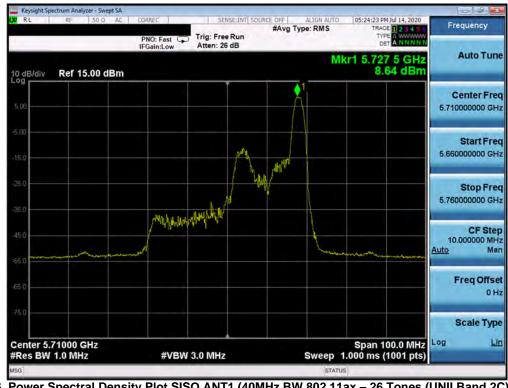




Plot 7-125. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-126. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMN981U	PCTEST Proof John part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 206
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset	Page 109 of 296
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Plot 7-127. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-128. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSONC	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 110 of 206
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset	Page 110 of 29	
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Plot 7-129. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMN981U	PCTEST Produl Jorder part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSONS	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 111 of 200
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset		Page 111 of 296
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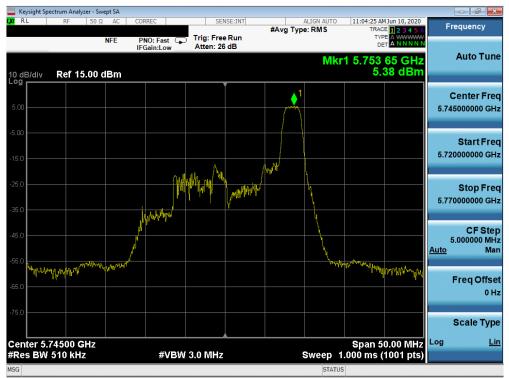


	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	5.38	30.00	-24.62
e	5785	157	ax (20MHz)	26T	MCS0	5.42	30.00	-24.58
	5825	165	ax (20MHz)	26T	MCS0	5.33	30.00	-24.67
Band	5755	151	ax (40MHz)	26T	MCS0	9.39	30.00	-20.61
	5795	159	ax (40MHz)	26T	MCS0	9.16	30.00	-20.84
	5775	155	ax (80MHz)	26T	MCS0	9.50	30.00	-20.50

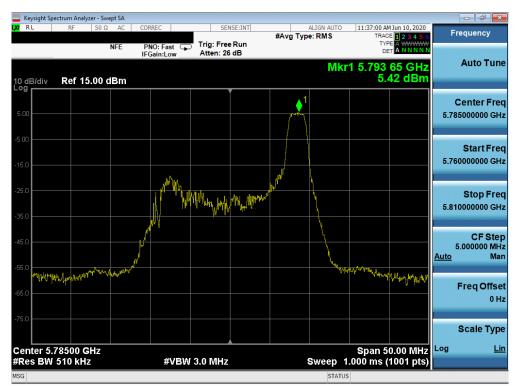
Table 7-56. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 112 of 200
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset		Page 112 of 296
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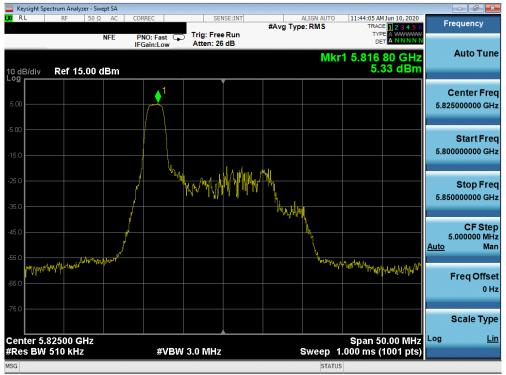
Plot 7-130. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



Plot 7-131. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMN981U	PCTEST Proof is the pert of @	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 112 of 200
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset	Page 113 of 296
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Plot 7-132. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



Plot 7-133. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMN981U	PCTEST Preed to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNE	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 114 of 200
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset		Page 114 of 296
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Plot 7-134. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



Plot 7-135. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMN981U	PCTEST Produl Jorden part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSONE	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 115 of 200
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset		Page 115 of 296
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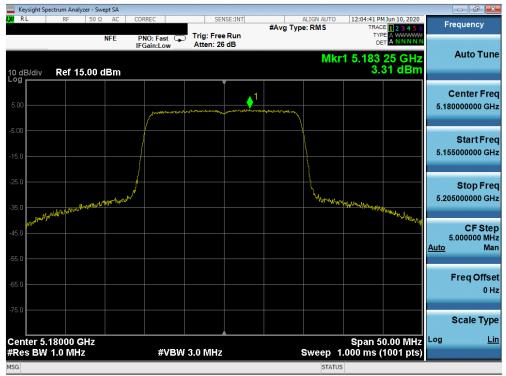
## SISO Antenna-1 Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	3.31	11.0	-7.69
	5200	40	ax (20MHz)	242T	MCS0	3.75	11.0	-7.25
Band 1	5240	48	ax (20MHz)	242T	MCS0	2.83	11.0	-8.17
Bar	5190	38	ax (40MHz)	484T	MCS0	-2.90	11.0	-13.90
	5230	46	ax (40MHz)	484T	MCS0	-1.55	11.0	-12.55
	5210	42	ax (80MHz)	996T	MCS0	-6.35	11.0	-17.35
	5260	52	ax (20MHz)	242T	MCS0	2.21	11.0	-8.79
	5280	56	ax (20MHz)	242T	MCS0	2.18	11.0	-8.82
Band 2A	5320	64	ax (20MHz)	242T	MCS0	1.20	11.0	-9.80
Ban	5270	54	ax (40MHz)	484T	MCS0	-3.00	11.0	-14.00
	5310	62	ax (40MHz)	484T	MCS0	-3.21	11.0	-14.21
	5290	58	ax (80MHz)	996T	MCS0	-6.65	11.0	-17.65
	5500	100	ax (20MHz)	242T	MCS0	2.34	11.0	-8.66
	5600	120	ax (20MHz)	242T	MCS0	1.48	11.0	-9.52
	5720	144	ax (20MHz)	242T	MCS0	2.87	11.0	-8.13
ပ္ရ	5510	102	ax (40MHz)	484T	MCS0	-2.00	11.0	-13.00
Band 2C	5590	118	ax (40MHz)	484T	MCS0	-1.88	11.0	-12.88
ä	5710	142	ax (40MHz)	484T	MCS0	-1.44	11.0	-12.44
	5530	106	ax (80MHz)	996T	MCS0	-6.65	11.0	-17.65
	5610	122	ax (80MHz)	996T	MCS0	-6.91	11.0	-17.91
	5690	138	ax (80MHz)	996T	MCS0	-9.30	11.0	-20.30

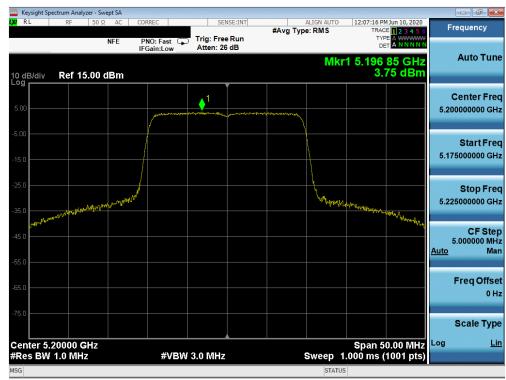
Table 7-57. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

FCC ID: A3LSMN981U	PCTEST Predd Jolie pert of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 116 of 200
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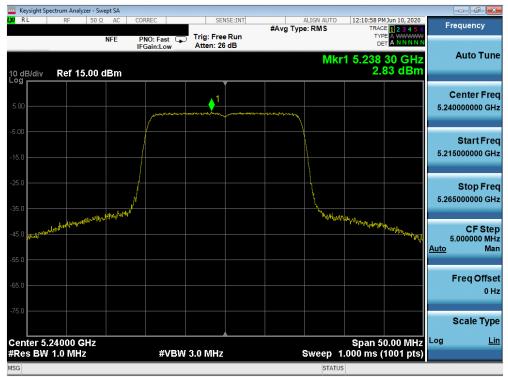
Plot 7-136. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)



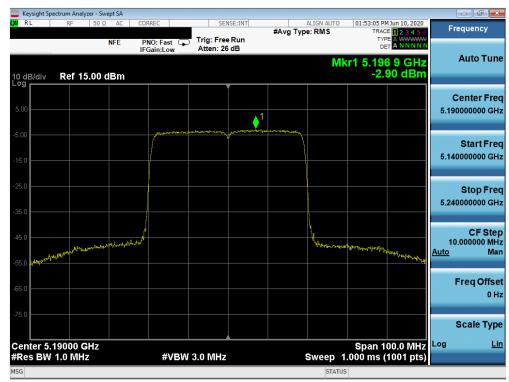
Plot 7-137. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMN981U	PCTEST Proid Joine part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 117 of 200
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Plot 7-138. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)



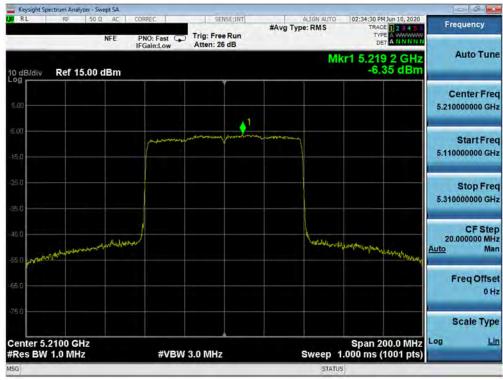
Plot 7-139. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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🔤 Keysight Spectrum Analyzer - Sv										
LX/RL RF 50 \$	AC CC	ORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		1 Jun 10, 2020 E 1 2 3 4 5 6	Frequ	ency
	IF	PNO: Fast 🖵 Gain:Low	Atten: 26			Mk	r1 5.23	7 3 GHz 55 dBm	Au	to Tune
10 dB/div Ref 15.00	dBm			/			-1.			ter Freq
-5.00		_ and a market and	and the second second	1	mon					)000 GHz
-15.0										art Freq 0000 GHz
-25.0										op Freq )000 GHz
-35.0 -45.0	and an adam had					here have	Rus-Martinetranovy	Mulphynniesse		CF Step 0000 MHz
-55.0								and the state of t	Auto Ere	Man q Offset
-65.0										0 Hz
										le Type
Center 5.23000 GHz #Res BW 1.0 MHz		#VBW	3.0 MHz			Sweep 1	Span 1 .000 m <u>s (</u>	00.0 MHz 1001 pts)	Log	Lin
MSG						STATUS				

