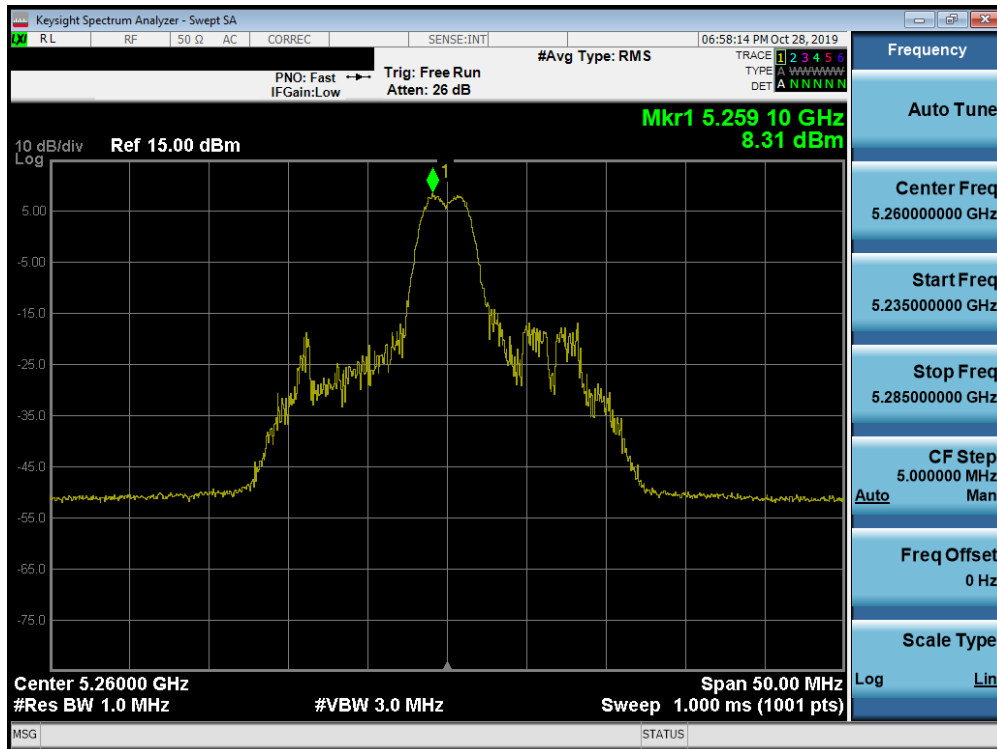
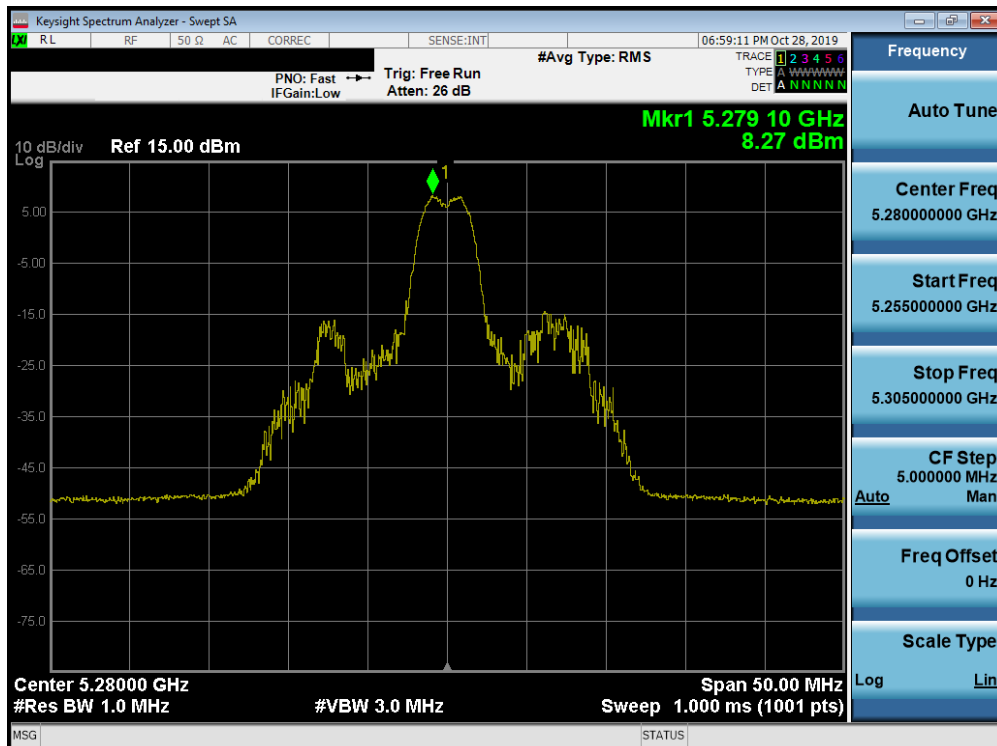




