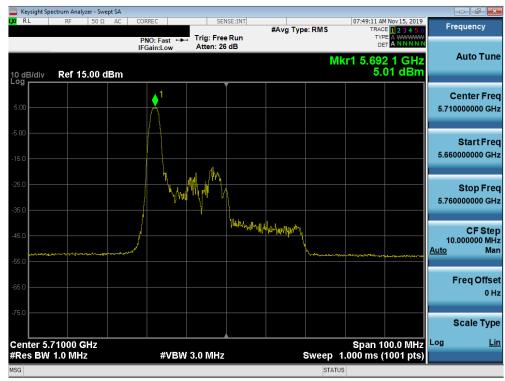
Plot 7-232. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMG986W	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	NG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 166 at 265
1M1911010179-06.A3L	10/11/19 - 01/20/20	ortable Handset		Page 166 of 265
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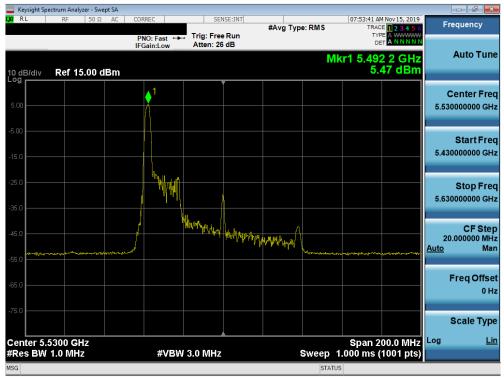
Plot 7-233. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



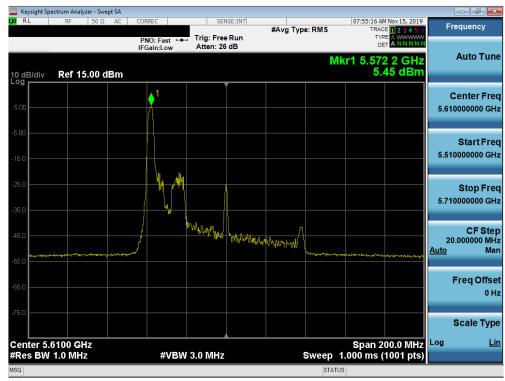
Plot 7-234. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 167 of 265
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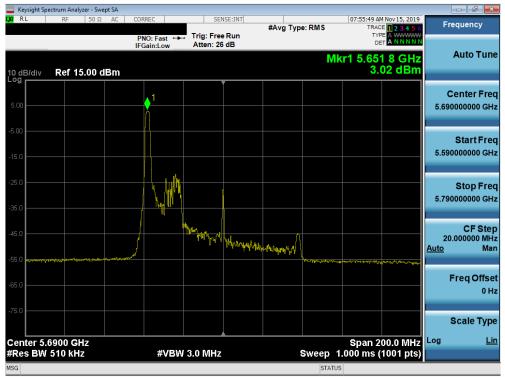
Plot 7-235. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-236. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMG986W	<u>PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-237. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)



Plot 7-238. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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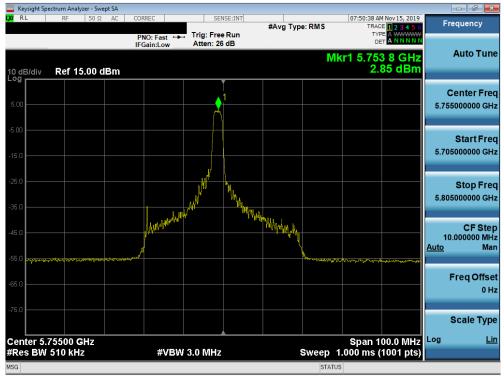
Plot 7-239. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)



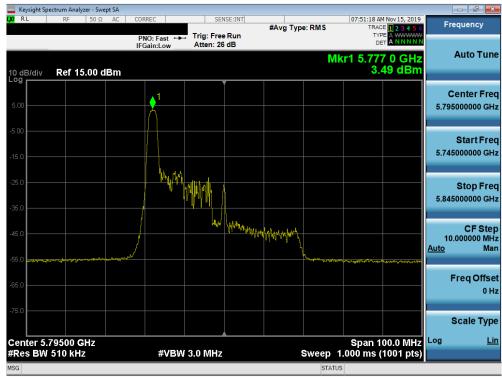
Plot 7-240. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-241. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)



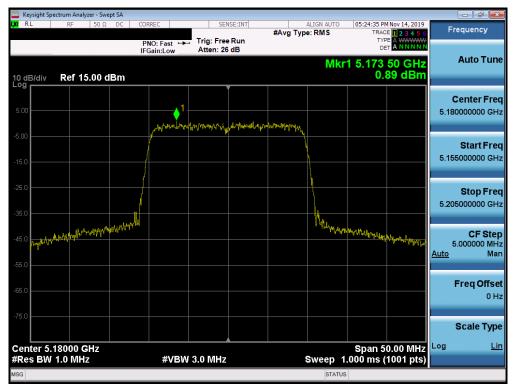
Plot 7-242. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)

FCC ID: A3LSMG986W	<u>PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ctrum Analyze											_	
X/RL	RF	50 Ω	AC	CORREC			NSE:INT	#Avg Typ	e:RMS	TRAC	M Nov 15, 2019 DE 1 2 3 4 5 6	Fr	equency
				PNO: Fa		Trig: Free Atten: 26							Auto Tune
10 dB/div Log	Ref 15.	00 dE	sm						N	lkr1 5.73 6.	6 8 GHz 47 dBm		Auto Tulle
				♦ ¹								C	Center Free
5.00				Â								5.77	5000000 GH:
-5.00													Start Free
15.0					.uh							5.67	5000000 GH:
25.0							1						Stop Free
35.0						ı.	1					5.87	5000000 GH
45.0				1		""My tuthing	man	'MAMAANAN/	\			20	CF Stej .000000 MH
55.0	1959 Marina Marina	ل <mark>اس</mark> وسمبەر مرامينا	n an	/				audikéhé	hummen	hay all marginess and the second	W ⁴ ************************************	<u>Auto</u>	Maı
65.0													Freq Offse
													0 H
75.0													Scale Type
Center 5.7 #Res BW		2			έν Βιλί	3.0 MHz			Sween	Span 2 1.000 ms (200.0 MHz	Log	Lir
ISG	110 101112					0.0 191112			STAT		roor pts)		

Plot 7-243. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)



