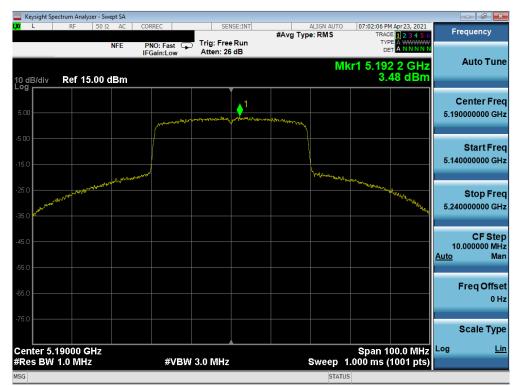


🔤 Keysight Spec	trum Analyzer - Sw									
LXI L	RF 50 Ω	AC	CORREC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO		Apr 23, 2021	Frequency
10 dB/div	Ref 15.00		PNO: Fast IFGain:Low	Trig: Free Atten: 20	Run dB		Mk	TYP DE (r1 5.228		Auto Tune
5.00					/ manage	all and the second s				Center Freq 5.230000000 GHz
-5.00		lineron and	www				montering			Start Freq 5.180000000 GHz
-25.0 -35.0	and and a start of the							- water of the second	and a star a	Stop Freq 5.280000000 GHz
-45.0										CF Step 10.000000 MHz <u>Auto</u> Man
-65.0										Freq Offset 0 Hz
-75.0 Center 5.2	3000 GHz							Span 1	00.0 MHz	Scale Type Log <u>Lin</u>
#Res BW 1			#VBW	3.0 MHz			Sweep 1	.000 ms (1001 pts)	
1130							514103			

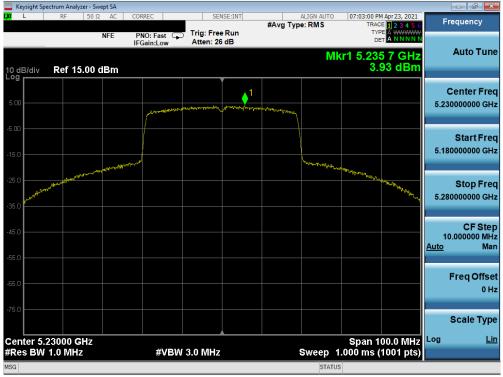
Plot 7-341. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



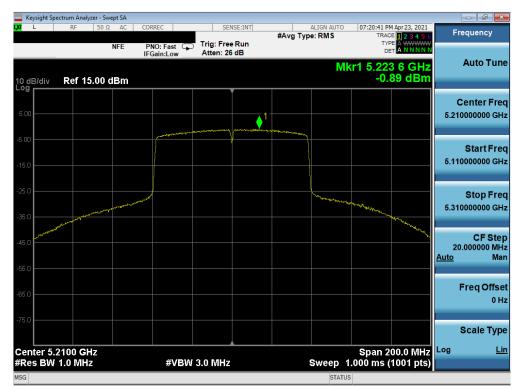
Plot 7-342. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 011 of 500	
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	12/2021 - 06/04/2021 Portable Handset		Page 211 of 508	
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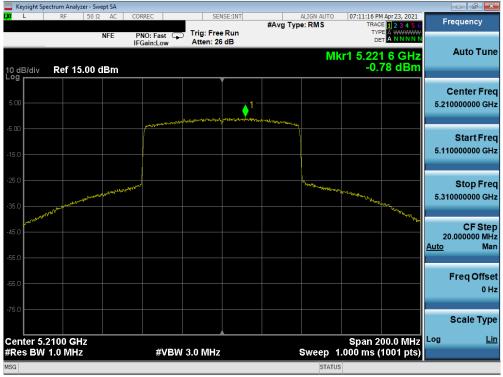
Plot 7-343. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



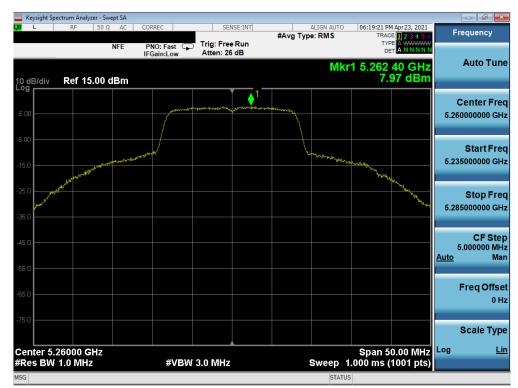
Plot 7-344. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 010 of 500	
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 212 of 508	
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Plot 7-345. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



Plot 7-346. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-347. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 56)



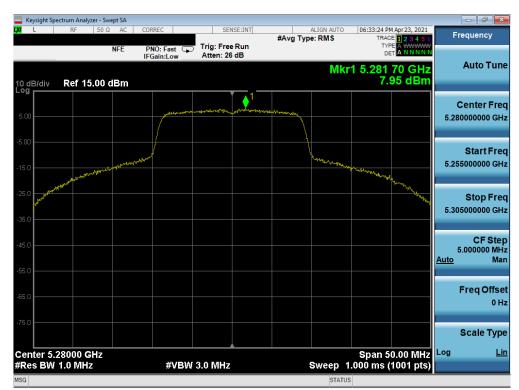
Plot 7-348. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 014 at 500	
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 214 of 508	
© 2021 PCTEST				V 9.0 02/01/2019	





Plot 7-349. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



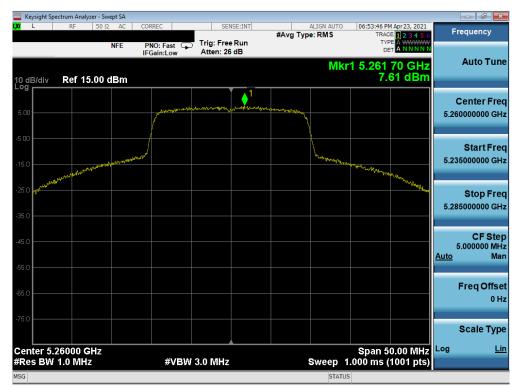
Plot 7-350. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 215 of 500
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🔤 Keysight Spectrum Analyzer - Swept	t SA				
L RF 50 Ω	AC CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	06:35:50 PM Apr 23, 2021 TRACE 1 2 3 4 5 6	Frequency
N	FE PNO: Fast +++ IFGain:Low	Trig: Free Run Atten: 26 dB			
10 dB/div Ref 15.00 dE	3m		Mkr	1 5.321 05 GHz 8.120 dBm	Auto Tune
5.00		All and the second s	ou many many many many many many many many		Center Freq 5.32000000 GHz
-5.00 -15.0	monorm		Jonaton	man and a start	Start Freq 5.295000000 GHz
-25.0 Weather					Stop Freq 5.345000000 GHz
-45.0					CF Step 5.000000 MHz <u>Auto</u> Man
-65.0					Freq Offset 0 Hz
-75.0					Scale Type
Center 5.32000 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep 1	Span 50.00 MHz .000 ms (1001 pts)	Log <u>Lin</u>
MSG			STATUS	6	

Plot 7-351. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



Plot 7-352. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 216 of 509
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🔤 Keysight Spe	ectrum Analyzer - Sw										
LXI L	RF 50 Ω	AC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		Apr 23, 2021	Fre	equency
		NFE	PNO: Fast 🕞 IFGain:Low	Trig: Free Atten: 26				TYP			
			II Guilleow				Mkr	1 5.282	60 GHz		Auto Tune
10 dB/div Log	Ref 15.00	dBm						6.	81 dBm		
3					′ <mark>≬</mark> 1					С	enter Freq
5.00					and the second s	- marganet				5.280	000000 GHz
-5.00						1	1				
0.00							L.				Start Freq
-15.0		mannah	and the second				John marine	traunverbal .		5.255	000000 GHz
-25.0	NER-PARTY AND								Mar Marine		
-20.0										5 305	Stop Freq
-35.0										0.000	
-45.0											CF Step
-40.0										5. Auto	.000000 MHz Man
-55.0											
-65.0										F	req Offset
-03.0											0 Hz
-75.0											
											Scale Type
	28000 GHz		40 (814					Span 5	0.00 MHz	Log	Lin
#Res BW	1.0 MHZ		#VBV	3.0 MHz			Sweep 1	_	1001 pts)		
mod							STATUS				

Plot 7-353. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)

Keysight Spectrum /						- 6 -
L RF	50 Ω AC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	06:55:38 PM Apr 23, 2021 TRACE 1 2 3 4 5 6	Frequency
	NFE	PNO: Fast 🕞	Trig: Free Run Atten: 26 dB	#Avg Type: RMS	TYPE A WWWW DET A NNNN	
	f 15.00 dBm			MI	kr1 5.318 40 GHz 8.12 dBm	Auto Tu
^{yg}			1			
		ماروم المراجي	and the second s	Manana marker		Center Fre
00		م م				5.32000000 G
00						Start Fro
	and and and and the first of the	Rud Ma		the words	and the state of the second	5.295000000 G
5.0	Availation				Market Markethe	5.295000000 G
htmp.od.					and the second s	
5.0						Stop Fr
						5.345000000 G
5.0						
5.0						CF Ste 5.000000 M
						Auto M
5.0						
5.0						Freq Offs
						0
5.0						
						Scale Ty
enter 5.3200					Span 50.00 MHz	Log <u>l</u>
Res BW 1.0 N	MHz	#VBW	3.0 MHz	Sweep	1.000 ms (1001 pts)	
G				STA	rus	

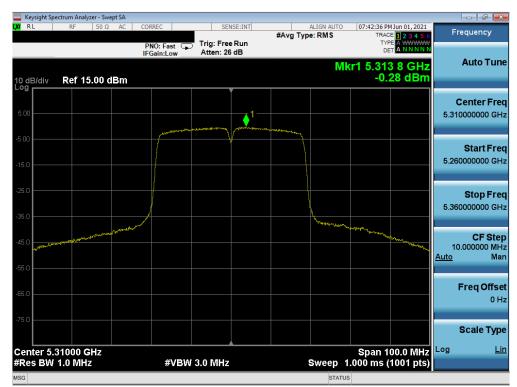
Plot 7-354. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-355. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



Plot 7-356. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-357. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



Plot 7-358. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dago 210 of 509
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	trum Analyzer - Swept SA	4				
LXU RL	RF 50 Ω AC	C CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	07:56:51 PM Jun 01, 2021 TRACE 1 2 3 4 5 6	Frequency
		PNO: Fast 😱 IFGain:Low	Trig: Free Run Atten: 26 dB			Auto Tune
10 dB/div Log	Ref 15.00 dBn	n			-2.05 dBm	
5.00						Center Freq 5.29000000 GHz
		مىرىلى بىرىمىدىرىنى		mar Landa Brancher		5.29000000 GHZ
-5.00						Start Freq
-15.0						5.190000000 GHz
-25.0						Stop Freq
-35.0		Weiner -			and a start and a start and	5.390000000 GHz
-45.0						CF Step
						20.000000 MHz <u>Auto</u> Man
-55.0						Ener Office (
-65.0						Freq Offset 0 Hz
-75.0						Our la Trave
						Scale Type
Center 5.2 #Res BW 1		#VBW	3.0 MHz	Sweep 1	Span 200.0 MHz I.000 ms (1001 pts)	Log <u>Lin</u>
MSG				STATU		

Plot 7-359. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)