Plot 7-115. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

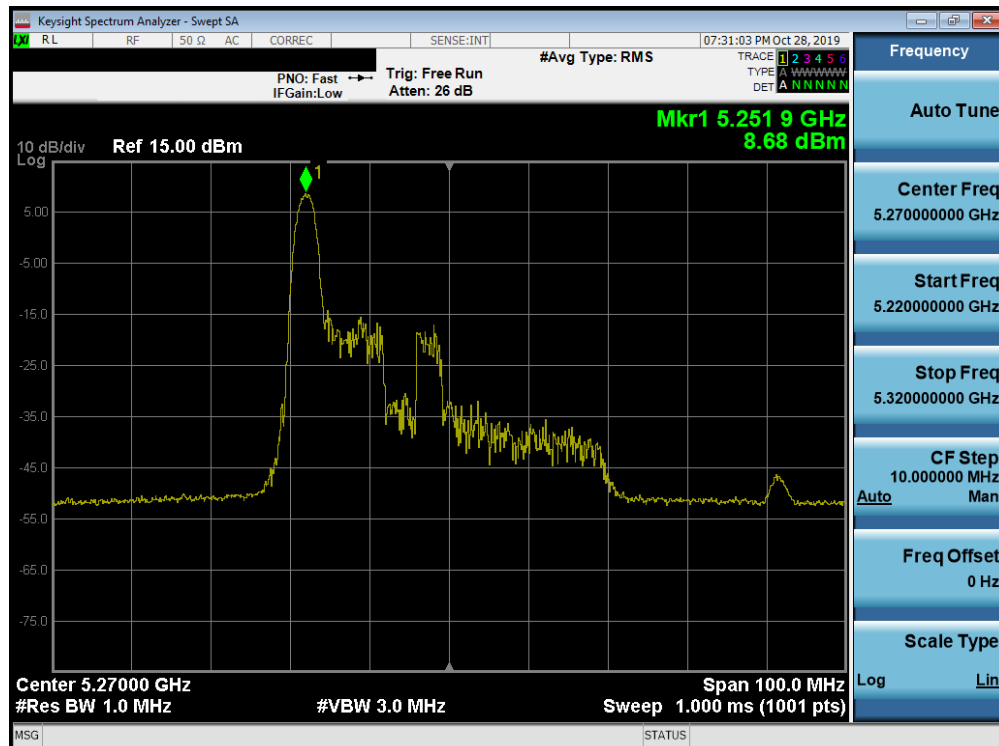


Plot 7-116. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 101 of 265

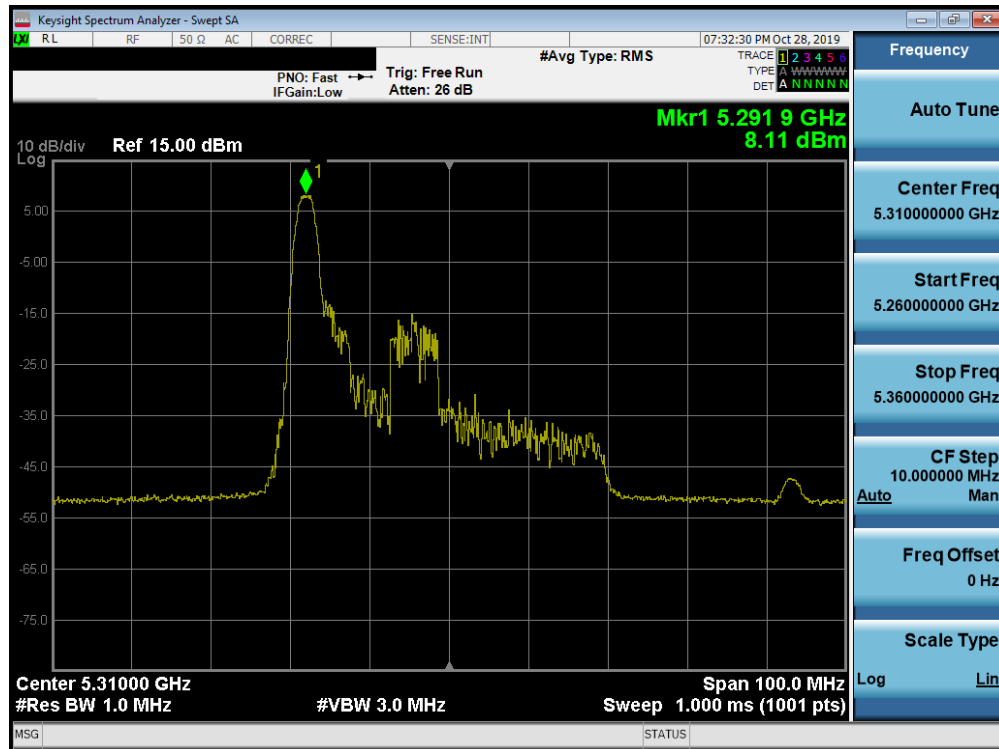


Plot 7-117. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

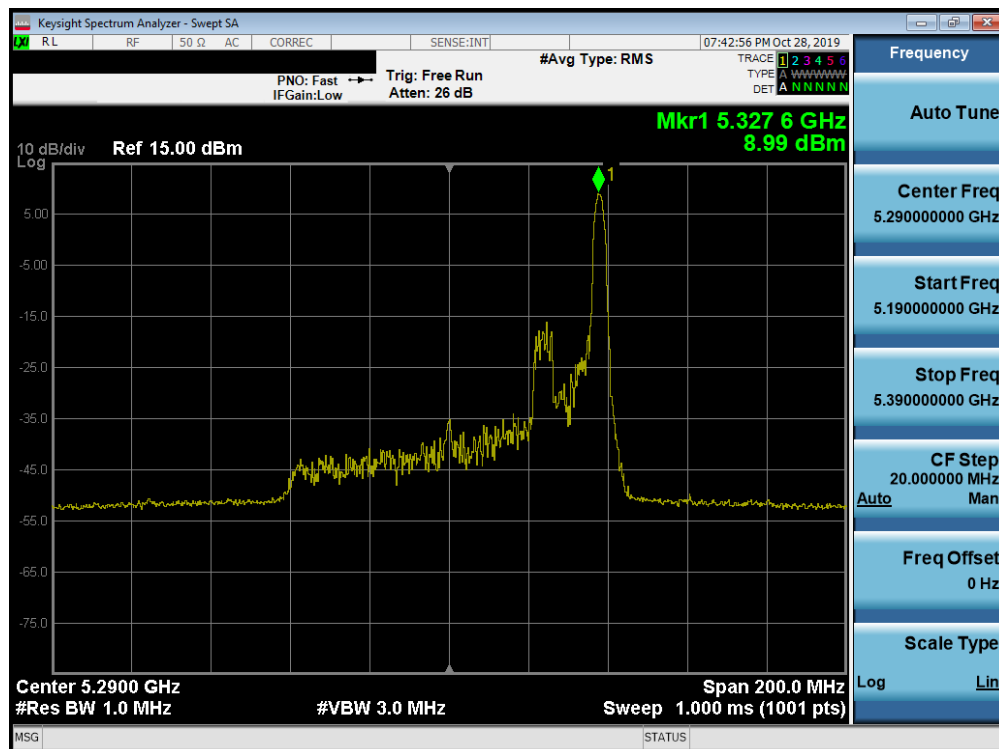


Plot 7-118. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 102 of 265

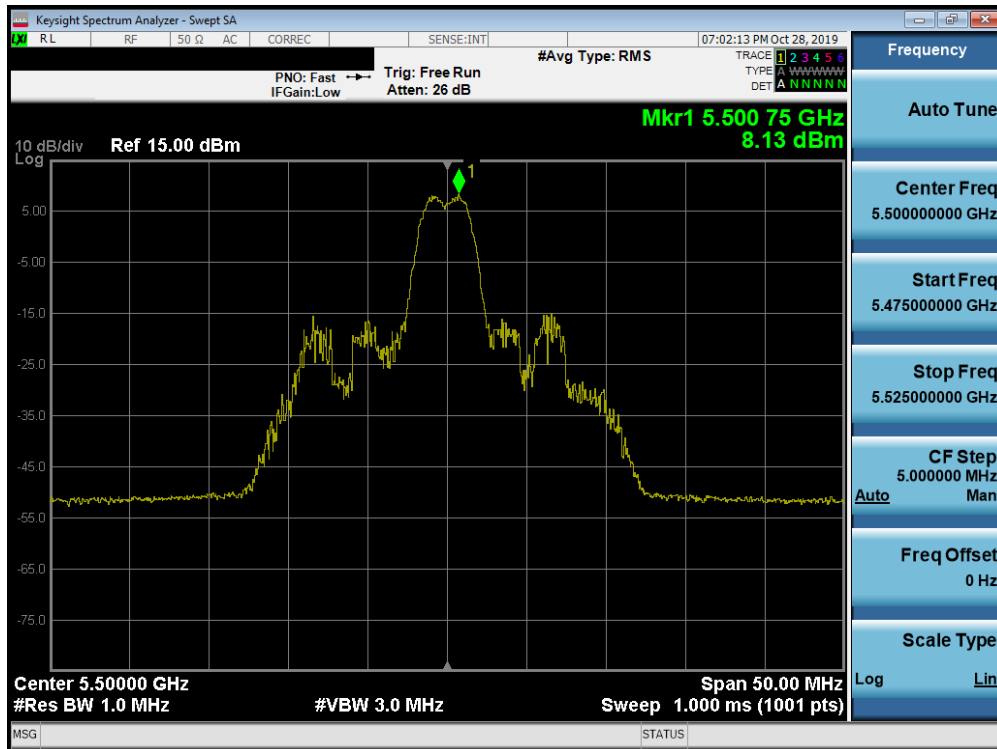


Plot 7-119. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

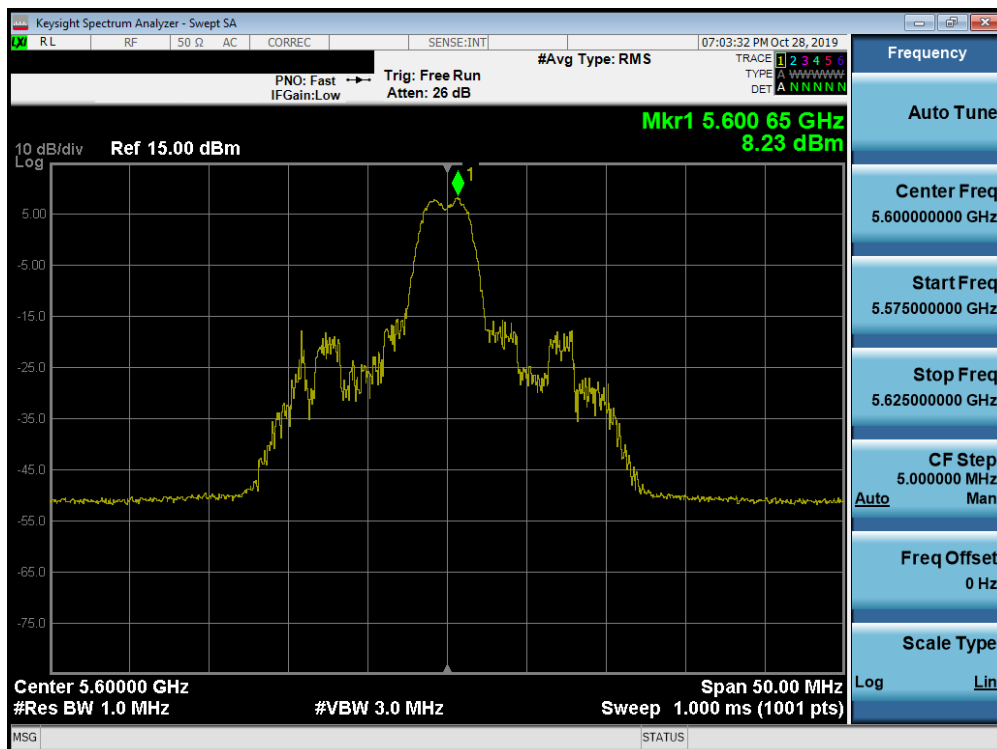


Plot 7-120. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 103 of 265

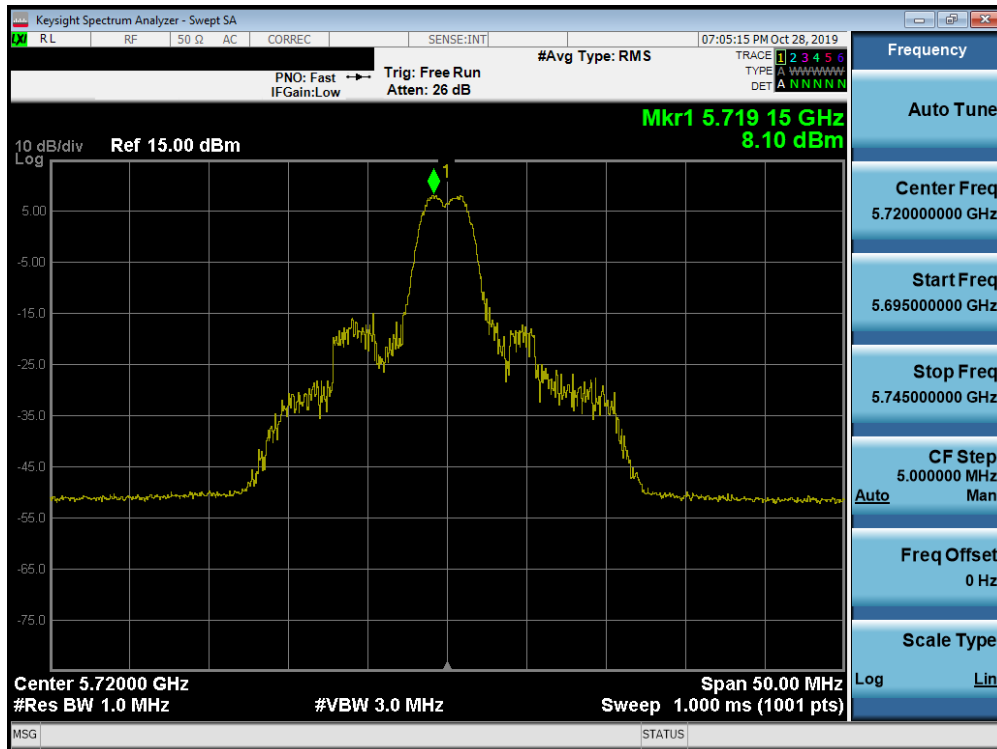


Plot 7-121. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

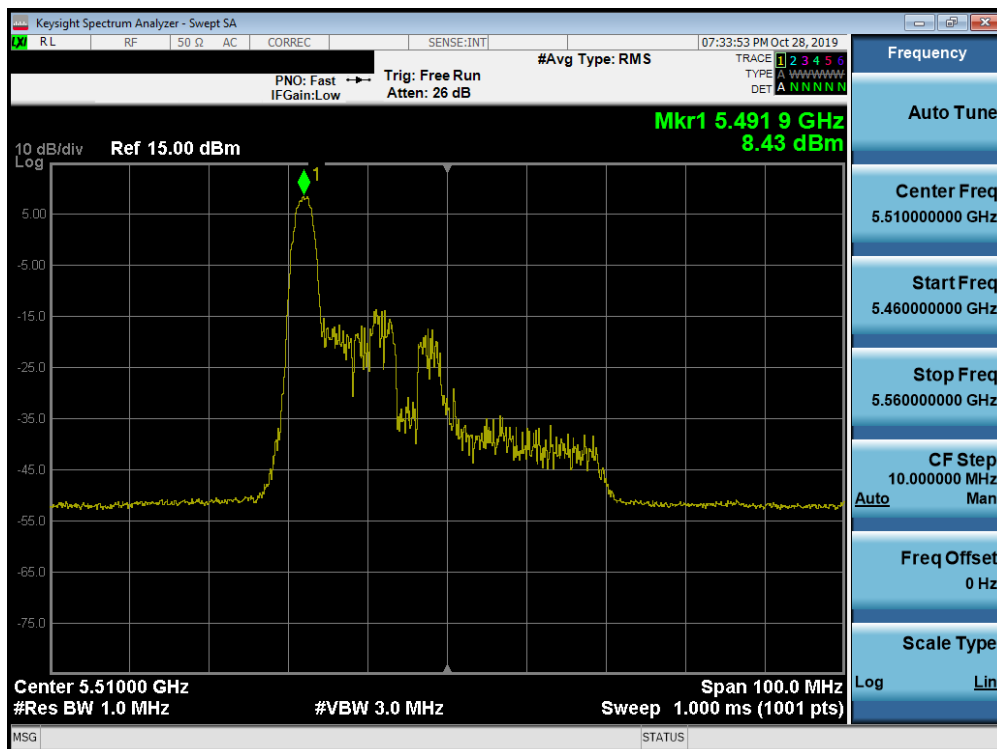


Plot 7-122. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 104 of 265

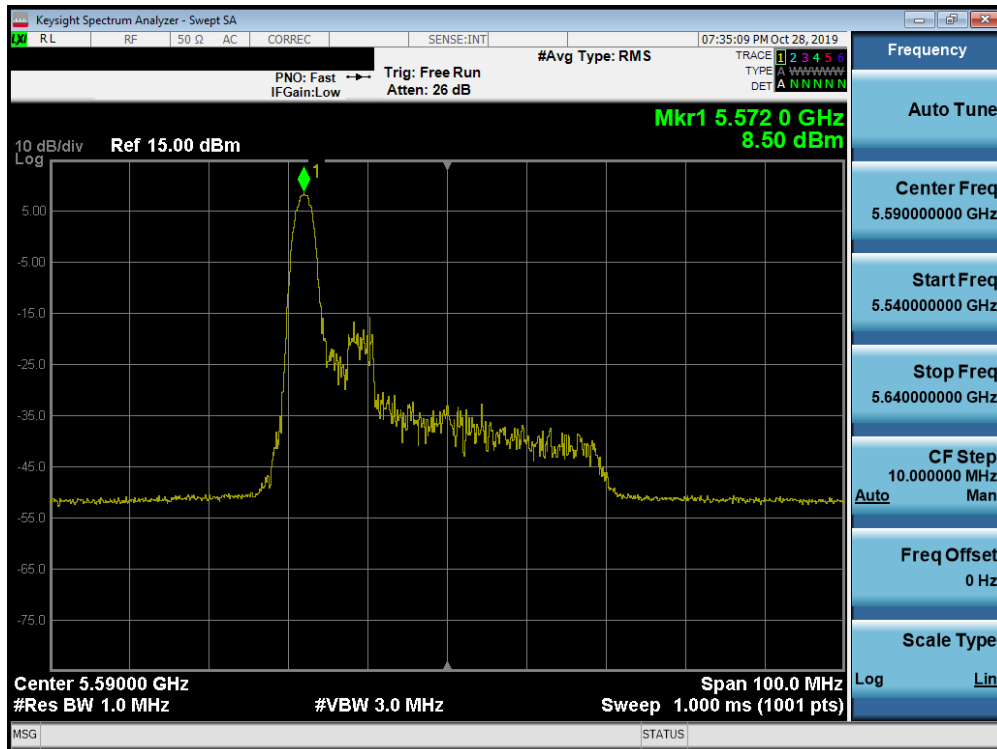


Plot 7-123. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

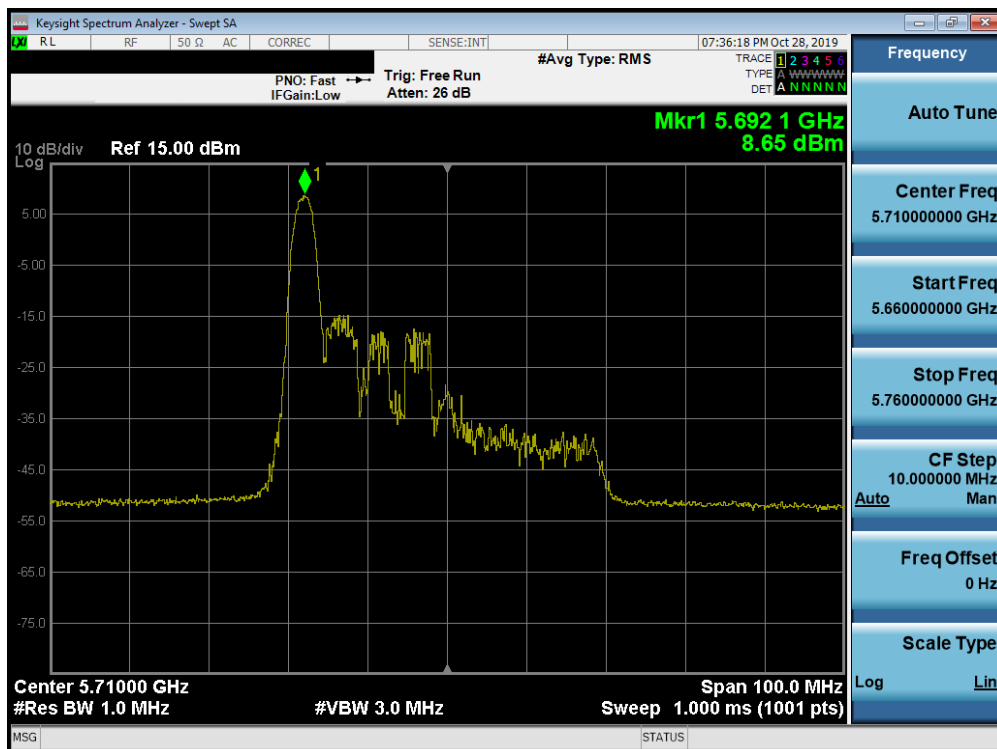


Plot 7-124. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 105 of 265

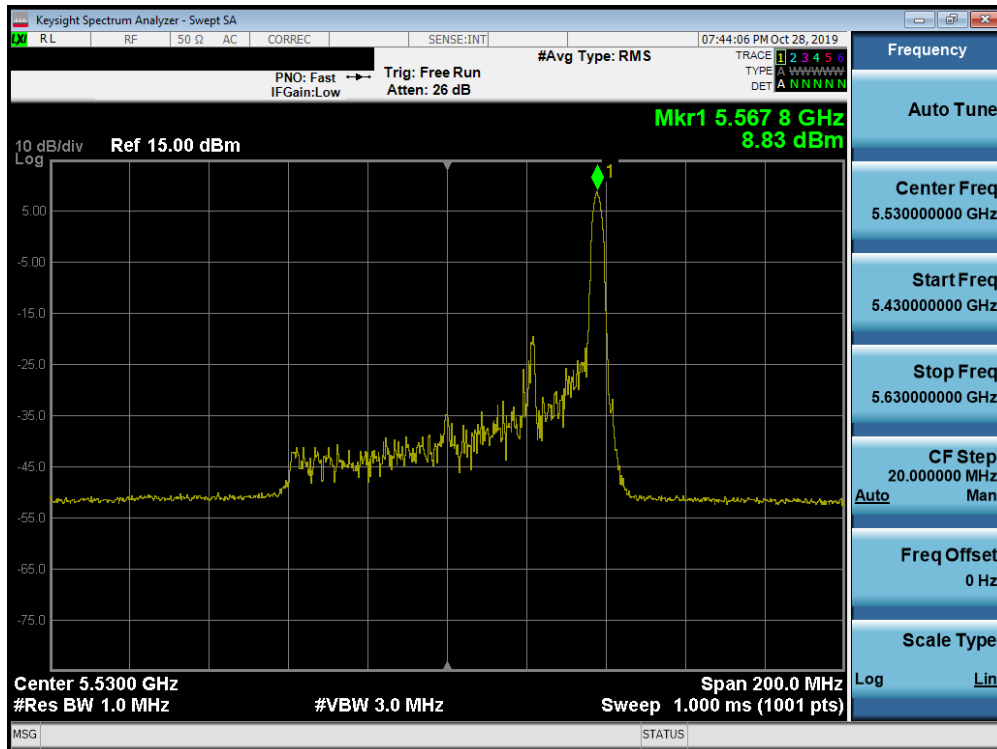


Plot 7-125. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

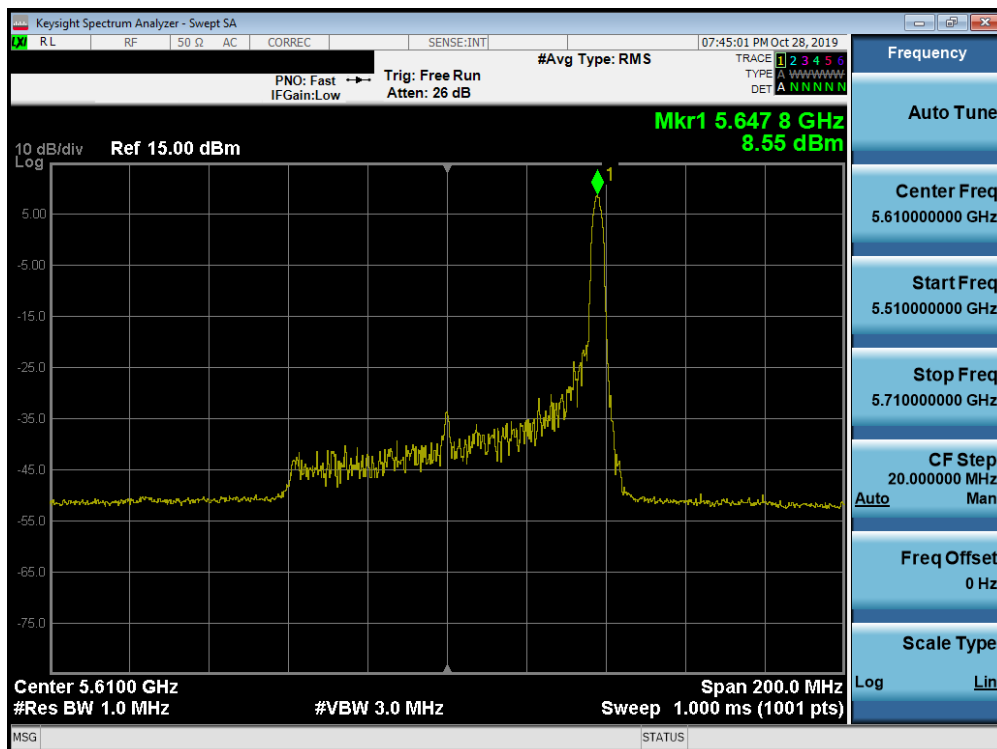


Plot 7-126. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 106 of 265

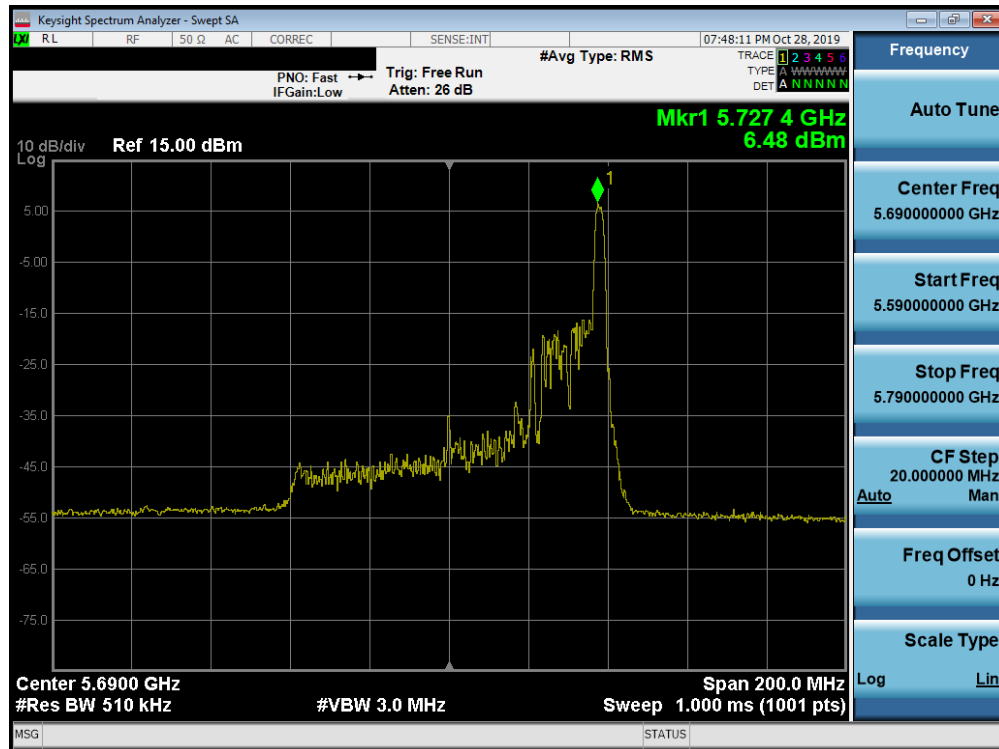


Plot 7-127. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-128. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 107 of 265



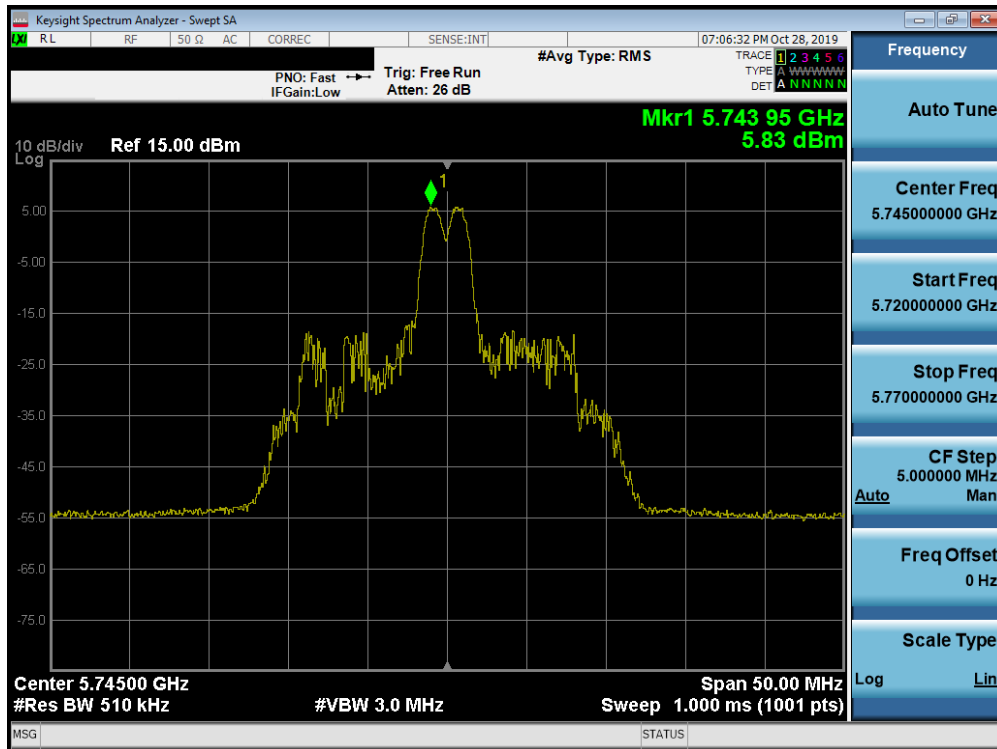
Plot 7-129. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 108 of 265

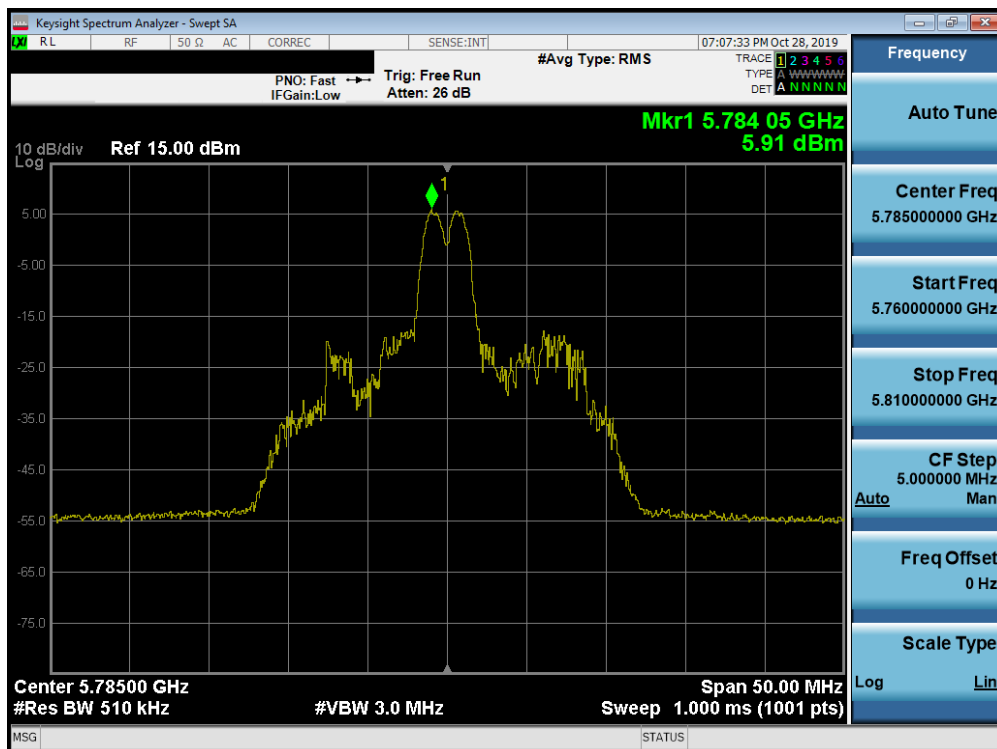
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	5.83	30.00	-24.17
	5785	157	ax (20MHz)	26T	MCS0	5.91	30.00	-24.09
	5825	165	ax (20MHz)	26T	MCS0	5.55	30.00	-24.45
	5755	151	ax (40MHz)	26T	MCS0	6.71	30.00	-23.29
	5795	159	ax (40MHz)	26T	MCS0	6.96	30.00	-23.04
	5775	155	ax (80MHz)	26T	MCS0	9.08	30.00	-20.92

Table 7-56. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	
			Page 109 of 265

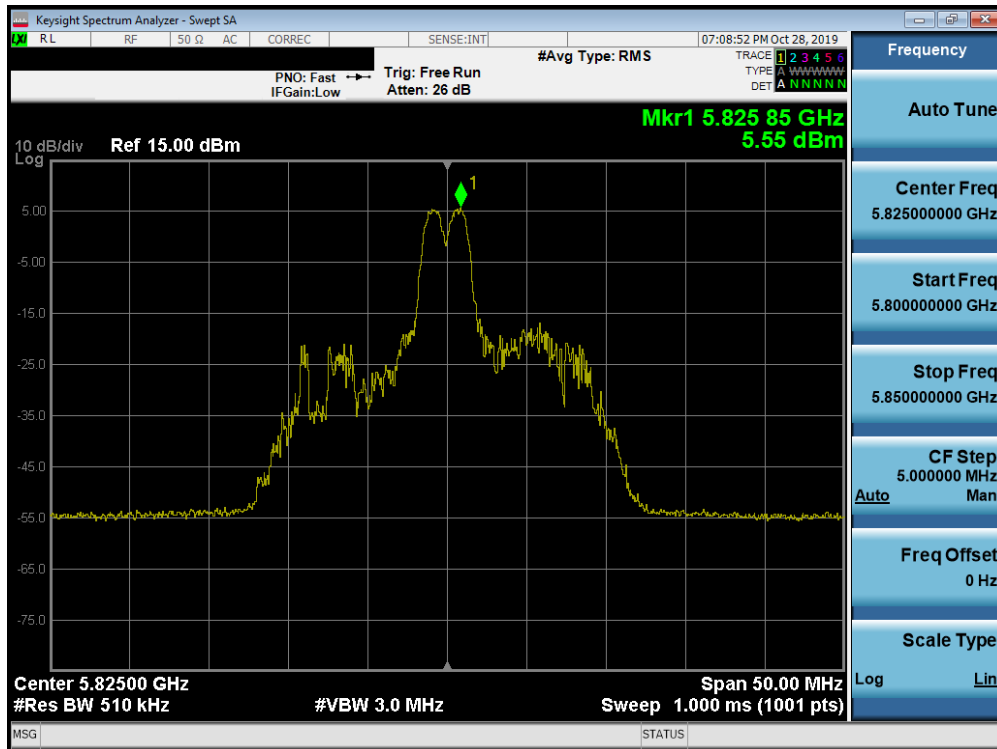


Plot 7-130. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

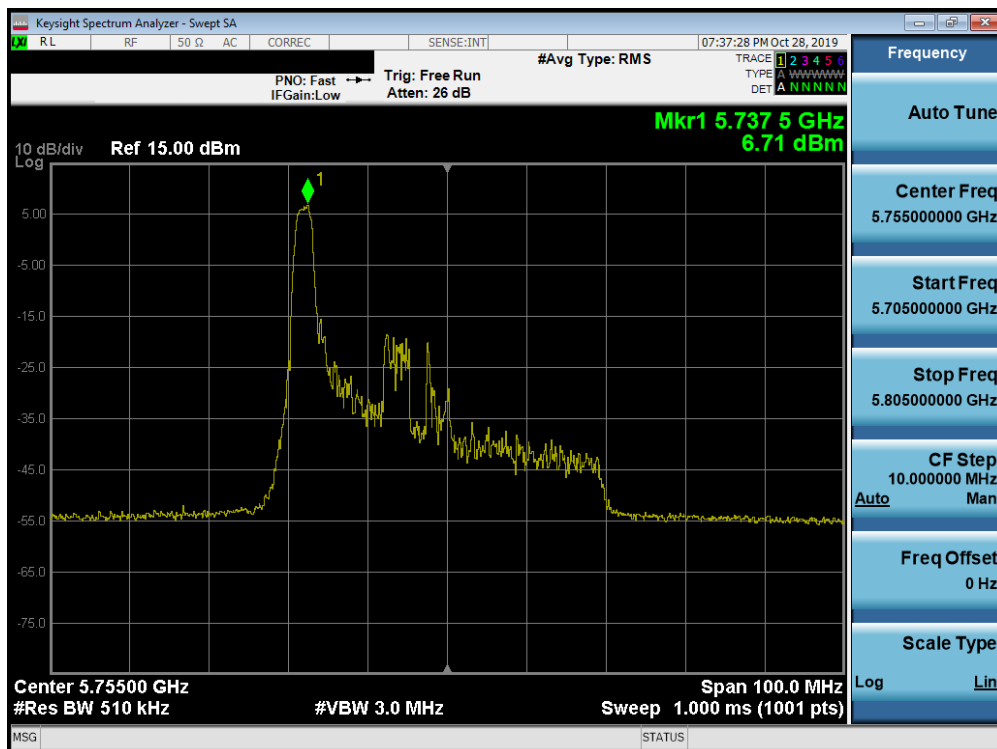


Plot 7-131. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 110 of 265

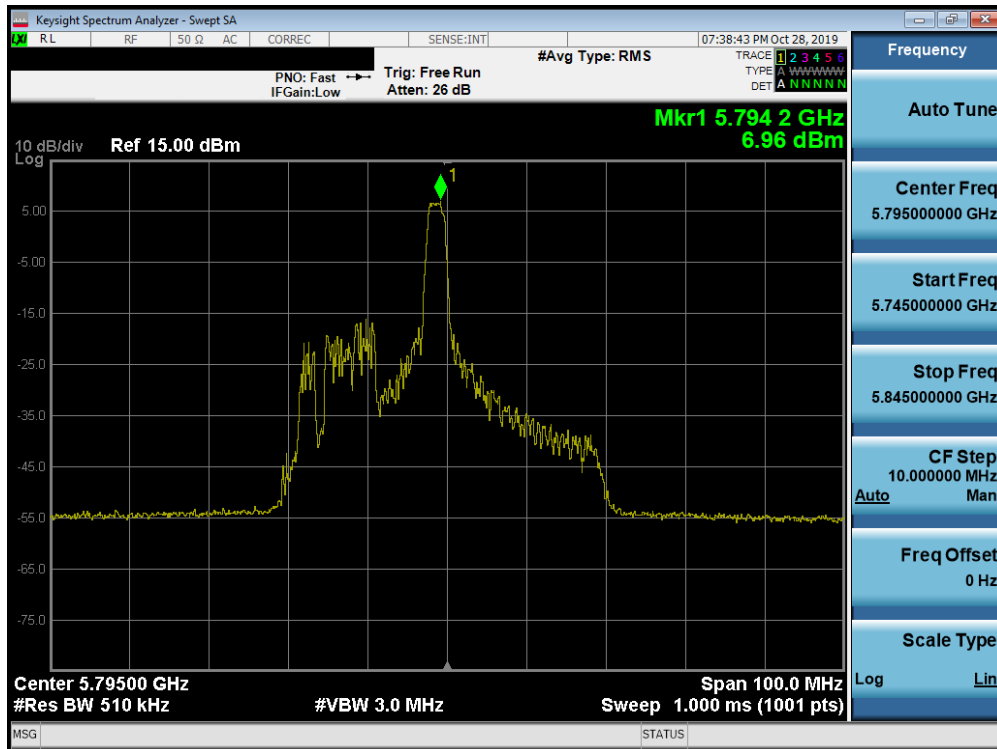


Plot 7-132. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

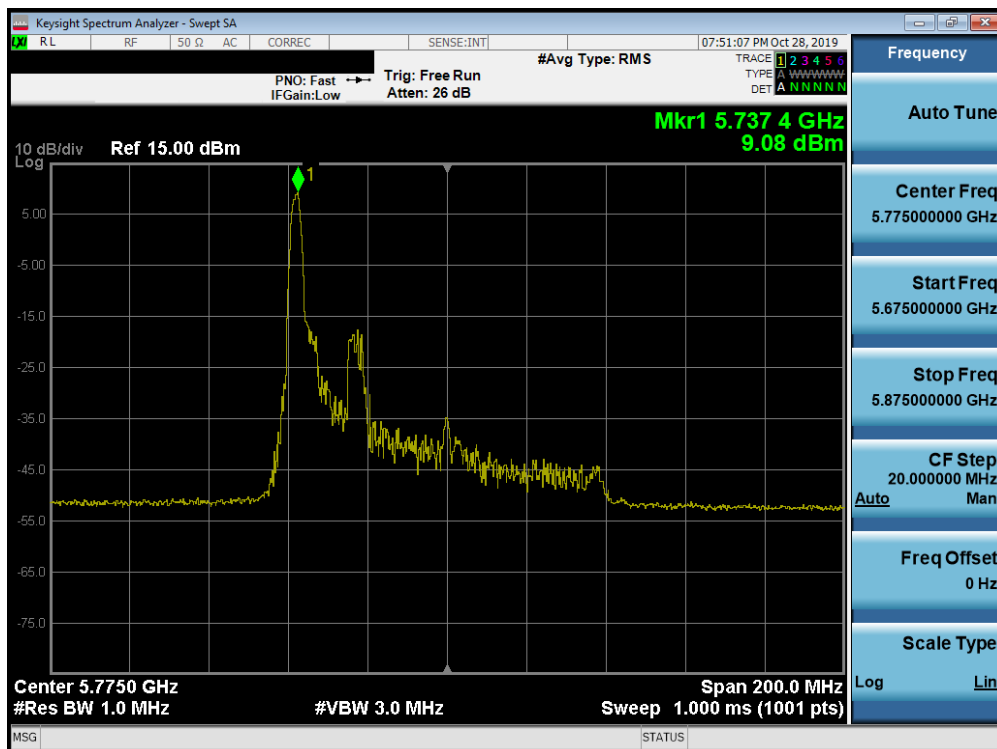


Plot 7-133. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 111 of 265



Plot 7-134. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-135. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

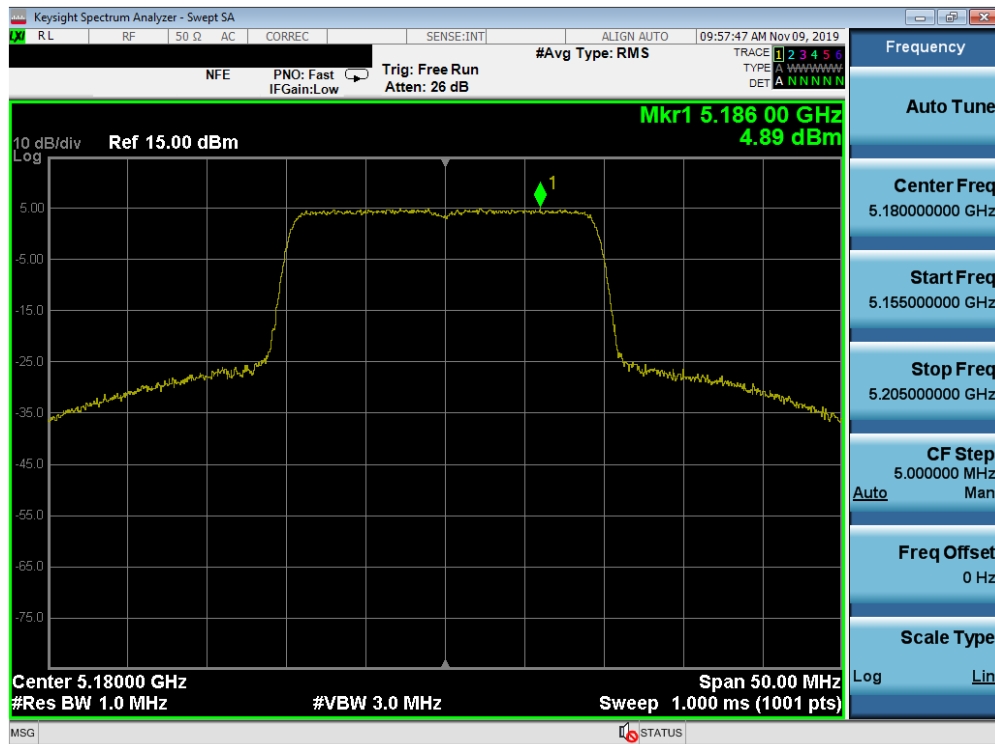
FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 112 of 265

SISO Antenna-2 Power Spectral Density Measurements (Full Tones)

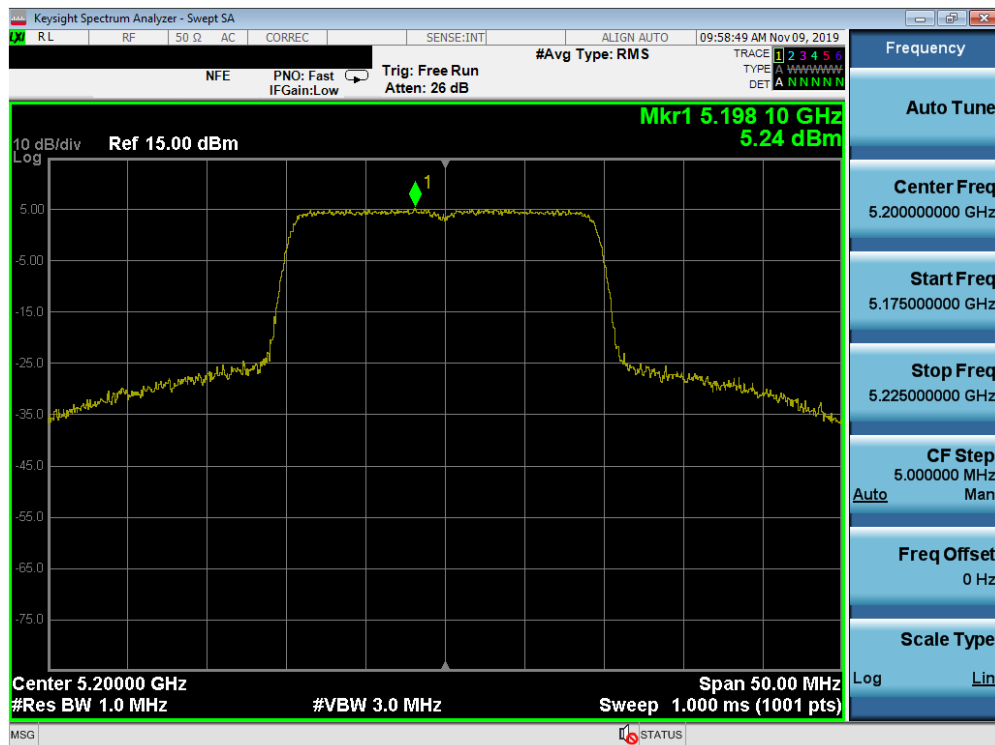
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	4.89	11.0	-6.11
	5200	40	ax (20MHz)	242T	MCS0	5.24	11.0	-5.76
	5240	48	ax (20MHz)	242T	MCS0	5.18	11.0	-5.82
	5190	38	ax (40MHz)	242T	MCS0	-0.84	11.0	-11.84
	5230	46	ax (40MHz)	242T	MCS0	-0.73	11.0	-11.73
	5210	42	ax (80MHz)	242T	MCS0	-4.94	11.0	-15.94
Band 2A	5260	52	ax (20MHz)	242T	MCS0	3.82	11.0	-7.18
	5280	56	ax (20MHz)	242T	MCS0	4.05	11.0	-6.95
	5320	64	ax (20MHz)	242T	MCS0	4.40	11.0	-6.60
	5270	54	ax (40MHz)	242T	MCS0	-0.87	11.0	-11.87
	5310	62	ax (40MHz)	242T	MCS0	-0.77	11.0	-11.77
	5290	58	ax (80MHz)	242T	MCS0	-4.31	11.0	-15.31
Band 2C	5500	100	ax (20MHz)	242T	MCS0	3.85	11.0	-7.15
	5600	120	ax (20MHz)	242T	MCS0	4.15	11.0	-6.85
	5720	144	ax (20MHz)	242T	MCS0	4.11	11.0	-6.89
	5510	102	ax (40MHz)	242T	MCS0	-0.80	11.0	-11.80
	5590	118	ax (40MHz)	242T	MCS0	-1.08	11.0	-12.08
	5710	142	ax (40MHz)	242T	MCS0	-0.63	11.0	-11.63
	5530	106	ax (80MHz)	242T	MCS0	-4.16	11.0	-15.16
	5610	122	ax (80MHz)	242T	MCS0	-4.19	11.0	-15.19
	5690	138	ax (80MHz)	242T	MCS0	-7.25	11.0	-18.25

Table 7-57. Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 113 of 265

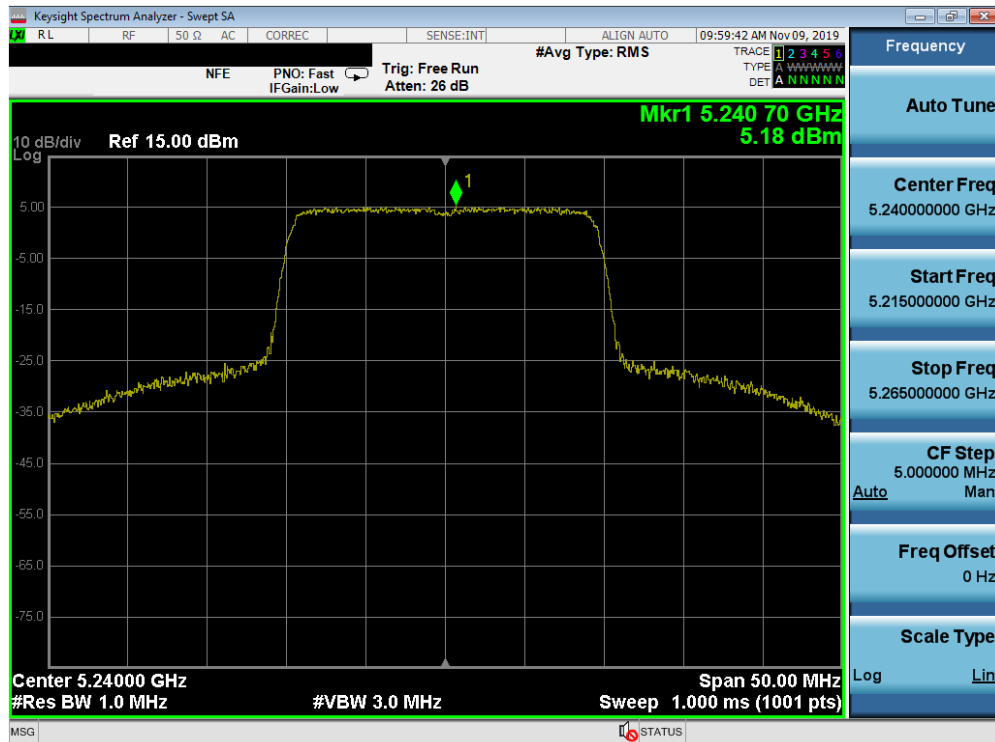


Plot 7-136. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)