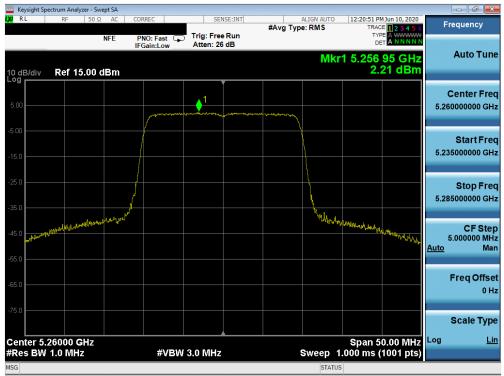
Plot 7-140. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)



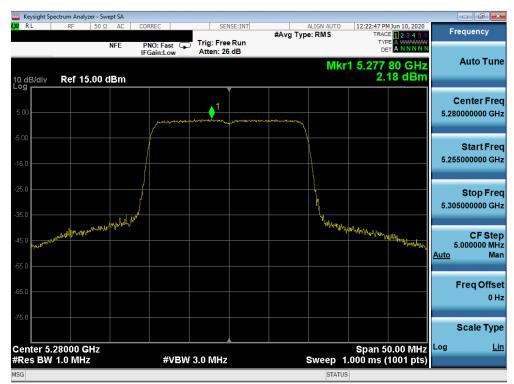
Plot 7-141. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMN981U	PCTEST head Joine part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 110 of 200	
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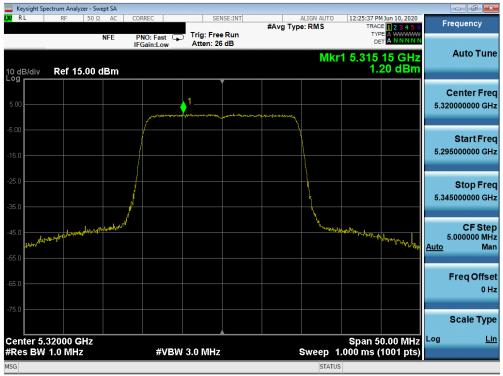
Plot 7-142. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)



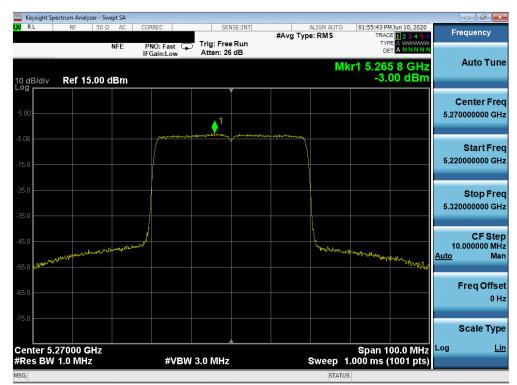
Plot 7-143. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMN981U	PCTEST Prood to be part of @	MEASUREMENT REPORT (CERTIFICATION)	ASUNE	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 100 of 200
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset		Page 120 of 296
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Plot 7-144. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)



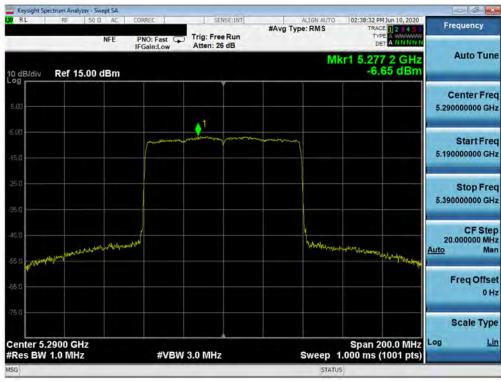
Plot 7-145. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSONS	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 121 of 206	
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset		Page 121 of 296	
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🔤 Keysight Spectrum Analyzer									
LXI RE 5	0Ω AC 0	CORREC		ISE:INT	#Avg Typ	ALIGN AUTO	TRAC	4 Jun 10, 2020 E <mark>1 2 3 4 5</mark> 6	Frequency
10 dB/div Ref 15.0		PNO: Fast IFGain:Low	Trig: Free Atten: 26			Mk	r1 5.31	2 9 GHz 21 dBm	Auto Tune
5.00				<b>↓</b> 1					Center Fred 5.310000000 GHz
-5.00			hander to the second	, and a man	- Allower				Start Frec 5.260000000 GHz
-25.0									Stop Frec 5.360000000 GHz
-45.0	erthogentyterophetton					Minamore	hangayayay	Ware No. Massage	CFStep 10.000000 MHz <u>Auto</u> Mar
-65.0									Freq Offset 0 Hz
-75.0 Center 5.31000 GH:	2						Span 1	00.0 MHz	Scale Type Log <u>Lir</u>
#Res BW 1.0 MHz		#VBW	3.0 MHz			Sweep 1		1001 pts)	
MSG						STATUS			

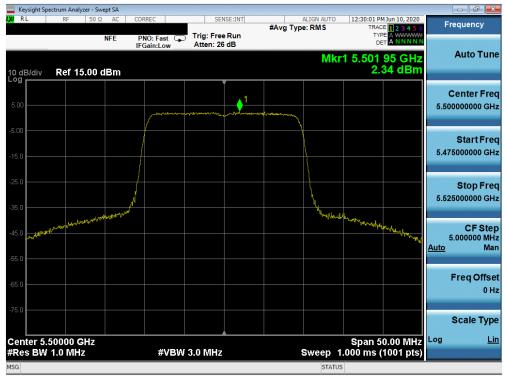
Plot 7-146. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)



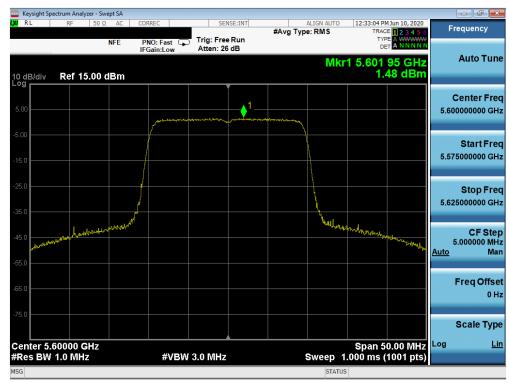
Plot 7-147. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMN981U	PCTEST Predd Jote part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNC	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	ИТ Туре:		
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset		Page 122 of 296	
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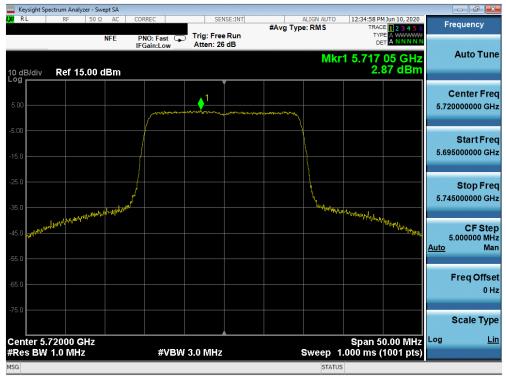
Plot 7-148. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)



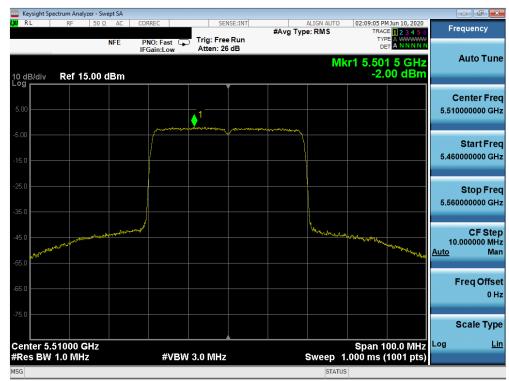
Plot 7-149. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMN981U	PCTEST head Joine part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 122 of 206
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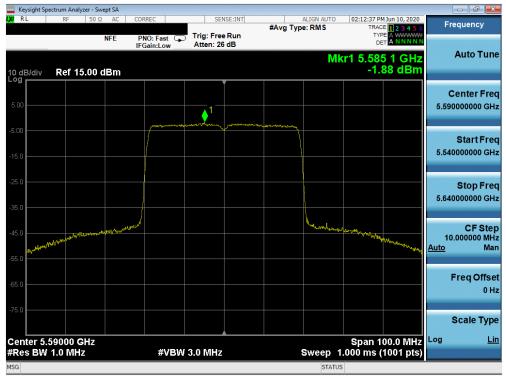
Plot 7-150. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)



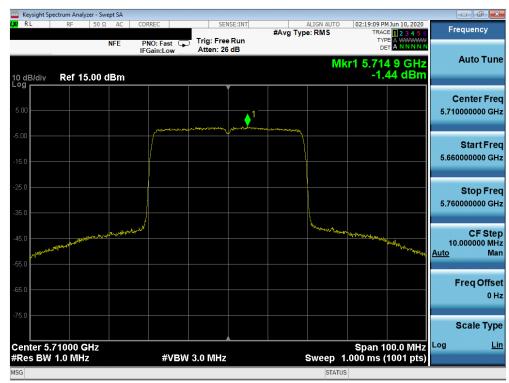
Plot 7-151. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 124 of 200
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset	Page 124 of 296
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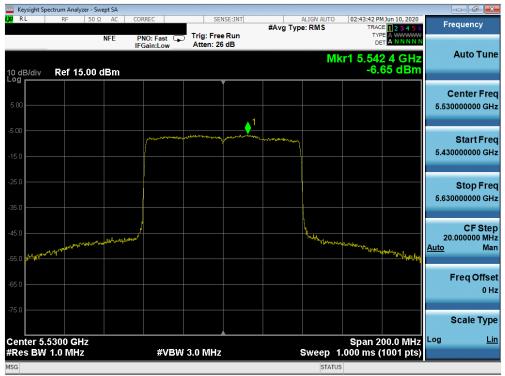
Plot 7-152. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)