Odd B/div Ref 15.00 dBm -1.88 dBm 6.00 -1.88 dBm -1.88 dBm 6.00 -1.9000000 dB -1.9000000 dB 6.00 -1.90000000 dB -1.90000000 dB	Keysight Spectrum						- 6 -
Mkr1 5.296 6 GHz -1.88 dBm Center Fi 5.29000000 0 Start Fi 5.39000000 0 Start Fi 5.39000000 0 Start Fi 5.39000000 0 Start Fi 5.39000000 0 Auto Start Fi 5.39000000 0 Auto Start Fi 5.39000000 0 Auto	RL RF	50 Ω AC	PNO: Fast	Trig: Free Run		TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
00 1 1 5.29000000 G 00 1 1 5.29000000 G 00 1 1 1 00 1 1 1 1 00 1 1 1 1 00 1 1 1 1 00 1 1 1 1 00 1 1 1 1 00 1 1 1 1 1 00 1 1 1 1 1 1 00 1 1 1 1 1 1 1 00 1 <th></th> <th>f 15.00 dBm</th> <th></th> <th></th> <th>N</th> <th></th> <th>Auto Tur</th>		f 15.00 dBm			N		Auto Tur
50 Start Fu 50 <td< td=""><td>.00</td><td></td><td></td><td>1</td><td>Www.jarra-ya</td><td></td><td>Center Fre 5.290000000 GH</td></td<>	.00			1	Www.jarra-ya		Center Fre 5.290000000 GH
50 50<							Start Fre 5.190000000 GI
3.0 20.00000 M 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0		the and the second of the second	~~~~~		han and a start	Construction of the second	Stop Fr 5.390000000 G
5.0 Scale Ty							CF Ste 20.000000 M <u>Auto</u> M
Scale Ty	5.0						Freq Offs 0
							Scale Typ
enter 5.2900 GHz Span 200.0 MHz ^{Log} Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)	enter 5.2900 Res BW 1.01	MHz	#VBM	/ 3.0 MHz	Sween	5pan 200.0 MHZ 1.000 ms (1001 pts)	

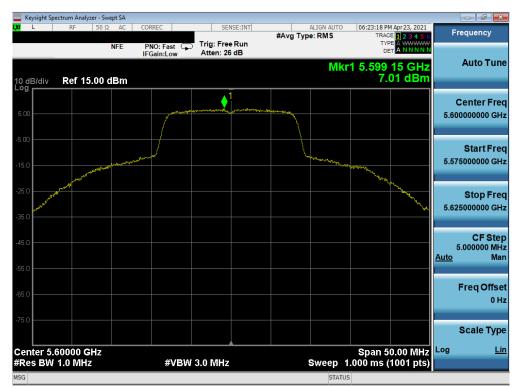
Plot 7-360. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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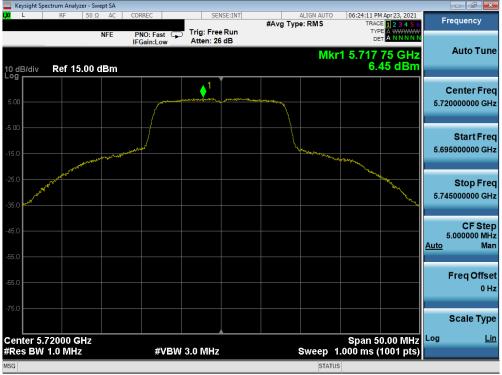
Plot 7-361. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 100)



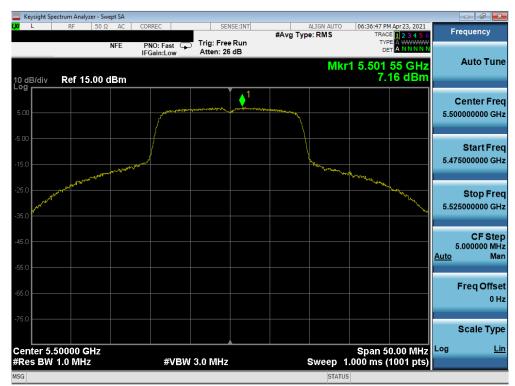
Plot 7-362. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 221 of 509
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Plot 7-363. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 144)



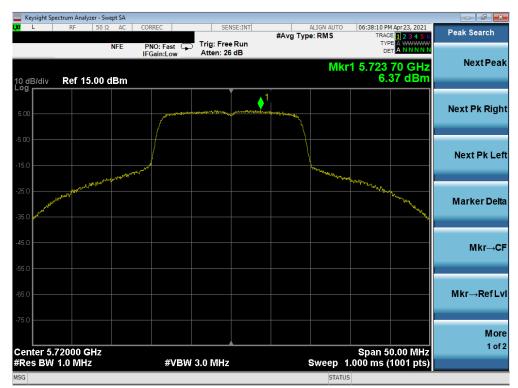
Plot 7-364. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 000 of 500
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	trum Analyzer - Sv										
L <mark>XI</mark> L	RF 50 9	2 AC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS		Apr 23, 2021	Fre	quency
		NFE	PNO: Fast 🕞 IFGain:Low	Trig: Free Atten: 26				TYF DE			Auto Tune
10 dB/div Log	Ref 15.00	dBm						6.2	25 GHz 23 dBm		
					↓ ¹						enter Freq
-5.00				an a						5.6000	000000 GHz
-5.00			/								Start Freq
-15.0		mandra	A Constraint			Y	-	and		5.5750	000000 GHz
-25.0	And							- Carlo Call Michael	WMEST MARK MENT		Stop Freq 000000 GHz
											05.044
-45.0										5.0 <u>Auto</u>	CF Step 000000 MHz Man
-55.0										_	
-65.0										F	req Offset 0 Hz
-75.0											
-75.0											cale Type
Center 5.6 #Res BW 7			#\/B\A	/ 3.0 MHz			Sween_1	Span 5	0.00 MHz 1001 pts)	Log	Lin
#RES DW	NO WINZ		#VDV	- 5.0 WINZ			SWEEP		roor pisj		

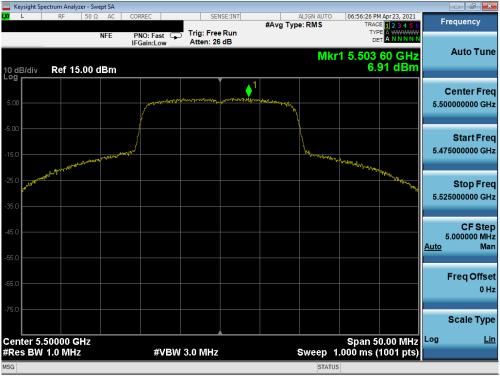
Plot 7-365. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



Plot 7-366. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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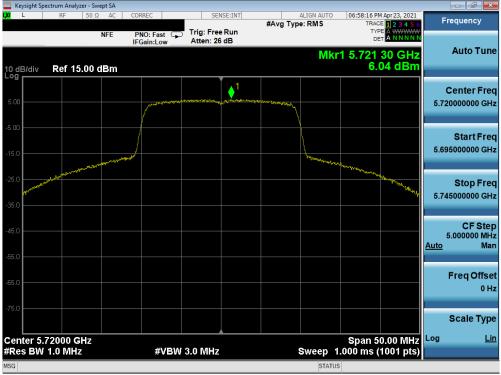
Plot 7-367. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)

1		Swept SA	CORREC	SENS	E:INT		ALIGN AUTO	06:57:34 P	4 Apr 23, 2021	_	
		NFE	PNO: Fast		Run	#Avg Typ		TRAC		F	requency
dB/div	Ref 15.0	0 dBm	IFGain:Low	Atten: 26 d	18		Mkr	1 5.602	60 GHz 11 dBm		Auto Tur
00				alanantara tangga ng gang di sangga ng	aparteria ca	M. marther					Center Fre
5.0	مىر	for the should					and and a second and a second and a second a s	hand the att the day		5.57	Start Fr 5000000 G
5.0 • JT ^{Arrow}	NALASSAN PRANSANAN -								Whenton Willington	5.62	Stop Fr 5000000 G
i.o										<u>Auto</u>	CF St 5.000000 M N
.0											Freq Offs 0
											Scale Tyj
	60000 GHz 1.0 MHz		#VBW	/ 3.0 MHz			Sweep 1	Span 5 .000 ms (0.00 MHz 1001 pts)	LUg	<u> </u>

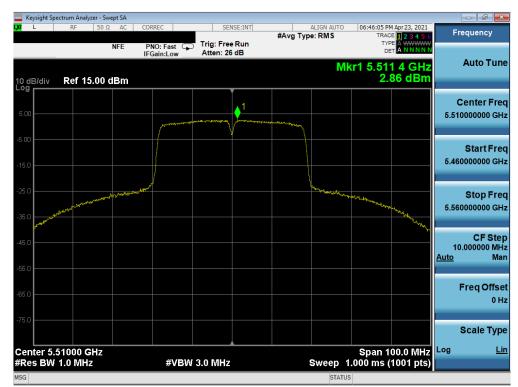
Plot 7-368. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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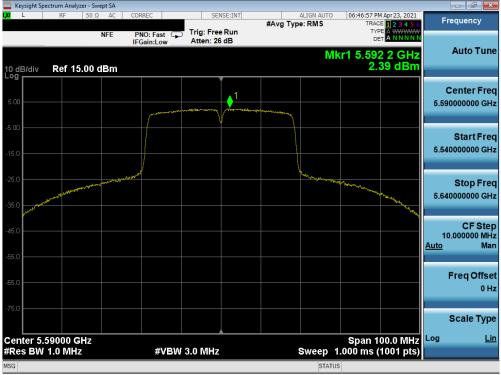
Plot 7-369. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



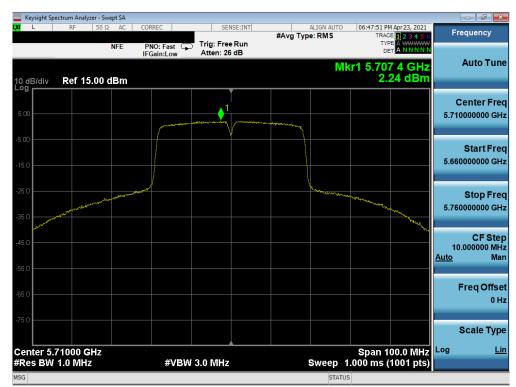
Plot 7-370. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 005 of 500
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Plot 7-371. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



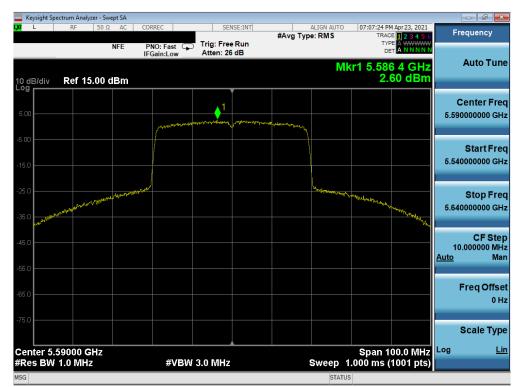
Plot 7-372. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 226 of E09
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🔤 Keysight Spectru	um Analyzer - Swe									
LXU L	RF 50 Ω	1	DRREC		Run	#Avg Typ	ALIGN AUTO	TRACI	Apr 23, 2021	Frequency
10 dB/div	Ref 15.00 c	I	Gain:Low	Atten: 26			Mk	r1 5.511	B GHz 30 dBm	Auto Tune
5.00			formation	here an alexand	1	antermy				Center Freq 5.510000000 GHz
-5.00										Start Freq 5.460000000 GHz
-25.0	and the state of the	enter for the spender of					W. Humonyste	the states	Concentration of the Service	Stop Freq 5.560000000 GHz
-45.0										CF Step 10.000000 MHz <u>Auto</u> Man
-65.0										Freq Offset 0 Hz
-75.0										Scale Type
Center 5.51 #Res BW 1.			#VBW	3.0 MHz			Sweep 1	Span 10 .000 ms (′	00.0 MHz 1001 pts)	Log <u>Lin</u>
MSG							STATUS			