Plot 7-137. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 114 of 265

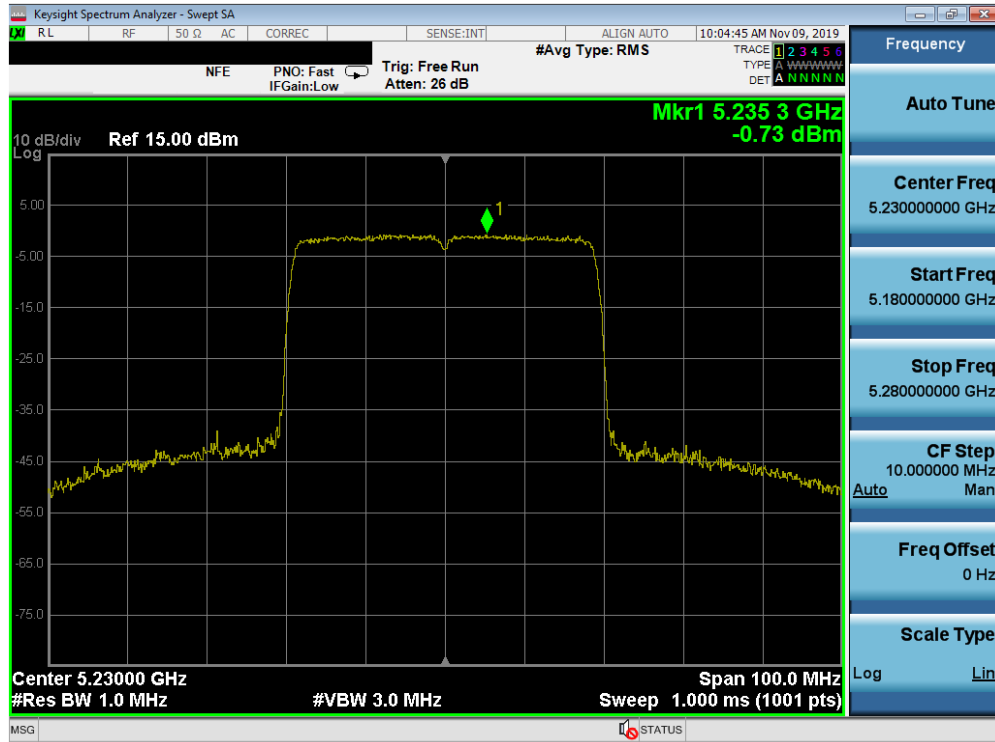


Plot 7-138. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

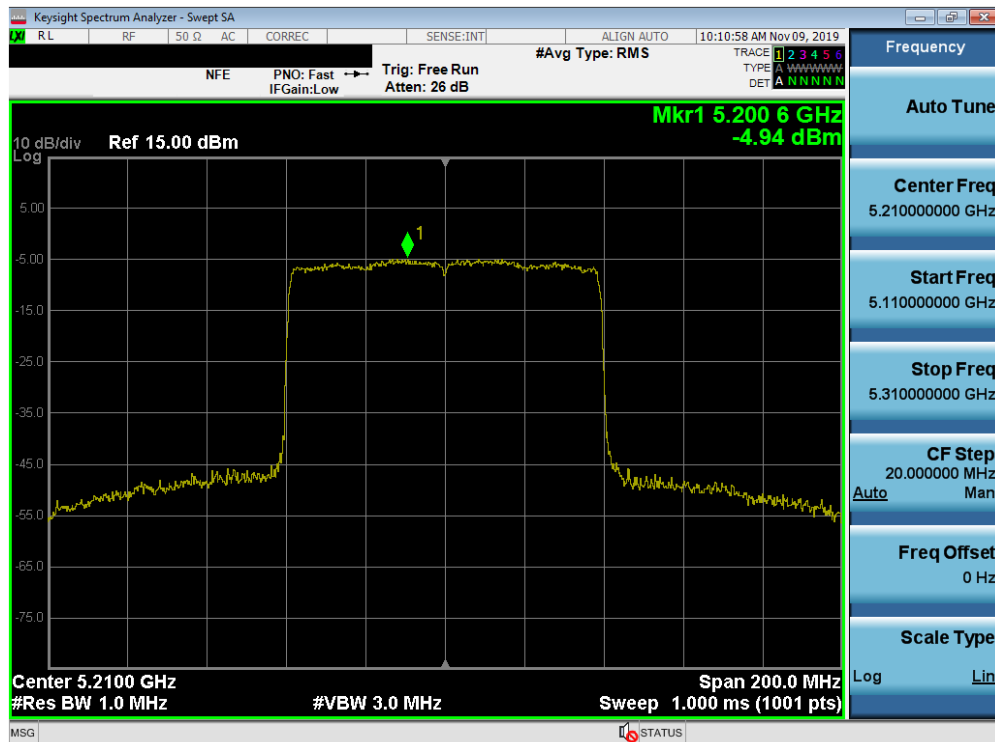


Plot 7-139. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 115 of 265

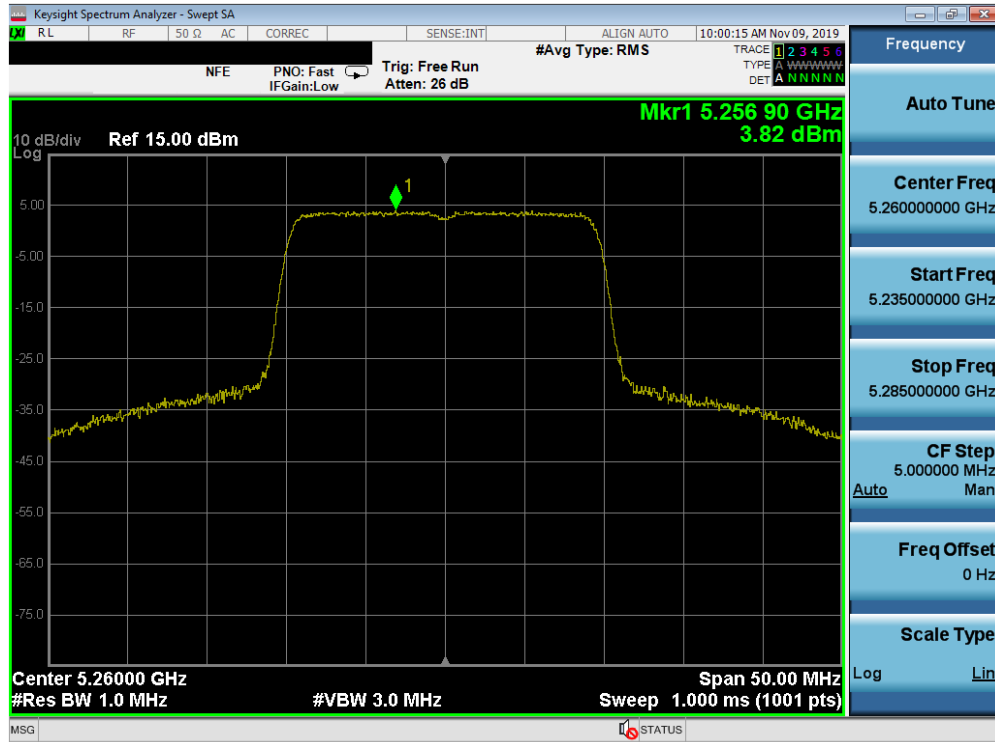


Plot 7-140. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

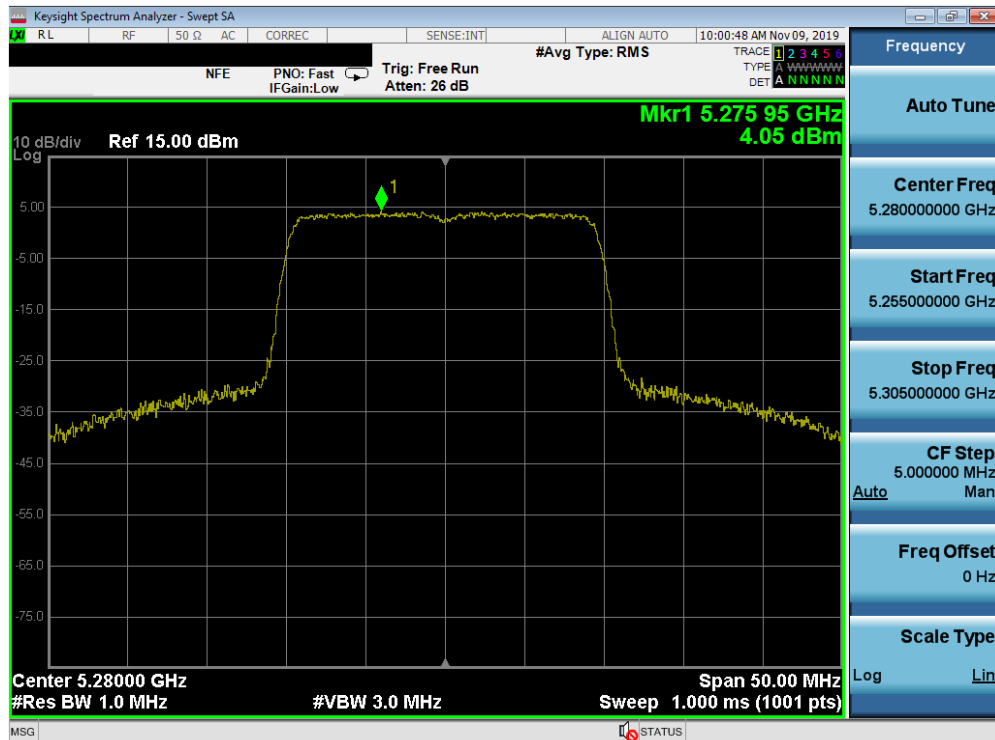


Plot 7-141. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 116 of 265

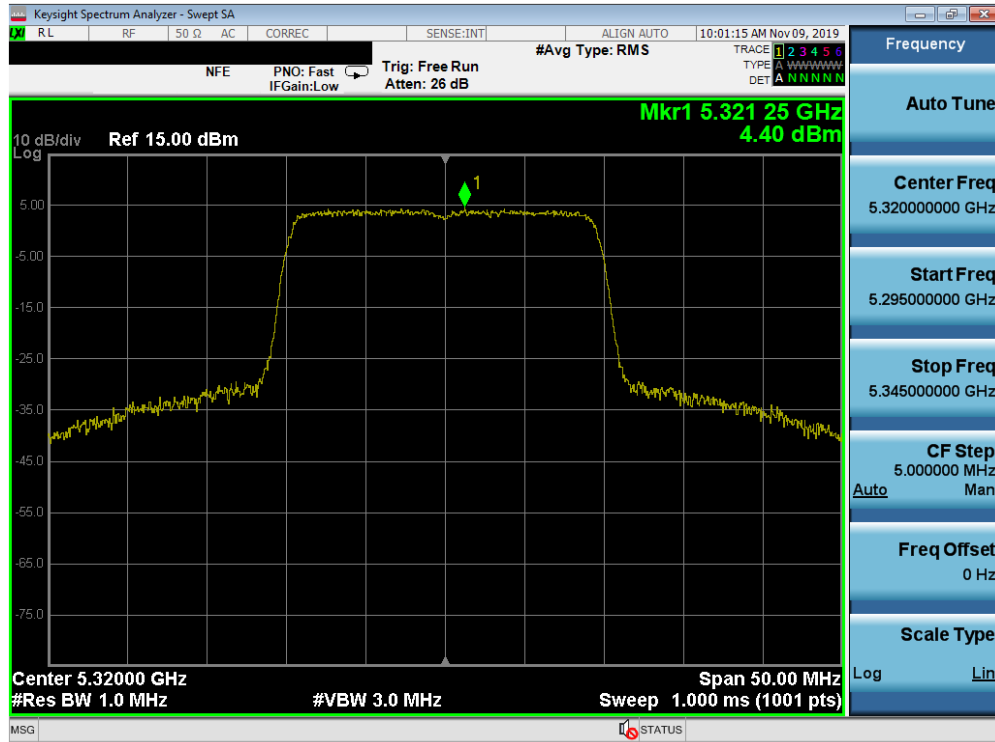


Plot 7-142. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

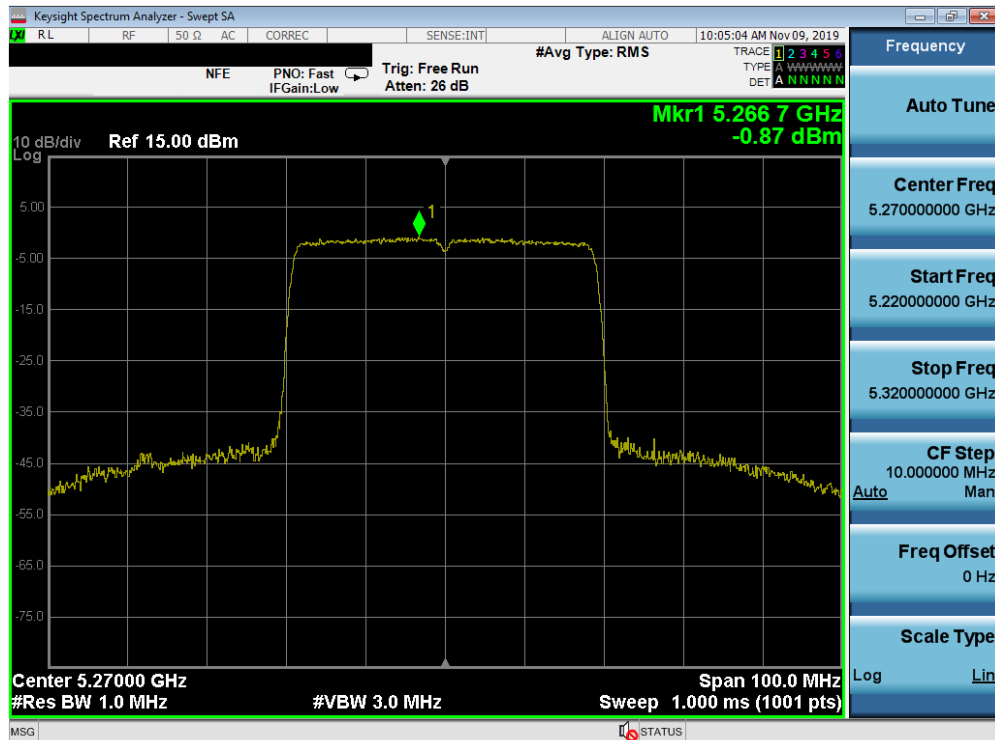


Plot 7-143. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 117 of 265



Plot 7-144. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

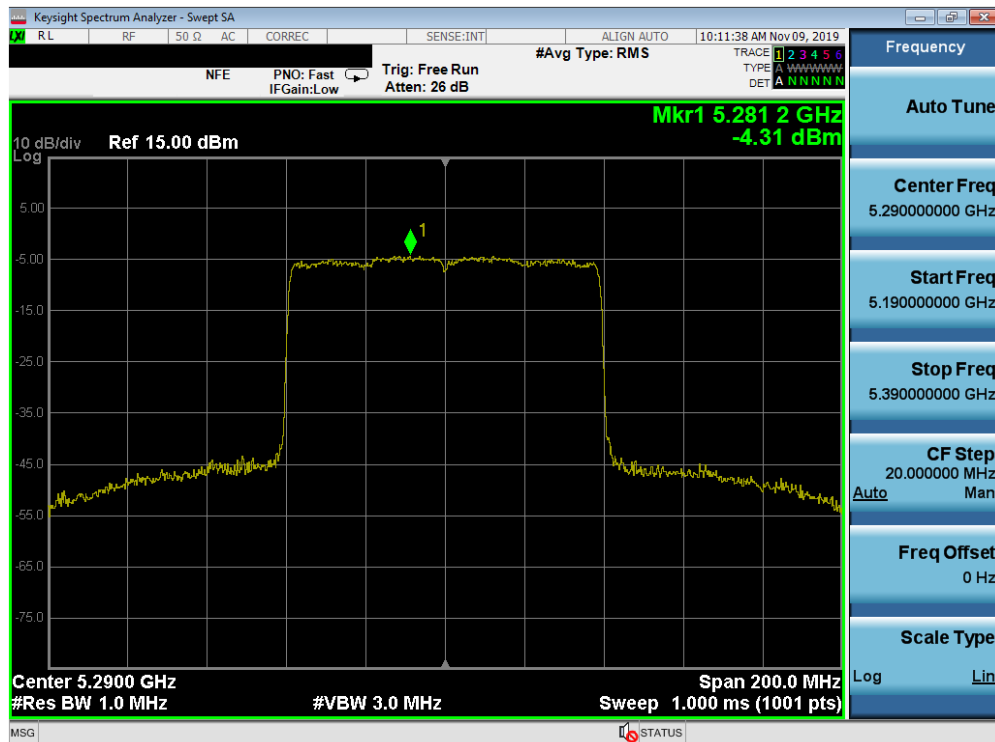


Plot 7-145. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 118 of 265

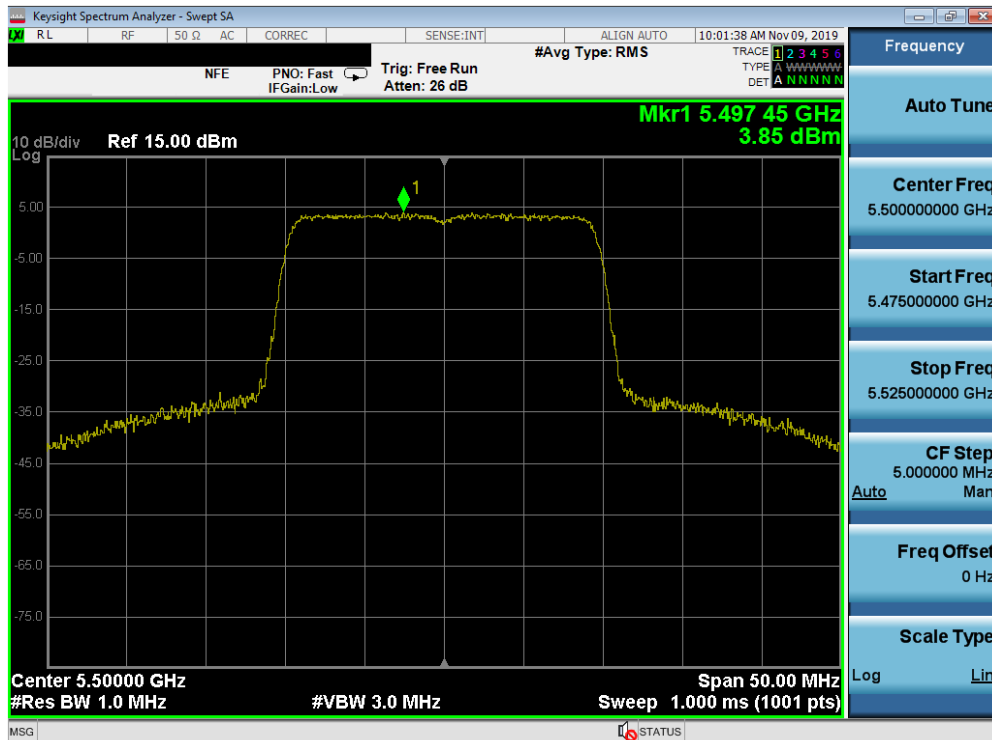


Plot 7-146. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

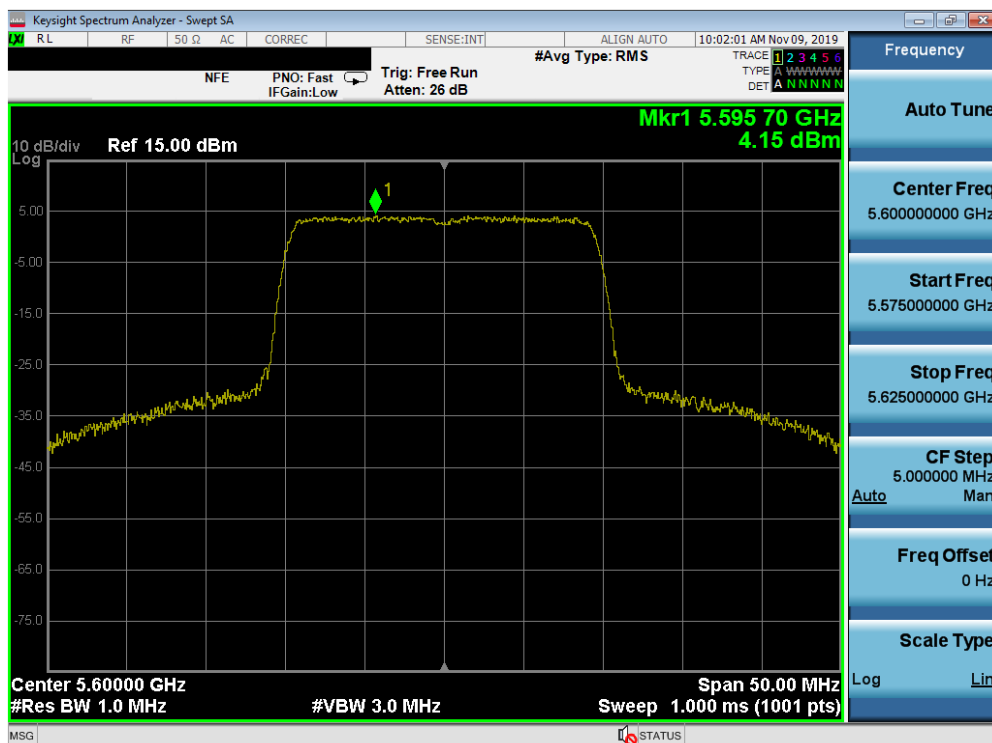


Plot 7-147. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 119 of 265

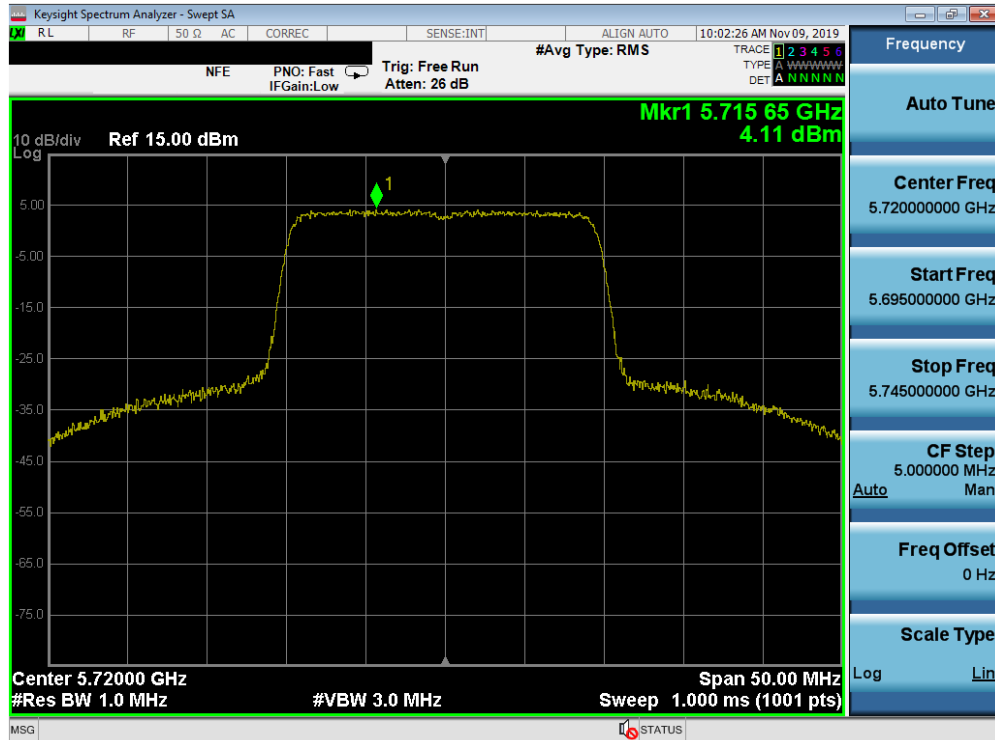


Plot 7-148. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

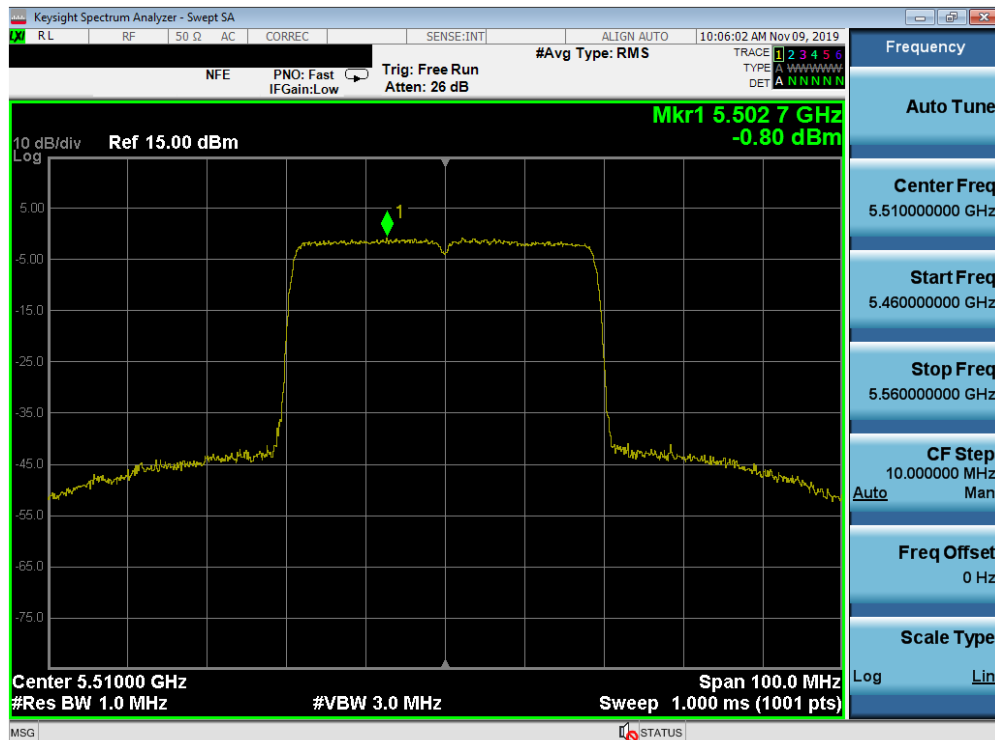


Plot 7-149. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 120 of 265

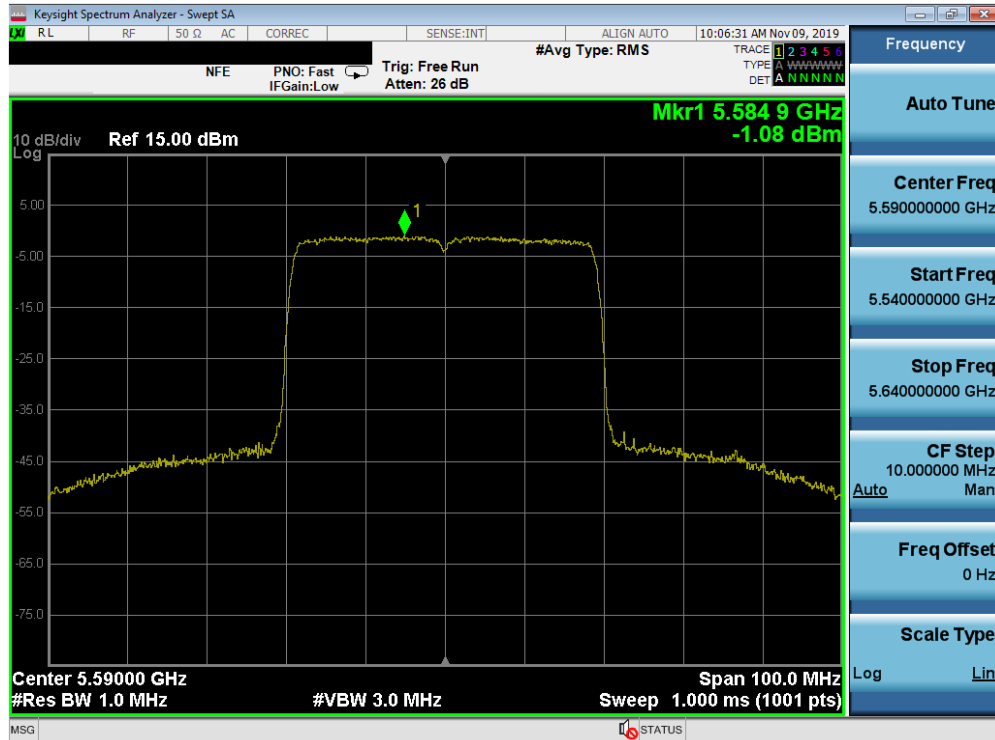


Plot 7-150. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

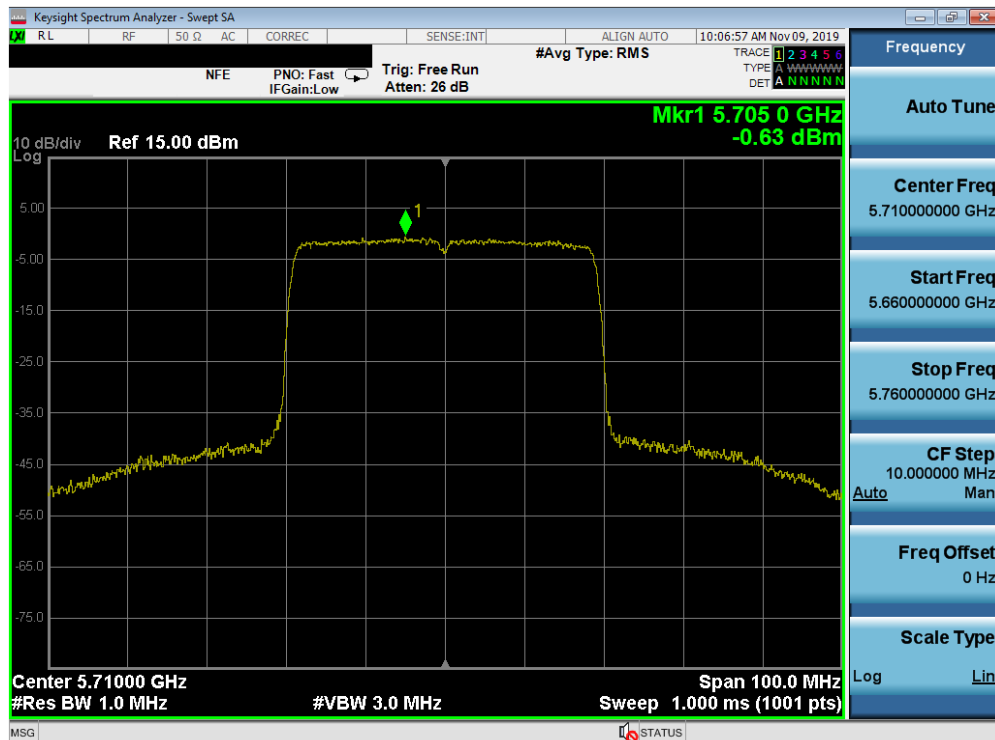


Plot 7-151. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 121 of 265

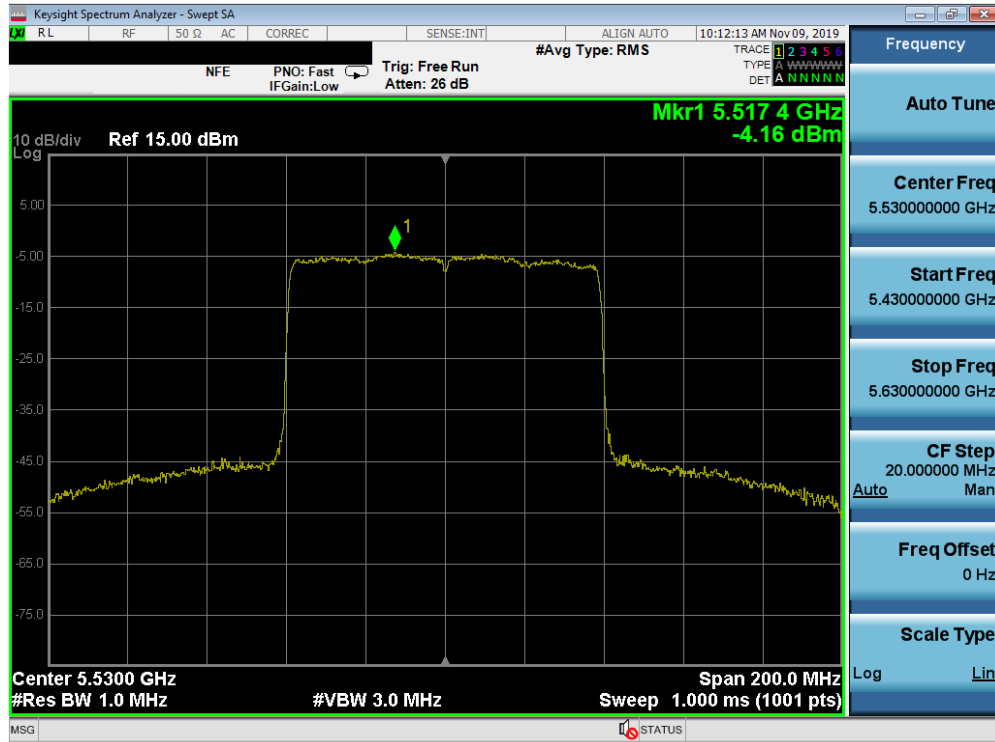


Plot 7-152. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

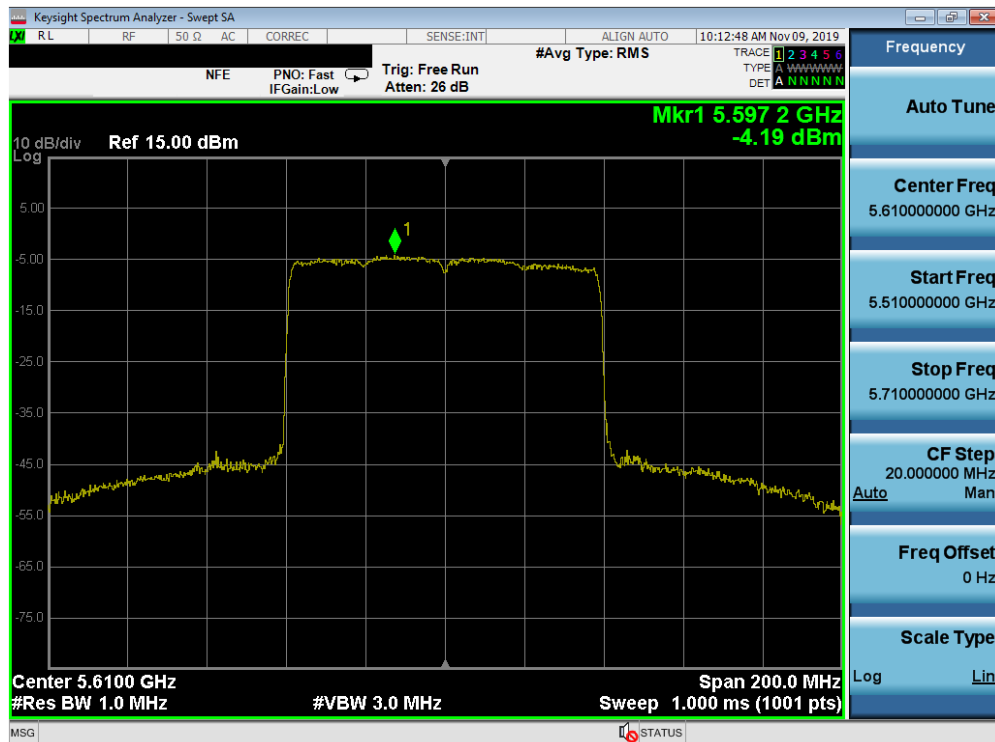


Plot 7-153. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 122 of 265

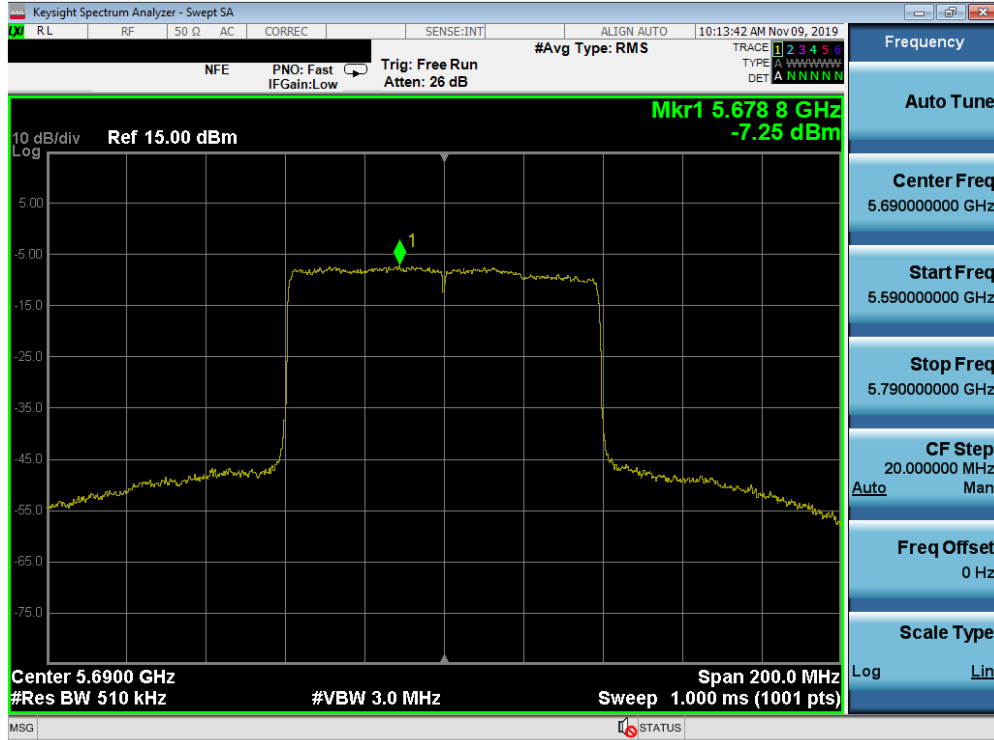


Plot 7-154. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)



Plot 7-155. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 123 of 265



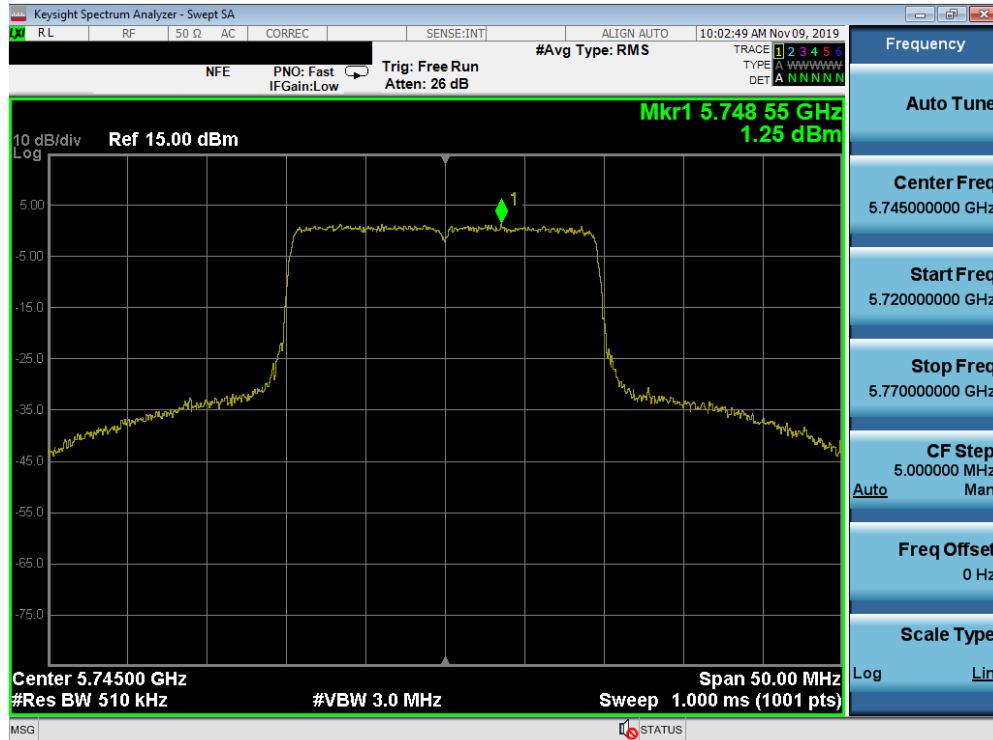
Plot 7-156. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 124 of 265

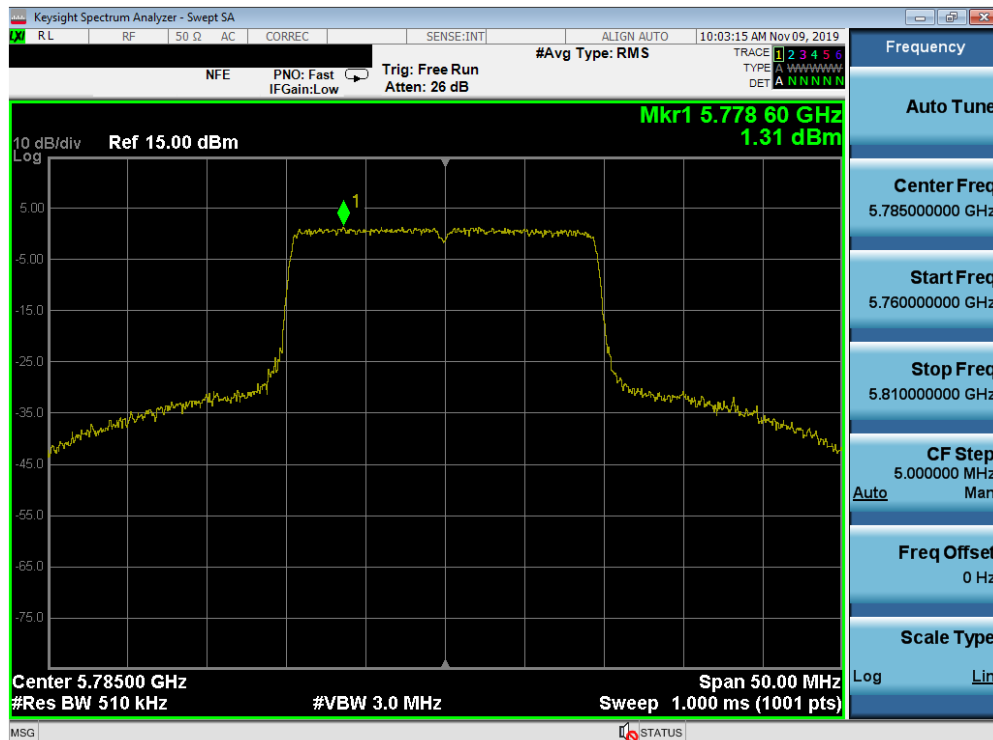
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	1.25	30.00	-28.75
	5785	157	ax (20MHz)	242T	MCS0	1.31	30.00	-28.69
	5825	165	ax (20MHz)	242T	MCS0	1.39	30.00	-28.61
	5755	151	ax (40MHz)	242T	MCS0	-3.16	30.00	-33.16
	5795	159	ax (40MHz)	242T	MCS0	-3.38	30.00	-33.38
	5775	155	ax (80MHz)	242T	MCS0	-4.88	30.00	-34.88

Table 7-58. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	
			Page 125 of 265

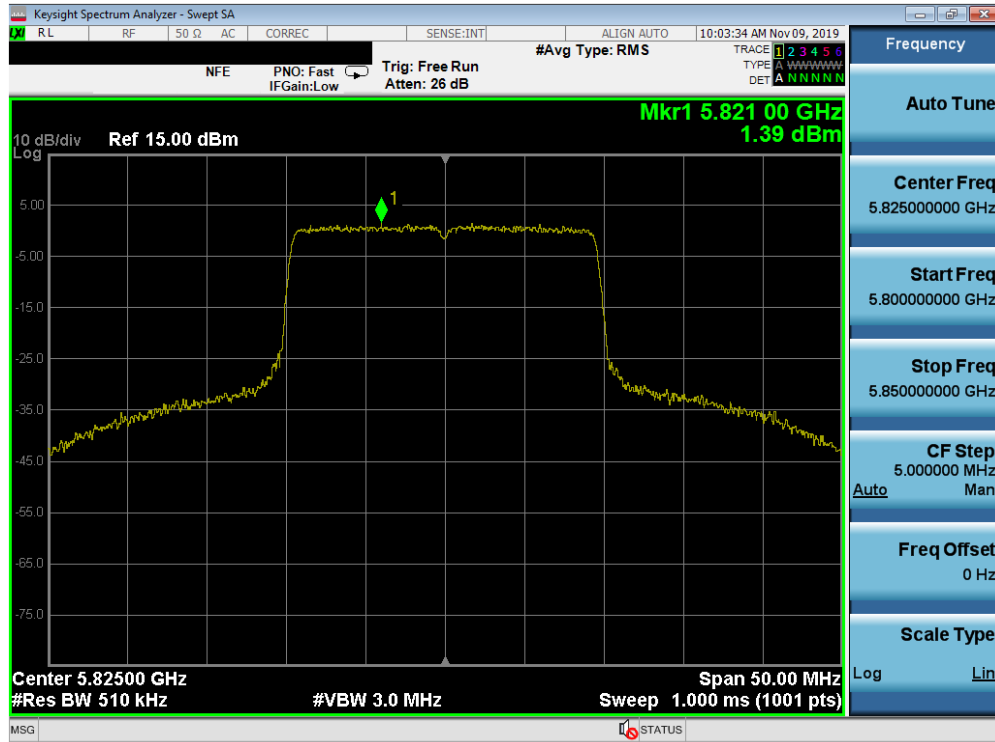


Plot 7-157. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

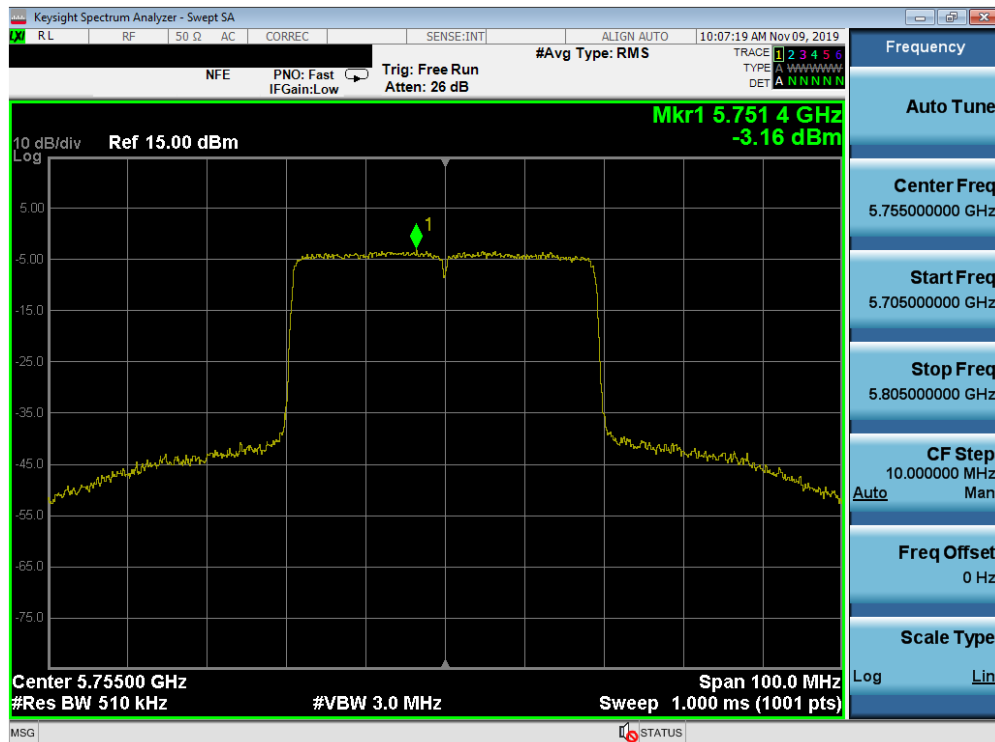


Plot 7-158. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 126 of 265

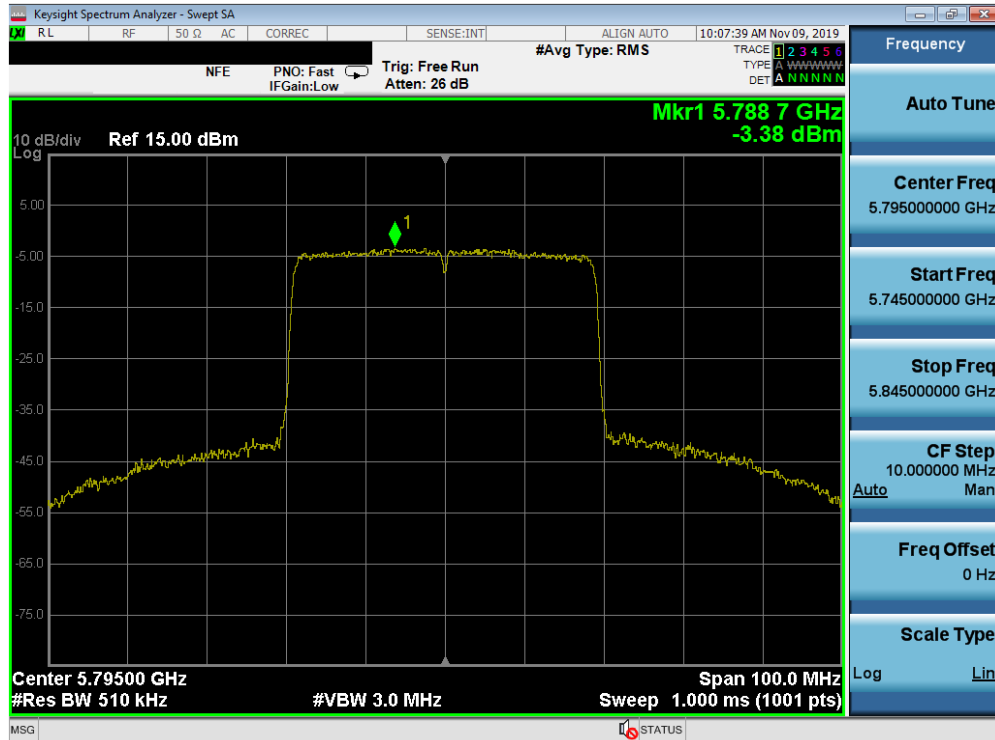


Plot 7-159. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

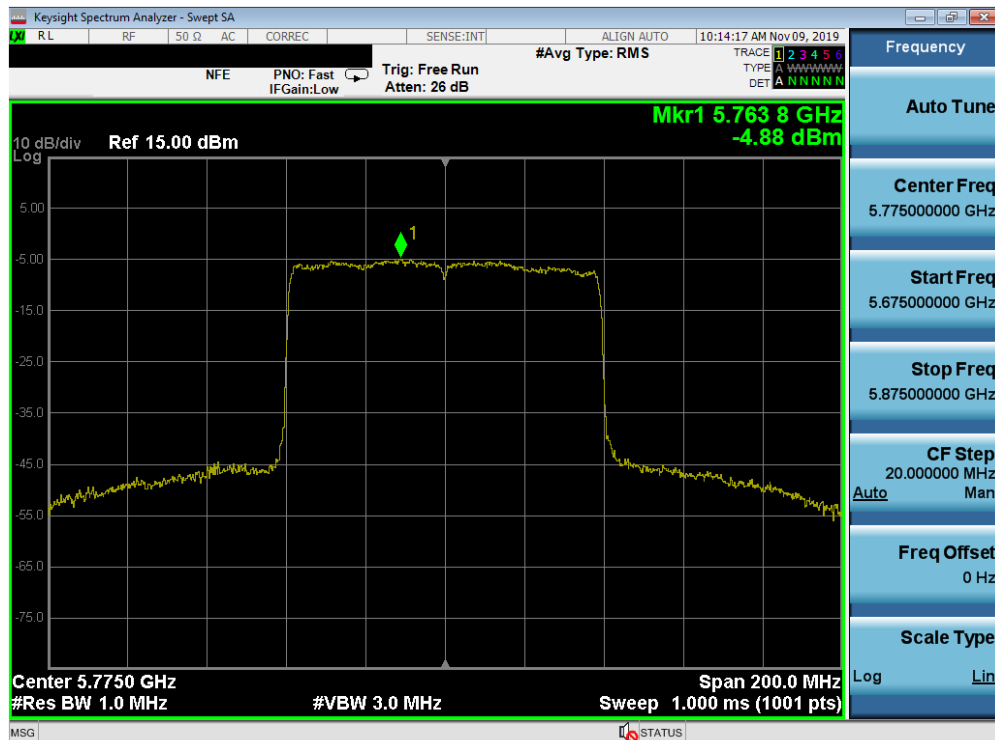


Plot 7-160. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 127 of 265



Plot 7-161. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-162. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 128 of 265