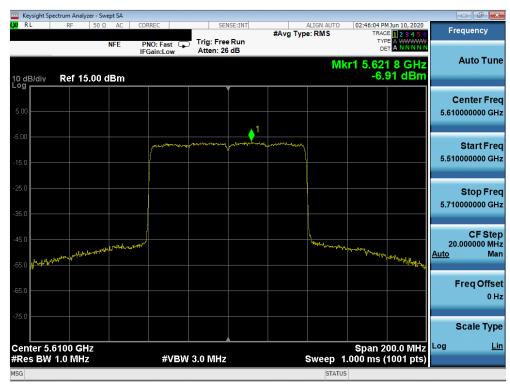
Plot 7-153. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMN981U	PCTEST Proid Joine part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Plot 7-154. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)



Plot 7-155. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMN981U	PCTEST Dread Joine part of @	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 136 of 306
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	trum Analyzer - S										
LXI RL	RF 50 9	Ω AC (	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS		MJun 10, 2020	Fre	quency
		NFE	PNO: Fast G	Trig: Free Atten: 26		•		TYF De			A
10 dB/div Log	Ref 15.00	dBm					M	lkr1 5.679 -9.3	90 GHz 30 dBm		Auto Tune
				Ì							enter Freq
5.00										5.690	000000 GHz
-5.00				<b>↓</b> <sup>1</sup>							Start Freq
-15.0			formation			mar marker many				5.590	000000 GHz
-25.0											Stop Freq
-35.0										5.790	000000 GHz
-35.0											CF Step
-45.0		derent	<i>.</i>				hundran			20. Auto	000000 MHz Man
-55.0	man and and a survey war and							whether and a fight of the second	www.warna	<u>Huto</u>	man
-65.0										F	req Offset 0 Hz
-75.0											UHZ
										5	Scale Type
Center 5.6	900 GHz							Span 2	00.0 MHz	Log	Lin
#Res BW :	510 kHz		#VBW	/ 3.0 MHz			Sweep	1.000 ms (	1001 pts)		
MSG							STAT	US			

Plot 7-156. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMN981U	PCTEST Produl Voltes part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 107 of 200
1M2005050081-09.A3L	09.A3L 5/5 - 7/7/2020 Portable Handset			Page 127 of 296
© 2020 PCTEST	-			V 9.0 02/01/2019

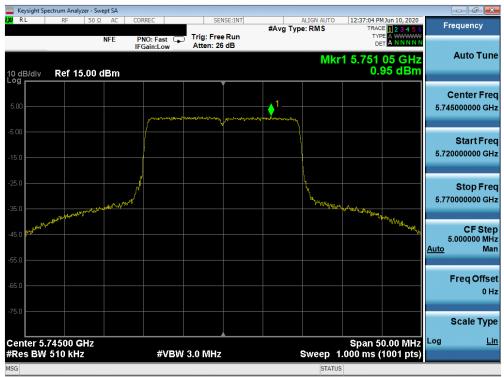


		Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
		5745	149	ax (20MHz)	242T	MCS0	0.95	30.00	-29.05
		5785	157	ax (20MHz)	242T	MCS0	0.91	30.00	-29.09
	d 3	5825	165	ax (20MHz)	242T	MCS0	0.75	30.00	-29.25
	Band	5755	151	ax (40MHz)	484T	MCS0	-4.99	30.00	-34.99
		5795	159	ax (40MHz)	484T	MCS0	-8.68	30.00	-38.68
		5775	155	ax (80MHz)	996T	MCS0	-5.97	30.00	-35.97

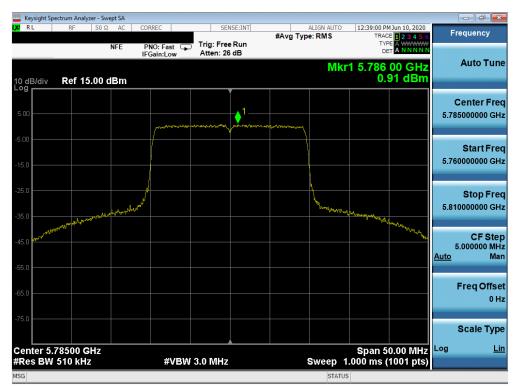
Table 7-58. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

FCC ID: A3LSMN981U	PCTEST Preid Joine part of B	MEASUREMENT REPORT (CERTIFICATION)	ONC	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 100 of 200	
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset		Page 128 of 296	
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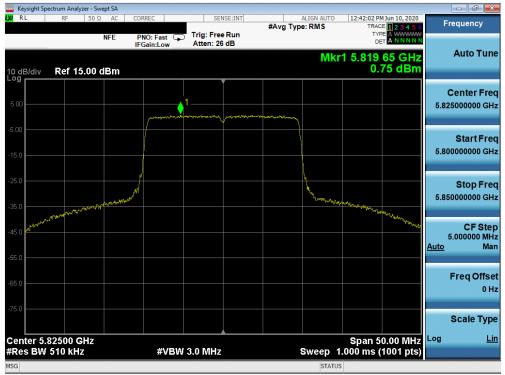
Plot 7-157. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 149)



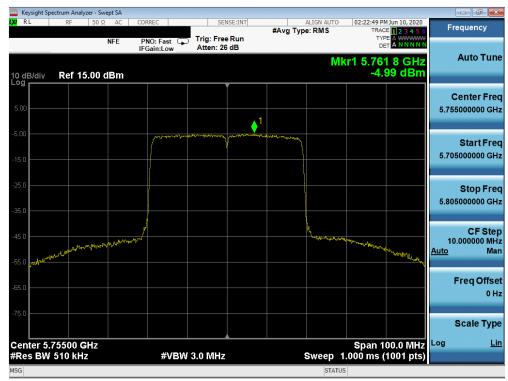
Plot 7-158. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNC	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 120 of 206
1M2005050081-09.A3L	1-09.A3L 5/5 - 7/7/2020 Portable Handset		Page 129 of 296	
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Plot 7-159. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 165)



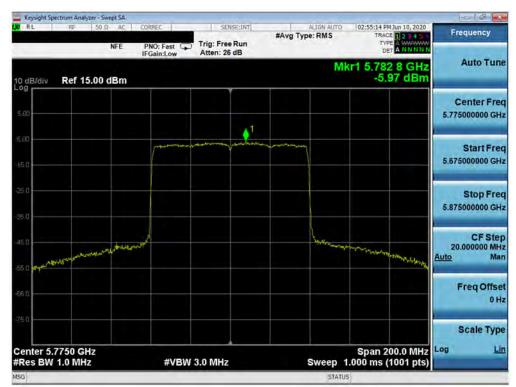
Plot 7-160. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 206	
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<b>LX/</b> RL RF 50 Ω	2 AC CO	RREC		ISE:INT	#Avg Ty	ALIGN AUTO	TRAC	1 Jun 10, 2020 E 1 2 3 4 5 6	Frequency
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-5.00		proversity	alafelden in farten og	1	unananan				Start Freq 5.745000000 GHz
-25.0									Stop Freq 5.845000000 GHz
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-75.0									Scale Type
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Plot 7-161. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 159)



Plot 7-162. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 121 of 206	
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	7.50	11.0	-3.50
	5200	40	ax (20MHz)	26T	MCS0	7.22	11.0	-3.78
Band 1	5240	48	ax (20MHz)	26T	MCS0	7.44	11.0	-3.56
Bar	5190	38	ax (40MHz)	26T	MCS0	8.43	11.0	-2.57
	5230	46	ax (40MHz)	26T	MCS0	8.50	11.0	-2.50
	5210	42	ax (80MHz)	26T	MCS0	8.98	11.0	-2.02
	5260	52	ax (20MHz)	26T	MCS0	7.22	11.0	-3.78
∢	5280	56	ax (20MHz)	26T	MCS0	7.49	11.0	-3.51
q 2	5320	64	ax (20MHz)	26T	MCS0	7.30	11.0	-3.70
Band 2A	5270	54	ax (40MHz)	26T	MCS0	8.94	11.0	-2.06
ш	5310	62	ax (40MHz)	26T	MCS0	8.49	11.0	-2.51
	5290	58	ax (80MHz)	26T	MCS0	7.90	11.0	-3.10
	5500	100	ax (20MHz)	26T	MCS0	7.71	11.0	-3.29
	5600	120	ax (20MHz)	26T	MCS0	7.38	11.0	-3.62
	5720	144	ax (20MHz)	26T	MCS0	9.09	11.0	-1.91
2C	5510	102	ax (40MHz)	26T	MCS0	9.17	11.0	-1.83
Band 2C	5590	118	ax (40MHz)	26T	MCS0	8.83	11.0	-2.17
Ba	5710	142	ax (40MHz)	26T	MCS0	8.16	11.0	-2.84
	5530	106	ax (80MHz)	26T	MCS0	9.22	11.0	-1.78
	5610	122	ax (80MHz)	26T	MCS0	9.12	11.0	-1.88
	5690	138	ax (80MHz)	26T	MCS0	7.34	11.0	-3.66

Table 7-59. Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSONS	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:		Dogo 132 of 206		
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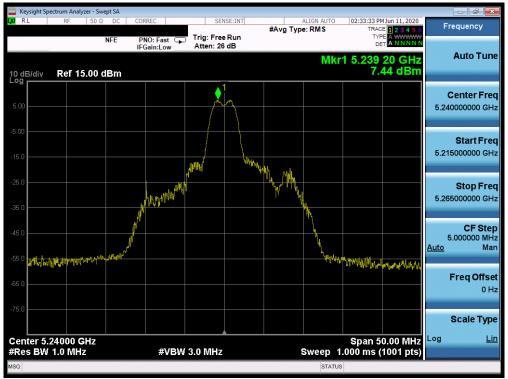
Plot 7-163. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)