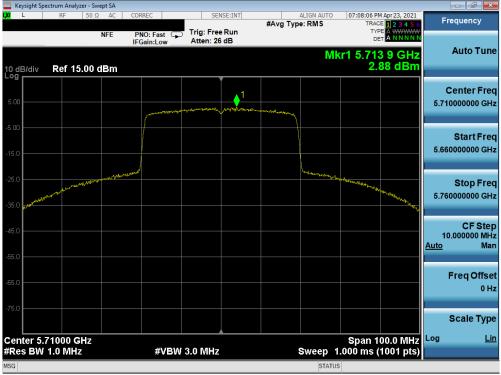
Plot 7-373. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



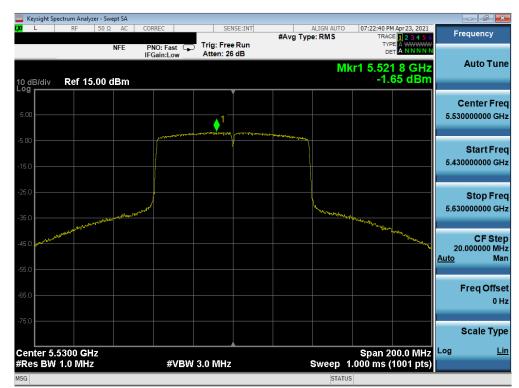
Plot 7-374. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N: Test Dates:		EUT Type:		Dage 227 of 500	
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Plot 7-375. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



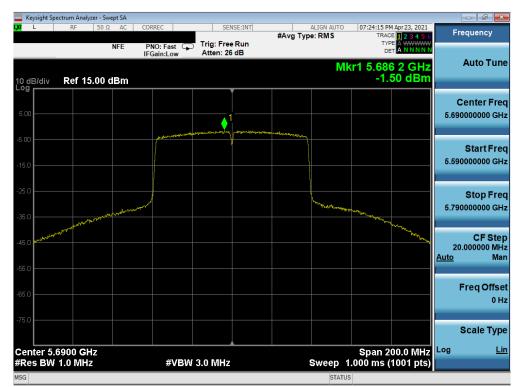
Plot 7-376. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N: Test Dates:		EUT Type:		Dage 220 of 500	
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 228 of 508	
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Plot 7-377. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



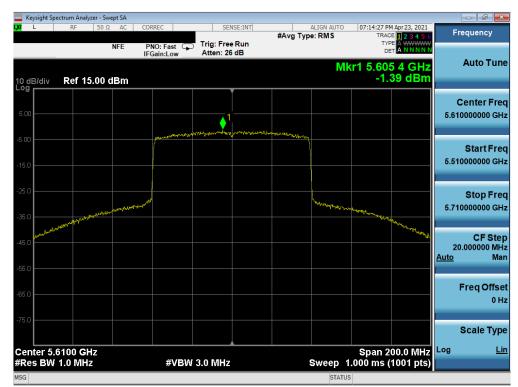
Plot 7-378. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 220 of 500	
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Plot 7-379. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)



Plot 7-380. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N: Test Dates:		EUT Type:		Dage 220 of 500	
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	ctrum Analyzer - Sv									
XI RL	RF 50 Ω	PI	REC			#Avg Typ	ALIGN AUTO e: RMS	TRAC	Un 01, 2021 1 2 3 4 5 6 A WWWWW A NNNNN	Frequency
10 dB/div	Ref 15.00		Gain:Low	Atten. 20			M	kr1 5.686 -4.5	6 GHz 52 dBm	Auto Tune
5.00										Center Freq 5.69000000 GHz
15.0			fort during the second		**************	and and and a second				Start Freq 5.590000000 GHz
25.0 35.0	- month and a start	and a strong the second strong s					Myron Marten	Marriel Jugerson Area		Stop Fred 5.790000000 GH;
45.0 									And Barney and Barney	CF Step 20.000000 MH: <u>Auto</u> Mar
65.0										Freq Offse 0 Hz
.75.0										Scale Type
Center 5.6 #Res BW :			#VBW	3.0 MHz			Sweep	Span 2) 1.000 ms (00.0 MHz 1001 pts)	Log <u>Lin</u>
ISG							STATU	IS		

Plot 7-381. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

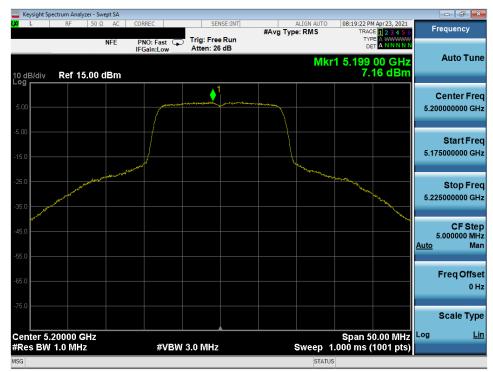
FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 231 of 508
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MIMO Antenna-2 Band 1, 2A, 2C Power Spectral Density Measurements - N

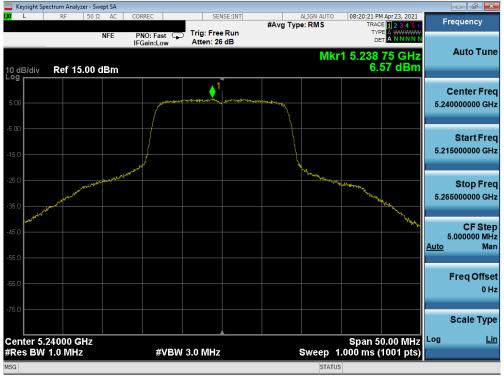




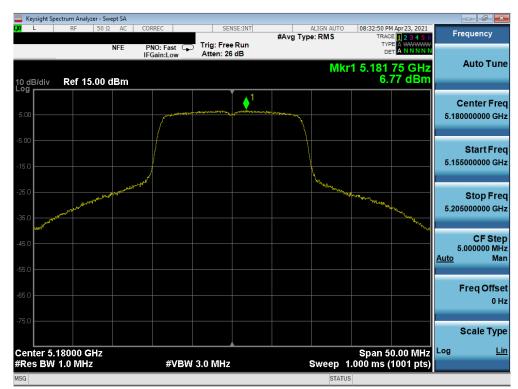
Plot 7-383. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 222 of 509
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 232 of 508
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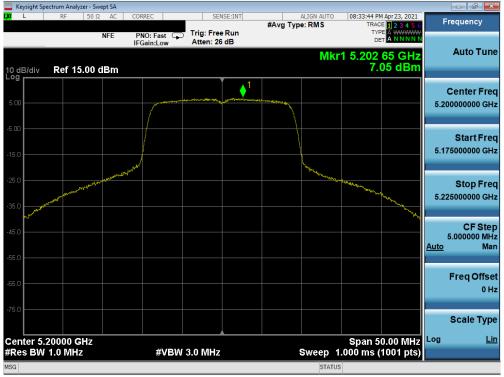
Plot 7-384. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 1) - Ch. 48)



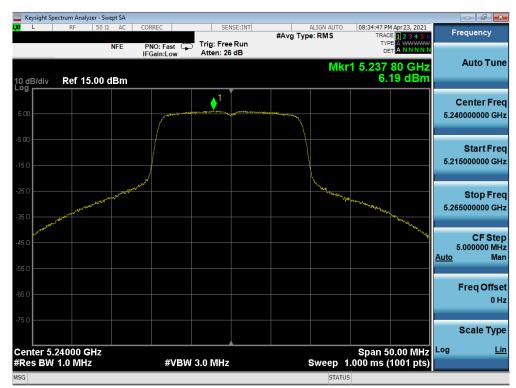
Plot 7-385. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 222 of 509
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Plot 7-386. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



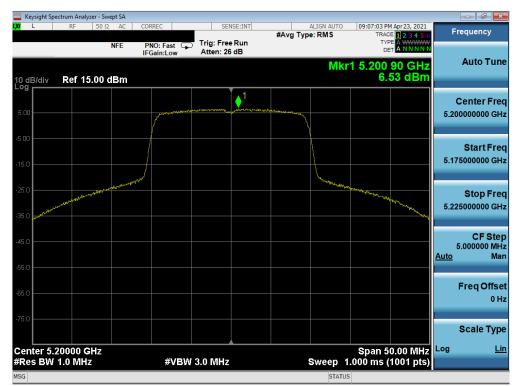
Plot 7-387. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 224 of 509
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NFE PNO: Fast Trig: Free Run Tr IFGain:Low Atten: 26 dB Mkr1 5.182	M Apr 23, 2021 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N 70 GHz 53 dBm	Frequency Auto Tune
Introduction Atten: 26 dB D Mkr1 5.182 Mkr1 5.182 10 dB/div Ref 15.00 dBm 6. 5.00 - - 5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -5.00 - - -35.0 - -	70 GHz	Auto Tune
500 1 500		
-15.0 -25.0 -35.0 -36.0 -37.0 -3		Center Freq 5.18000000 GHz
-36.0		Start Freq 5.155000000 GHz
-45.0	and have been and the	Stop Freq 5.205000000 GHz
-55.0		CF Step 5.000000 MHz <u>Auto</u> Man
-65.0		Freq Offset 0 Hz
	50.00 MHz	Scale Type Log <u>Lin</u>
HRes BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (Inscience)	(1001 pts)	

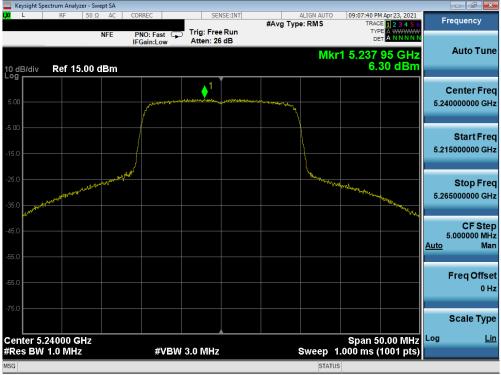
Plot 7-388. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



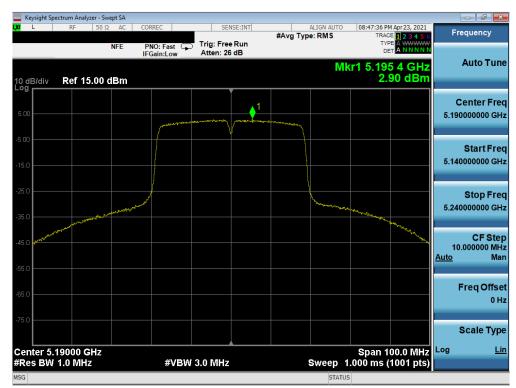
Plot 7-389. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 225 of 500
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Plot 7-390. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