Summed MIMO Power Spectral Density 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]
Band 1	5180	36	ax (20MHz)	26T	MCS0	5.16	6.17	8.70	11.00	-2.30
	5200	40	ax (20MHz)	26T	MCS0	5.07	6.33	8.76	11.00	-2.24
	5240	48	ax (20MHz)	26T	MCS0	5.83	6.50	9.19	11.00	-1.81
	5190	38	ax (40MHz)	26T	MCS0	5.92	6.01	8.97	11.00	-2.03
	5230	46	ax (40MHz)	26T	MCS0	6.29	6.29	9.30	11.00	-1.70
	5210	42	ax (80MHz)	26T	MCS0	6.36	6.32	9.35	11.00	-1.65
Band 2A	5260	52	ax (20MHz)	26T	MCS0	4.36	5.04	7.72	11.00	-3.28
	5280	56	ax (20MHz)	26T	MCS0	4.44	4.88	7.67	11.00	-3.33
	5320	64	ax (20MHz)	26T	MCS0	5.28	5.61	8.46	11.00	-2.54
	5270	54	ax (40MHz)	26T	MCS0	5.18	5.03	8.12	11.00	-2.88
	5310	62	ax (40MHz)	26T	MCS0	5.85	5.88	8.87	11.00	-2.13
	5290	58	ax (80MHz)	26T	MCS0	5.53	6.01	8.79	11.00	-2.21
Band 2C	5500	100	ax (20MHz)	26T	MCS0	4.92	4.30	7.63	11.00	-3.37
	5600	120	ax (20MHz)	26T	MCS0	4.18	4.65	7.43	11.00	-3.57
	5720	144	ax (20MHz)	26T	MCS0	4.68	4.90	7.80	11.00	-3.20
	5510	102	ax (40MHz)	26T	MCS0	5.59	4.99	8.31	11.00	-2.69
	5590	118	ax (40MHz)	26T	MCS0	6.72	5.68	9.24	11.00	-1.76
	5710	142	ax (40MHz)	26T	MCS0	5.91	5.01	8.49	11.00	-2.51
	5530	106	ax (80MHz)	26T	MCS0	6.66	5.47	9.12	11.00	-1.88
	5610	122	ax (80MHz)	26T	MCS0	6.79	5.45	9.18	11.00	-1.82
	5690	138	ax (80MHz)	26T	MCS0	4.37	3.02	6.76	11.00	-4.24

Table 7-59. 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]
Band 3	5745	149	ax (20MHz)	26T	MCS0	2.69	3.73	6.25	30.00	-23.75
	5785	157	ax (20MHz)	26T	MCS0	2.67	3.04	5.87	30.00	-24.13
	5825	165	ax (20MHz)	26T	MCS0	2.29	2.91	5.62	30.00	-24.38
	5755	151	ax (40MHz)	26T	MCS0	2.67	2.85	5.77	30.00	-24.23
	5795	159	ax (40MHz)	26T	MCS0	2.85	3.49	6.19	30.00	-23.81
	5775	155	ax (80MHz)	26T	MCS0	6.10	6.47	9.30	30.00	-20.70

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

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 129 of 265

	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]
Band 1	5180	36	ax (20MHz)	242T	MCS0	0.62	0.89	3.77	11.00	-7.23
	5200	40	ax (20MHz)	242T	MCS0	0.77	1.12	3.96	11.00	-7.04
	5240	48	ax (20MHz)	242T	MCS0	1.68	1.42	4.56	11.00	-6.44
	5190	38	ax (40MHz)	242T	MCS0	-1.84	-1.46	1.36	11.00	-9.64
	5230	46	ax (40MHz)	242T	MCS0	-2.44	-1.99	0.80	11.00	-10.20
	5210	42	ax (80MHz)	242T	MCS0	-6.16	-4.94	-2.50	11.00	-13.50
Band 2A	5260	52	ax (20MHz)	242T	MCS0	2.15	1.57	4.88	11.00	-6.12
	5280	56	ax (20MHz)	242T	MCS0	3.00	1.47	5.31	11.00	-5.69
	5320	64	ax (20MHz)	242T	MCS0	2.78	1.28	5.10	11.00	-5.90
	5270	54	ax (40MHz)	242T	MCS0	-2.97	-2.68	0.19	11.00	-10.81
	5310	62	ax (40MHz)	242T	MCS0	-2.15	-2.41	0.73	11.00	-10.27
	5290	58	ax (80MHz)	242T	MCS0	-6.01	-4.31	-2.07	11.00	-13.07
Band 2C	5500	100	ax (20MHz)	242T	MCS0	2.35	1.97	5.17	11.00	-5.83
	5600	120	ax (20MHz)	242T	MCS0	1.78	0.63	4.25	11.00	-6.75
	5720	144	ax (20MHz)	242T	MCS0	1.16	-0.19	3.55	11.00	-7.45
	5510	102	ax (40MHz)	242T	MCS0	-2.67	-3.10	0.13	11.00	-10.87
	5590	118	ax (40MHz)	242T	MCS0	-3.10	-3.54	-0.30	11.00	-11.30
	5710	142	ax (40MHz)	242T	MCS0	-1.51	-2.22	1.16	11.00	-9.84
	5530	106	ax (80MHz)	242T	MCS0	-6.41	-6.83	-3.60	11.00	-14.60
	5610	122	ax (80MHz)	242T	MCS0	-7.14	-7.38	-4.25	11.00	-15.25
	5690	138	ax (80MHz)	242T	MCS0	-9.58	-7.25	-5.25	11.00	-16.25