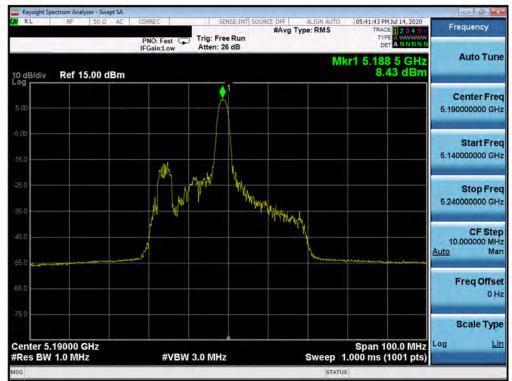
Plot 7-164. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Degre 122 of 200
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Plot 7-165. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)



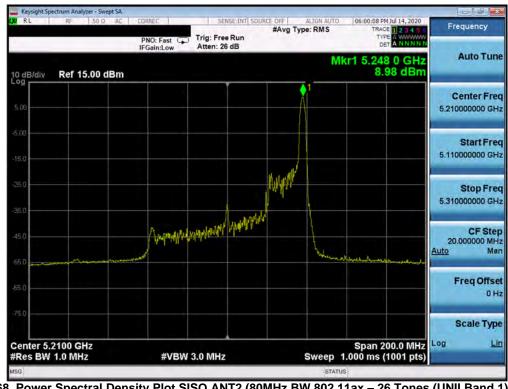
Plot 7-166. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 38)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSONE	Approved by: Quality Manager
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1M2005050081-09.A3L 5/5 - 7/7/2020 Portable Handset		Portable Handset		Page 134 of 296
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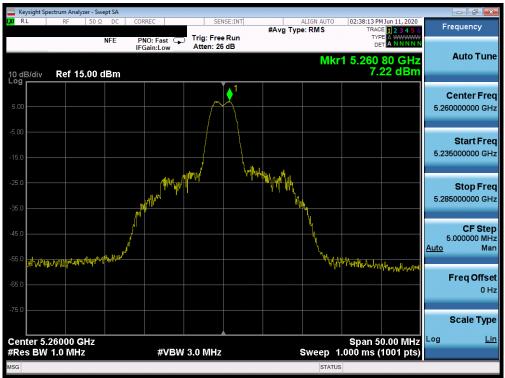
Plot 7-167. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



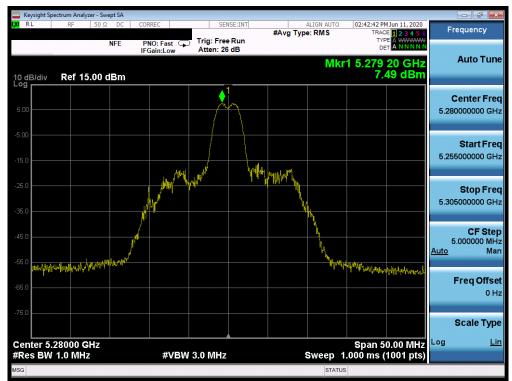
Plot 7-168. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 125 of 206
1M2005050081-09.A3L 5/5 - 7/7/2020 Portable Handse		Portable Handset		Page 135 of 296
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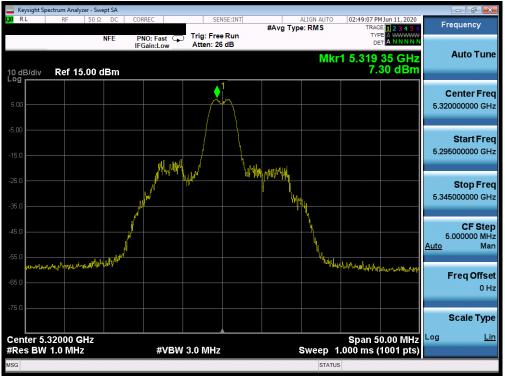
Plot 7-169. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



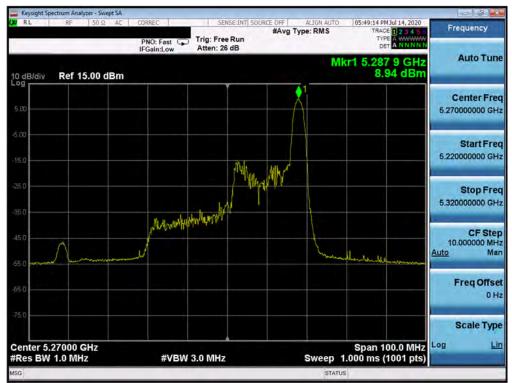
Plot 7-170. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMN981U	PCTEST Preed is the pert of @	MEASUREMENT REPORT (CERTIFICATION)	SUNC	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 126 of 206
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Plot 7-171. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



Plot 7-172. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMN981U	PCTEST Preed Jabe part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 127 of 206
1M2005050081-09.A3L	5/5 - 7/7/2020	Portable Handset	Page 137 of 296
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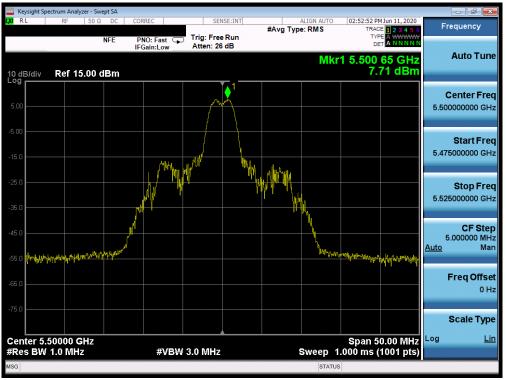
Plot 7-173. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



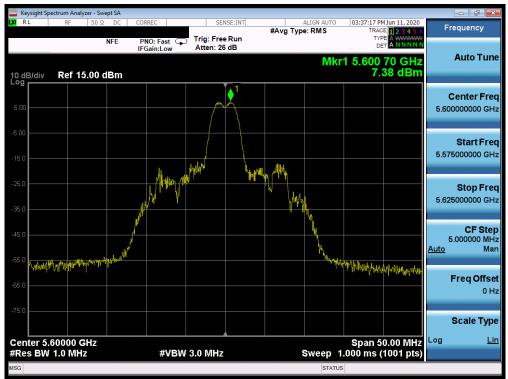
Plot 7-174. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMN981U	PCTEST Tread Jarba part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 128 of 206
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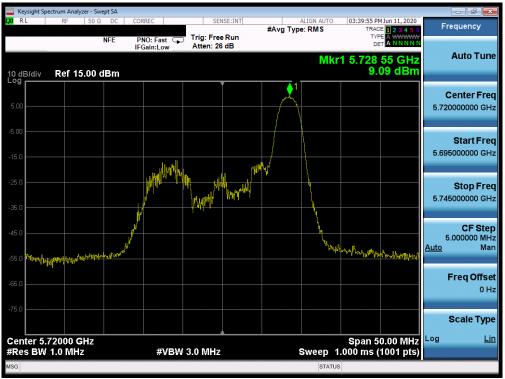
Plot 7-175. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



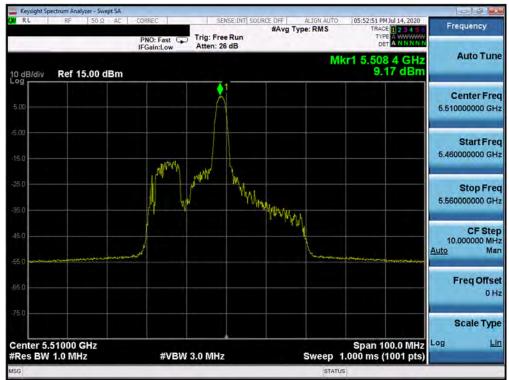
Plot 7-176. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMN981U	PCTEST Preed is the pert of @	MEASUREMENT REPORT (CERTIFICATION)	MSENC	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 120 of 200
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Plot 7-177. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



Plot 7-178. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNC	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 140 of 200
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Plot 7-179. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



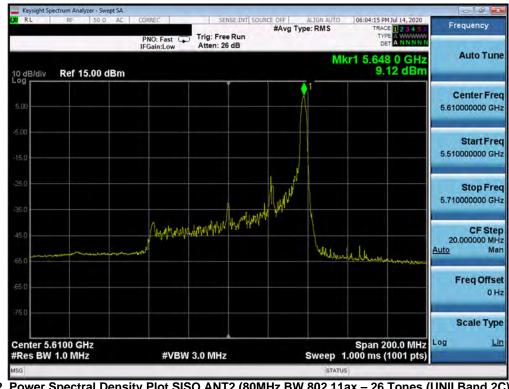
Plot 7-180. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMN981U	PCTEST Pread (site pert of (s)	MEASUREMENT REPORT (CERTIFICATION)	SAMSONC	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 111 of 206
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Plot 7-181. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-182. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMN981U	PCTEST Dread Joine part of @	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-183. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMN981U	PCTEST Produl Jorder part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 142 of 200
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	5.79	30.00	-24.21
e	5785	157	ax (20MHz)	26T	MCS0	6.22	30.00	-23.78
	5825	165	ax (20MHz)	26T	MCS0	5.52	30.00	-24.48
Band	5755	151	ax (40MHz)	26T	MCS0	8.26	30.00	-21.74
	5795	159	ax (40MHz)	26T	MCS0	8.31	30.00	-21.69
	5775	155	ax (80MHz)	26T	MCS0	8.60	30.00	-21.40

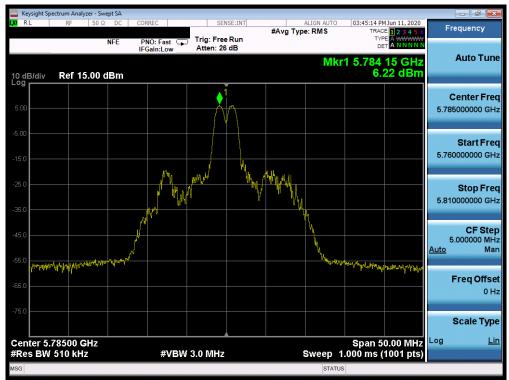
Table 7-60. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMN981U	PCTEST Preid Jobe part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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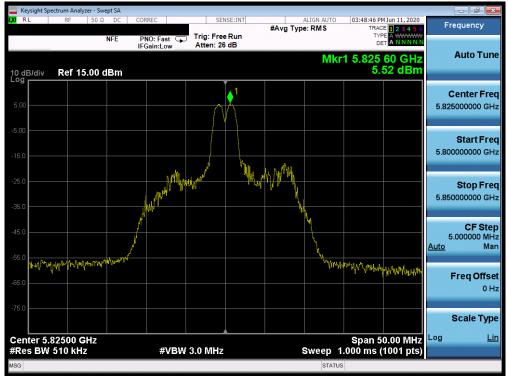
Plot 7-184. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