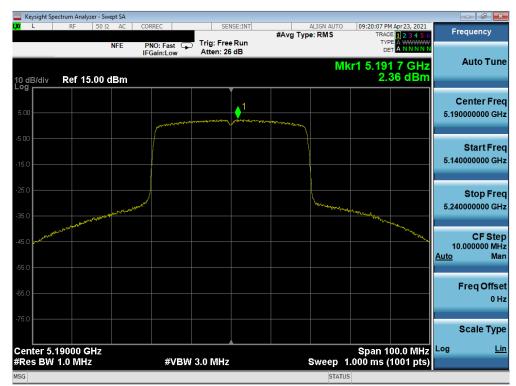
Plot 7-391. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 226 of 500
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🔤 Keysight Spectrum Analyzer -									- .
L RF 5	0Ω AC	CORREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO	TRAC	Apr 23, 2021	Frequency
	NFE	PNO: Fast IFGain:Low	Trig: Free Atten: 26		0 ,1		TYP		Auto Tune
10 dB/div Ref 15.0	0 dBm						2.3	33 dBm	
5.00			≬ 1						Center Freq 5.23000000 GHz
-5.00					mont				
-15.0									Start Freq 5.18000000 GHz
-25.0									
	an and the second	-				Marine Marine Marine			Stop Freq 5.28000000 GHz
-35.0	Mar all and a second						and a start of the	Maria and States	CF Step
-45.0								A. M. M. C.	10.000000 MHz <u>Auto</u> Man
-55.0									Freq Offset
-65.0									0 Hz
-75.0									Scale Type
Center 5.23000 GHz	2						Span 1	00.0 MHz	
#Res BW 1.0 MHz		#VBW	3.0 MHz				.000 ms (1001 pts)	
MSG						STATUS			

Plot 7-392. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



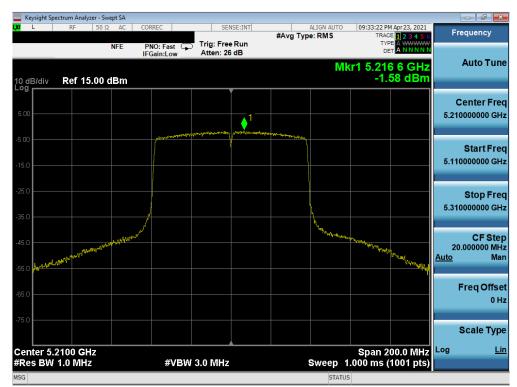
Plot 7-393. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 227 of 509
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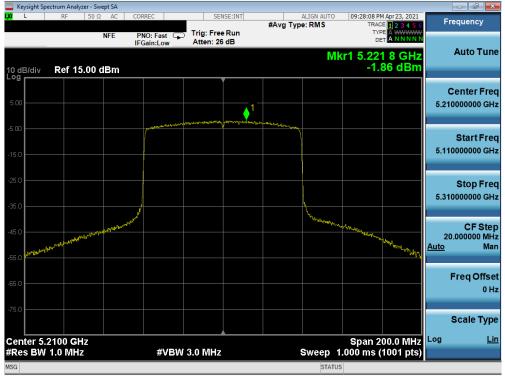
Plot 7-394. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



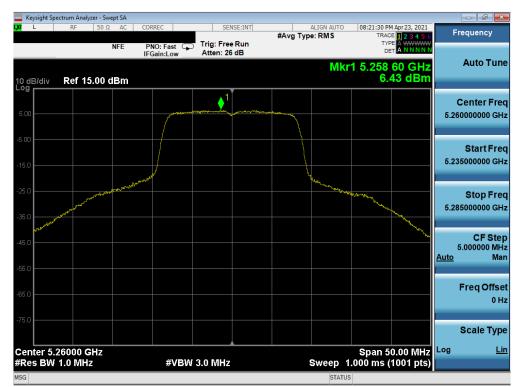
Plot 7-395. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N: Test Dates:		EUT Type:		Dama 000 of 500	
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Plot 7-396. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



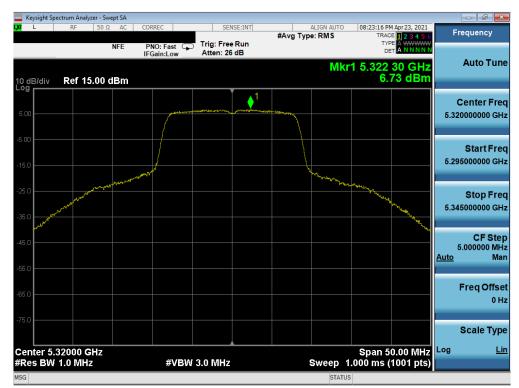
Plot 7-397. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:	Daga 220 of 500
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Plot 7-398. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 2A) - Ch. 56)



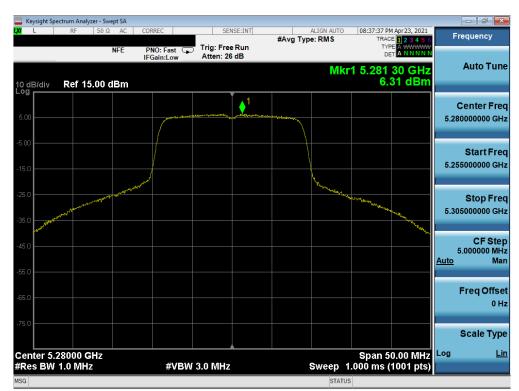
Plot 7-399. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N: Test Dates:		EUT Type:		Dage 240 of 500	
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	trum Analyzer - Sv									_	
LXI L	RF 50 S	2 AC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	Apr 23, 2021	Fr	equency
		NFE	PNO: Fast G	Trig: Free Atten: 26		0 //		TYF De			Auto Tune
10 dB/div Log	Ref 15.00	dBm					Mkr	1 5.257 6.	65 GHz 03 dBm		Auto Tulle
5.00				1	y and the second second	and the second					Center Freq 0000000 GHz
-5.00										5.23	Start Freq 5000000 GHz
-25.0		W. C. Barrison and Providence					and many of the second second	at men and		5.28	Stop Freq 5000000 GHz
-45.0									and the second second	Auto	CF Step 5.000000 MHz Man
-55.0											Freq Offset 0 Hz
-75.0											Scale Type
Center 5.2 #Res BW 1			#VBM	/ 3.0 MHz			Sweep 1	Span 5 .000 ms (0.00 MHz 1001 pts)	Log	<u>Lin</u>
MSG							STATUS				

Plot 7-400. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



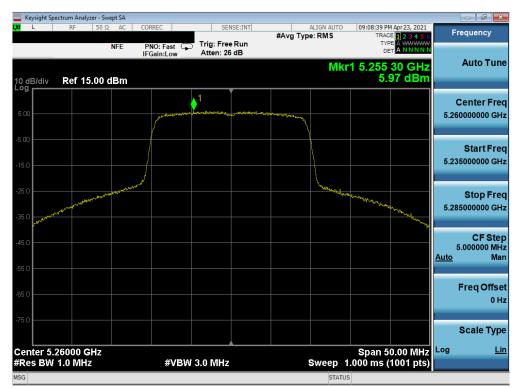
Plot 7-401. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:	Dage 244 of 500
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	trum Analyzer - Sv									_	
LXI L	RF 50 S	2 AC	CORREC		ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	4 Apr 23, 2021 E 1 2 3 4 5 6	Fr	equency
10 dB/div	Ref 15.00	NFE dBm	PNO: Fast IFGain:Low	Trig: Free Atten: 26			Mkr	DE 1 5.317	60 GHz 17 dBm		Auto Tune
5.00				1	a and the second part of the second						Center Freq 0000000 GHz
-5.00							L.			5.29	Start Freq 5000000 GHz
-25.0	And a	And a start of the						and and a second se	and the second	5.34	Stop Freq 5000000 GHz
-45.0										Auto ^t	CF Step 5.000000 MHz Man
-65.0											Freq Offset 0 Hz
-75.0 Center 5.3								Span 5	0.00 MHz	Log	Scale Type <u>Lin</u>
#Res BW 1	.0 MHz		#VBW	3.0 MHz			Sweep 1	.000 ms (1001 pts)		
							0				

Plot 7-402. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



Plot 7-403. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 242 of 509
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🔤 Keysight Spec	trum Analyzer - Swe									(
LXI L	RF 50 Ω		CORREC		SE:INT	#Avg Type	ALIGN AUTO e: RMS	TRAC	Apr 23, 2021	Fre	equency
10 dB/div Log	Ref 15.00 c		PNO: Fast IFGain:Low	Atten: 26			Mkr	DE 1 5.281	30 GHz 58 dBm		Auto Tune
5.00					1	a sure for more					enter Freq 0000000 GHz
-5.00										5.258	Start Freq 5000000 GHz
-25.0	how when the service of the service	ant and a ward					Senter and a second	all managements	hand the start you have been as a second sec	5.305	Stop Freq 5000000 GHz
-45.0										5 <u>Auto</u>	CF Step .000000 MHz Man
-65.0										F	Freq Offset 0 Hz
-75.0 Center 5.23	8000 GHz							Snan-5	0.00 MHz		Scale Type Lin
#Res BW 1			#VBW	3.0 MHz				000 ms (1001 pts)		
MSG							STATUS				

Plot 7-404. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)

L	RF 50	Ω AC	CORREC	CENIC	SE:INT		ALIGN AUTO	00-11-22 DM	Apr 23, 2021		
L	14 50	NFE	PNO: Fast		Run	#Avg Type		TRACE	1 2 3 4 5 6 A WWWWW A N N N N N	Fi	requency
dB/div	Ref 15.00	dBm					Mkr	1 5.322 6.4	10 GHz I9 dBm		Auto Tui
5.00				an the second	1	and a second					Center Fro 0000000 Gi
5.0							-			5.29	Start Fr 5000000 G
5.0 5.0	and and a second se	ALCONTANT CONTRACT						with when the second	Marker Walker Com	5.34	Stop Fr 5000000 G
5.0										Auto	CF St 5.000000 M M
5.0											Freq Off: 0
5.0	32000 GHz							Snan 50).00 MHz		Scale Ty
	1.0 MHz		#\/B\/	V 3.0 MHz			Sween 1	span 50 /) 000 ms.	001 ntc)		-

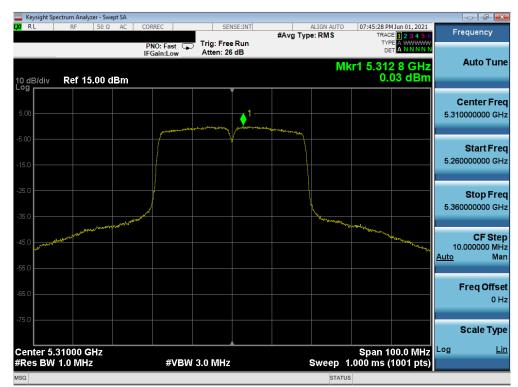
Plot 7-405. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 242 of 508
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Plot 7-406. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