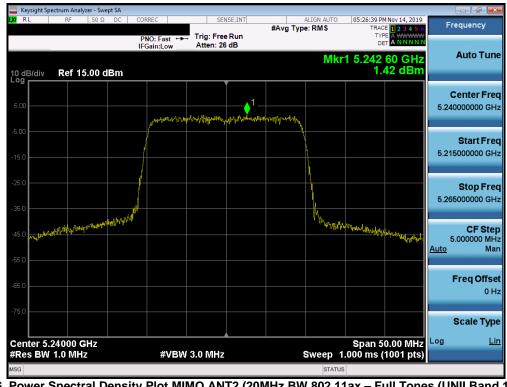
Plot 7-244. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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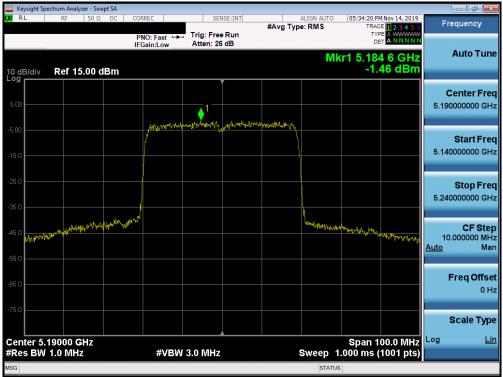
Plot 7-245. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)



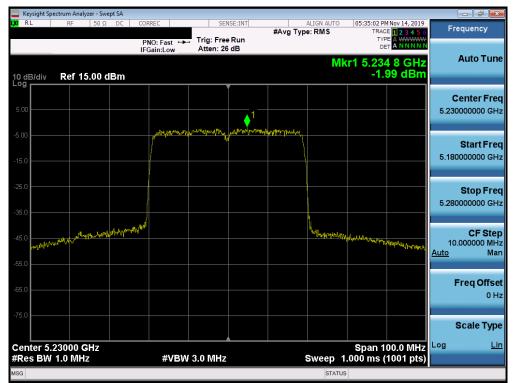
Plot 7-246. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-247. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)



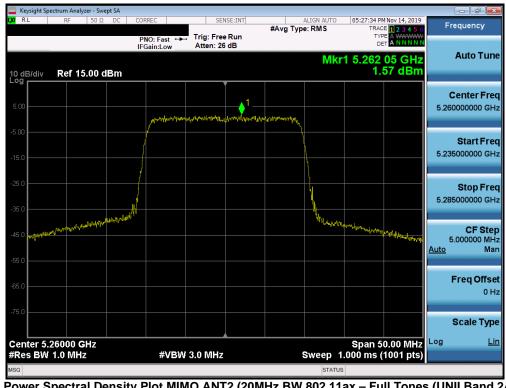
Plot 7-248. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analyze									- 6 -
LXI RL	RF	50 Ω DC	CORREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO		MNov 14, 2019	Frequency
			PNO: Fast ← IFGain:Low	Trig: Fre Atten: 2				TYF De		Auto Tune
10 dB/div Log	Ref 15.	.00 dBm					M	(r1 5.20) -6.	3 8 GHz 96 dBm	Auto Tune
					Ĭ					Center Freq
5.00										5.210000000 GHz
-5.00				∮ 1						
			(And the second	and the second second	harnerhanne	wellow whether and				Start Freq 5.110000000 GHz
-15.0										
-25.0										Stop Freq
										5.310000000 GHz
-35.0										
-45.0		por and the second	Hand				Margel way and produced and	how have have a second		CF Step 20.000000 MHz
-55.0	Wray are							an a serie of the series of the	and the contraction of the second	<u>Auto</u> Man
-55.0										
-65.0										Freq Offset 0 Hz
-75.0										
										Scale Type
Center 5.	2100 GH	z						Span 2	00.0 MHz	Log <u>Lin</u>
#Res BW			#VB	W 3.0 MHz			Sweep 1	.000 ms (1001 pts)	
MSG							STATU	5		

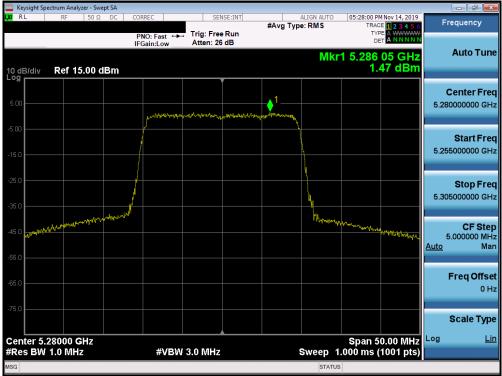
Plot 7-249. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)



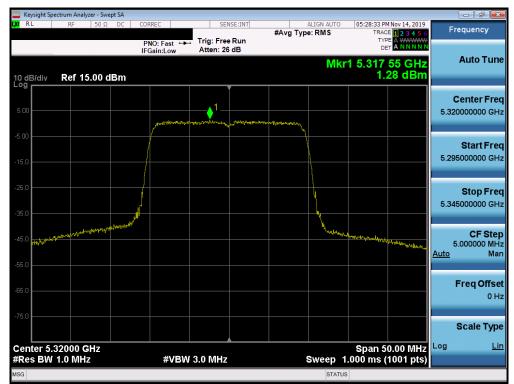
Plot 7-250. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMG986W	<u>PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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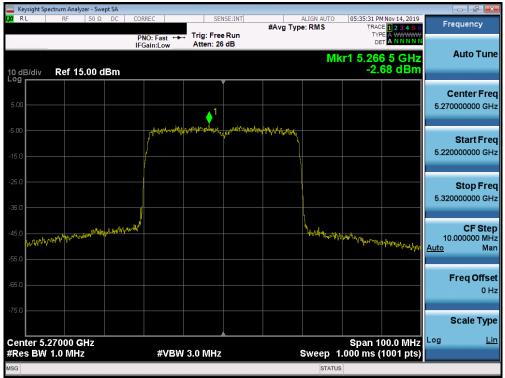
Plot 7-251. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)



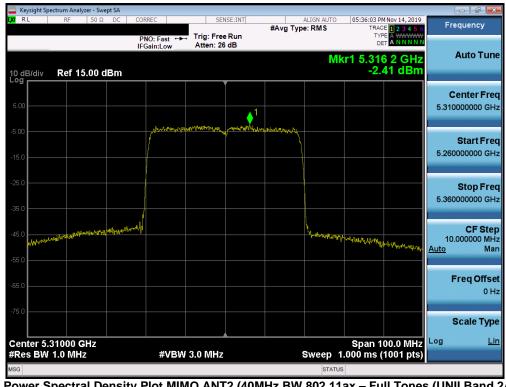
Plot 7-252. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-253. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)