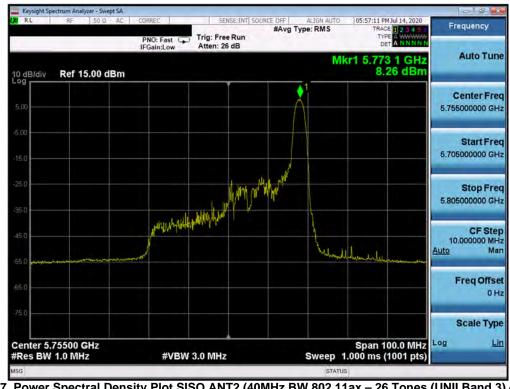
Plot 7-185. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMN981U	PCTEST Prood Jorbe part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNC	Approved by: Quality Manager
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Plot 7-186. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



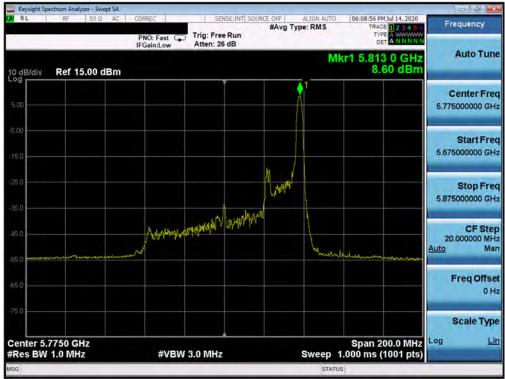
Plot 7-187. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMN981U	PCTEST Preed to be pert of @	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-188. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



Plot 7-189. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMN981U	PCTEST Proof. Jarbe pert of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSONE	Approved by: Quality Manager
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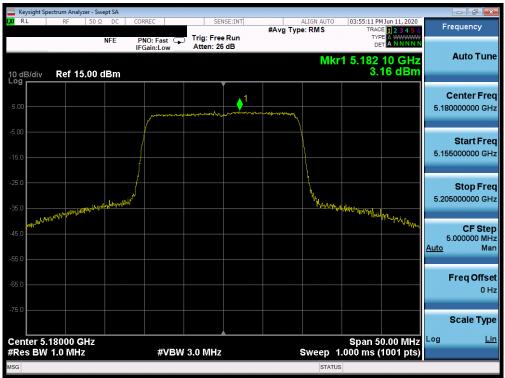
## SISO Antenna-2 Power Spectral Density Measurements (Full Tones)

_	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	3.16	11.0	-7.84
	5200	40	ax (20MHz)	242T	MCS0	3.59	11.0	-7.41
Band 1	5240	48	ax (20MHz)	242T	MCS0	3.51	11.0	-7.49
Bar	5190	38	ax (40MHz)	484T	MCS0	-1.62	11.0	-12.62
	5230	46	ax (40MHz)	484T	MCS0	-0.56	11.0	-11.56
	5210	42	ax (80MHz)	996T	MCS0	-4.75	11.0	-15.75
	5260	52	ax (20MHz)	242T	MCS0	4.08	11.0	-6.92
	5280	56	ax (20MHz)	242T	MCS0	3.92	11.0	-7.08
Band 2A	5320	64	ax (20MHz)	242T	MCS0	3.48	11.0	-7.52
Ban	5270	54	ax (40MHz)	484T	MCS0	-1.12	11.0	-12.12
	5310	62	ax (40MHz)	484T	MCS0	-1.57	11.0	-12.57
	5290	58	ax (80MHz)	996T	MCS0	-5.32	11.0	-16.32
	5500	100	ax (20MHz)	242T	MCS0	4.11	11.0	-6.89
	5600	120	ax (20MHz)	242T	MCS0	3.16	11.0	-7.84
	5720	144	ax (20MHz)	242T	MCS0	3.88	11.0	-7.12
ပ္ရ	5510	102	ax (40MHz)	484T	MCS0	-0.65	11.0	-11.65
Band 2C	5590	118	ax (40MHz)	484T	MCS0	-1.12	11.0	-12.12
Ba	5710	142	ax (40MHz)	484T	MCS0	-0.80	11.0	-11.80
	5530	106	ax (80MHz)	996T	MCS0	-5.77	11.0	-16.77
	5610	122	ax (80MHz)	996T	MCS0	-5.83	11.0	-16.83
	5690	138	ax (80MHz)	996T	MCS0	-8.62	11.0	-19.62

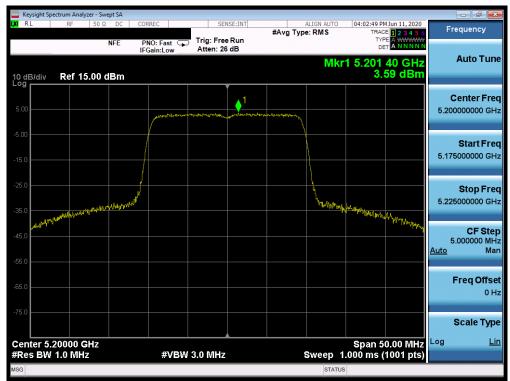
Table 7-61. Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

FCC ID: A3LSMN981U	PCTEST"	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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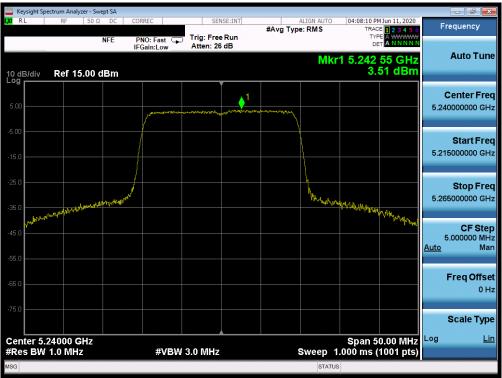
Plot 7-190. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)



Plot 7-191. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)

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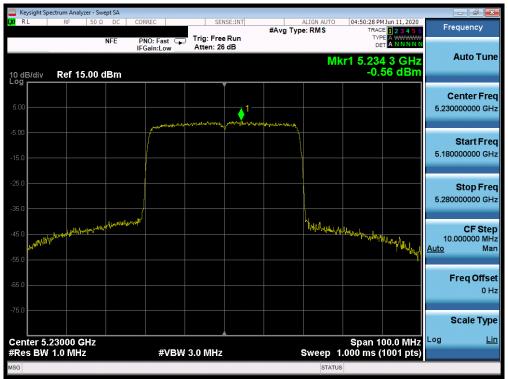
Plot 7-192. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)



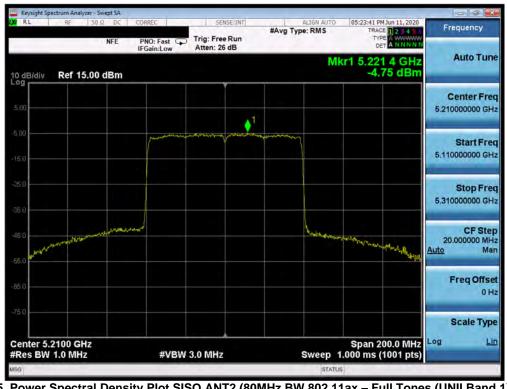
Plot 7-193. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)

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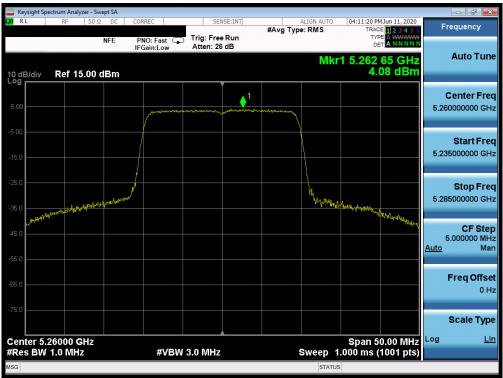
Plot 7-194. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)



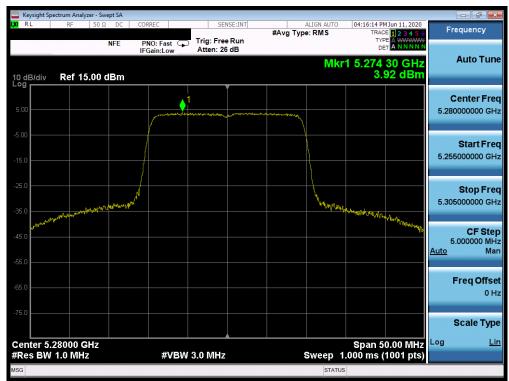
Plot 7-195. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMN981U	PCTEST Predd Jo Teo part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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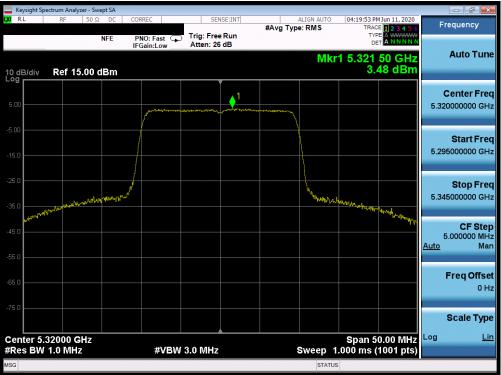
Plot 7-196. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)