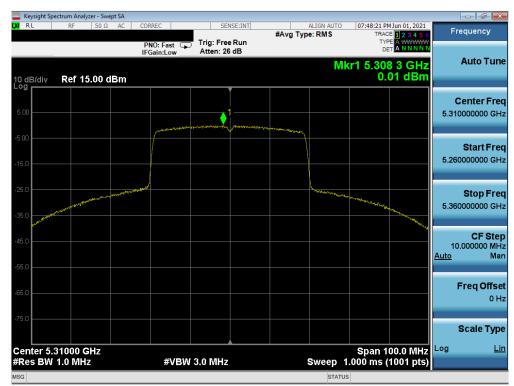
Plot 7-407. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Daga 244 of 509		
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	trum Analyzer - Swep	ot SA									×
L <mark>XI</mark> RL	RF 50 Ω	AC COR	I			#Avg Typ	ALIGN AUTO e: RMS	TRAC	4 Jun 01, 2021 E 1 2 3 4 5 6 E A WWWWW	Frequency	/
10 dB/div	Ref 15.00 di	IFG	IO: Fast 😱 Gain:Low	Atten: 26			MI	or 1 5.27	2 6 GHz 23 dBm	Auto T	une
5.00			provenue		1	and and a set of the s				Center F 5.270000000	
-5.00										Start F 5.220000000	
-25.0	yenter William and Marian and	and the second						and an and a street	Anallia Mar	Stop F 5.320000000	
-45.0										CF S 10.000000 <u>Auto</u>	
-65.0										Freq Of	f fset 0 Hz
-75.0	7000 CH-							Snon-4		Scale T	ype Lin
Center 5.2 #Res BW 1			#VBW	3.0 MHz				.000 ms (00.0 MHz 1001 pts)		
MSG							STATUS	5			

Plot 7-408. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



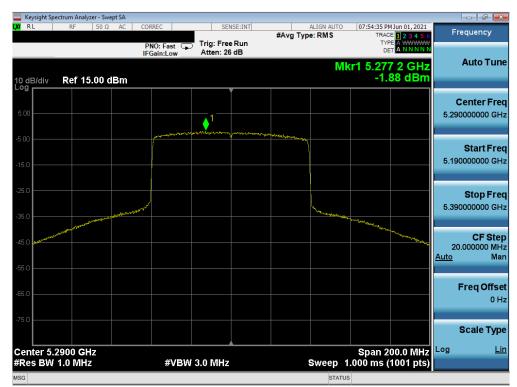
Plot 7-409. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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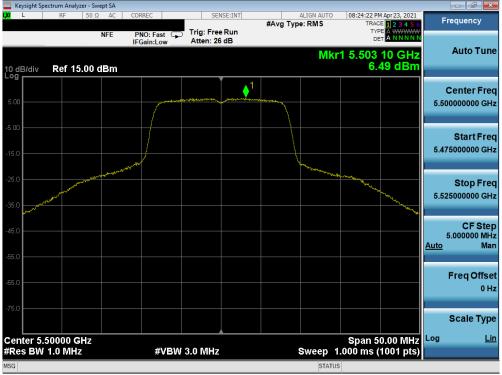
Plot 7-410. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



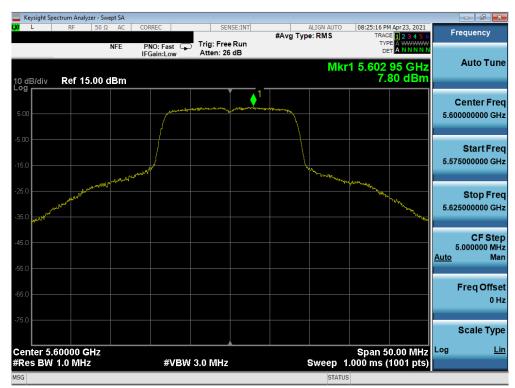
Plot 7-411. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 246 of 500
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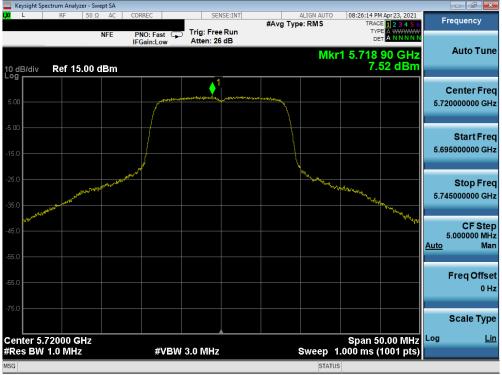
Plot 7-412. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 2C) - Ch. 100)



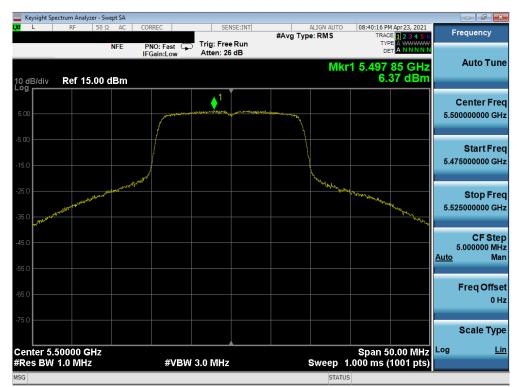
Plot 7-413. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 247 of 509
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Plot 7-414. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 2C) - Ch. 144)



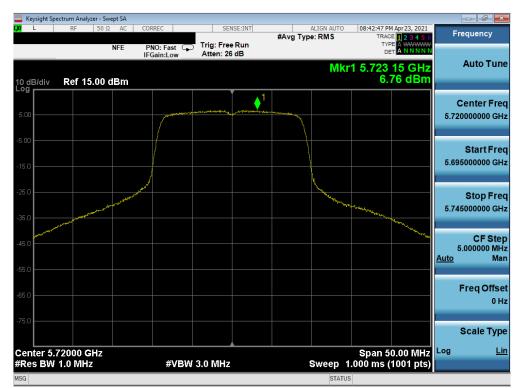
Plot 7-415. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 040 of 500	
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🔤 Keysight Spectrum Analyzer - S										
LX L RF 50	Ω AC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS		Apr 23, 2021	Fre	equency
	NFE	PNO: Fast IFGain:Low	Trig: Free Atten: 26	Run dB			TYP DE	65 GHz 04 dBm		Auto Tune
10 dB/div Ref 15.00	dBm						7.	04 dBm		
5.00			an a	1						enter Freq 000000 GHz
-5.00									5.575	Start Freq
-25.0	and the second					A second when a second second	mat a walk and many	Margan and	5.625	Stop Freq
-45.0									5. <u>Auto</u>	CF Step .000000 MHz Man
-65.0									F	Freq Offset 0 Hz
-75.0										Scale Type
Center 5.60000 GHz #Res BW 1.0 MHz		#VBW	3.0 MHz			Sweep 1	Span 5 .000 ms (0.00 MHz 1001 pts)	Log	<u>Lin</u>
MSG						STATUS				

Plot 7-416. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



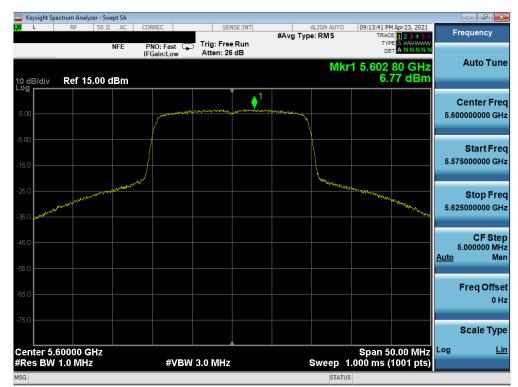
Plot 7-417. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 240 of 509
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🔤 Keysight Spe	ctrum Analyzer - Sw										- • •
LXII L	RF 50 Ω		CORREC		ISE:INT	#Avg Type	ALIGN AUTO e: RMS	TRAC	Apr 23, 2021 E 1 2 3 4 5 6 E A WWWW	F	requency
10 dB/div Log	Ref 15.00	NFE diBm	PNO: Fast IFGain:Low	Atten: 26			Mkr	□ 1 5.502	20 GHz 15 dBm		Auto Tune
5.00			for the second s	ana kana kana kana kana kana kana kana	1 	common provide and a second					Center Freq 0000000 GHz
-5.00										5.47	Start Freq 5000000 GHz
-25.0	ana for the second second	Ad Man - Marine					and the second s	We With Makerson	Innest out Hora we down	5.52	Stop Freq 5000000 GHz
-45.0										Auto	CF Step 5.000000 MHz Man
-65.0											Freq Offset 0 Hz
-75.0 Center 5.5	0000 GHz							Span 5	0.00 MHz		Scale Type <u>Lin</u>
#Res BW			#VBW	3.0 MHz			Sweep 1	.000 ms (1001 pts)		

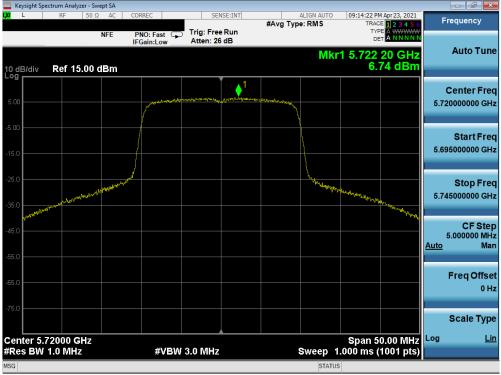
Plot 7-418. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



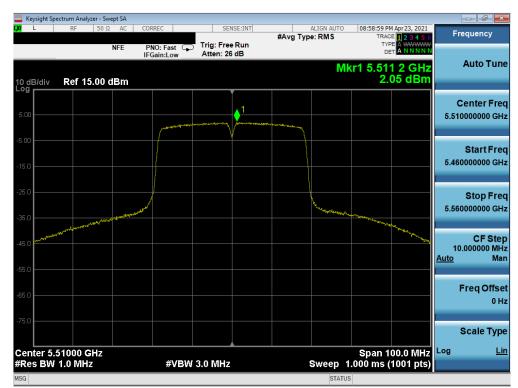
Plot 7-419. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 250 of 500	
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Plot 7-420. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



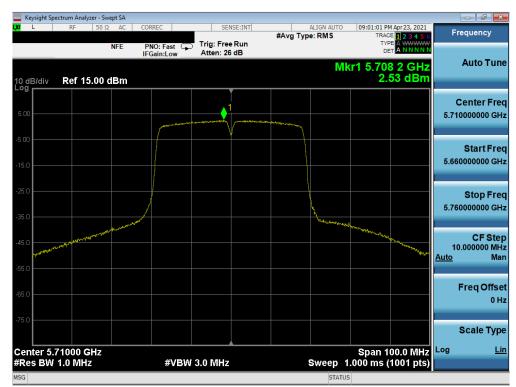
Plot 7-421. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 054 af 500	
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Plot 7-422. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



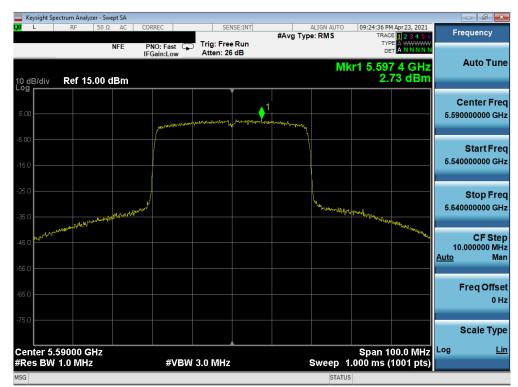
Plot 7-423. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 252 of 509
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🔤 Keysight Spectrum Analyze						
L RF	50 Ω AC (CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 15.		PNO: Fast 😱 IFGain:Low	Trig: Free Run Atten: 26 dB	Μ	Ikr1 5.508 3 GHz 2.39 dBm	Auto Tune
5.00			permite dente	markerman		Center Freq 5.510000000 GHz
-15.0						Start Freq 5.460000000 GHz
-25.0	and and a final work of	or land			Whenking the grange of White where	Stop Freq 5.560000000 GHz
-45.0						CF Step 10.000000 MHz <u>Auto</u> Man
-65.0						Freq Offset 0 Hz
-75.0 Center 5.51000 Gł	Hz				Span 100.0 MHz	Scale Type Log <u>Lin</u>
#Res BW 1.0 MHz		#VBW	3.0 MHz	Sweep	1.000 ms (1001 pts)	