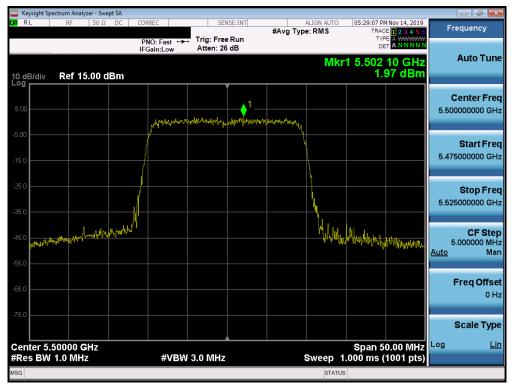
Plot 7-254. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMG986W	<u>PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	pectrum Analy	zer - Swept	t SA										
L <mark>XI</mark> RL	RF	50 Ω		ORREC		SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	MNov 14, 2019	Fre	equency
10 dB/div	Ref 15	5.00 dE		PNO: Fas IFGain:Lo		Atten: 26			M	(r1 5.27	9 4 GHz 61 dBm		Auto Tune
5.00						1							enter Freq 000000 GHz
-5.00				have	white wa	himmy	manallia	The Call Main Marker				5.190	Start Freq
-25.0												5.390	Stop Fred
-45.0 11/10/11/11	-poggetastations	la Jarry Marth	ኢላኤም <mark>የ</mark> ሌታት	, A					ntownhologya	harina karipanang	Whywlinytwie	20. <u>Auto</u>	CF Step 000000 MH: Mar
-65.0												F	F req Offse 0 H:
-75.0													Scale Type
Center 5. #Res BW				#\	VBW	3.0 MHz			Sweep 1	Span 2 .000 ms (00.0 MHz 1001 pts)	Log	Lin
MSG									STATUS	6			

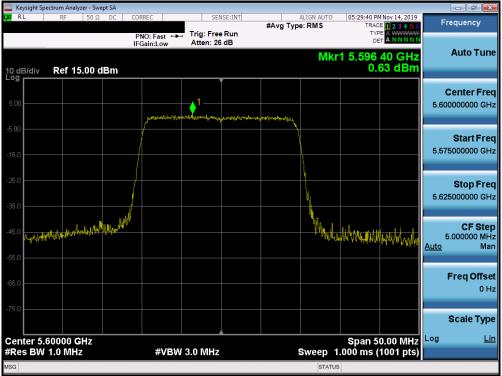
Plot 7-255. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)



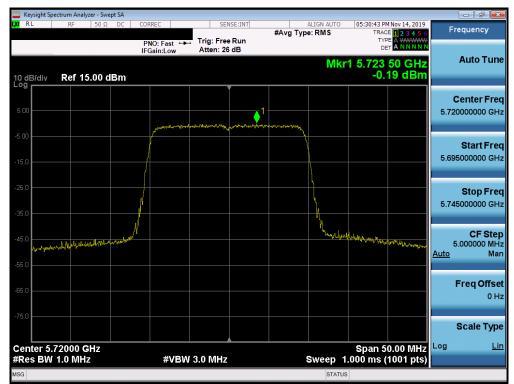
Plot 7-256. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)

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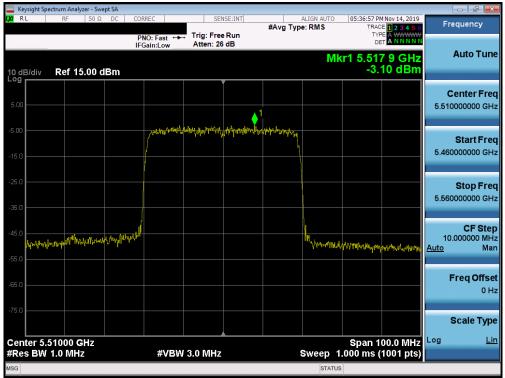
Plot 7-257. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)



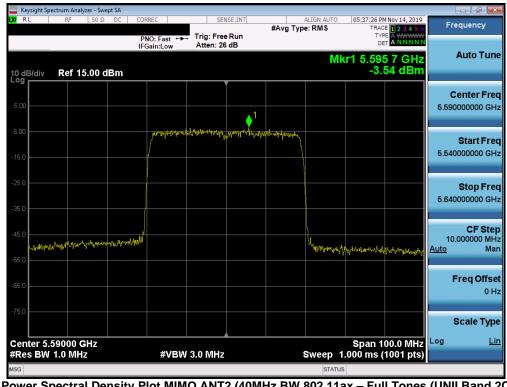
Plot 7-258. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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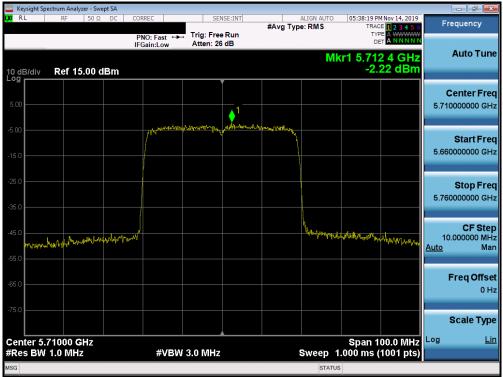
Plot 7-259. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)



Plot 7-260. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)

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Plot 7-261. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

		m Analyzer - Sw									_	
U RL		RF 50 Ω	DC	CORREC PNO: Fast ↔ IFGain:Low			#Avg Typ	ALIGN AUTO DE:RMS	TRAC TYL	M Nov 14, 2019 DE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	Frec	luency
0 dB/c	div R	ef 15.00	dBm					M		8 0 GHz 83 dBm	A	uto Tur
5.00					1							nter Fre 00000 GH
5.00				(v-say/vended)	n windestronger su	personalist	managerenter					Start Fre
25.0 -												Stop Fre 00000 GI
45.0	und frat And		hen with the part of	w				Munmeda	ri-l ^{ad} why-ut	hether haven	20.0 <u>Auto</u>	CF Ste 00000 MI Mi
i5.0 —											Fr	e q Offs 0 I
75.0	er 5.530								Snan 2	00.0 MHz	So Log	cale Typ ∟
	BW 1.0			#VBV	/ 3.0 MHz			Sweep 1	.000 ms ((1001 pts)		
SG								STATUS				

Plot 7-262. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)

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	ectrum Analyzer - Swe	pt SA									
L <mark>XI</mark> RL	RF 50 Ω	DC CO	RREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO	TRACI	Nov 14, 2019	Freq	uency
			NO:Fast ↔ Gain:Low	Trig: Free Atten: 26				TYP DE			
10 dB/div	Ref 15.00 d	Bm					Mk	r1 5.582 -7.3	2 6 GHz 38 dBm	A	uto Tune
5.00											n ter Freq 00000 GHz
-5.00			/minimutility	hanger and the second	mount	n when the streng					tart Freq
-25.0											top Freq 00000 GHz
-45.0 -55.0	www.abel.fracw.aber-frack	on hour h					manutonia	Murgania	Marin Main Marin	20.00 <u>Auto</u>	CF Step 00000 MH Mar
-65.0										Fr	e q Offse 0 Ha
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MSG	1.0 10112		#VDV	r 5.0 Minz			STATUS		roor pts)		