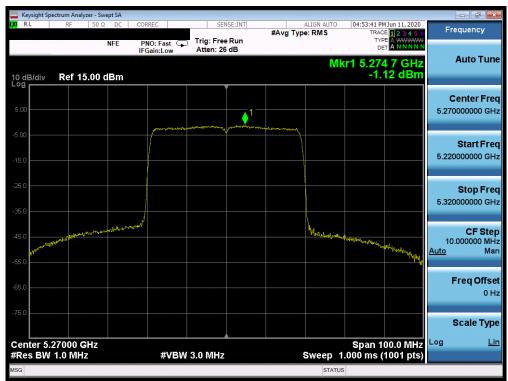
Plot 7-197. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMN981U	PCTEST Proted for the part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSONS	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 152 of 206
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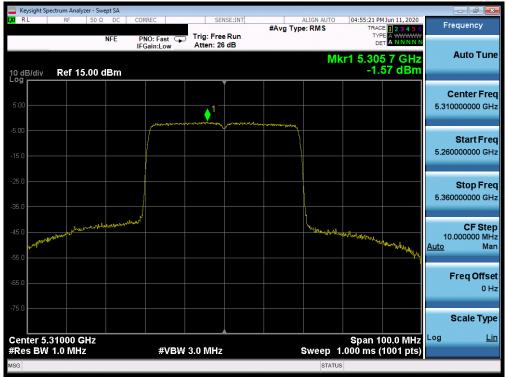
Plot 7-198. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)



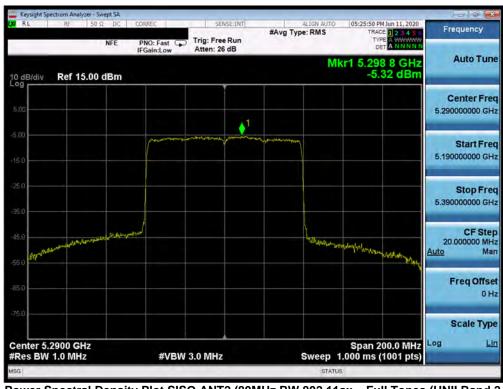
Plot 7-199. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMN981U	PCTEST Preed is the pert of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSONC	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 152 of 200
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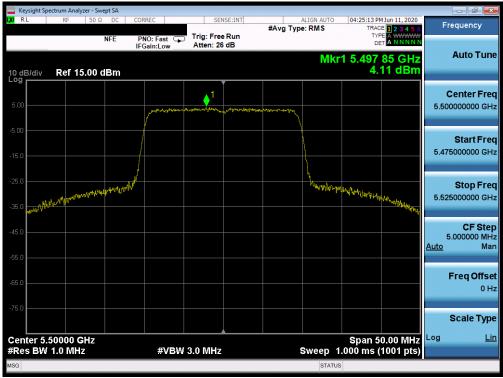
Plot 7-200. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)



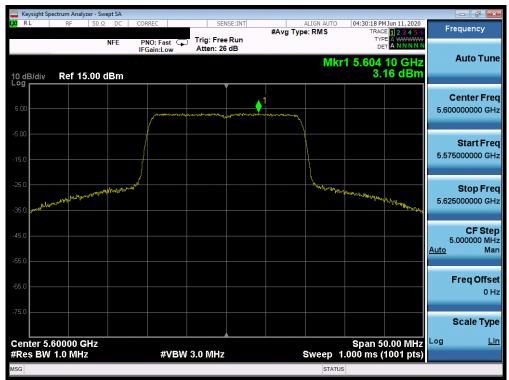
Plot 7-201. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMN981U	PCTEST Preed to be peet of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNS	Approved by: Quality Manager
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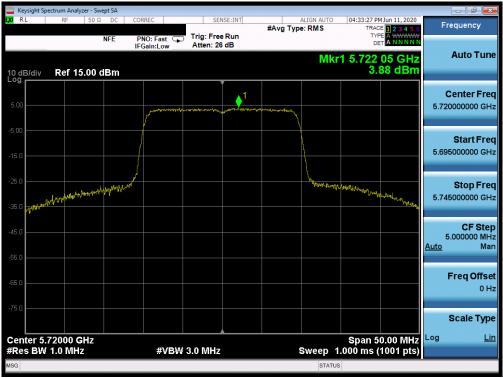
Plot 7-202. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)



Plot 7-203. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMN981U	PCTEST Preid Joine part of B	MEASUREMENT REPORT (CERTIFICATION)	NE	Approved by: Quality Manager
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Plot 7-204. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)



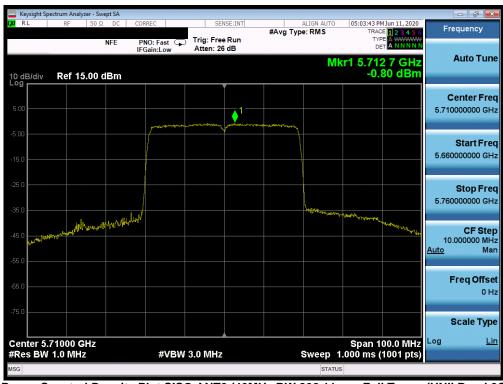
Plot 7-205. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMN981U	PCTEST Preed Jabe part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-206. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)



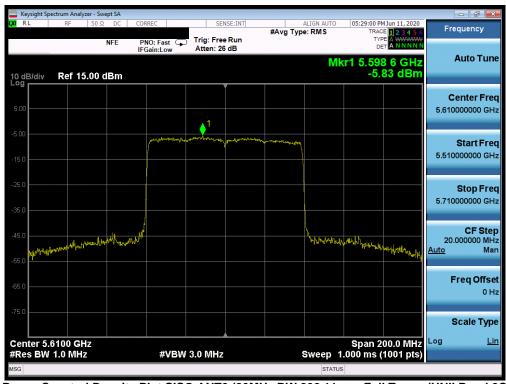
Plot 7-207. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMN981U	PCTEST Predd Jo Teo part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 157 of 200
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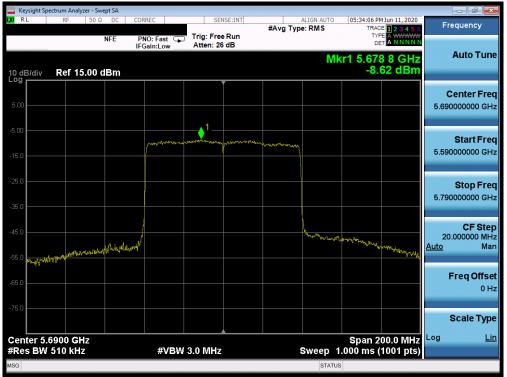
Plot 7-208. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)



Plot 7-209. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMN981U	PCTEST Thead Jarba part of B	MEASUREMENT REPORT (CERTIFICATION)		<b>proved by:</b> ality Manager	
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Plot 7-210. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMN981U	PCTEST Preed to be pert of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSONS	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 150 of 200	
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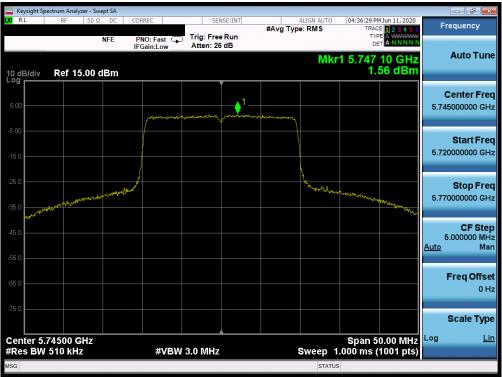


_		Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
		5745	149	ax (20MHz)	242T	MCS0	1.56	30.00	-28.44
		5785	157	ax (20MHz)	242T	MCS0	2.02	30.00	-27.98
	c pr	5825	165	ax (20MHz)	242T	MCS0	1.24	30.00	-28.76
	Band	5755	151	ax (40MHz)	484T	MCS0	-3.88	30.00	-33.88
		5795	159	ax (40MHz)	484T	MCS0	-2.92	30.00	-32.92
		5775	155	ax (80MHz)	996T	MCS0	-5.05	30.00	-35.05

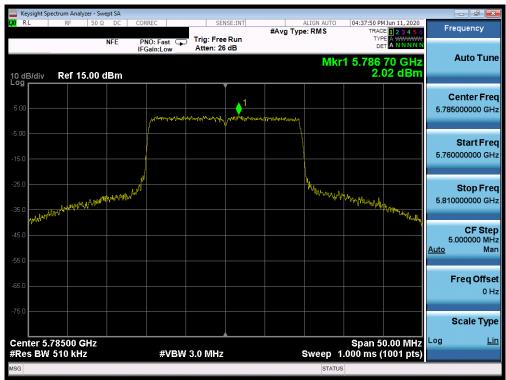
Table 7-62. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

FCC ID: A3LSMN981U	PCTEST Predition De pert al	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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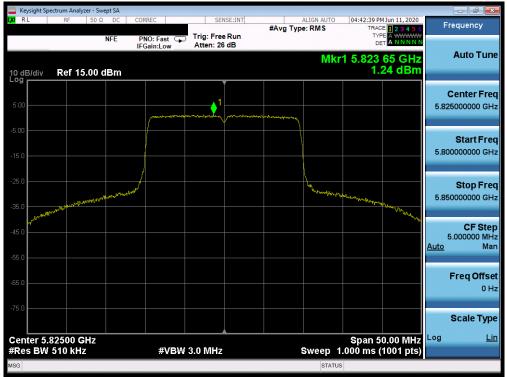
Plot 7-211. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 149)



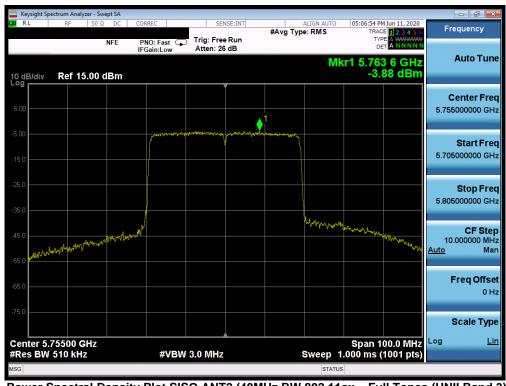
Plot 7-212. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMN981U	PCTEST Preed Jabe part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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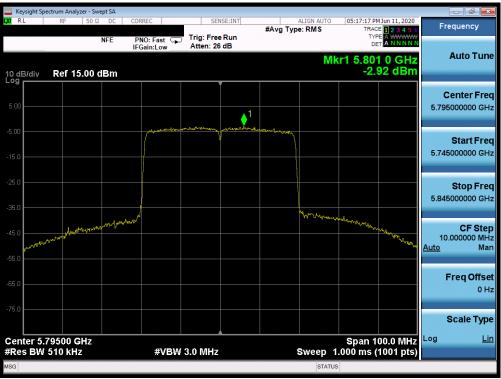
Plot 7-213. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 165)