Table 7-61. 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]
Band 3	5745	149	ax (20MHz)	242T	MCS0	-0.88	-0.87	2.13	30.00	-27.87
	5785	157	ax (20MHz)	242T	MCS0	-1.36	-0.89	1.89	30.00	-28.11
	5825	165	ax (20MHz)	242T	MCS0	-1.33	-1.57	1.56	30.00	-28.44
	5755	151	ax (40MHz)	242T	MCS0	-4.52	-4.22	-1.36	30.00	-31.36
	5795	159	ax (40MHz)	242T	MCS0	-5.82	-6.07	-2.93	30.00	-32.93
	5775	155	ax (80MHz)	242T	MCS0	-7.66	-6.26	-3.89	30.00	-33.89

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

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 130 of 265

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:

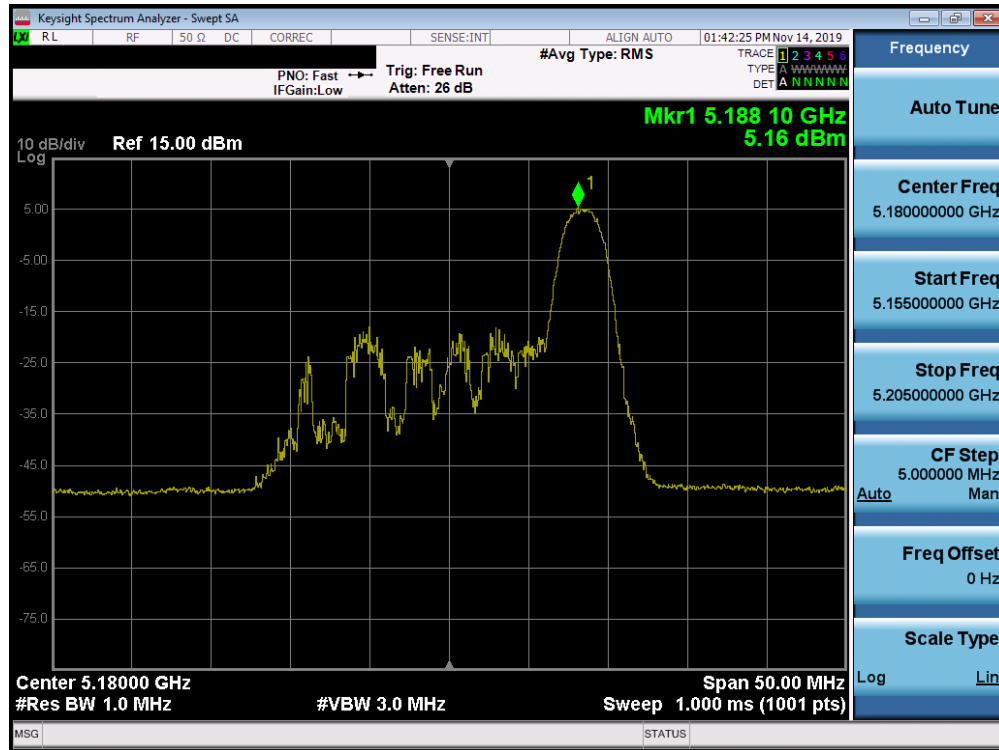
Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

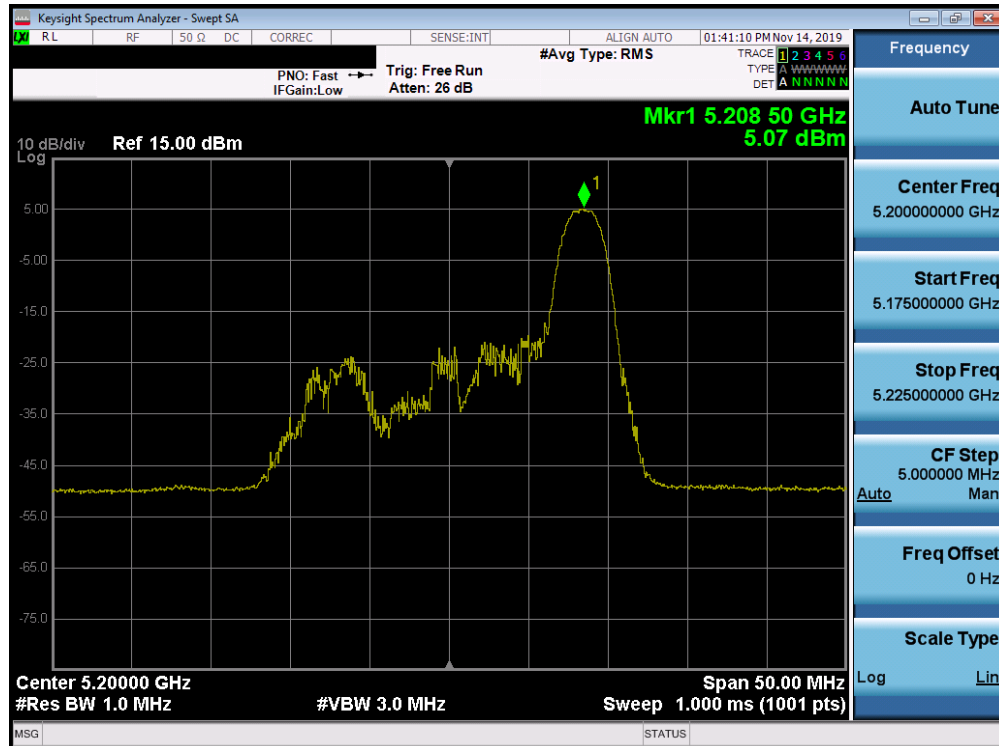
$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}$$

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 131 of 265

MIMO Antenna-1 Power Spectral Density Measurements (26 Tones)

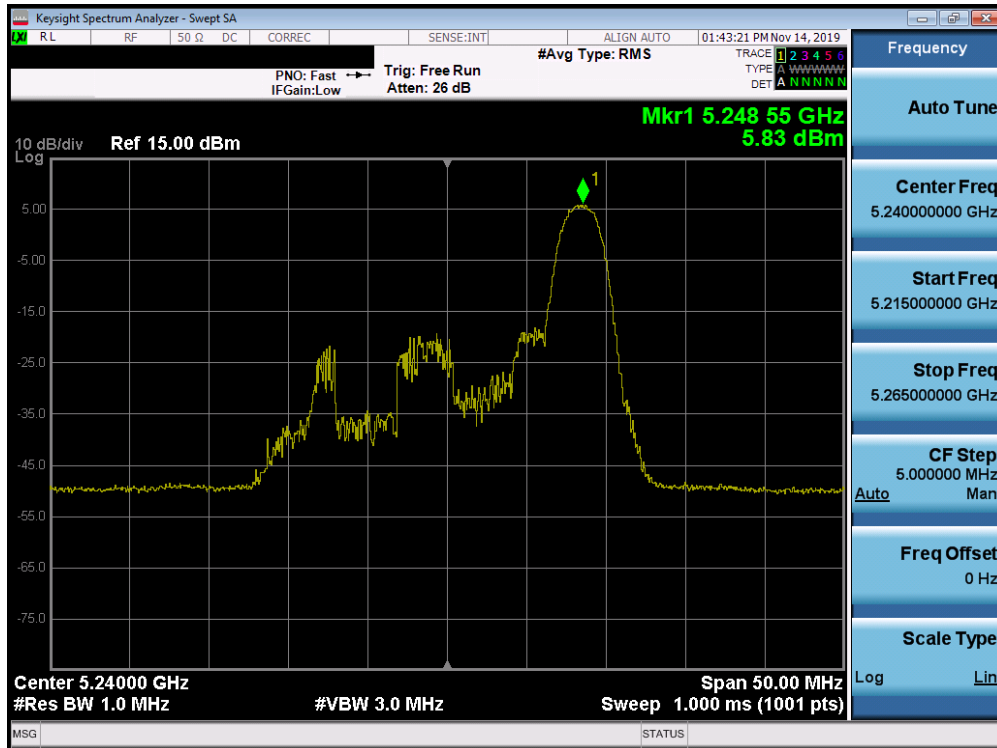


Plot 7-163. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

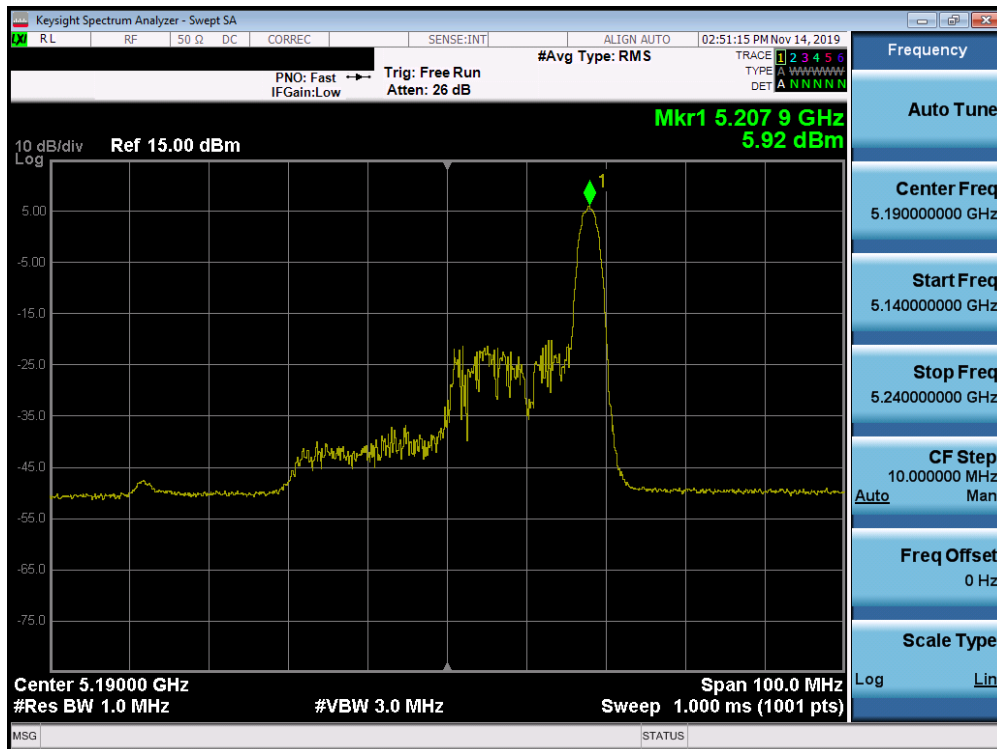


Plot 7-164. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 132 of 265

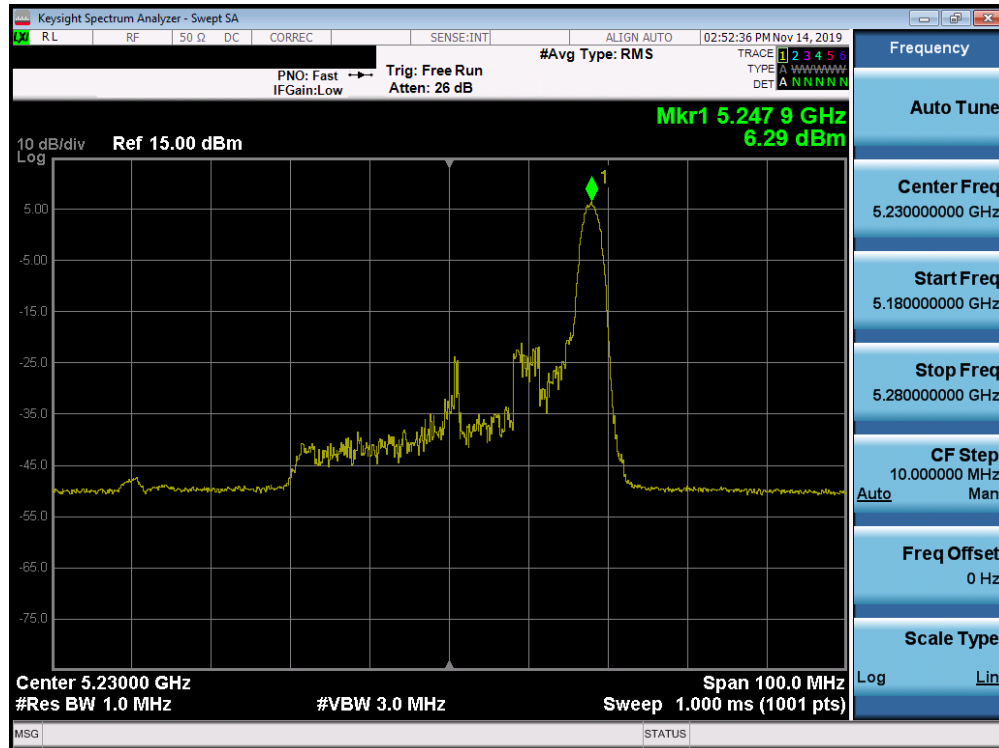


Plot 7-165. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

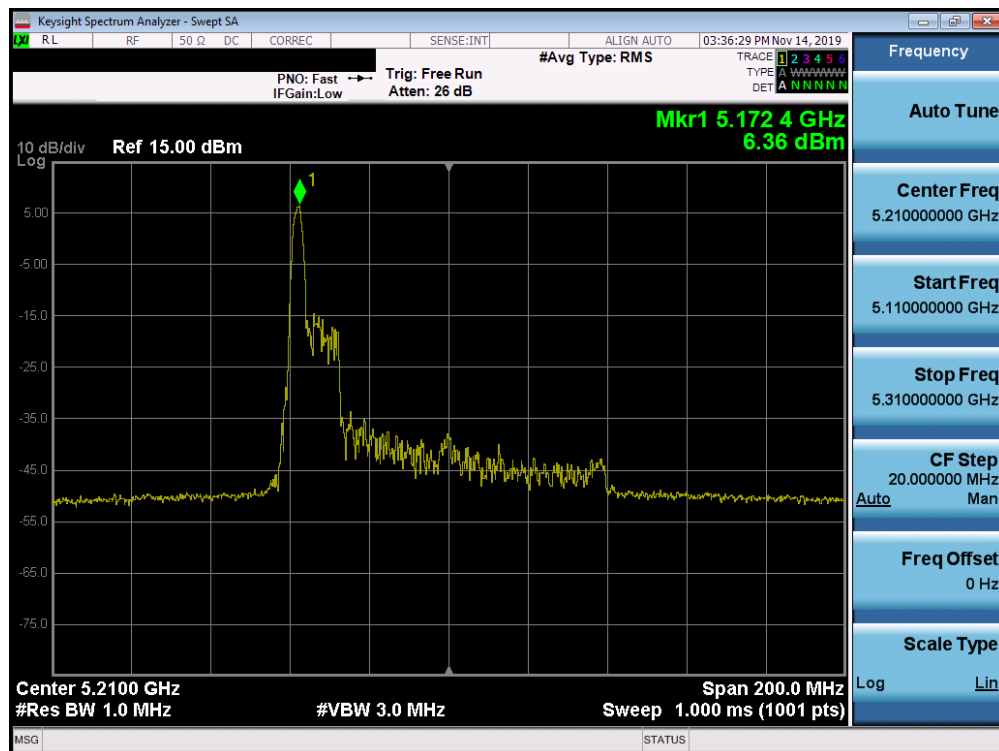


Plot 7-166. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 133 of 265

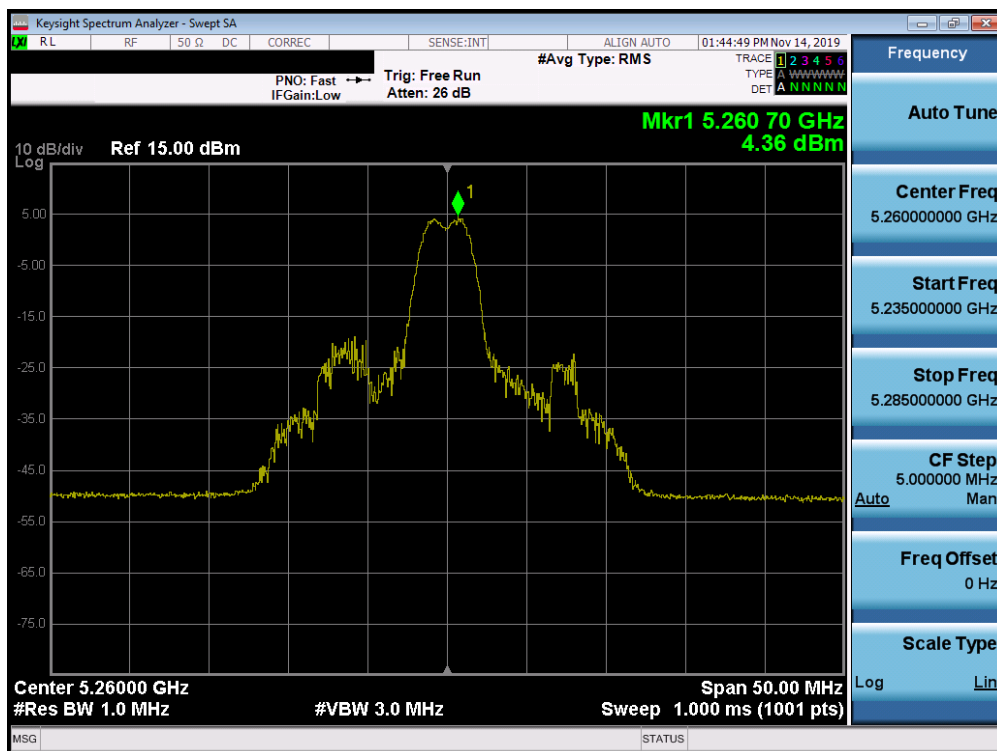


Plot 7-167. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

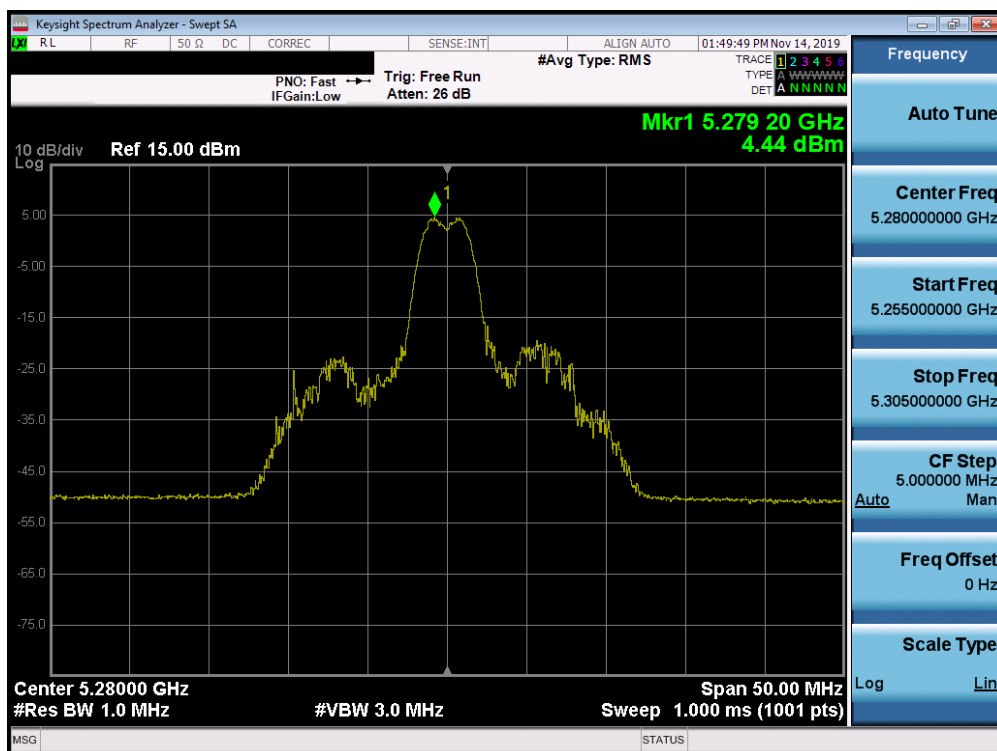


Plot 7-168. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 134 of 265

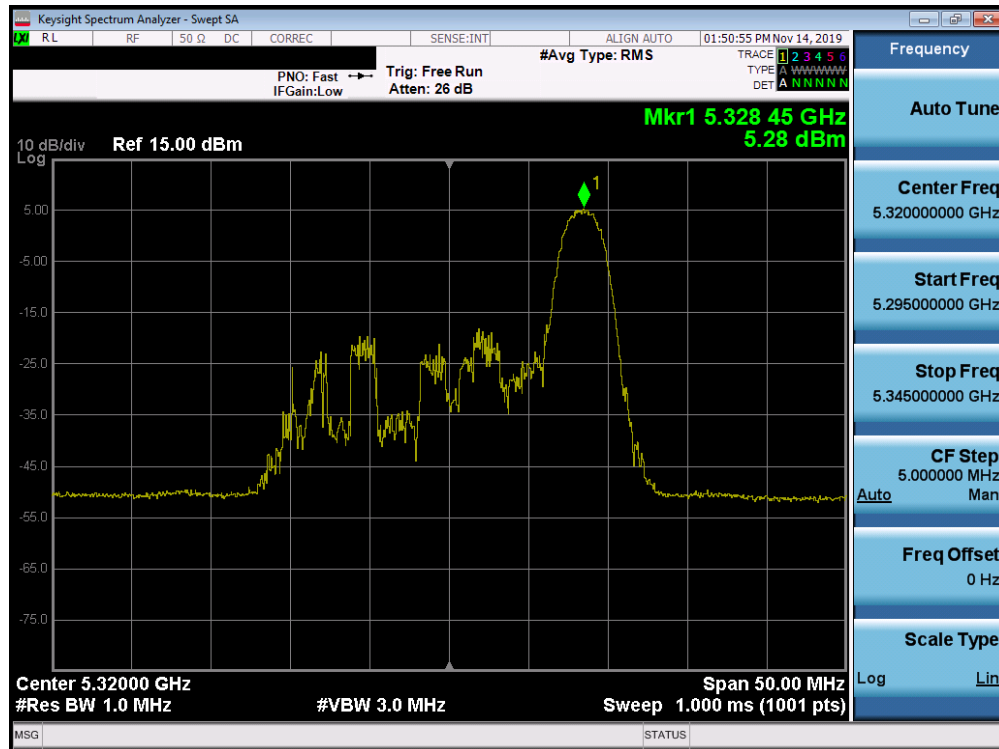


Plot 7-169. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

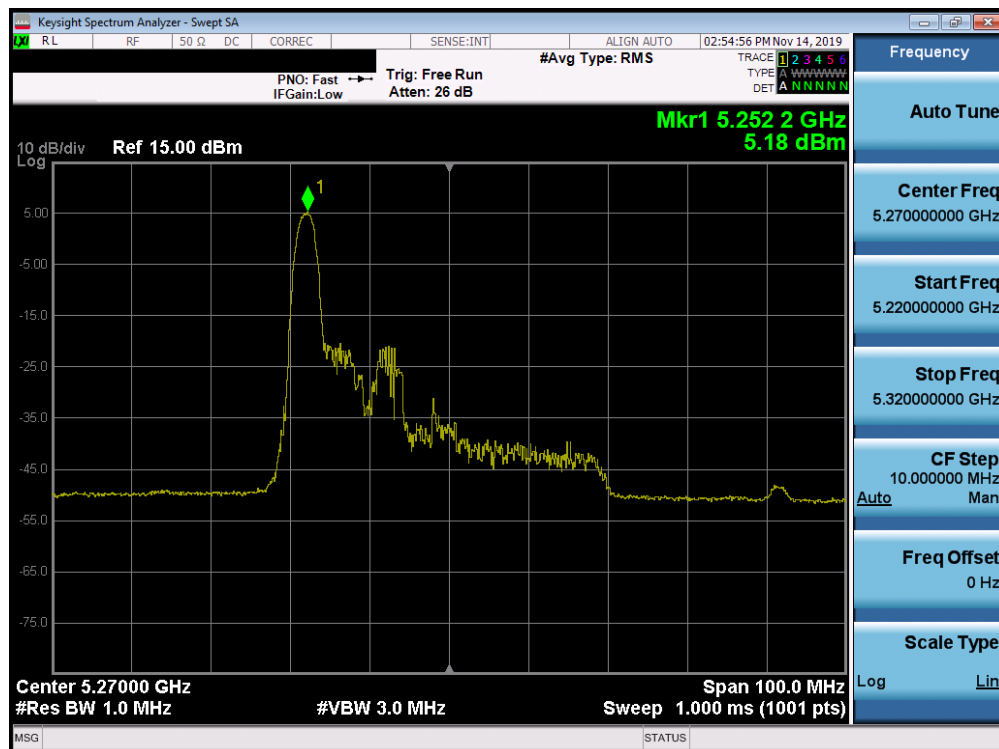


Plot 7-170. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 135 of 265

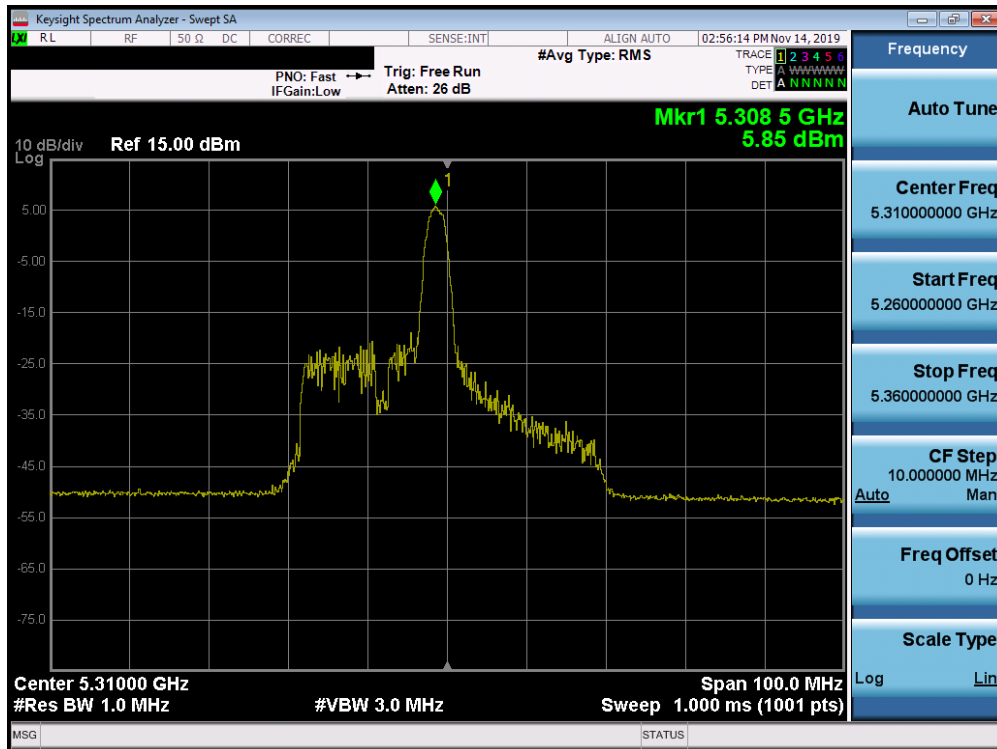


Plot 7-171. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

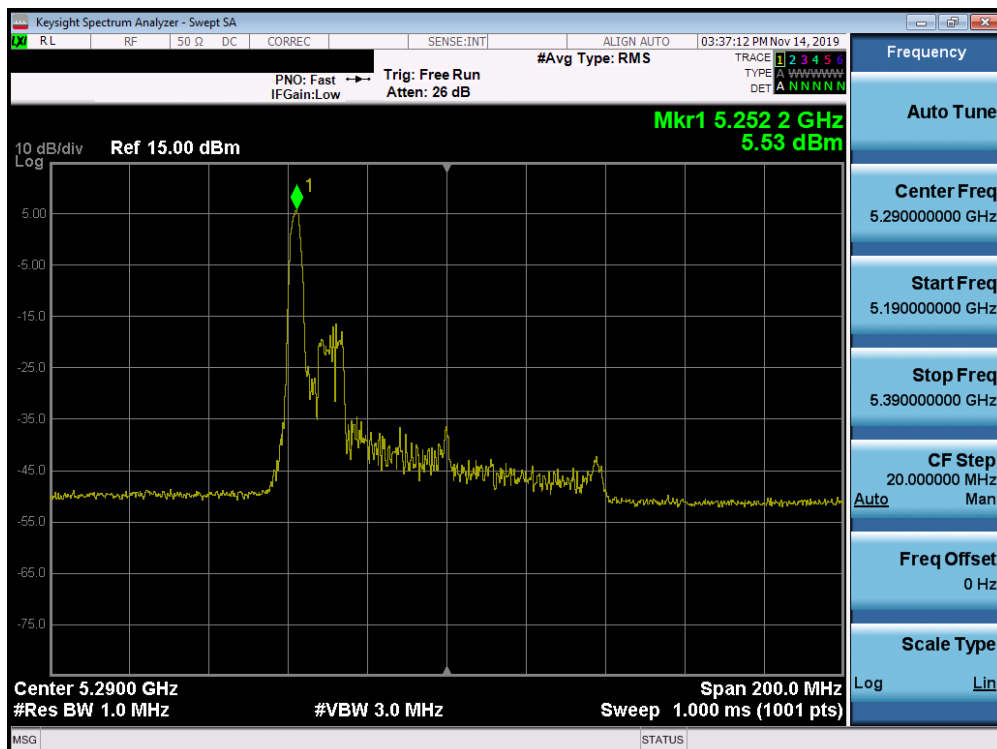


Plot 7-172. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 136 of 265

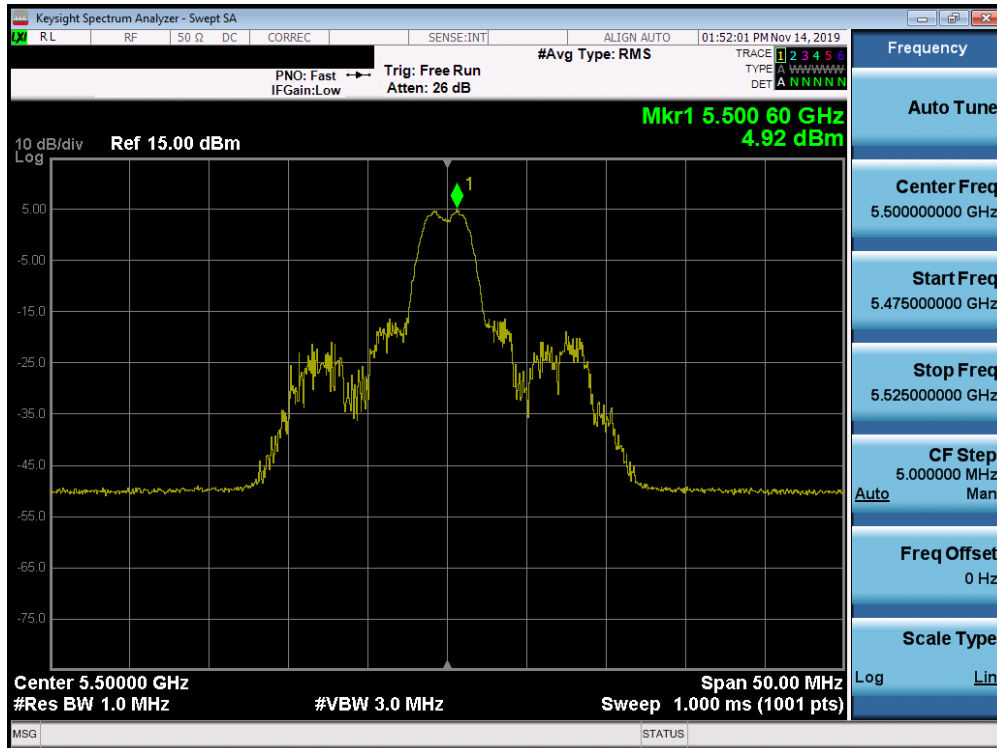


Plot 7-173. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)