Plot 7-263. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

Keysigh	ht Spectrum A	nalyzer - Swe 50 Ω		ORREC		ISE:INT		ALIGN AUTO	05-42-01 0	M Nov 14, 2019		d 🛃
KL	KF	50 Ω		PNO: Fast ↔		Run	#Avg Typ		TRAC	CE 1 2 3 4 5 6 CE A WWWWW ET A NNNNN	Frequ	
0 dB/di	iv Ref	15.00 d	Bm					M		3 8 GHz 99 dBm	Au	to Tur
5.00											Cent 5.690000	ter Fre
5.00				from the standard and a	gn-helly Myrry	nhorm	wann want				St a 5.590000	art Fr 1000 G
25.0											St 5.790000	op Fr 1000 G
15.0	AND	of a state of the		1				harloh special	mappingraphicyces	nto-alto-	(20.000 <u>Auto</u>	CF Ste 000 M M
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75.0	5 6000								<u>Cnon A</u>		Sca Log	lle Ty
	5.6900 3W 510 I			#VBW	/ 3.0 MHz			Sweep 1		00.0 MHz 1001 pts)		
SG								STATUS				

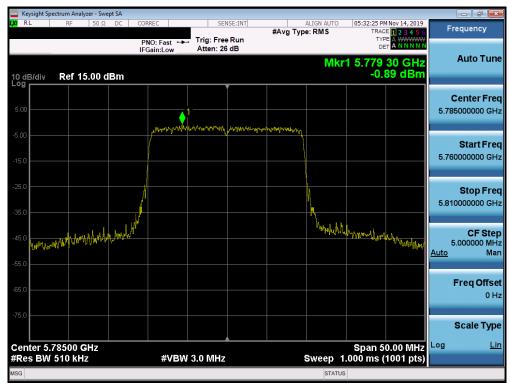
Plot 7-264. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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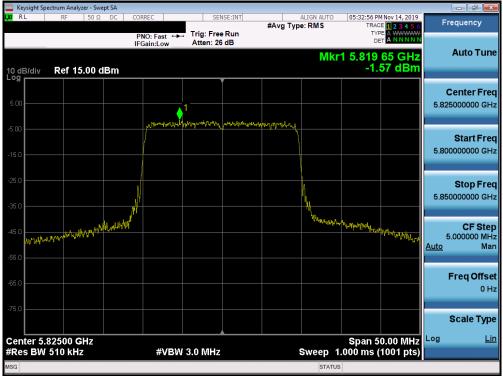
Plot 7-265. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 149)



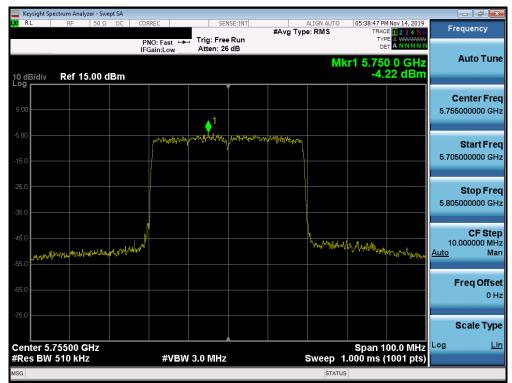
Plot 7-266. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-267. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 165)



Plot 7-268. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	pectrum Analyzer	- Swept SA						- 6
X/ RL	RF 5	50 Ω DC	CORREC	SENSE:IN	#Avg Typ	ALIGN AUTO	05:39:27 PM Nov 14, 201 TRACE 1 2 3 4 5 TYPE A WWWW	6 Frequency
10 dB/div	Ref 15.0	0 dBm	PNO: Fast ↔ IFGain:Low	Atten: 26 dB		Mk	cr1 5.791 6 GH -6.07 dBr	z Auto Tun
5.00				<u>_</u> 1				Center Fre 5.795000000 GH
15.00			/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	nerway your	nomertylugerty			Start Fre 5.745000000 GH
25.0 35.0								Stop Fre 5.845000000 GH
45.0 55.0	NI WARDON PORTING	aphy and a strate the	rwl			Mar way Miny A	analy part of have property of	CF Ste 10.000000 MH Auto Ma
75.0								Freq Offs 0 F
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	.79500 GH V 510 kHz	Z	#VBW	3.0 MHz		Sweep 1	Span 100.0 MH .000 ms (1001 pts	z Log <u>L</u> S)
ISG						STATUS	` · ·	

Plot 7-269. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 159)

	pectrum Analyze									
RL	RF	50Ω DC	CORREC PNO: Fast ↔ IFGain:Low			#Avg Typ	ALIGN AUTO	TYPE	Nov 14, 2019 1 2 3 4 5 6 A WWWWW A NNNN	Frequency
0 dB/div	Ref 15.	00 dBm	I Gam. Low				Mk	r1 5.767 -6.6	2 GHz 2 dBm	Auto Tu
5.00				1						Center Fr 5.775000000 G
5.0			paymentinger	pt-si-tenakinikaliyan	ntrone-source	Mallerreserver				Start Fr 5.675000000 G
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5.0 /hp~ 5.0	national	www.dapot.off./	44~				N _{N,L} HIMMs.UM	Bungthambutture	plater with all have by	CF St 20.000000 M <u>Auto</u> M
5.0										Freq Offs 0
enter 5	.7750 GH	7						Span 20	0.0 MHz	Scale Ty
	1.0 MHz		#VBV	V 3.0 MHz			Sweep 1	.000 ms (1		
G							STATUS			

Plot 7-270. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 155)

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7.6 Radiated Spurious Emission Measurements – Above 1GHz §15.407(b) §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 its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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 7-30 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-69. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5 KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

- 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. Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

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Peak Measurements above 1GHz

- 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

Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = 120kHz
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Test Setup

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

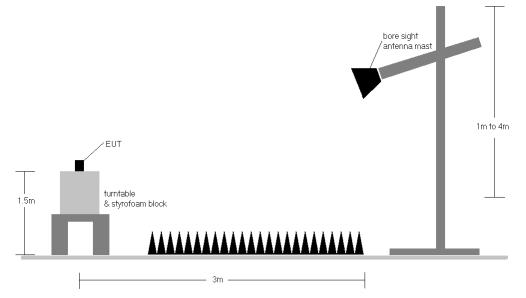


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

- 1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30.
- 2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
- 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. 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. 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.
- 8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

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 $[dB_{\mu}V/m]$ Limit $[dB_{\mu}V/m]$