Plot 7-214. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSONC	Approved by: Quality Manager
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Plot 7-215. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 159)



Plot 7-216. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	SAMSONE	Approved by: Quality Manager
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Summed MIMO Power Spectral Density	y Measurements (26 Tones)
------------------------------------	---------------------------

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	6.06	4.46	8.34	11.00	-2.66
_	5200	40	ax (20MHz)	26T	MCS0	5.54	4.60	8.11	11.00	-2.89
d 1	5240	48	ax (20MHz)	26T	MCS0	5.56	4.86	8.23	11.00	-2.77
Band 1	5190	38	ax (40MHz)	26T	MCS0	5.50	4.95	8.24	11.00	-2.76
	5230	46	ax (40MHz)	26T	MCS0	6.17	5.76	8.98	11.00	-2.02
	5210	42	ax (80MHz)	26T	MCS0	6.49	-8.07	6.64	11.00	-4.36
	5260	52	ax (20MHz)	26T	MCS0	4.46	4.79	7.64	11.00	-3.36
⊲	5280	56	ax (20MHz)	26T	MCS0	4.62	4.61	7.63	11.00	-3.37
d 2	5320	64	ax (20MHz)	26T	MCS0	4.91	4.18	7.57	11.00	-3.43
Band 2A	5270	54	ax (40MHz)	26T	MCS0	6.65	6.10	9.39	11.00	-1.61
	5310	62	ax (40MHz)	26T	MCS0	5.62	4.62	8.16	11.00	-2.84
	5290	58	ax (80MHz)	26T	MCS0	6.49	-8.96	6.61	11.00	-4.39
	5500	100	ax (20MHz)	26T	MCS0	4.56	4.05	7.32	11.00	-3.68
	5600	120	ax (20MHz)	26T	MCS0	4.42	3.84	7.15	11.00	-3.85
	5720	144	ax (20MHz)	26T	MCS0	3.58	3.71	6.66	11.00	-4.34
SC	5510	102	ax (40MHz)	26T	MCS0	6.39	6.13	9.27	11.00	-1.73
Band	5590	118	ax (40MHz)	26T	MCS0	5.89	5.65	8.78	11.00	-2.22
Ba	5710	142	ax (40MHz)	26T	MCS0	6.17	5.52	8.87	11.00	-2.13
	5530	106	ax (80MHz)	26T	MCS0	5.25	5.56	8.42	11.00	-2.58
	5610	122	ax (80MHz)	26T	MCS0	4.62	4.91	7.78	11.00	-3.22
	5690	138	ax (80MHz)	26T	MCS0	4.45	4.37	7.42	11.00	-3.58

Table 7-63. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	2.21	1.79	5.02	30.00	-24.98
	5785	157	ax (20MHz)	26T	MCS0	2.72	2.26	5.51	30.00	-24.49
2q 3	5825	165	ax (20MHz)	26T	MCS0	2.16	1.81	5.00	30.00	-25.00
Band	5755	151	ax (40MHz)	26T	MCS0	6.26	5.31	8.82	30.00	-21.18
	5795	159	ax (40MHz)	26T	MCS0	6.26	5.44	8.88	30.00	-21.12
	5775	155	ax (80MHz)	26T	MCS0	6.40	4.99	8.76	30.00	-21.24

Table 7-64. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: A3LSMN981U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	0.64	1.33	4.01	11.00	-6.99
	5200	40	ax (20MHz)	242T	MCS0	0.58	0.49	3.55	11.00	-7.45
l bi	5240	48	ax (20MHz)	242T	MCS0	0.52	0.96	3.76	11.00	-7.24
Band	5190	38	ax (40MHz)	242T	MCS0	-5.71	-4.35	-1.97	11.00	-12.97
	5230	46	ax (40MHz)	242T	MCS0	-3.72	-3.57	-0.63	11.00	-11.63
	5210	42	ax (80MHz)	242T	MCS0	-8.63	-8.07	-5.33	11.00	-16.33
	5260	52	ax (20MHz)	242T	MCS0	1.08	1.36	4.23	11.00	-6.77
⊲	5280	56	ax (20MHz)	242T	MCS0	0.91	1.29	4.11	11.00	-6.89
d 2/	5320	64	ax (20MHz)	242T	MCS0	1.04	1.17	4.12	11.00	-6.88
Band 2A	5270	54	ax (40MHz)	242T	MCS0	-3.85	-3.99	-0.91	11.00	-11.91
ш	5310	62	ax (40MHz)	242T	MCS0	-4.22	-3.81	-1.00	11.00	-12.00
	5290	58	ax (80MHz)	242T	MCS0	-9.72	-8.96	-6.31	11.00	-17.31
	5500	100	ax (20MHz)	242T	MCS0	-0.16	0.45	3.17	11.00	-7.83
	5600	120	ax (20MHz)	242T	MCS0	-0.65	-0.01	2.69	11.00	-8.31
	5720	144	ax (20MHz)	242T	MCS0	-0.29	0.58	3.18	11.00	-7.82
2C	5510	102	ax (40MHz)	242T	MCS0	-4.86	-4.75	-1.79	11.00	-12.79
Band	5590	118	ax (40MHz)	242T	MCS0	-5.42	-5.22	-2.31	11.00	-13.31
Ba	5710	142	ax (40MHz)	242T	MCS0	-4.97	-4.55	-1.74	11.00	-12.74
	5530	106	ax (80MHz)	242T	MCS0	-8.37	-8.19	-5.27	11.00	-16.27
	5610	122	ax (80MHz)	242T	MCS0	-10.17	-9.22	-6.66	11.00	-17.66
	5690	138	ax (80MHz)	242T	MCS0	-11.23	-11.60	-8.40	11.00	-19.40

Table 7-65. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	242T	MCS0	-2.18	-2.31	0.77	30.00	-29.23
e	5785	157	ax (20MHz)	242T	MCS0	-2.29	-2.17	0.78	30.00	-29.22
	5825	165	ax (20MHz)	242T	MCS0	-2.72	-2.43	0.44	30.00	-29.56
Band	5755	151	ax (40MHz)	242T	MCS0	-7.52	-6.56	-4.00	30.00	-34.00
	5795	159	ax (40MHz)	242T	MCS0	-7.14	-7.27	-4.19	30.00	-34.19
	5775	155	ax (80MHz)	242T	MCS0	-9.20	-7.78	-5.42	30.00	-35.42

Table 7-66. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

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## Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately with reduced Antenna 1 and Antenna 2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

## Sample MIMO Calculation:

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

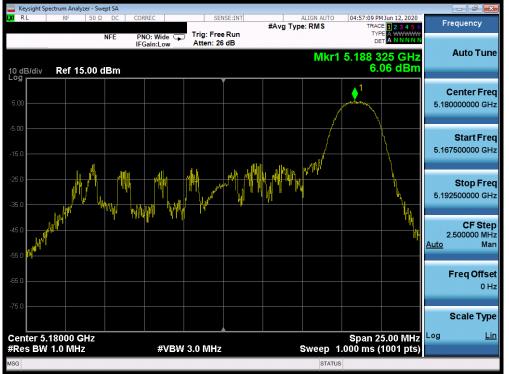
Antenna 1 + Antenna 2 = MIMO

(5.88 dBm + 6.27 dBm) = (3.87 mW + 4.24 mW) = 8.11mW = 9.09 dBm

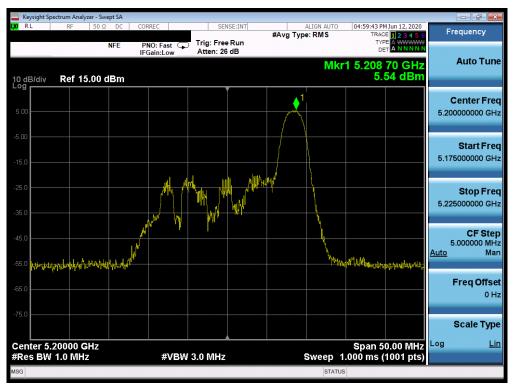
FCC ID: A3LSMN981U	PCTEST Preed Joite part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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## MIMO Antenna-1 Power Spectral Density Measurements (26 Tones)



Plot 7-217. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)



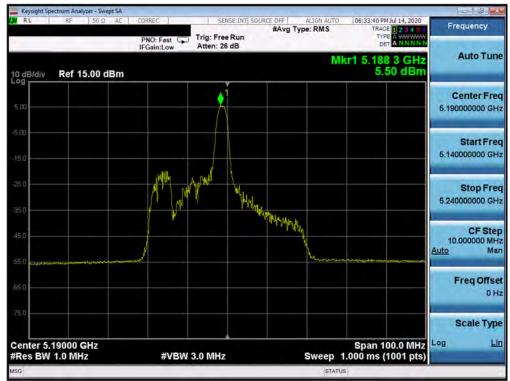
Plot 7-218. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMN981U	PCTEST Produl Soltes part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-219. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)



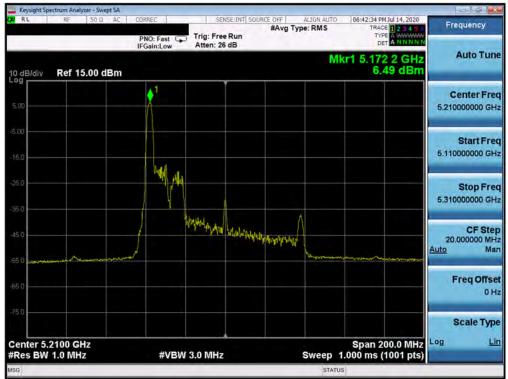
Plot 7-220. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 38)

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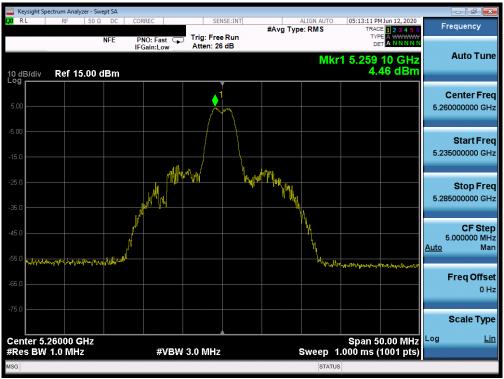
Plot 7-221. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