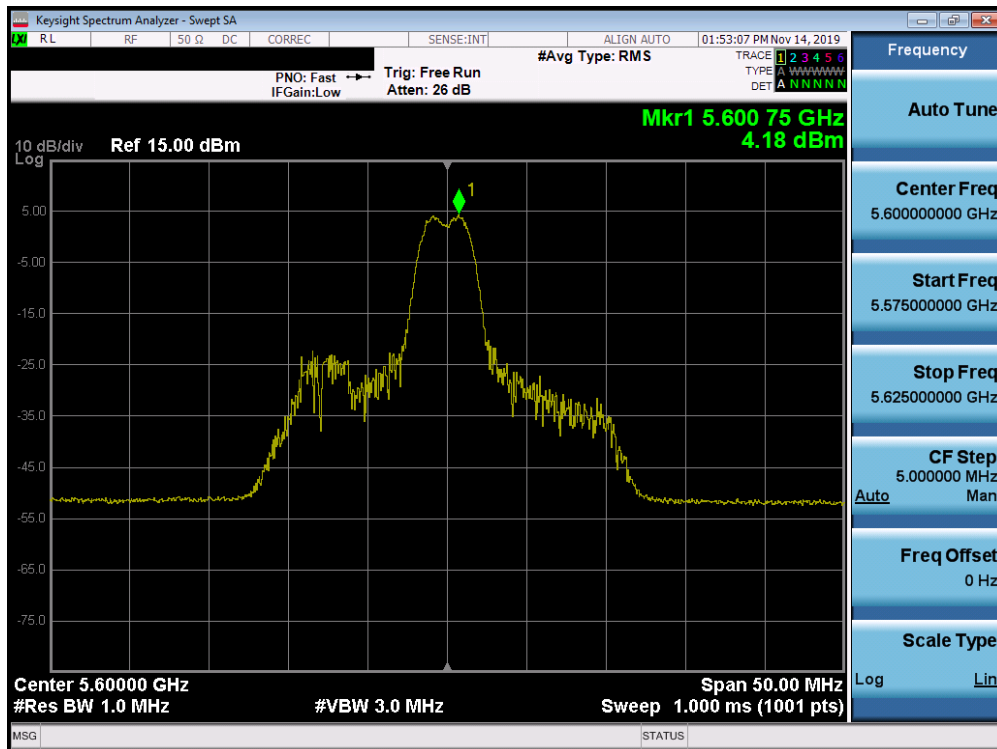


Plot 7-174. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 - 01/15/20	EUT Type: Portable Handset	Page 137 of 265