Radiated Band Edge Measurement Offset

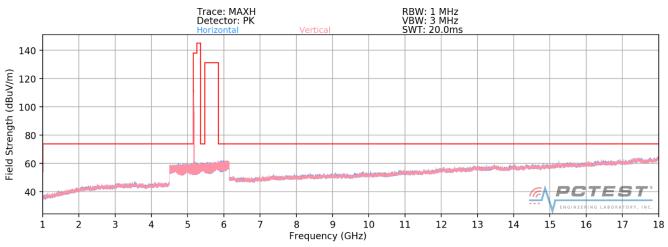
 The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious Emission Measurements – Above 1GHz was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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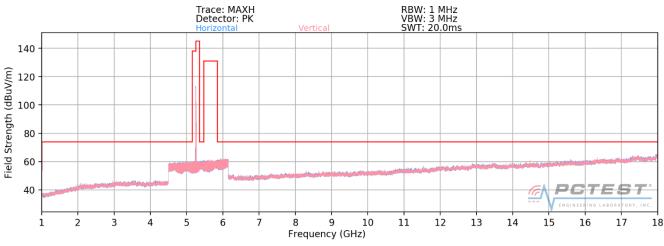


7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

106 Tones



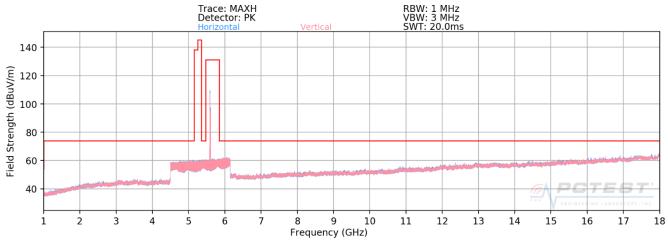
Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U1 Ch. 40 - 106 Tones)



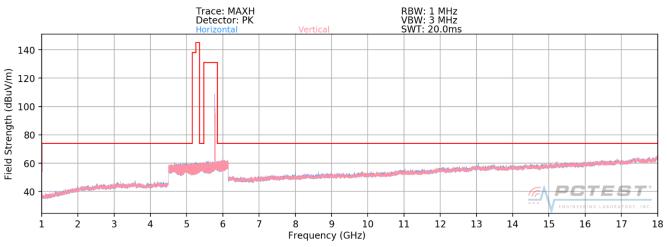
Plot 7-272. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U2A Ch. 56 - 106 Tones)

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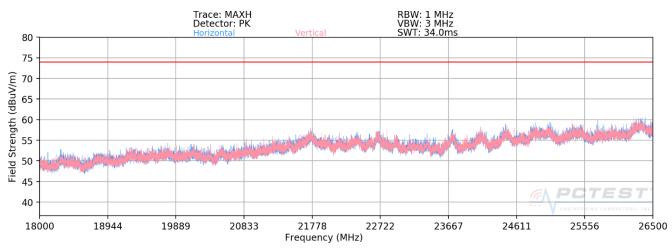




Plot 7-274. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U3 Ch. 157 - 106 Tones)

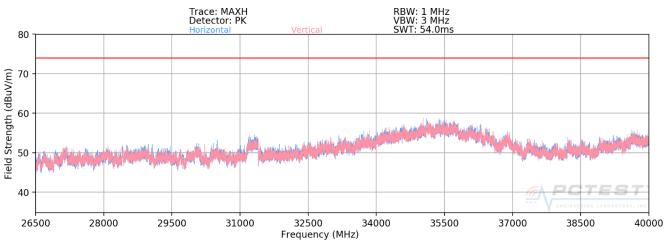
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)

Plot 7-275. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 106 Tones)



Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax - 106 Tones)

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SISO Antenna-1 Radiated Spurious Emission Measurements (106 Tones) §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

802.11ax (20MHz BW)
MCS0
54
1 & 3 Meters
5180MHz
36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	-	-	-69.75	15.23	0.00	52.48	68.20	-15.72
*	15540.00	Average	V	120	331	-81.91	22.71	0.00	47.80	53.98	-6.18
*	15540.00	Peak	V	120	331	-68.03	22.71	0.00	61.68	73.98	-12.30
*	20720.00	Average	V	-	-	-78.06	17.51	-9.54	36.91	53.98	-17.07
*	20720.00	Peak	V	-	-	-67.90	17.51	-9.54	47.07	73.98	-26.91
	25900.00	Peak	V	-	-	-65.24	19.88	-9.54	52.10	68.20	-16.10

Table 7-70. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: Worst Case Transfer Rate: RU Index: Distance of Measurements: Operating Frequency: Channel: 802.11ax (20MHz BW) MCS0 54 1 & 3 Meters 5200MHz 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	-	-	-69.95	15.67	0.00	52.72	68.20	-15.48
*	15600.00	Average	V	119	335	-81.14	22.46	0.00	48.32	53.98	-5.66
*	15600.00	Peak	V	119	335	-64.43	22.46	0.00	65.03	73.98	-8.95
*	20800.00	Average	V	-	-	-77.84	17.87	-9.54	37.49	53.98	-16.49
*	20800.00	Peak	V	-	-	-68.12	17.87	-9.54	47.21	73.98	-26.77
	26000.00	Peak	V	-	-	-66.31	20.15	-9.54	51.30	68.20	-16.90

Table 7-71. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	UNG	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5240MHz
Channel:	48
Channel:	48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	-	-	-70.92	15.49	0.00	51.57	68.20	-16.63
*	15720.00	Average	V	164	325	-81.74	22.45	0.00	47.71	53.98	-6.27
*	15720.00	Peak	V	164	325	-65.02	22.45	0.00	64.43	73.98	-9.55
*	20960.00	Average	V	-	-	-78.03	18.06	-9.54	37.49	53.98	-16.49
*	20960.00	Peak	V	-	-	-67.45	18.06	-9.54	48.07	73.98	-25.91
	26200.00	Peak	V	-	-	-65.78	20.23	-9.54	51.91	68.20	-16.29

Table 7-72. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5260MHz
Channel:	52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	-	-	-70.29	15.86	0.00	52.57	68.20	-15.63
*	15780.00	Average	V	109	329	-82.27	22.77	0.00	47.50	53.98	-6.48
*	15780.00	Peak	V	109	329	-67.47	22.77	0.00	62.30	73.98	-11.68
*	21040.00	Average	V	-	-	-77.81	18.36	-9.54	38.01	53.98	-15.97
*	21040.00	Peak	V	-	-	-67.41	18.36	-9.54	48.41	73.98	-25.57
	26300.00	Peak	V	-	-	-65.64	20.96	-9.54	52.78	68.20	-15.42

Table 7-73. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W	<u>PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)				
Worst Case Transfer Rate:	MCS0				
RU Index:	54				
Distance of Measurements:	1 & 3 Meters				
Operating Frequency:	5280MHz				
Channel:	56				

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	-	-	-69.67	15.70	0.00	53.03	68.20	-15.17
*	15840.00	Average	V	196	331	-82.74	22.66	0.00	46.92	53.98	-7.06
*	15840.00	Peak	V	196	331	-66.19	22.66	0.00	63.47	73.98	-10.51
*	21120.00	Average	V	-	-	-77.51	18.17	-9.54	38.12	53.98	-15.86
*	21120.00	Peak	V	-	-	-66.47	18.17	-9.54	49.16	73.98	-24.82
	26400.00	Peak	V	-	-	-66.01	20.65	-9.54	52.10	68.20	-16.10