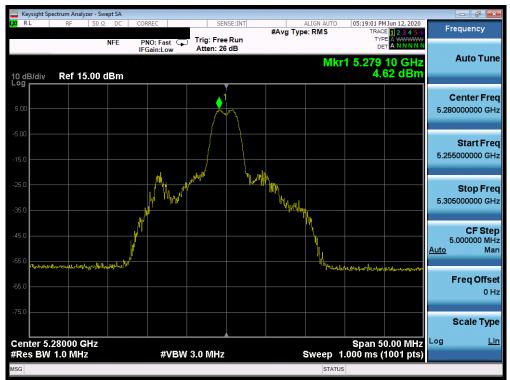
Plot 7-222. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMN981U	PCTEST Prood Jorde part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-223. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



Plot 7-224. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMN981U	PCTEST Proof Joine pert of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNC	Approved by: Quality Manager
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Plot 7-225. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)

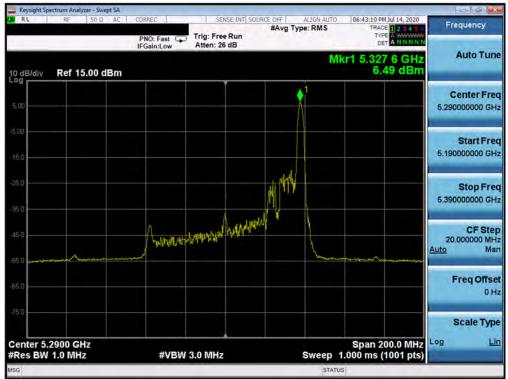


PCTEST Approved by: G MEASUREMENT REPORT SAMSONE FCC ID: A3LSMN981U (CERTIFICATION) **Quality Manager** a to traq ad at Test Report S/N: EUT Type: Test Dates: Page 171 of 296 1M2005050081-09.A3L 5/5 - 7/7/2020 Portable Handset © 2020 PCTEST V 9.0 02/01/2019





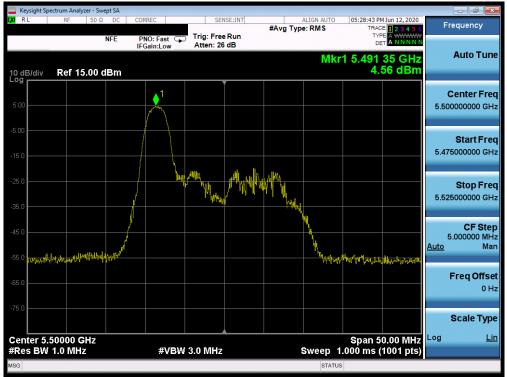
Plot 7-227. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



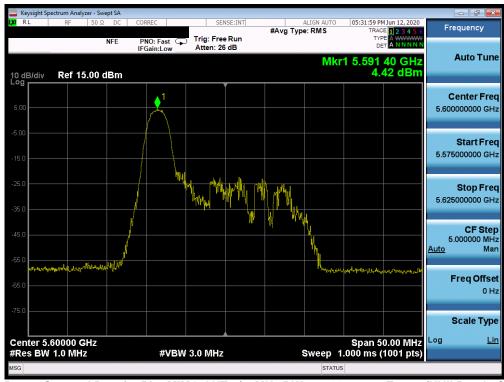
Plot 7-228. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMN981U	PCTEST Proof John Part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNT	Approved by: Quality Manager
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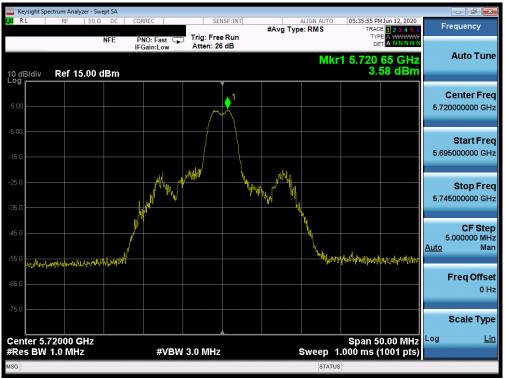
Plot 7-229. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



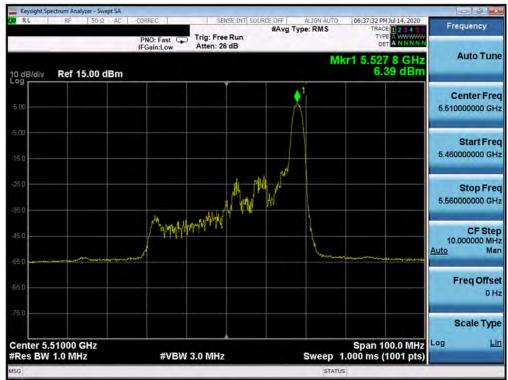
Plot 7-230. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMN981U	PCTEST hold Jafe part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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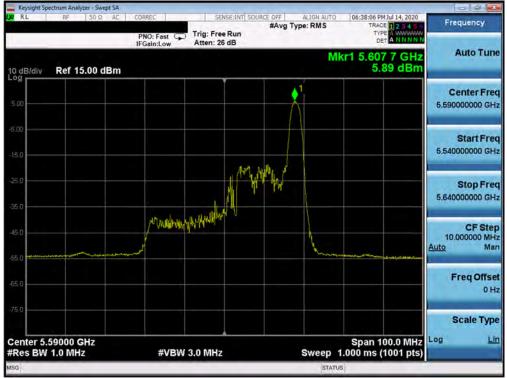
Plot 7-231. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



Plot 7-232. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

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Plot 7-233. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-234. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

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Plot 7-235. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



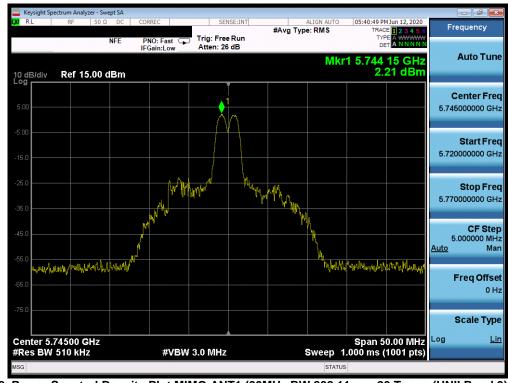
Plot 7-236. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMN981U	PCTEST Preed is the pert of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-237. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)



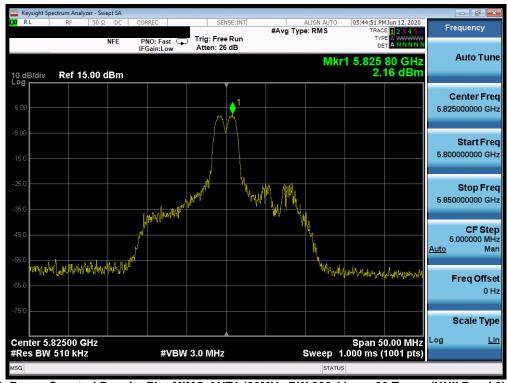
Plot 7-238. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)

FCC ID: A3LSMN981U	PCTEST Tread Jarba part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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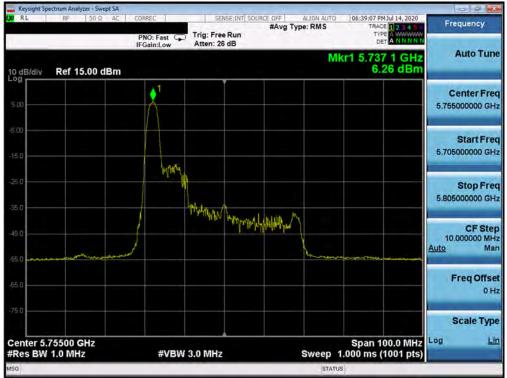
Plot 7-239. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)



Plot 7-240. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

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Plot 7-241. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)



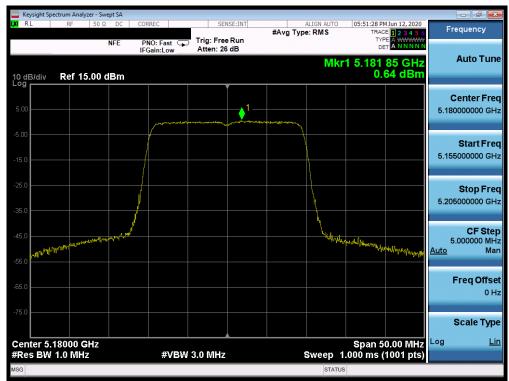
Plot 7-242. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)

FCC ID: A3LSMN981U	PCTEST Tread Jarba part of B	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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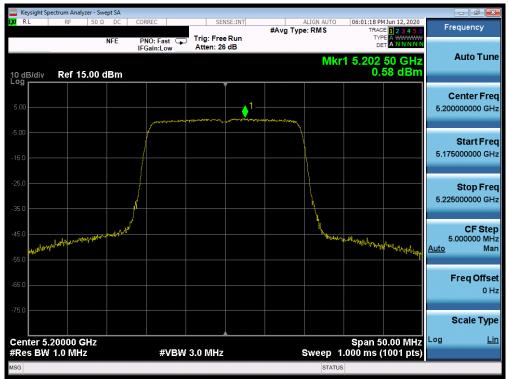
Plot 7-243. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)



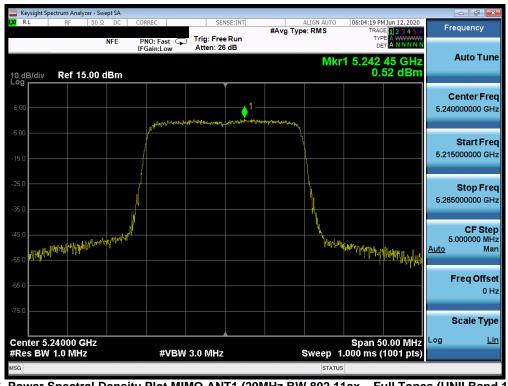
Plot 7-244. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)

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Plot 7-245. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)



Plot 7-246. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)

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