Plot 7-424. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



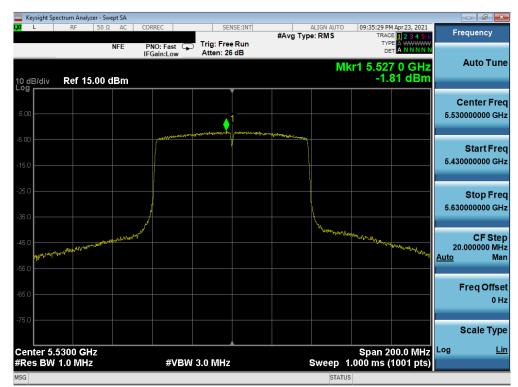
Plot 7-425. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 050 af 500	
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🔤 Keysight Spect	rum Analyzer - Swe								
LXI L	RF 50 Ω		DRREC	SENSE:I	#Avg Ty	ALIGN AUTO	TRAC	Apr 23, 2021 E 1 2 3 4 5 6 E A WWWW	Frequency
10 dB/div	Ref 15.00 c	I	PNO: Fast 😱 Gain:Low	Atten: 26 dB		Mk	□E	2 0 GHz 87 dBm	Auto Tune
5.00			pumperus	Nutripopulations and product	1	١			Center Freq 5.710000000 GHz
-5.00									Start Freq 5.660000000 GHz
-25.0			}			Landred and			Stop Freq 5.760000000 GHz
-45.0	all and the strategy and the						A Margaret rate	haf for you and the state of th	CF Step 10.000000 MHz <u>Auto</u> Man
-65.0									Freq Offset 0 Hz
-75.0 Center 5.71	1000 GHz						Span_1	00.0 MHz	Scale Type
#Res BW 1			#VBW	3.0 MHz		Sweep 1	.000 ms (
MSG						STATUS	;		

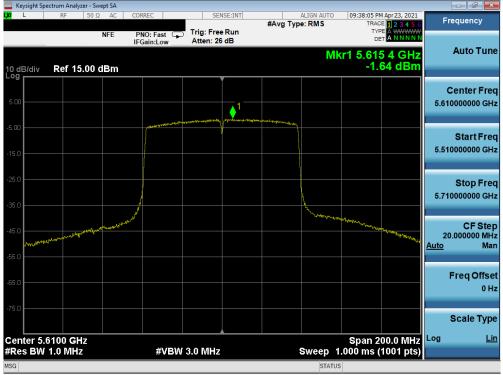
Plot 7-426. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



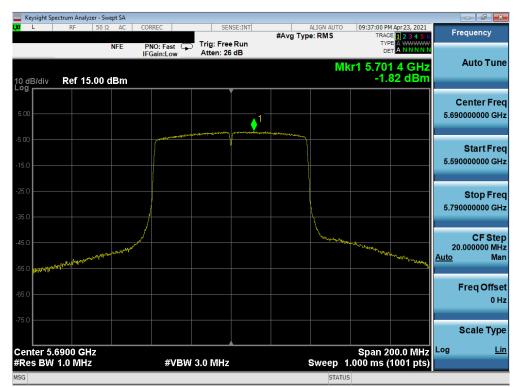
Plot 7-427. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 054 af 500	
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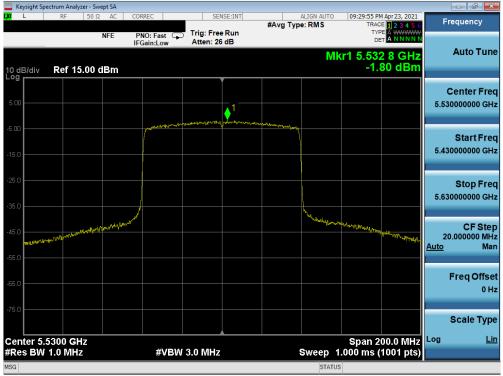
Plot 7-428. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



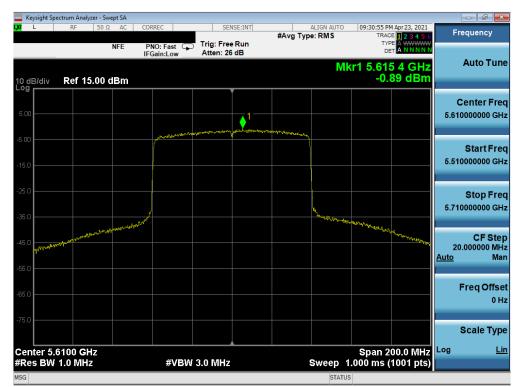
Plot 7-429. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 055 of 500	
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Plot 7-430. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)



Plot 7-431. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dana 050 af 500	
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	ctrum Analyzer - Sw									- 6 -
XI RL	RF 50 Ω		NO: Fast		Run	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Jun 01, 2021 E 1 2 3 4 5 6 E A WWWWW	Frequency
10 dB/div	Ref 15.00	IFO	Gain:Low	Atten: 26	dB		М	kr1 5.68	5 6 GHz 67 dBm	Auto Tune
5.00				1						Center Fred 5.69000000 GHz
-5.00			and a second	and an and a second		resonant constructions of				Start Free 5.590000000 GHz
-25.0										Stop Fred 5.790000000 GHz
45.0	and and a start and a start and a start	and the second second					m merone	and and a second and	Wood have a street	CF Step 20.000000 MH; <u>Auto</u> Mar
65.0										Freq Offse 0 Hz
-75.0								Enon 3		Scale Type
Center 5.6 #Res BW :			#VBW	3.0 MHz			Sweep	span 2 1.000 ms (00.0 MHz 1001 pts)	
ISG							STATU			

Plot 7-432. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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MIMO Antenna-1 Band 3 Power Spectral Density Measurements - N



Plot 7-433. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 149)



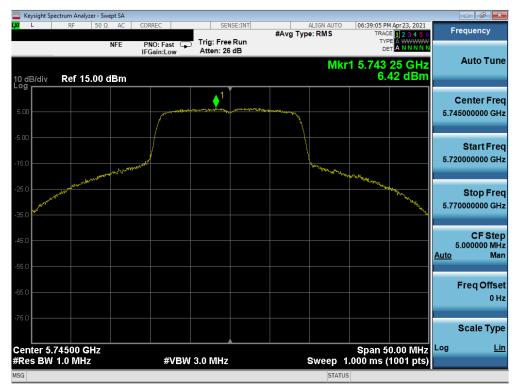
Plot 7-434. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-435. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 165)



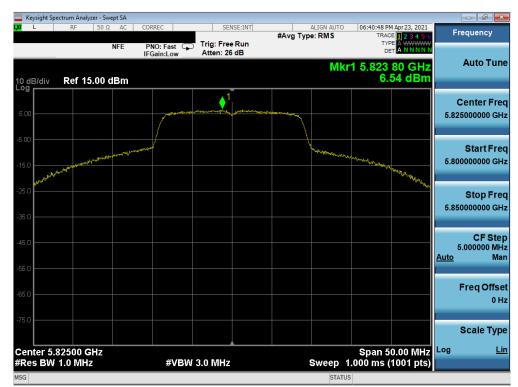
Plot 7-436. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dama 050 of 500	
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Plot 7-437. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



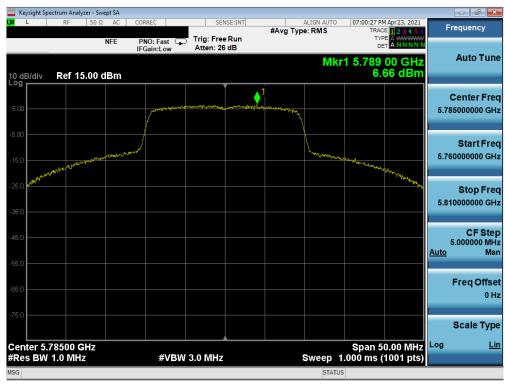
Plot 7-438. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:	Daga 260 of 508			
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Keysight Spec	ctrum Analyzer - Sv RF 50 S		000050							_	
	RF 50 S	NFE	CORREC PNO: Fast			#Avg Typ	ALIGN AUTO e: RMS	TRAC	Apr 23, 2021 1 2 3 4 5 6 A WWWWW A N N N N N	Fi	requency
10 dB/div Log	Ref 15.00	dBm					Mkr	1 5.742 6.3	45 GHz 35 dBm		Auto Tune
5.00			/ with the second	errende street	and the second days	- And the for the for					Center Freq 5000000 GHz
-5.00	Jun Marin	N WARRAN MARKA					and a second	Marrier alternation and		5.72	Start Fred 0000000 GH2
25.0 100 100 100 100 100 100 100 100 100 1									White and the with the and	5.77	Stop Fred 0000000 GH2
45.0 55.0										Auto	CF Step 5.000000 MH Mar
65.0											Freq Offse 0 H
.75.0											Scale Type
Center 5.7 #Res BW 1	4500 GHz 1.0 MHz		#VBW	/ 3.0 MHz			Sweep_1	5 Span) 000 ms.	0.00 MHz 1001 pts)	Log	Lin
ISG							STATUS				

Plot 7-439. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)



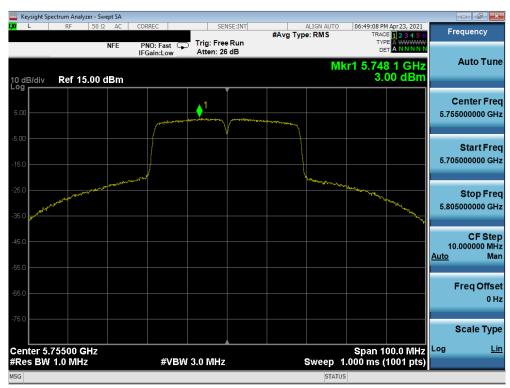
Plot 7-440. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:		Dara 004 of 500			
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🔤 Kej	ysight Spe	ctrum Analyzer - S										- P X
L <mark>XI</mark> I	L	RF 50	Ω AC	CORREC	SEI	NSE:INT	#Avg Typ	ALIGN AUTO		Apr 23, 2021	F	requency
		D-6 45 00	NFE	PNO: Fast G	Trig: Free Atten: 20				TYP			Auto Tune
10 dE Log _I	3/div	Ref 15.00	dBm		,				0.0			
5.00					1 	and the Assessment	- And and a start of the start					Center Freq 25000000 GHz
-5.00 -15.0	and which	and and a start and a start and a start	and more and					Variano	to you want to you want	Hurson Windaysta	5.8	Start Freq 00000000 GHz
-25.0 -35.0											5.8	Stop Freq 50000000 GHz
-45.0											<u>Auto</u>	CF Step 5.000000 MHz Man
-55.0 -65.0												Freq Offset 0 Hz
-75.0												Scale Type
		2500 GHz		#\ (D)	(2 0 MIL-			Duro on -4	Span 5	0.00 1911 12	Log	Lin
	SBW	1.0 MHz		#VBV	/ 3.0 MHz					1001 pts)		
MSG								STATUS	5			

Plot 7-441. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)



Plot 7-442. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)