Table 7-74. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5320MHz
Channel:	64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	-	-	-82.52	16.03	0.00	40.51	53.98	-13.47
*	10640.00	Peak	V	-	-	-70.31	16.03	0.00	52.72	73.98	-21.26
*	15960.00	Average	V	115	331	-82.88	23.09	0.00	47.21	53.98	-6.77
*	15960.00	Peak	V	115	331	-68.00	23.09	0.00	62.09	73.98	-11.89
*	21280.00	Average	V	-	-	-77.38	18.57	-9.54	38.65	53.98	-15.33
*	21280.00	Peak	V	-	-	-66.82	18.57	-9.54	49.21	73.98	-24.77
	26600.00	Peak	V	-	-	-53.47	5.16	-9.54	49.15	68.20	-19.05

Table 7-75. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5500MHz
Channel:	100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	-	-	-82.31	16.51	0.00	41.20	53.98	-12.78
*	11000.00	Peak	V	-	-	-69.47	16.51	0.00	54.04	73.98	-19.94
	16500.00	Peak	V	-	-	-70.39	24.17	0.00	60.78	68.20	-7.42
	22000.00	Peak	V	-	-	-67.29	19.12	-9.54	49.29	68.20	-18.91
	27500.00	Peak	V	-	-	-51.12	3.98	-9.54	50.32	68.20	-17.88

Table 7-76. Radiated Measurements SISO ANT1 (106 Tones)

N)

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	-	-	-82.46	16.73	0.00	41.27	53.98	-12.71
*	11200.00	Peak	V	-	-	-70.28	16.73	0.00	53.45	73.98	-20.53
	16800.00	Peak	V	-	-	-70.36	24.00	0.00	60.64	68.20	-7.56
*	22400.00	Average	V	-	-	-77.74	20.03	-9.54	39.75	53.98	-14.23
*	22400.00	Peak	V	-	-	-67.07	20.03	-9.54	50.42	73.98	-23.56
	28000.00	Peak	V	-	-	-51.86	4.70	-9.54	50.30	68.20	-17.90

Table 7-77. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Worst Case Mode:	802.11ax (20MHz BW)				
Worst Case Transfer Rate:	MCS0				
RU Index:	54				
Distance of Measurements:	1 & 3 Meters				
Operating Frequency:	5720MHz				
Channel:	144				

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	241	341	-80.78	17.29	0.00	43.51	53.98	-10.47
*	11440.00	Peak	V	241	341	-65.98	17.29	0.00	58.31	73.98	-15.67
	17160.00	Peak	V	-	-	-70.70	24.37	0.00	60.67	68.20	-7.53
*	22880.00	Average	V	-	-	-78.15	19.50	-9.54	38.81	53.98	-15.17
*	22880.00	Peak	V	-	-	-67.37	19.50	-9.54	49.59	73.98	-24.39
	28600.00	Peak	V	-	-	-52.84	5.14	-9.54	49.76	68.20	-18.44

Table 7-78. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5745MHz
Channel:	149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	104	328	-79.96	17.63	0.00	44.67	53.98	-9.30
*	11490.00	Peak	V	104	328	-66.67	17.63	0.00	57.96	73.98	-16.01
	17235.00	Peak	V	-	-	-70.98	25.01	0.00	61.03	68.20	-7.17
*	22980.00	Average	V	-	-	-78.27	19.89	-9.54	39.08	53.98	-14.90
*	22980.00	Peak	V	-	-	-67.73	19.89	-9.54	49.62	73.98	-24.36
	28725.00	Peak	V	-	-	-52.35	4.66	-9.54	49.77	68.20	-18.43

Table 7-79. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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802.11ax (20MHz BW)
MCS0
54
1 & 3 Meters
5785MHz
157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	125	338	-77.80	17.35	0.00	46.55	53.98	-7.43
*	11570.00	Peak	V	125	338	-65.09	17.35	0.00	59.26	73.98	-14.72
	17355.00	Peak	V	-	-	-71.32	26.08	0.00	61.76	68.20	-6.44
	23140.00	Peak	V	-	-	-68.15	19.59	-9.54	48.90	68.20	-19.30
	28925.00	Peak	V	-	-	-51.15	4.43	-9.54	50.74	68.20	-17.46

Table 7-80. Radiated Measurements SISO ANT1 (106 Tones)

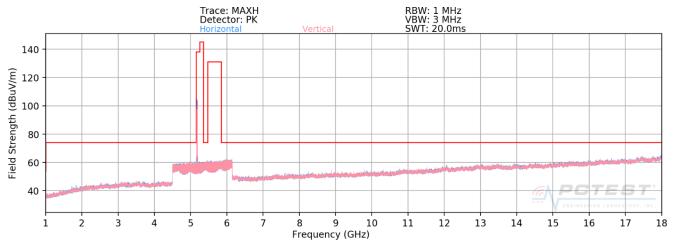
Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5825MHz
Channel:	165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	115	321	-78.31	17.57	0.00	46.26	53.98	-7.71
*	11650.00	Peak	V	115	321	-63.80	17.57	0.00	60.77	73.98	-13.20
	17475.00	Peak	V	-	-	-70.80	26.23	0.00	62.43	68.20	-5.77
	23300.00	Peak	V	-	-	-66.61	18.93	-9.54	49.78	68.20	-18.42
	29125.00	Peak	V	-	-	-51.23	3.48	-9.54	49.71	68.20	-18.49

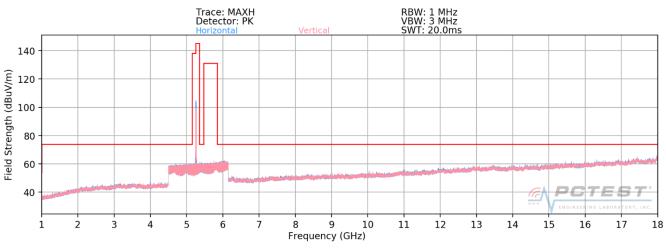
Table 7-81. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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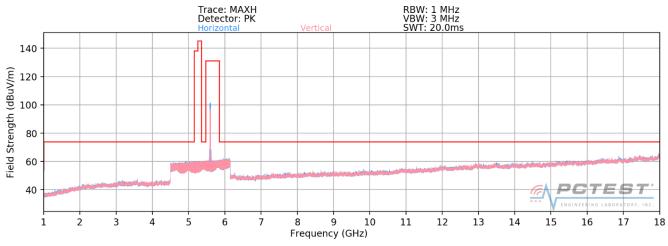
Plot 7-277. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U1 Ch. 40 - 242 Tones)