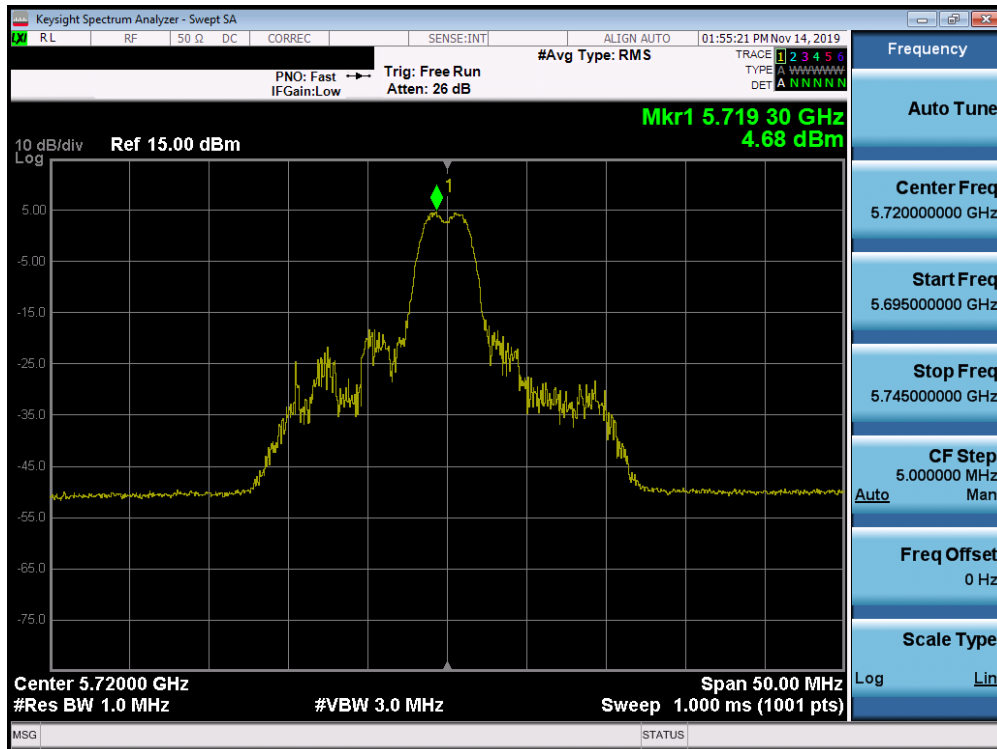


Plot 7-175. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

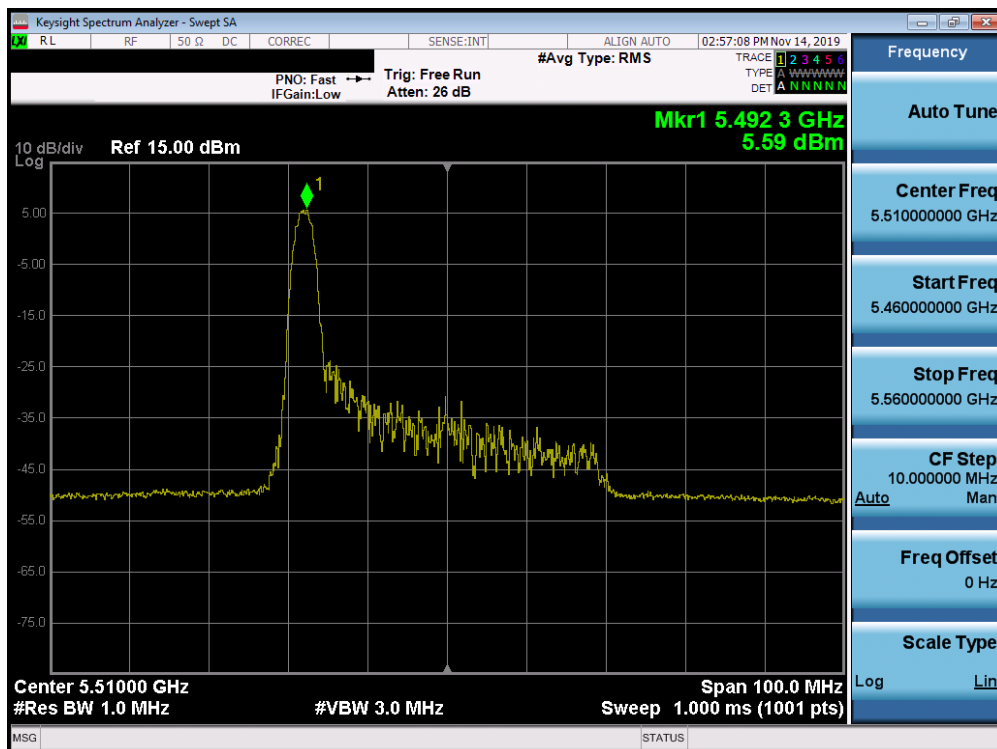


Plot 7-176. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 138 of 265

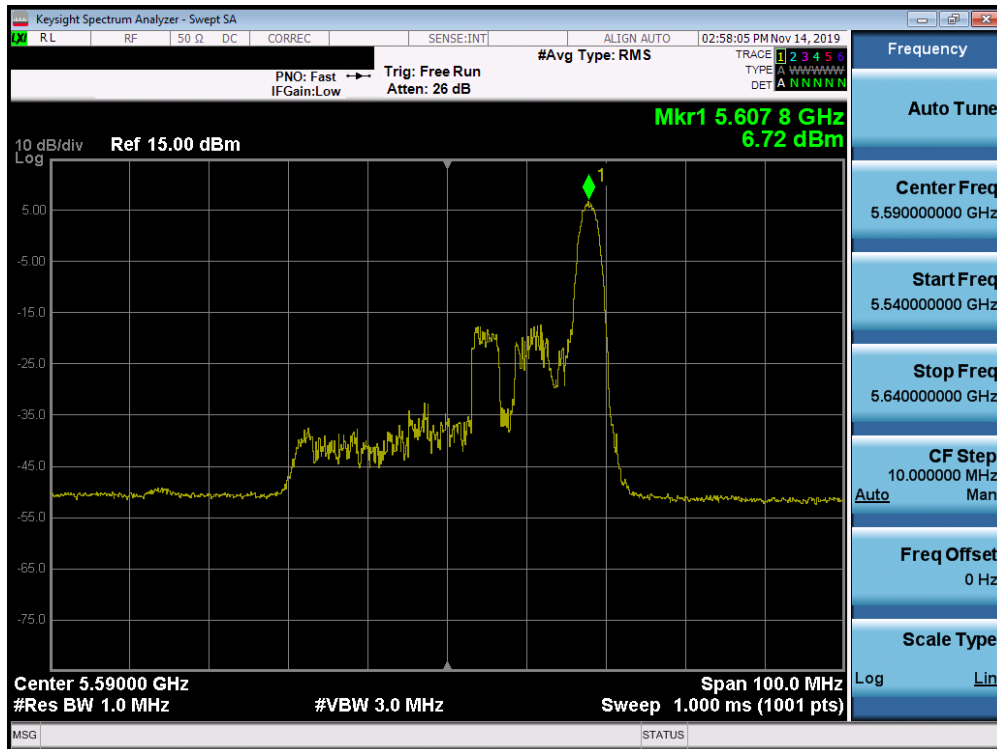


Plot 7-177. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

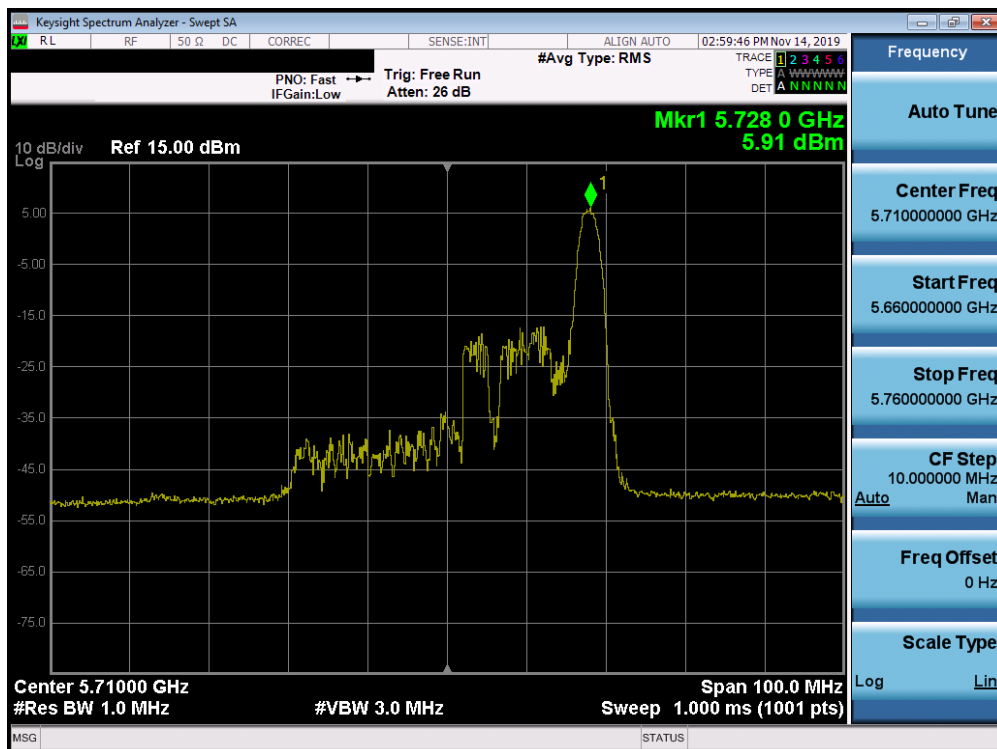


Plot 7-178. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 139 of 265

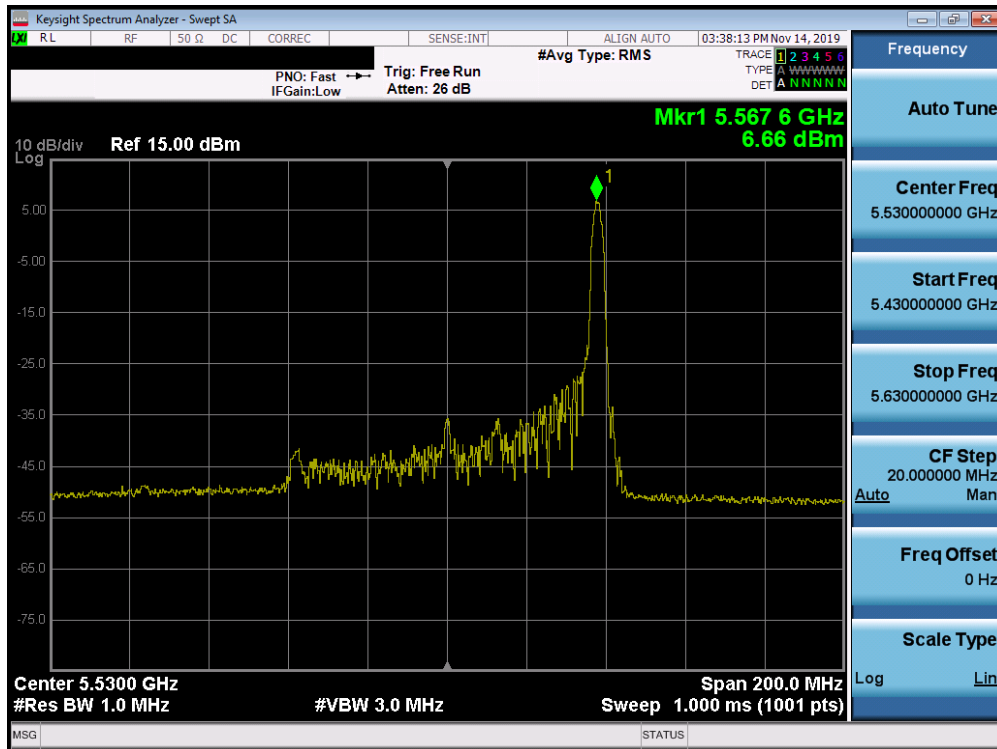


Plot 7-179. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

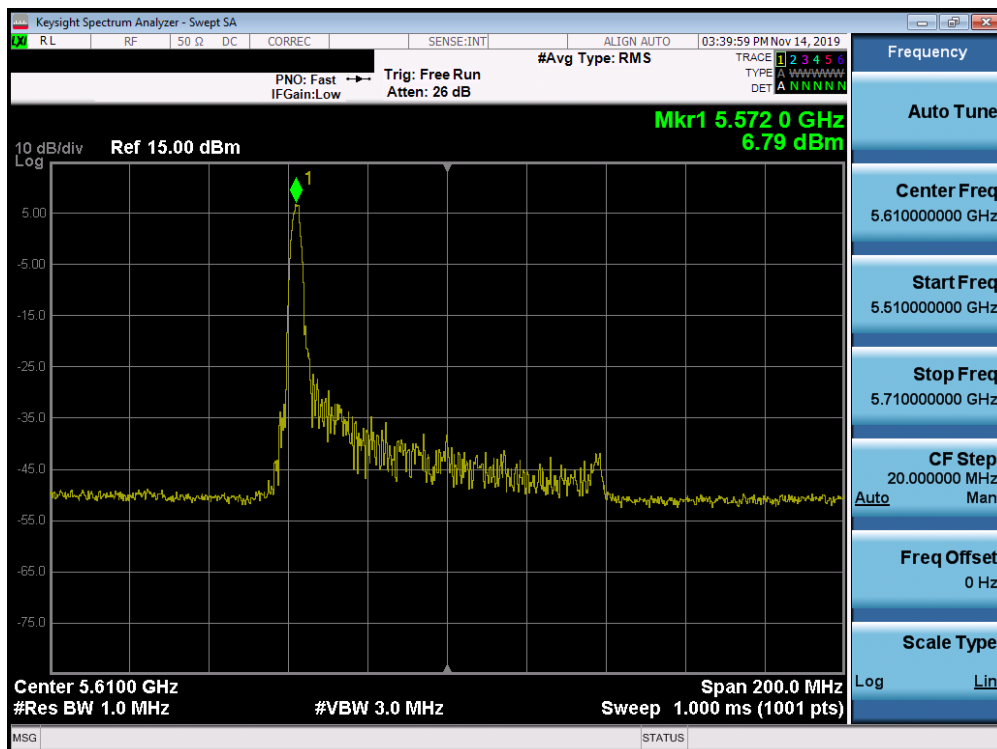


Plot 7-180. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 140 of 265

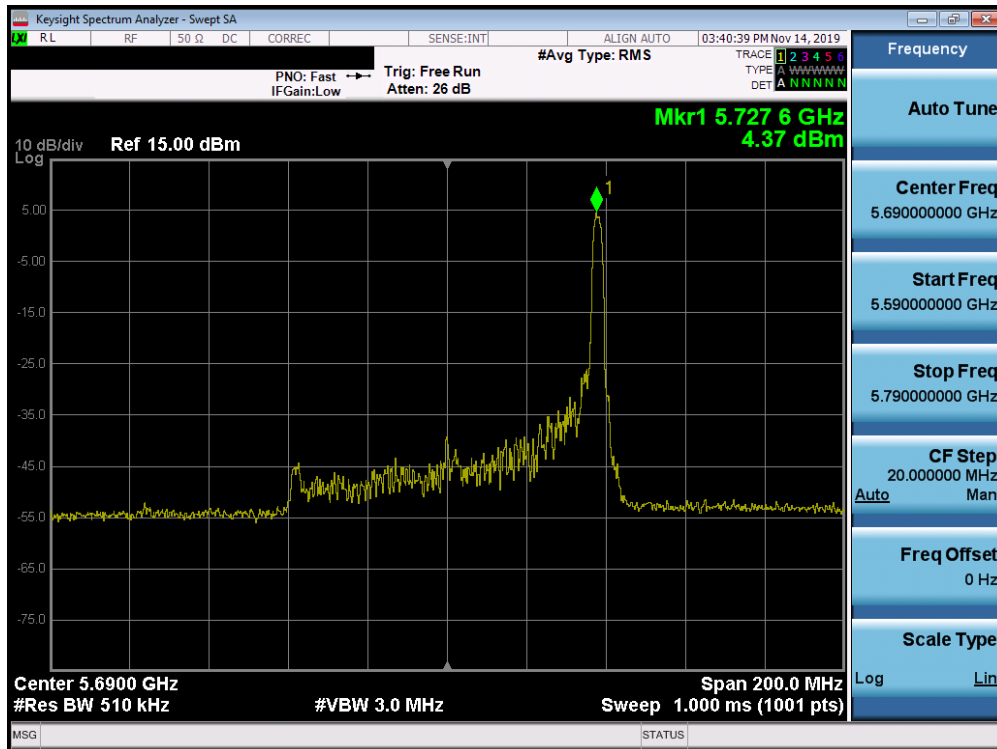


Plot 7-181. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

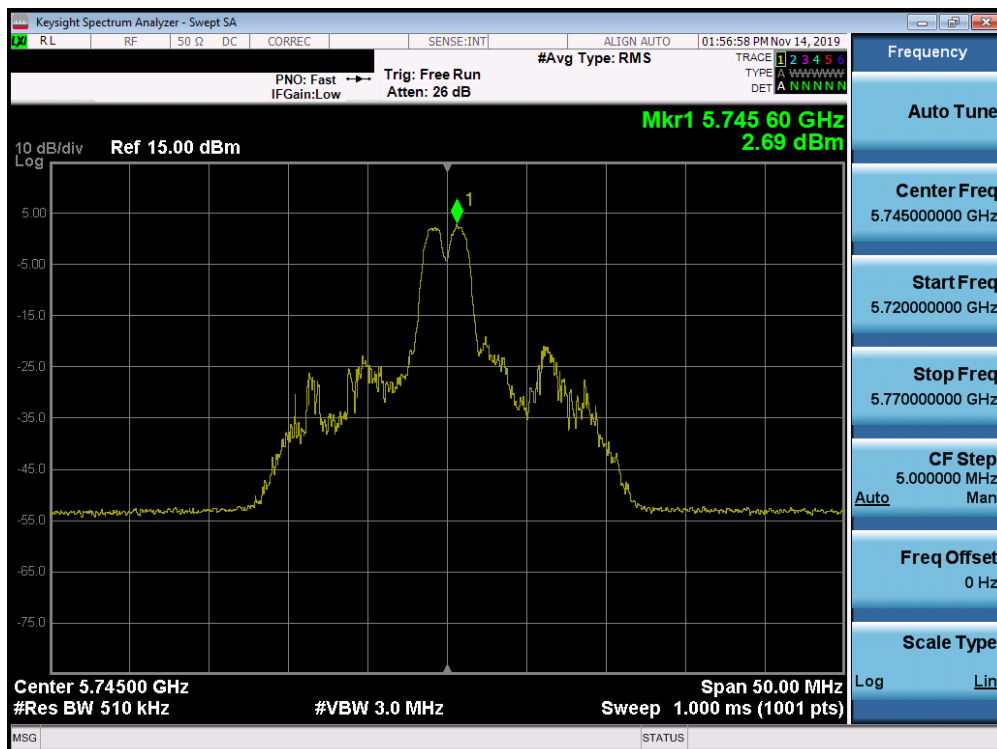


Plot 7-182. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 141 of 265

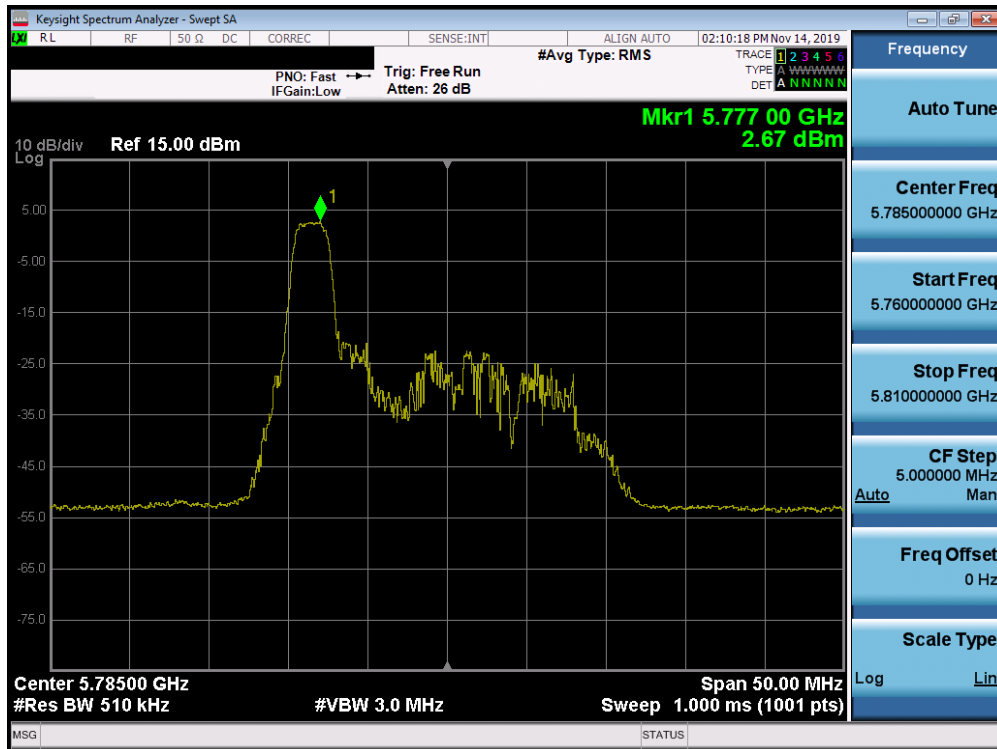


Plot 7-183. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

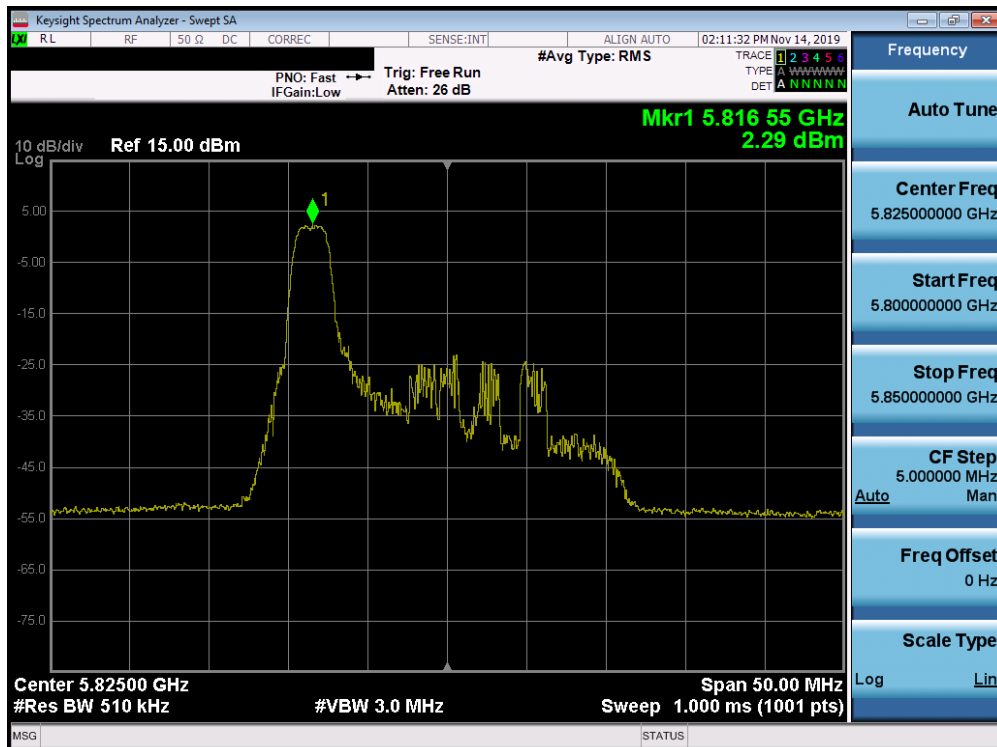


Plot 7-184. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 142 of 265

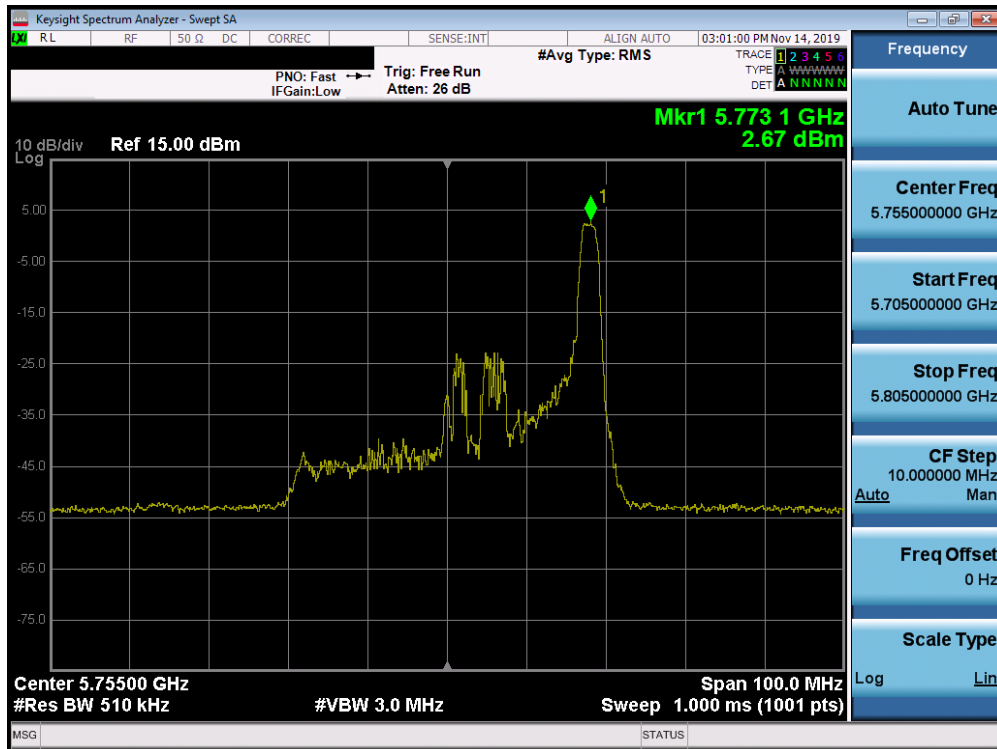


Plot 7-185. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

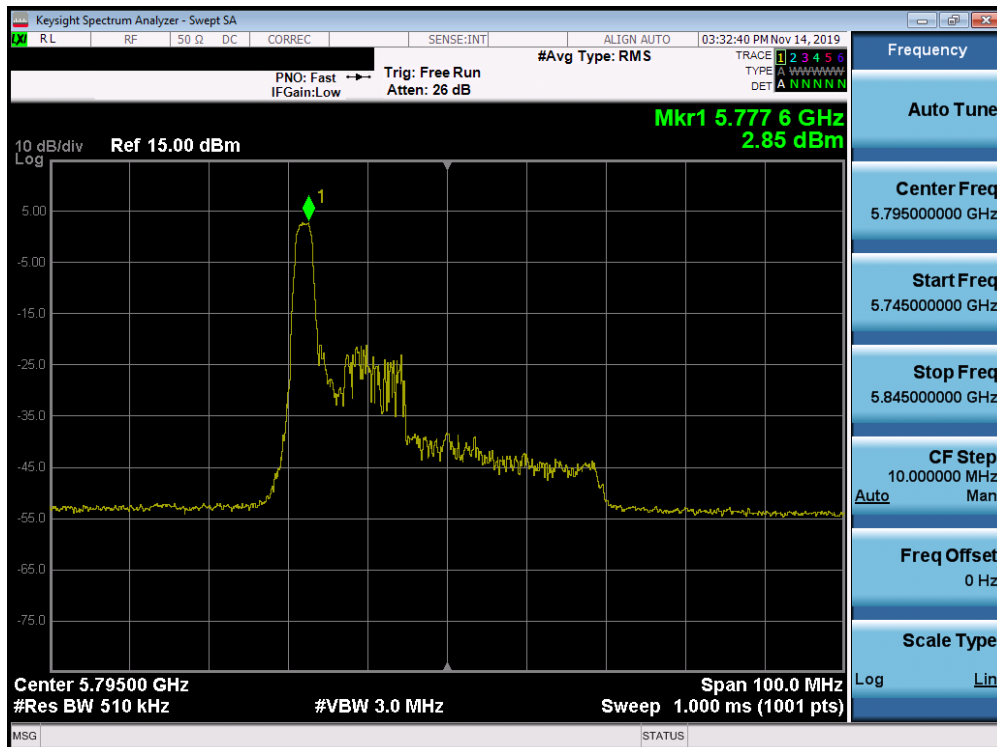


Plot 7-186. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 143 of 265

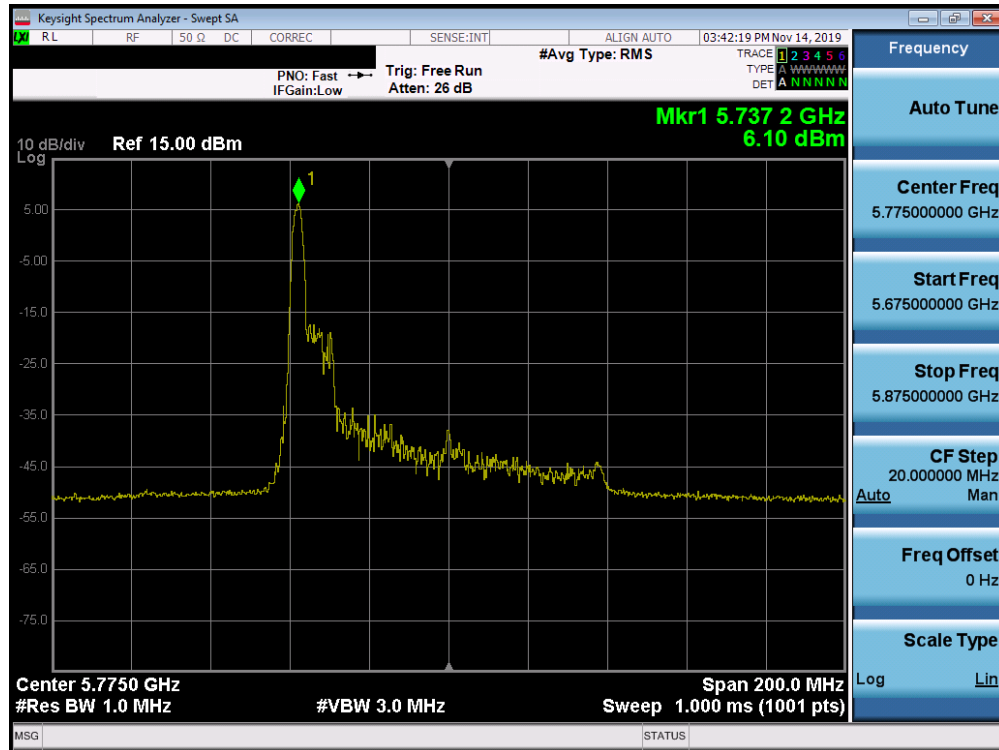


Plot 7-187. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

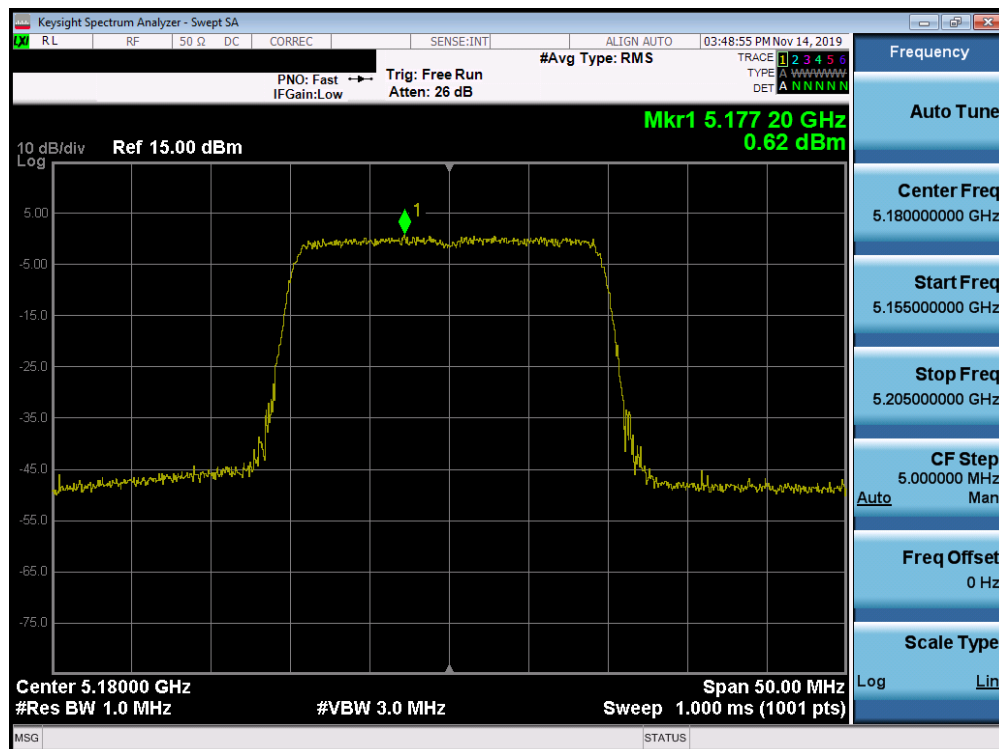


Plot 7-188. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 144 of 265

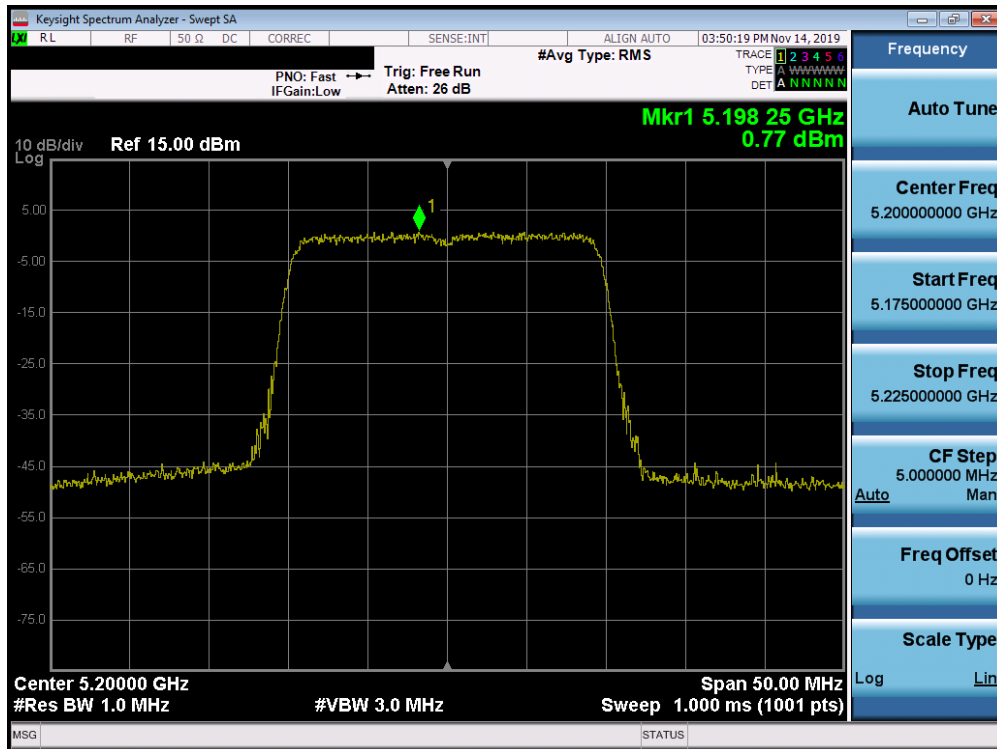


Plot 7-189. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

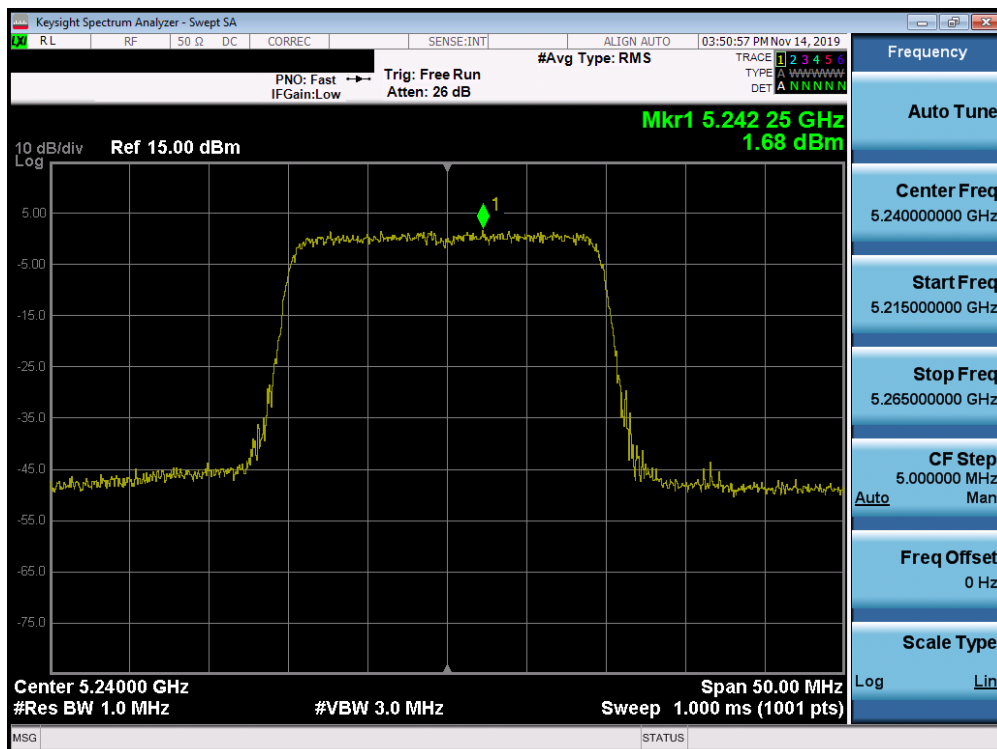


Plot 7-190. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 145 of 265

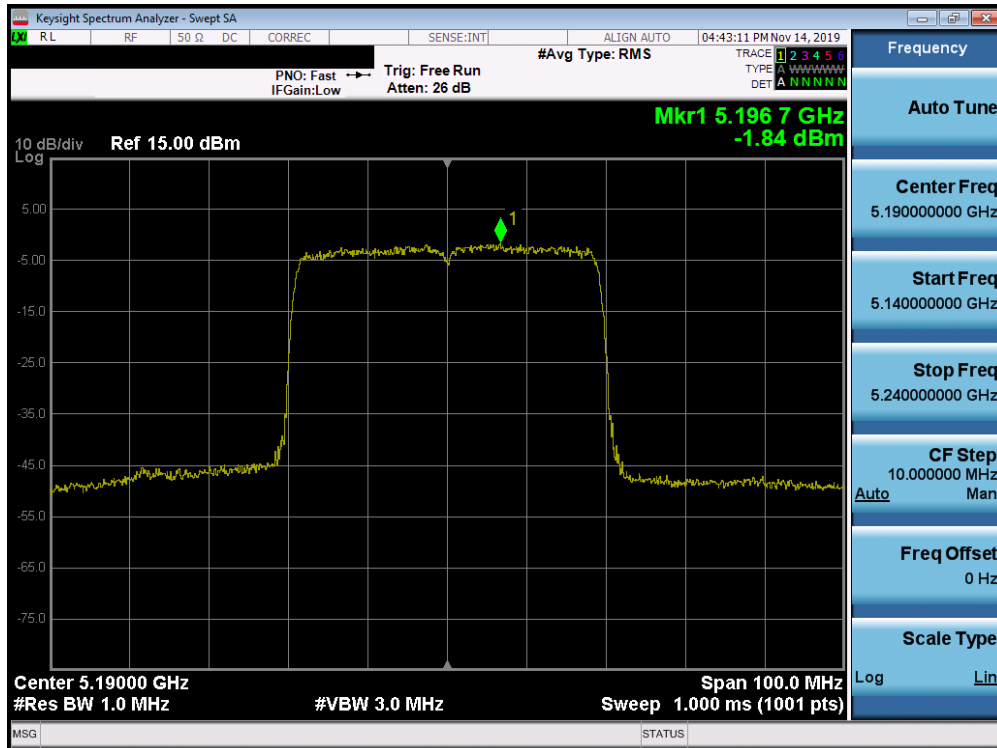


Plot 7-191. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