FCC ID: A3I SME711B		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-443. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)



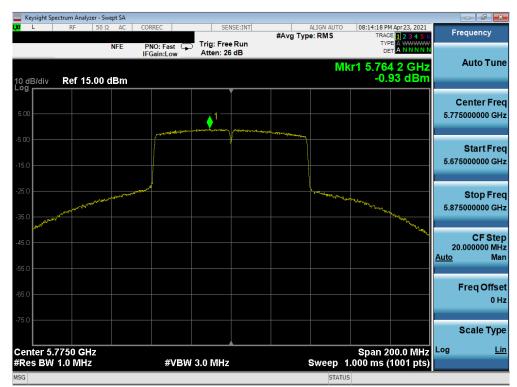
Plot 7-444. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager				
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Plot 7-445. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)



Plot 7-446. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 264 of 509
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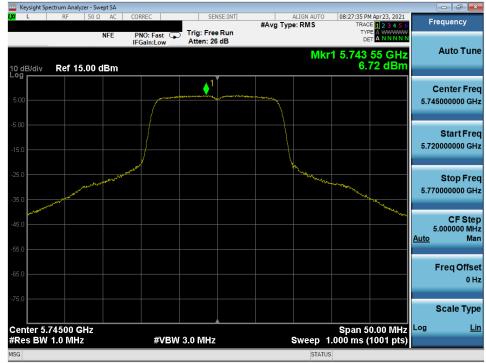


Keysight Spectrum Analyzer -					
K RL RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS) 12:11:58 AM Jun 02, 2021 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div Ref 15.00	PNO: Fast IFGain:Low) dBm	Trig: Free Run Atten: 26 dB	N	Ikr1 5.772 0 GHz 0.23 dBm	Auto Tune
5.00	and the second se				Center Freq 5.775000000 GHz
15.0	and a second		man	man .	Start Freq 5.675000000 GHz
25.0					Stop Freq 5.875000000 GHz
45.0 					CF Step 20.000000 MH: <u>Auto</u> Mar
65.0					Freq Offset 0 Hz
75.0 Center 5.7750 GHz				Span 200.0 MHz	Scale Type
Res BW 1.0 MHz	#VI	BW 3.0 MHz	Sweep	1.000 ms (1001 pts)	
ISG			STAT	rus	

Plot 7-447. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

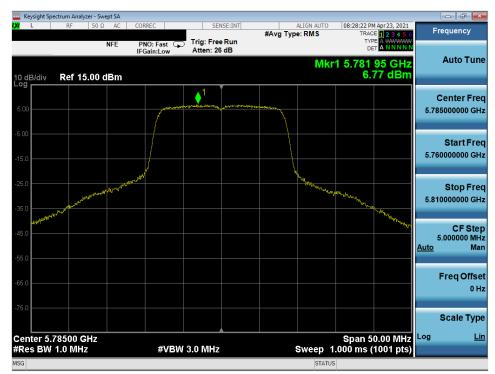
FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 205 of 500
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MIMO Antenna-2 Band 3 Power Spectral Density Measurements - N

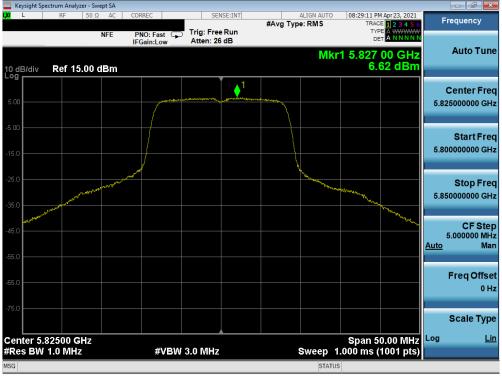
Plot 7-448. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 3) - Ch. 149)



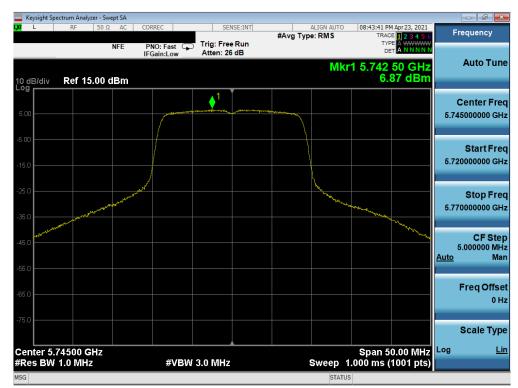
Plot 7-449. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 200 of 508
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 266 of 508
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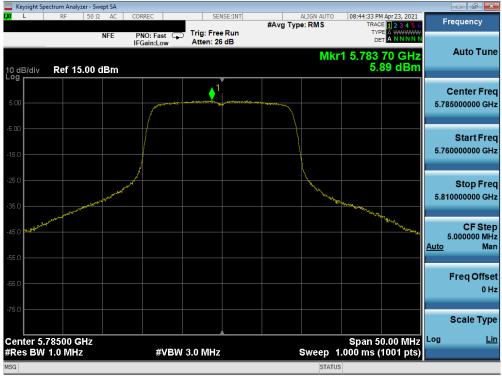
Plot 7-450. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11a (UNII Band 3) - Ch. 165)



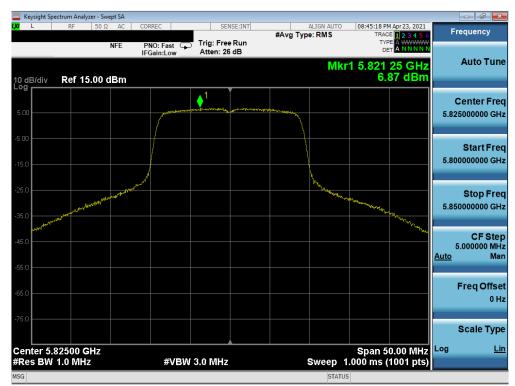
Plot 7-451. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 007 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	2/2021 - 06/04/2021 Portable Handset		Page 267 of 508
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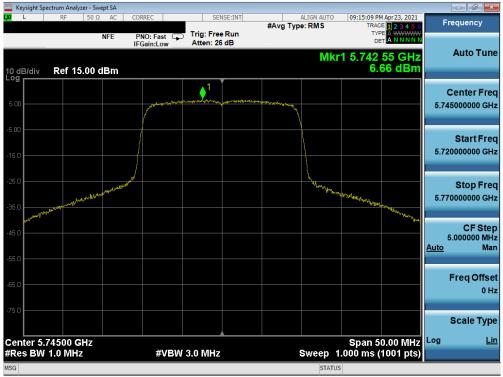
Plot 7-452. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)



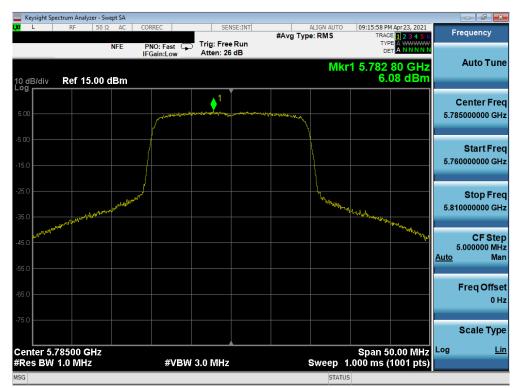
Plot 7-453. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 200 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021 Portable Handset			Page 268 of 508
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Plot 7-454. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)



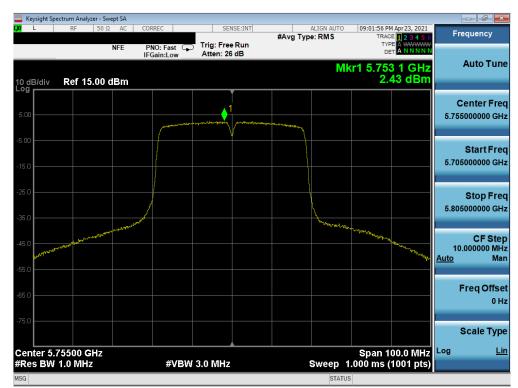
Plot 7-455. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 200 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 269 of 508
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Plot 7-456. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)



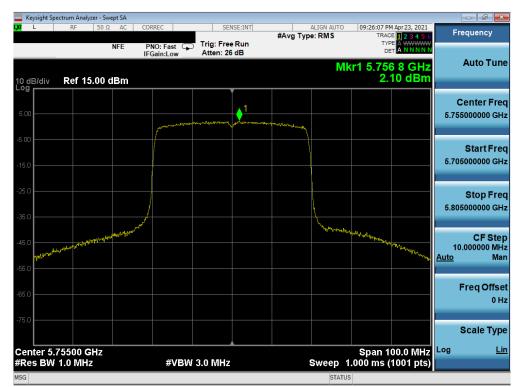
Plot 7-457. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 270 of 509
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 270 of 508
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Plot 7-458. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)



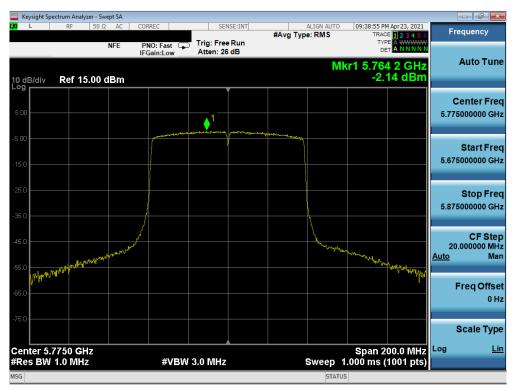
Plot 7-459. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 271 of 509
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	trum Analyzer - Sw										- 6 💌
LXI L	RF 50 Ω	AC	CORREC		ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	Apr 23, 2021	Fre	quency
		NFE	PNO: Fast G IFGain:Low	Trig: Free Atten: 26			Mł	or 1 5.79			Auto Tune
10 dB/div Log	Ref 15.00	dBm						2.3	27 dBm		
5.00											enter Freq 000000 GHz
5.00			Martin		J						
-5.00											Start Freq 000000 GHz
-25.0											Stop Freq 000000 GHz
-45.0	NY Y WAY - MAR JACK	American	<i></i>				Marked College	1 my way being y	Marger Marger	10.0 <u>Auto</u>	CF Step 000000 MHz Man
-65.0										F	req Offset 0 Hz
-75.0										S	cale Type
Center 5.7								Span 1	00.0 MHz	Log	Lin
#Res BW 1	.0 MHz		#VBW	3.0 MHz				.000 ms (1001 pts)		
MSG							STATUS	5			

Plot 7-460. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)



Plot 7-461. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 272 of 500
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	ectrum Analyzer - Sw									
X/RL	RF 50 S		RREC		ISE:INT	#Avg Typ	ALIGN AUTO	TRAC	4 Jun 02, 2021 E 1 2 3 4 5 6	Frequency
10 dB/div	Ref 15.00	IF	NO: Fast Gain:Low	Trig: Free Atten: 26			M	or 1 5.77	1 4 GHz 06 dBm	Auto Tur
5.00			مرواندو المراجع مراجع			A deres Martine and Martine				Center Fre 5.775000000 GF
15.0										Start Fre 5.675000000 GH
35.0	And the second standard	har and the second					-	and the state of t	Wardward .	Stop Fre 5.875000000 GF
45.0										CF Ste 20.000000 MH <u>Auto</u> Ma
65.0										Freq Offse 0 ⊦
75.0	7750 GHz							Snan 2	00.0 MHz	Scale Typ
#Res BW			#VBW	í 3.0 MHz			Sweep 1	.000 ms (1001 pts)	-
ISG							STATU	_		