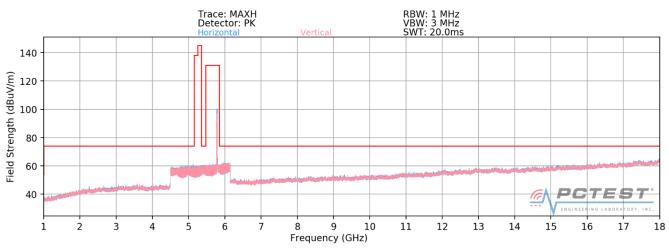
Plot 7-278. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U2A Ch. 56 - 242 Tones)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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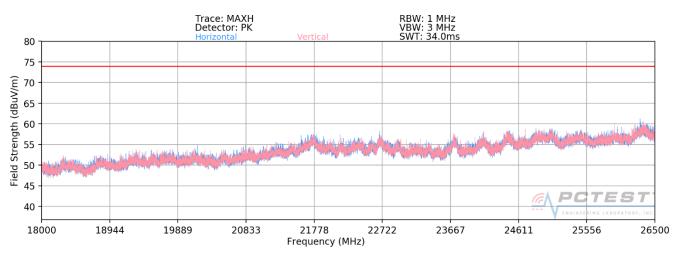




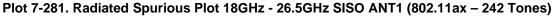
Plot 7-280. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U3 Ch. 157 - 242 Tones)

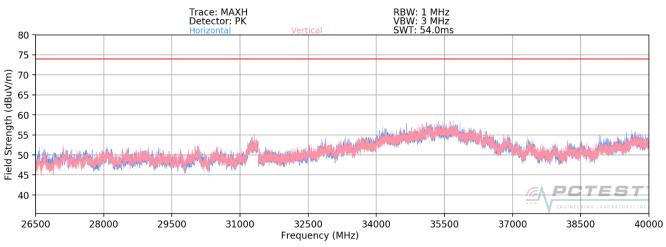
FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	ISUNG	Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)





Plot 7-282. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax - 242 Tones)

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SISO Antenna-1 Radiated Spurious Emission Measurements (242 Tones) §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5180MHz
Channel:	36
Operating Frequency:	5180MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	-	-	-70.63	15.23	0.00	51.60	68.20	-16.60
*	15540.00	Average	V	141	323	-82.32	22.71	0.00	47.39	53.98	-6.59
*	15540.00	Peak	V	141	323	-68.39	22.71	0.00	61.32	73.98	-12.66
*	20720.00	Average	V	-	-	-77.53	17.51	-9.54	37.44	53.98	-16.54
*	20720.00	Peak	V	-	-	-66.92	17.51	-9.54	48.05	73.98	-25.93
	25900.00	Peak	V	-	-	-65.67	19.88	-9.54	51.67	68.20	-16.53

Table 7-82. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: Worst Case Transfer Rate: RU Index: Distance of Measurements: Operating Frequency: Channel: 802.11ax (20MHz BW) MCS0 61 1 & 3 Meters 5200MHz 40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	-	-	-70.07	15.67	0.00	52.60	68.20	-15.60
*	15600.00	Average	V	125	327	-81.79	22.46	0.00	47.67	53.98	-6.31
*	15600.00	Peak	V	125	327	-67.94	22.46	0.00	61.52	73.98	-12.46
*	20800.00	Average	V	-	-	-77.41	17.87	-9.54	37.92	53.98	-16.06
*	20800.00	Peak	V	-	-	-67.41	17.87	-9.54	47.92	73.98	-26.06
	26000.00	Peak	V	-	-	-66.07	20.15	-9.54	51.54	68.20	-16.66

Table 7-83. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)			
Worst Case Transfer Rate:	MCS0			
RU Index:	61			
Distance of Measurements:	1 & 3 Meters			
Operating Frequency:	5240MHz			
Channel:	48			

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	-	-	-70.73	15.49	0.00	51.76	68.20	-16.44
*	15720.00	Average	V	119	322	-81.87	22.45	0.00	47.58	53.98	-6.40
*	15720.00	Peak	V	119	322	-67.59	22.45	0.00	61.86	73.98	-12.12
*	20960.00	Average	V	-	-	-78.00	18.06	-9.54	37.52	53.98	-16.46
*	20960.00	Peak	V	-	-	-67.93	18.06	-9.54	47.59	73.98	-26.39
	26200.00	Peak	V	-	-	-66.06	20.23	-9.54	51.63	68.20	-16.57

Table 7-84. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5260MHz
Channel:	52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
ſ	10520.00	Peak	V	-	-	-71.05	15.86	0.00	51.81	68.20	-16.39
*	15780.00	Average	V	-	-	-83.17	22.77	0.00	46.60	53.98	-7.38
*	15780.00	Peak	V	-	-	-70.68	22.77	0.00	59.09	73.98	-14.89
*	21040.00	Average	V	-	-	-77.49	18.36	-9.54	38.33	53.98	-15.65
*	21040.00	Peak	V	-	-	-67.46	18.36	-9.54	48.36	73.98	-25.62
	26300.00	Peak	V	-	-	-65.42	20.96	-9.54	53.00	68.20	-15.20

Table 7-85. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5280MHz
Channel:	56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	-	-	-70.03	15.70	0.00	52.67	68.20	-15.53
*	15840.00	Average	V	-	-	-82.78	22.66	0.00	46.88	53.98	-7.10
*	15840.00	Peak	V	-	-	-70.01	22.66	0.00	59.65	73.98	-14.33
*	21120.00	Average	V	-	-	-77.41	18.17	-9.54	38.22	53.98	-15.76
*	21120.00	Peak	V	-	-	-67.44	18.17	-9.54	48.19	73.98	-25.79
	26400.00	Peak	V	-	-	-65.37	20.65	-9.54	52.74	68.20	-15.46

Table 7-86. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5320MHz
Channel:	64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	-	-	-82.55	16.03	0.00	40.48	53.98	-13.50
*	10640.00	Peak	V	-	-	-70.90	16.03	0.00	52.13	73.98	-21.85
*	15960.00	Average	V	-	-	-83.45	23.09	0.00	46.64	53.98	-7.34
*	15960.00	Peak	V	-	-	-70.16	23.09	0.00	59.93	73.98	-14.05
*	21280.00	Average	V	-	-	-77.31	18.57	-9.54	38.72	53.98	-15.26
*	21280.00	Peak	V	-	-	-66.52	18.57	-9.54	49.51	73.98	-24.47
	26600.00	Peak	V	-	-	-53.21	5.16	-9.54	49.41	68.20	-18.79

Table 7-87. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5500MHz
Channel:	100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	-	-	-81.55	16.51	0.00	41.96	53.98	-12.02
*	11000.00	Peak	V	-	-	-69.72	16.51	0.00	53.79	73.98	-20.19
	16500.00	Peak	V	-	-	-70.82	24.17	0.00	60.35	68.20	-7.85
	22000.00	Peak	V	-	-	-67.07	19.12	-9.54	49.51	68.20	-18.69
	27500.00	Peak	V	-	-	-52.02	3.98	-9.54	49.42	68.20	-18.78

Table 7-88. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5600MHz
Channel:	120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	-	-	-81.64	16.73	0.00	42.09	53.98	-11.89
*	11200.00	Peak	V	-	-	-69.66	16.73	0.00	54.07	73.98	-19.91
	16800.00	Peak	V	-	-	-70.26	24.00	0.00	60.74	68.20	-7.46
*	22400.00	Average	V	-	-	-77.89	20.03	-9.54	39.60	53.98	-14.38
*	22400.00	Peak	V	-	-	-67.58	20.03	-9.54	49.91	73.98	-24.07
	28000.00	Peak	V	-	-	-52.35	4.70	-9.54	49.81	68.20	-18.39

Table 7-89. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5720MHz
Channel:	144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	191	314	-80.75	17.29	0.00	43.54	53.98	-10.44
*	11440.00	Peak	V	191	314	-67.87	17.29	0.00	56.42	73.98	-17.56
	17160.00	Peak	V	-	-	-70.20	24.37	0.00	61.17	68.20	-7.03
*	22880.00	Average	V	-	-	-78.29	19.50	-9.54	38.67	53.98	-15.31
*	22880.00	Peak	V	-	-	-67.80	19.50	-9.54	49.16	73.98	-24.82
	28600.00	Peak	V	-	-	-51.81	5.14	-9.54	50.79	68.20	-17.41

Table 7-90. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5745MHz
Channel:	149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	137	323	-80.74	17.63	0.00	43.89	53.98	-10.08
*	11490.00	Peak	V	137	323	-67.77	17.63	0.00	56.86	73.98	-17.11
	17235.00	Peak	V	-	-	-70.60	25.01	0.00	61.41	68.20	-6.79
*	22980.00	Average	V	-	-	-78.21	19.89	-9.54	39.14	53.98	-14.84
*	22980.00	Peak	V	-	-	-67.56	19.89	-9.54	49.79	73.98	-24.19
	28725.00	Peak	V	-	-	-51.89	4.66	-9.54	50.23	68.20	-17.97

Table 7-91. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5785MHz
Channel:	157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	196	330	-78.99	17.35	0.00	45.36	53.98	-8.62
*	11570.00	Peak	V	196	330	-66.40	17.35	0.00	57.95	73.98	-16.03
	17355.00	Peak	V	-	-	-70.87	26.08	0.00	62.21	68.20	-5.99
	23140.00	Peak	V	-	-	-66.11	19.59	-9.54	50.94	68.20	-17.26
	28925.00	Peak	V	-	-	-52.16	4.43	-9.54	49.73	68.20	-18.47

Table 7-92. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5825MHz
Channel:	165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	143	328	-78.41	17.57	0.00	46.16	53.98	-7.81
*	11650.00	Peak	V	143	328	-65.91	17.57	0.00	58.66	73.98	-15.31
	17475.00	Peak	V	-	-	-70.54	26.23	0.00	62.69	68.20	-5.51
	23300.00	Peak	V	-	-	-67.83	18.93	-9.54	48.56	68.20	-19.64
ſ	29125.00	Peak	V	-	-	-50.88	3.48	-9.54	50.06	68.20	-18.14

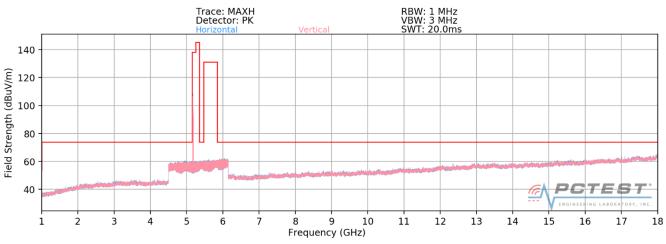
Table 7-93. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: A3LSMG986W	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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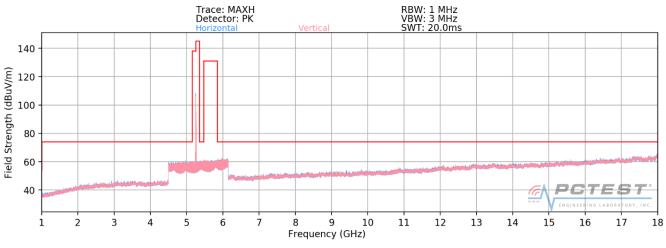


7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

106 Tones



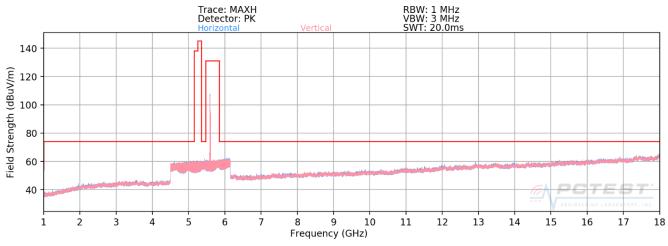




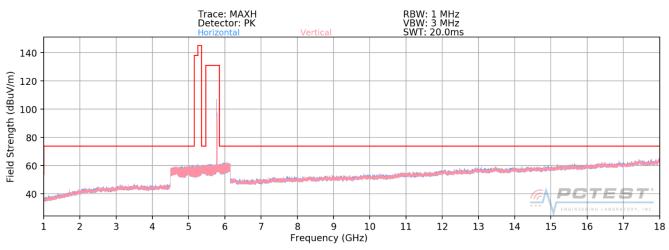
Plot 7-284. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 106 Tones)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager			
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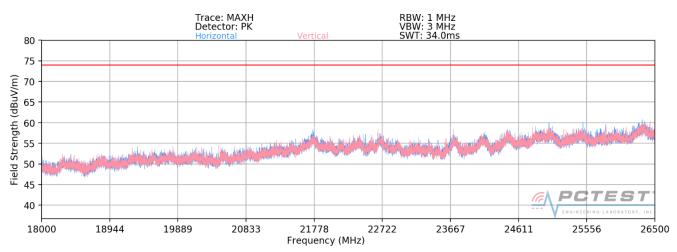




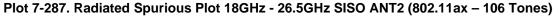
Plot 7-286. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax - U3 Ch. 157 - 106 Tones)

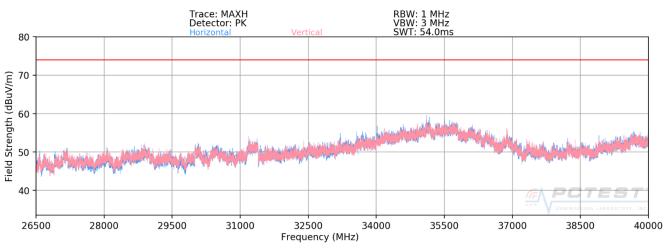
FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)





Plot 7-288. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax - 106 Tones)

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