Plot 7-462. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 272 of 509
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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 as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be N/A dBm for Antenna-1 and N/A dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(N/A dBm + N/A dBm) = (N/A mW + N/A mW) = N/A mW = N/A dBm

Sample e.i.r.p Power Spectral Density Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be N/A dBm with directional gain of N/A dBi.

e.i.r.p. Power Spectral Density(dBm) = Power Spectral Density (dBm) + Ant gain (dBi)

N/A dBm + N/A dBi = N/A dBm

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 274 of 500
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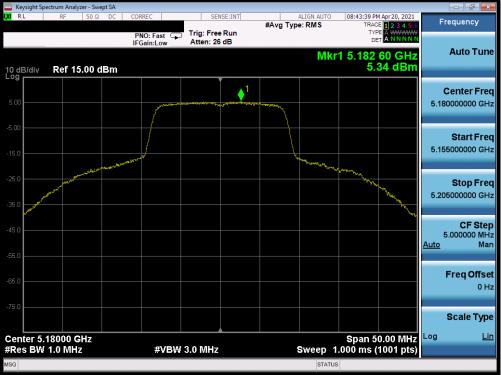
SISO Antenna-1 Power Spectral Density Measurements - Q

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	-	Max Power Density	Margin [dB]
		20	-	<u> </u>	[dBm]	[dBm/MHz]	
	5180	36	a	6	5.34	11.0	-5.66
	5200	40 48	а	6	4.95	11.0	-6.05
	5240	-	a	6	5.88	11.0	-5.12
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	4.57	11.0	-6.43
	5200 5240	40 48	n (20MHz)	6.5/7.2 (MCS0)	4.12 5.27	11.0 11.0	-6.88 -5.74
			n (20MHz)	6.5/7.2 (MCS0)		11.0	
Band 1	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	4.19	-	-6.81
Ban	5200	40	ax (20MHz) ax (20MHz)	6.5/7.2 (MCS0) 6.5/7.2 (MCS0)	4.14 5.21	11.0	-6.86 -5.79
-	5240	48	. ,	,		11.0	
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.47	11.0	-9.53
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.01	11.0	-8.99
	5190	38	ax (40MHz)	13.5/15 (MCS0)	1.73	11.0	-9.27
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.33	11.0	-8.67
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-2.27	11.0	-13.27
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-2.36	11.0	-13.36
	5260	52	а	6	6.75	11.0	-4.25
	5280	56	а	6	6.69	11.0	-4.31
	5320	64	а	6	6.46	11.0	-4.54
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.06	11.0	-4.94
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.10	11.0	-4.90
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.49	11.0	-4.51
24	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	5.73	11.0	-5.27
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	5.94	11.0	-5.06
ä	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	6.06	11.0	-4.94
	5270	54	n (40MHz)	13.5/15 (MCS0)	3.10	11.0	-7.90
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.96	11.0	-8.04
	5270	54	ax (40MHz)	13.5/15 (MCS0)	2.88	11.0	-8.12
	5310	62	ax (40MHz)	13.5/15 (MCS0)	2.93	11.0	-8.07
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-1.67	11.0	-12.67
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-1.50	11.0	-12.50
	5500	100	а	6	6.60	11.0	-4.40
	5600	120	а	6	5.61	11.0	-5.39
	5720	144	а	6	5.77	11.0	-5.23
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.26	11.0	-4.74
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	4.89	11.0	-6.11
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	5.51	11.0	-5.49
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	5.95	11.0	-5.05
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	4.82	11.0	-6.18
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	5.53	11.0	-5.47
2C	5510	102	n (40MHz)	13.5/15 (MCS0)	3.12	11.0	-7.88
Band 2C	5590	118	n (40MHz)	13.5/15 (MCS0)	2.38	11.0	-8.62
Ba	5710	142	n (40MHz)	13.5/15 (MCS0)	2.32	11.0	-8.68
	5510	102	ax (40MHz)	13.5/15 (MCS0)	2.89	11.0	-8.11
	5590	118	ax (40MHz)	13.5/15 (MCS0)	2.47	11.0	-8.53
	5710	142	ax (40MHz)	13.5/15 (MCS0)	2.09	11.0	-8.91
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.72	11.0	-12.72
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-2.44	11.0	-13.44
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-4.82	11.0	-15.82
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-1.64	11.0	-12.64
	5530 5610	106 122	ax (80MHz) ax (80MHz)	29.3/32.5 (MCS0) 29.3/32.5 (MCS0)	-1.64 -2.06	11.0 11.0	-12.64 -13.06

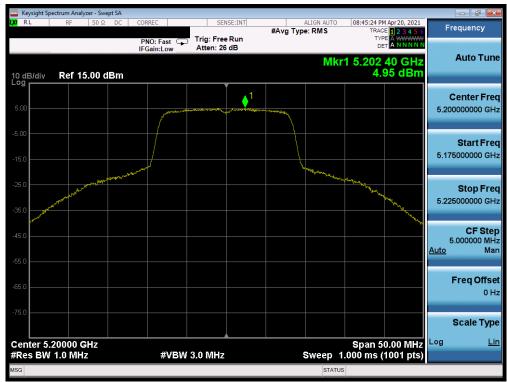
Table 7-38. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 275 of 500
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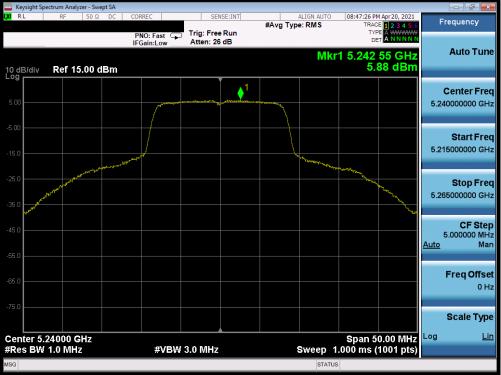
Plot 7-463. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 36)



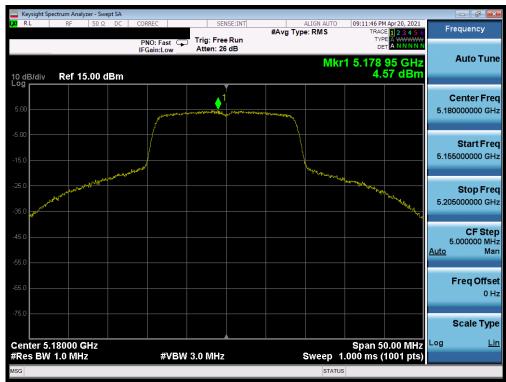
Plot 7-464. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711B	PCTEST [®] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 276 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 276 of 508
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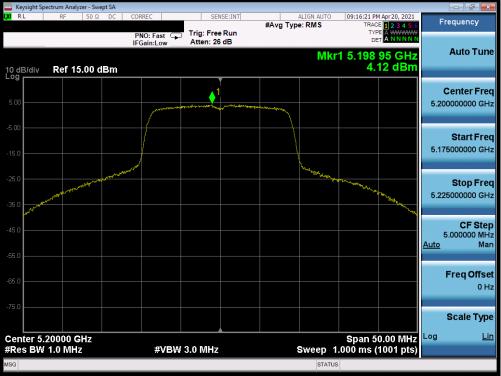
Plot 7-465. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 48)



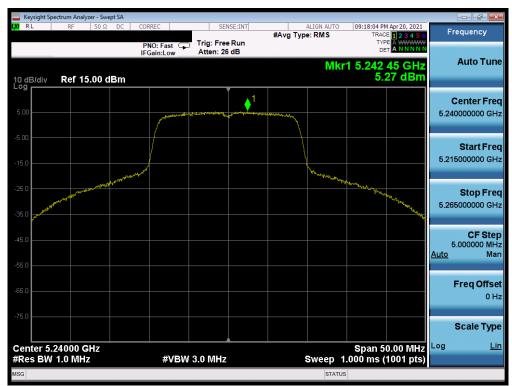
Plot 7-466. Power Spectral Density Plot SISO ANT1 (20MHz BW 20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 277 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 277 of 508
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Plot 7-467. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



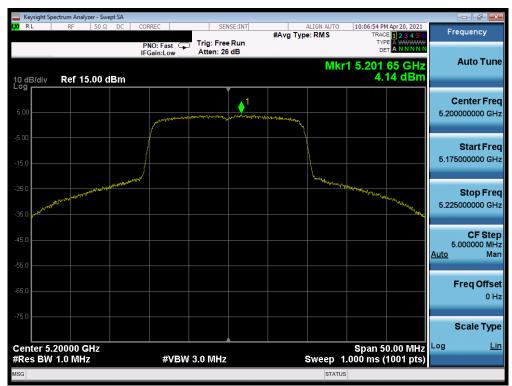
Plot 7-468. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	G	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 270 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 278 of 508
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CORREC SENSE:INT ALION AUTO 10:04:19 PM Apr20, 2021 Frequency #Avg Type: RMS TRACE 22.345 Frequency PNO: Fast Trig: Free Run Trig: Atten: 26 dB Trig: Tree Run Auto Tune Mkr1 5.181 50 GHz 0et Annunn 6.18000000 GHz Auto Tune 1 1 1 5.18000000 GHz 5.18000000 GHz 5.155000000 GHz 5.155000000 GHz Start Freq 5.155000000 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td< th=""></td<>
PNO: Fast IFGain:Low Trig: Free Run Atten: 28 dB Mkr1 5.181 50 GHz 4.19 dBm Center Freq 5.18000000 GHz Start Freq 5.15500000 GHz Stop Freq 5.20500000 GHz
5.18000000 GHz 5.18000000 GHz 5.15000000 GHz 5.1500000 GHz CF Step 5.000000 MHz
Stop Freq 5.20500000 GHz CF Step 5.000000 MHz
5.00000 MHz
Freq Offset 0 Hz
Span 50.00 MHz
Span 50.00 MHz Log Lin #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)
STATUS

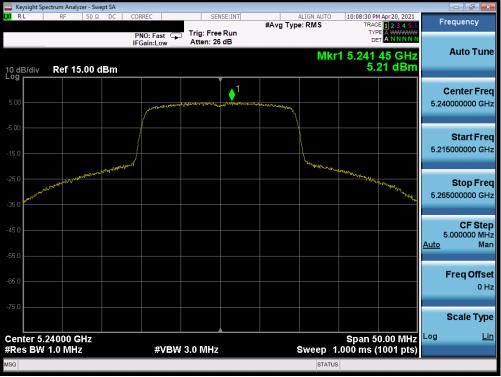
Plot 7-469. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



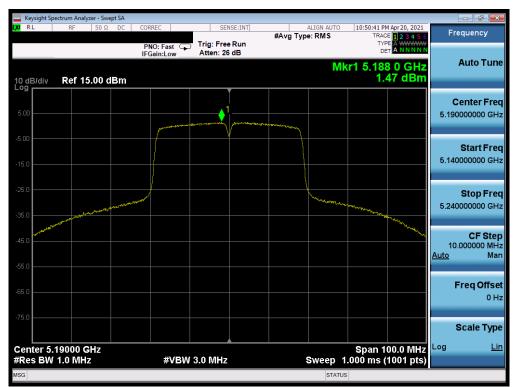
Plot 7-470. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 270 of 500
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Plot 7-471. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



Plot 7-472. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711B	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 280 of 508
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