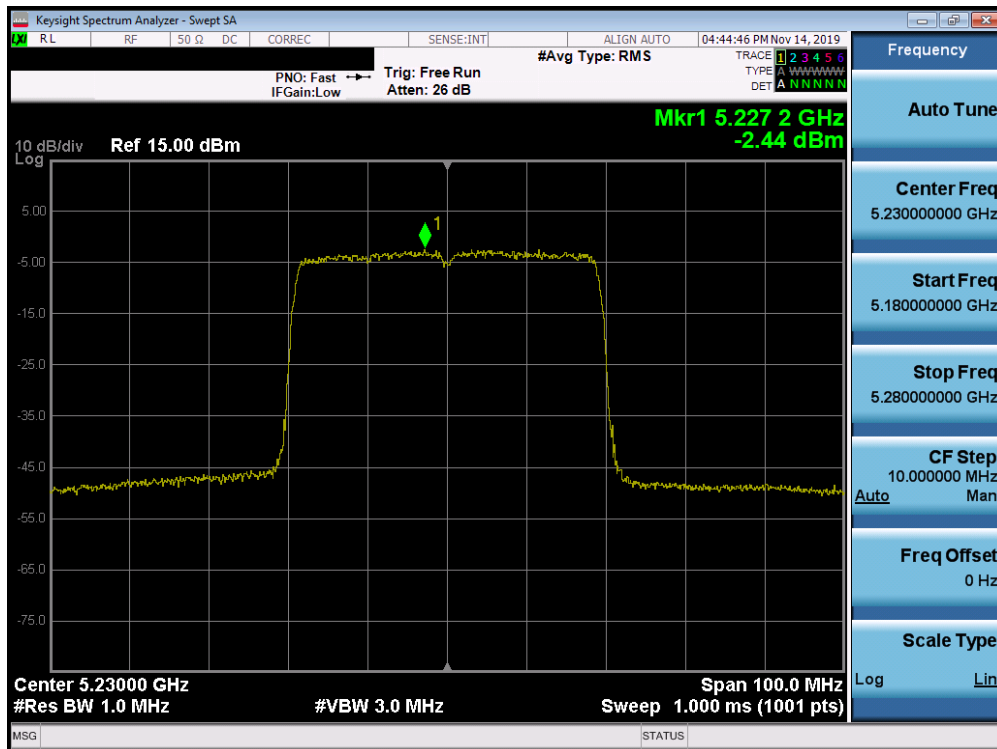


Plot 7-192. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 146 of 265

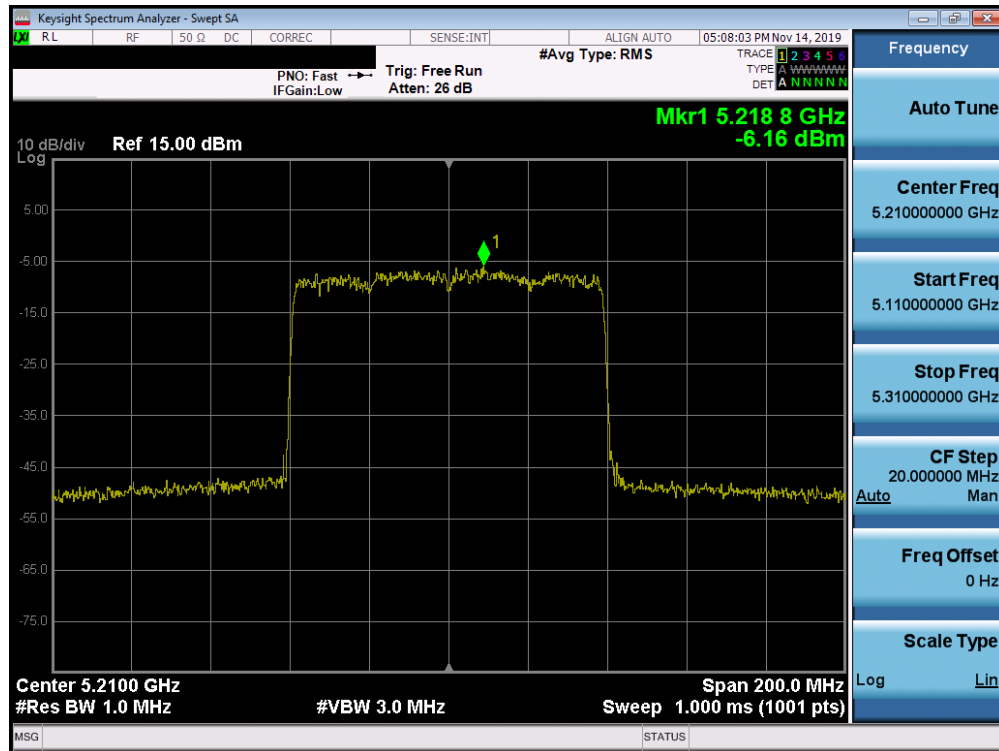


Plot 7-193. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

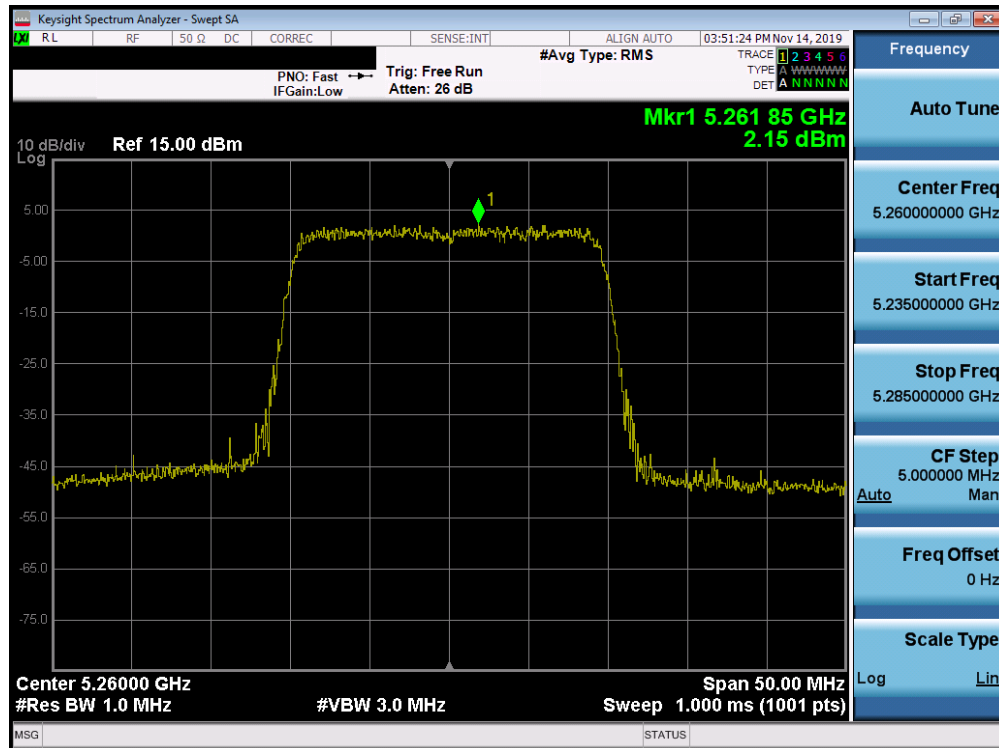


Plot 7-194. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 147 of 265

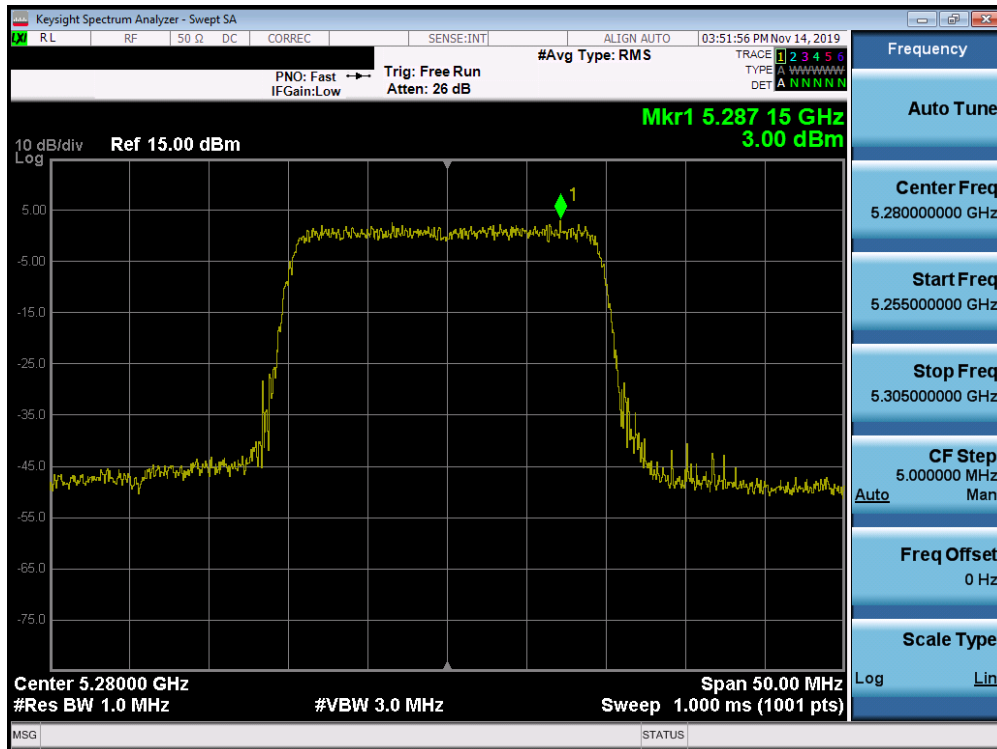


Plot 7-195. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

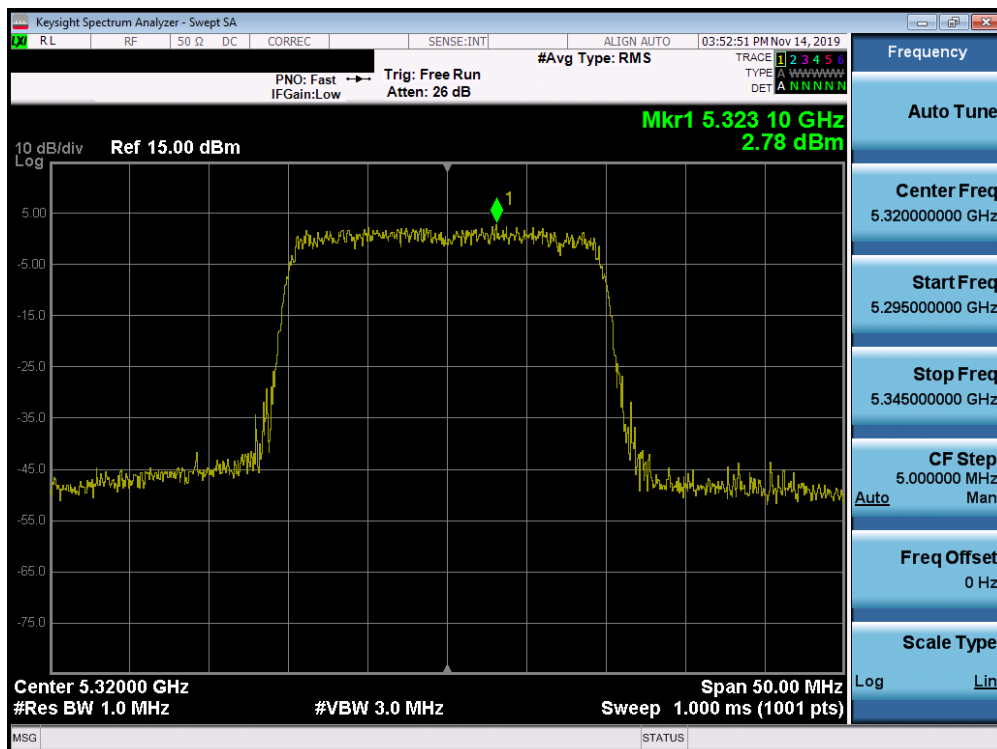


Plot 7-196. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 148 of 265

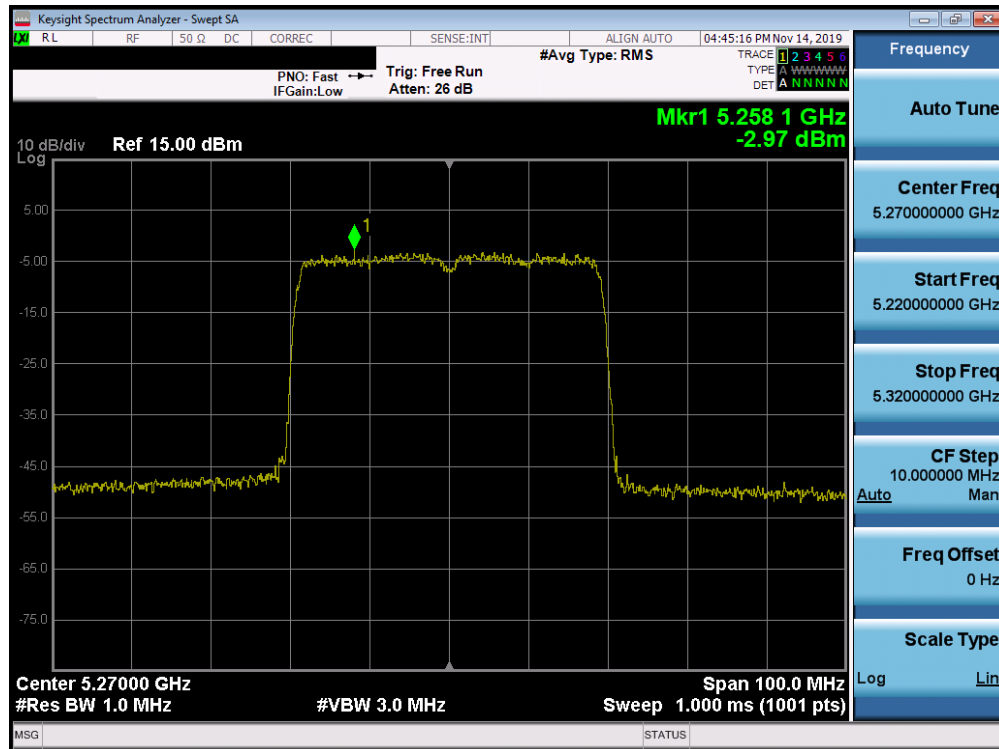


Plot 7-197. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

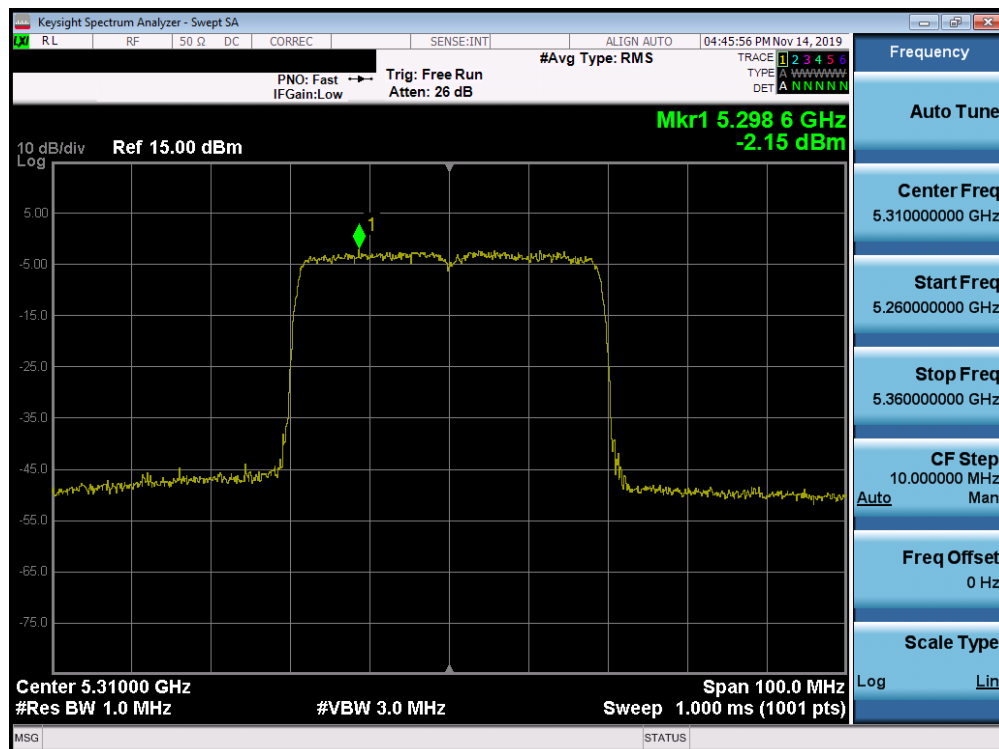


Plot 7-198. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 149 of 265

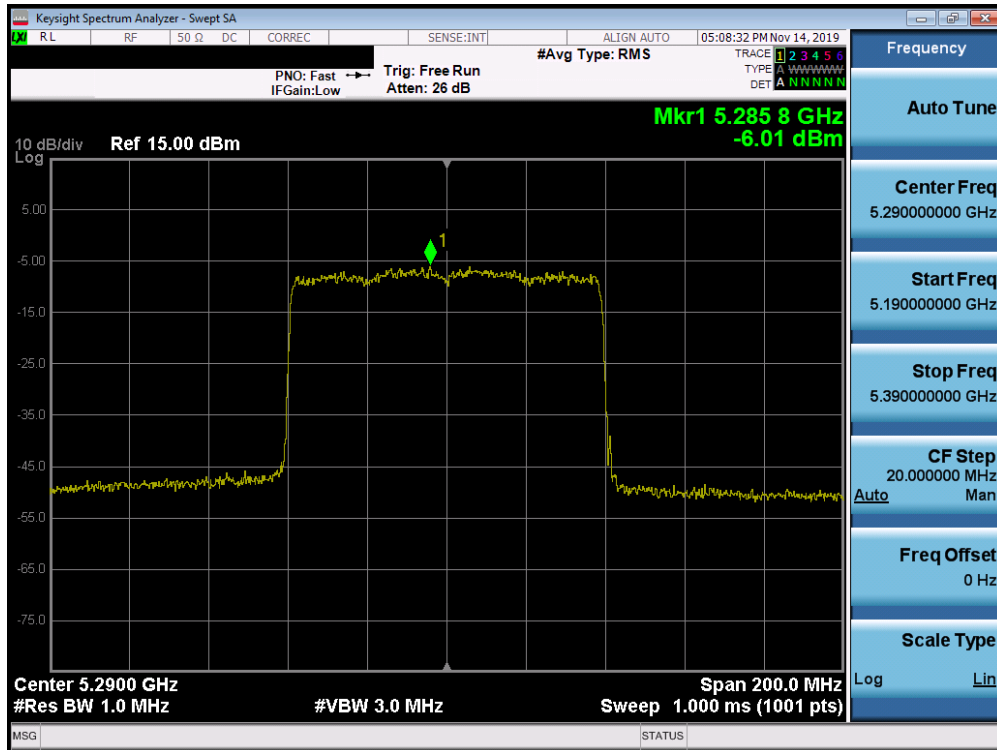


Plot 7-199. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

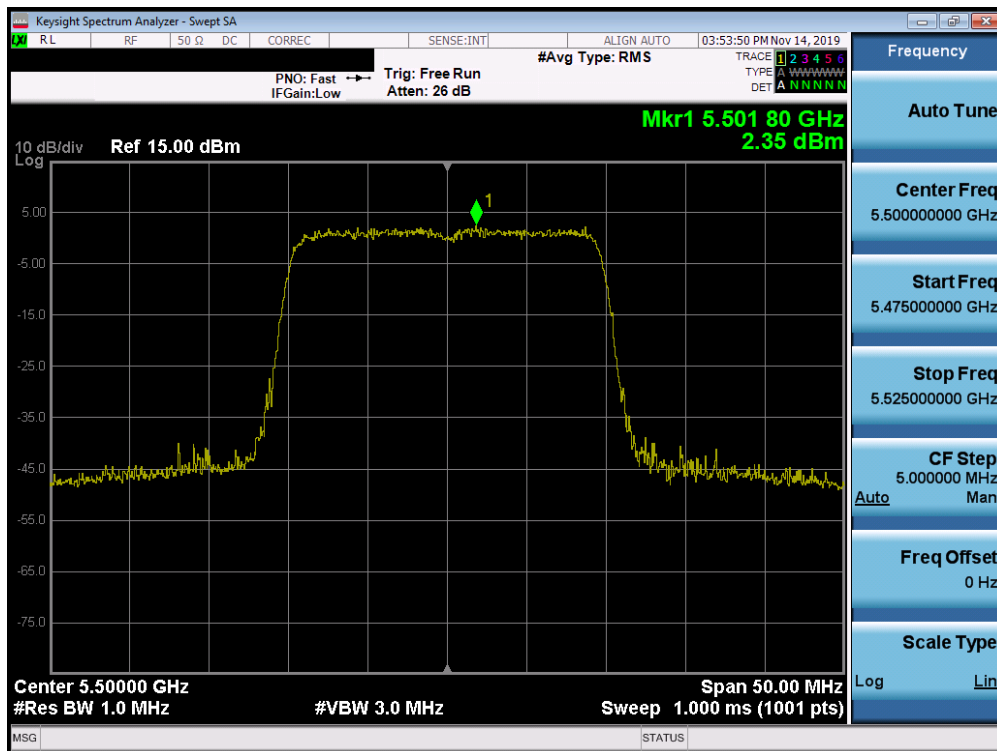


Plot 7-200. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 150 of 265

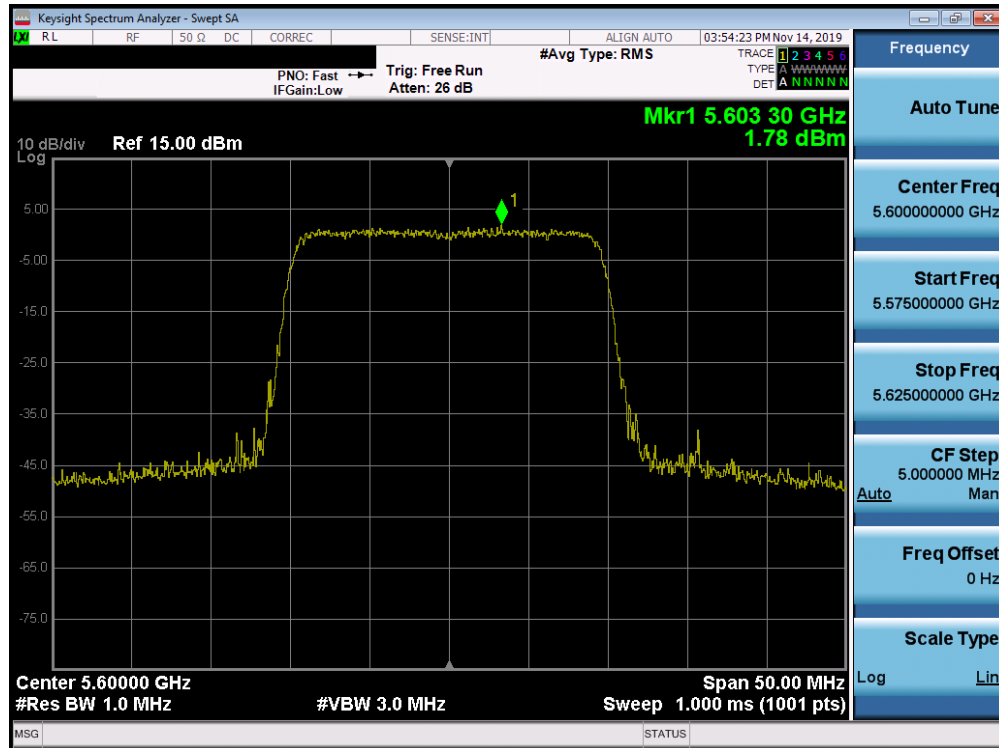


Plot 7-201. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

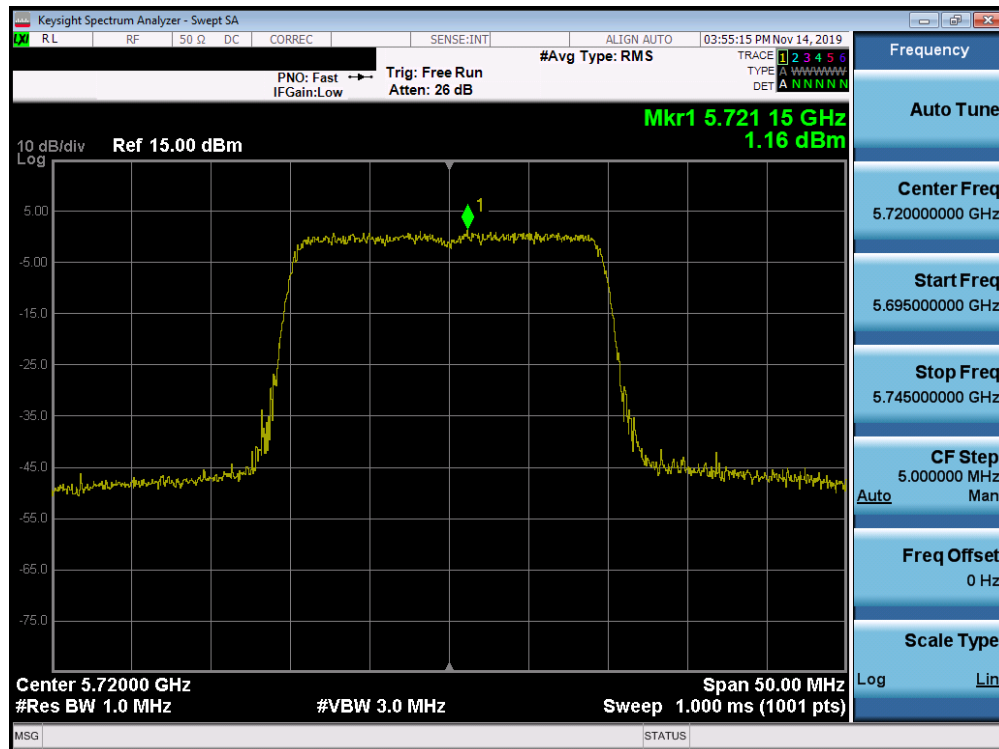


Plot 7-202. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 151 of 265

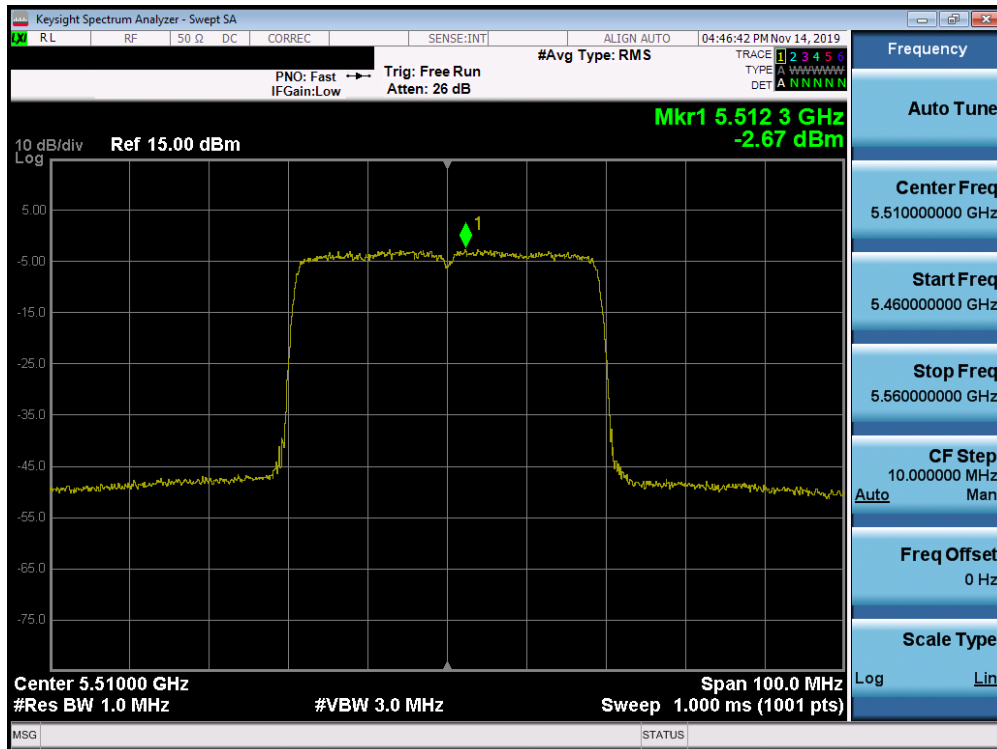


Plot 7-203. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

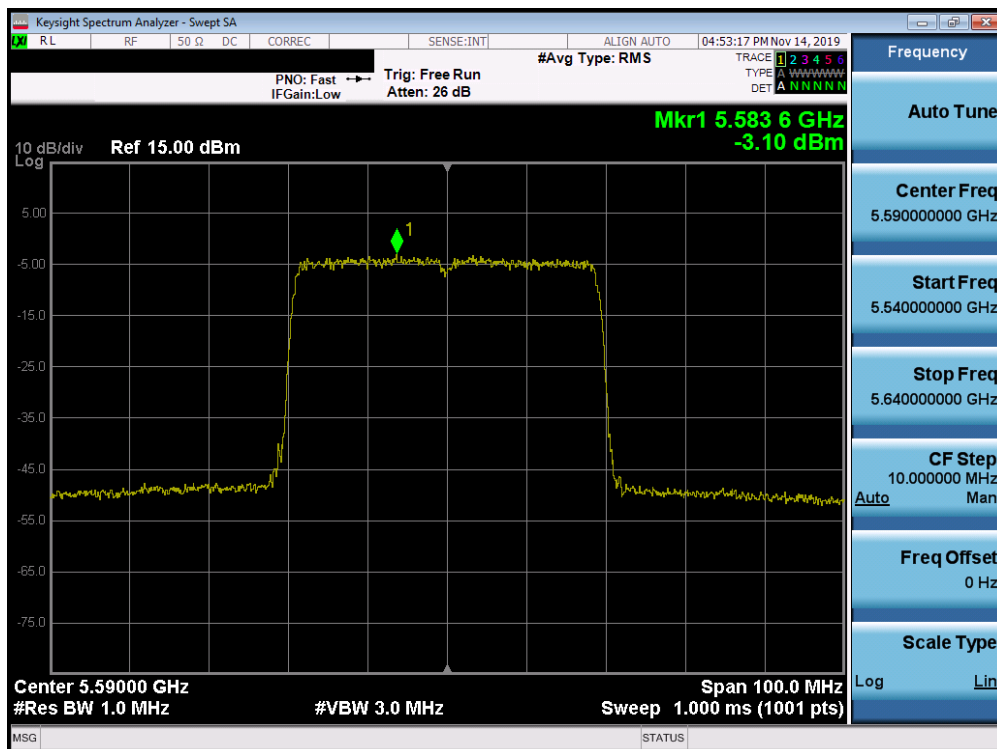


Plot 7-204. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 152 of 265

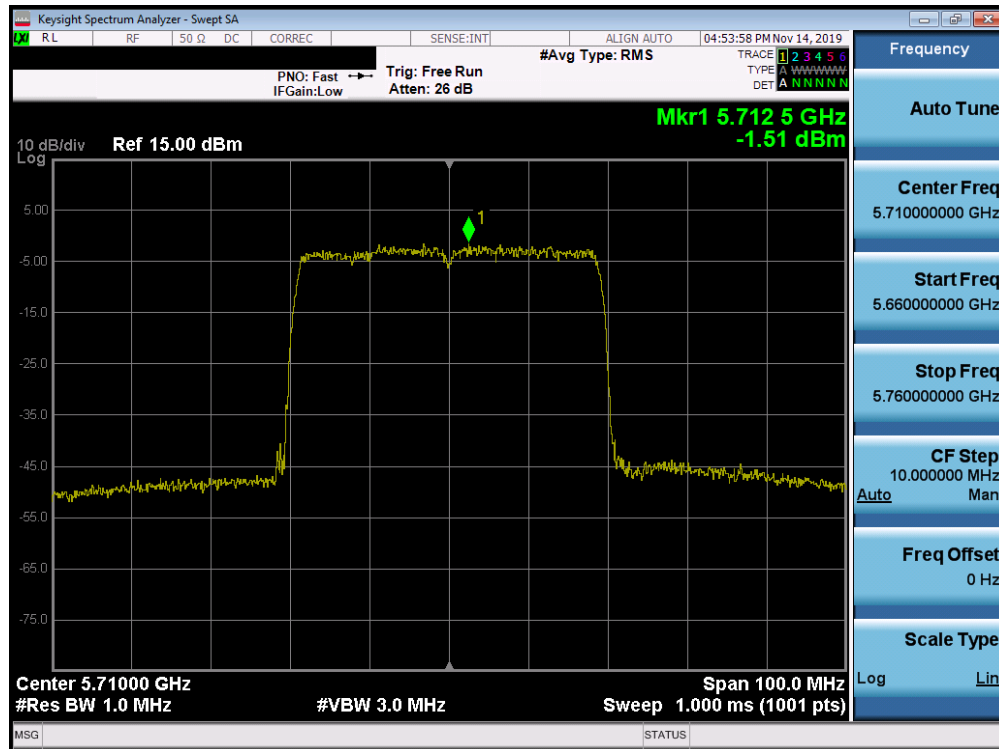


Plot 7-205. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

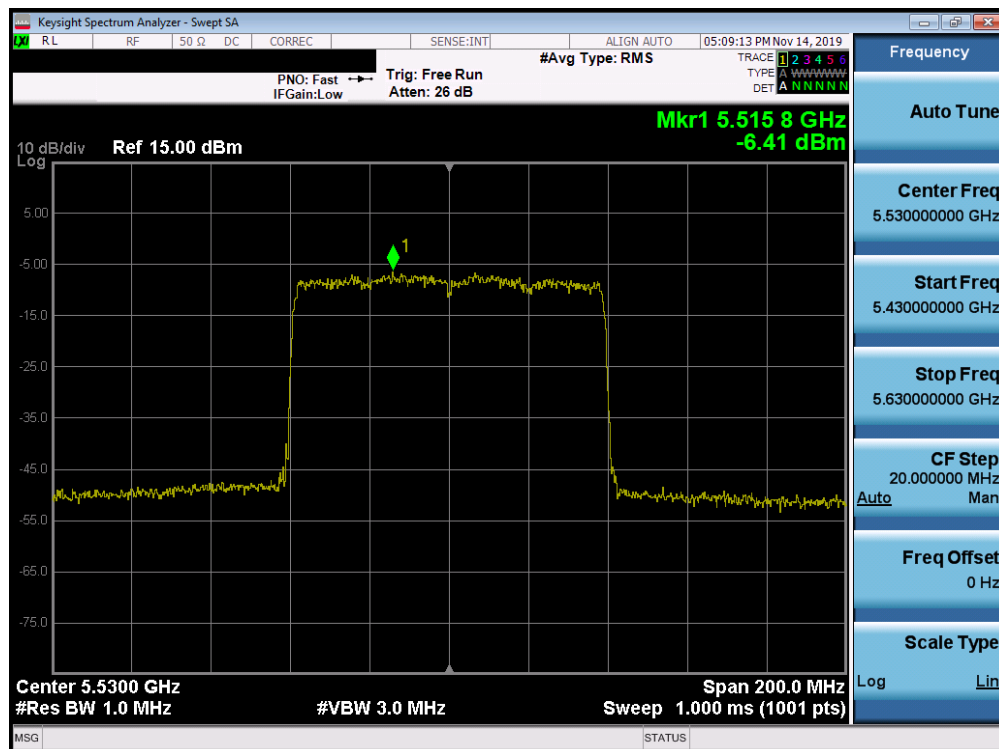


Plot 7-206. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 153 of 265

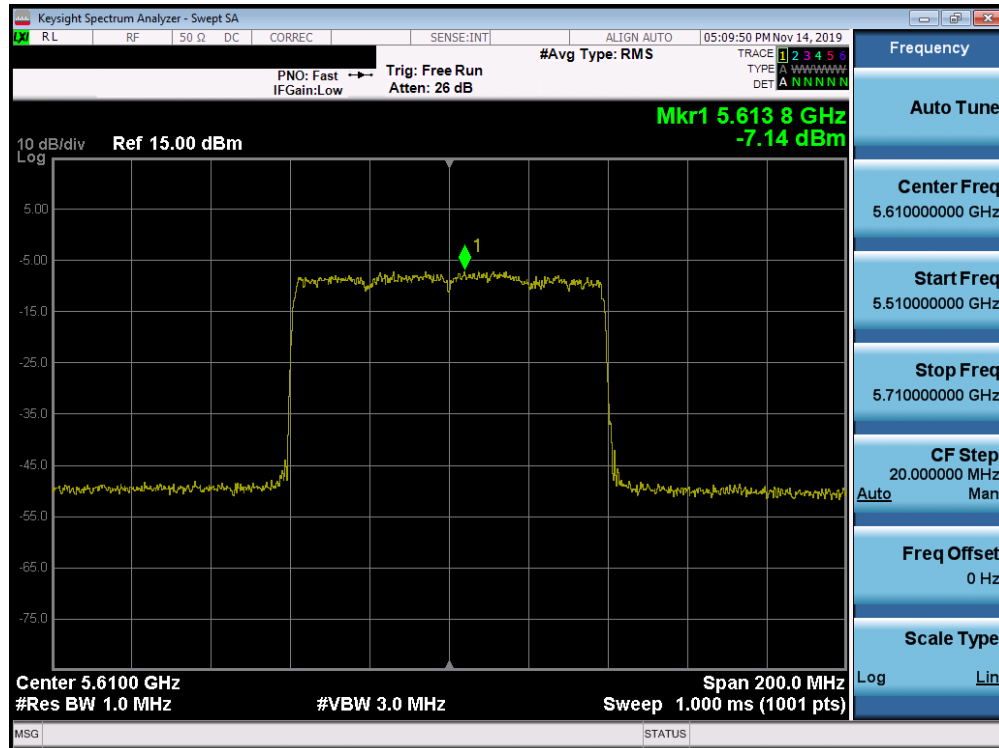


Plot 7-207. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

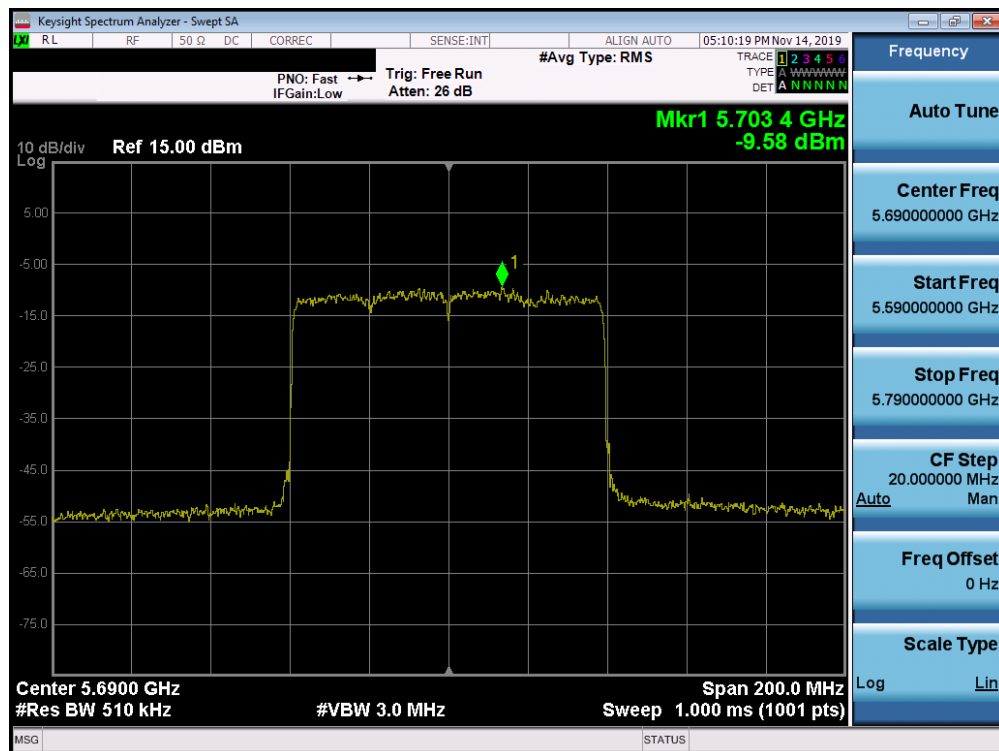


Plot 7-208. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 154 of 265

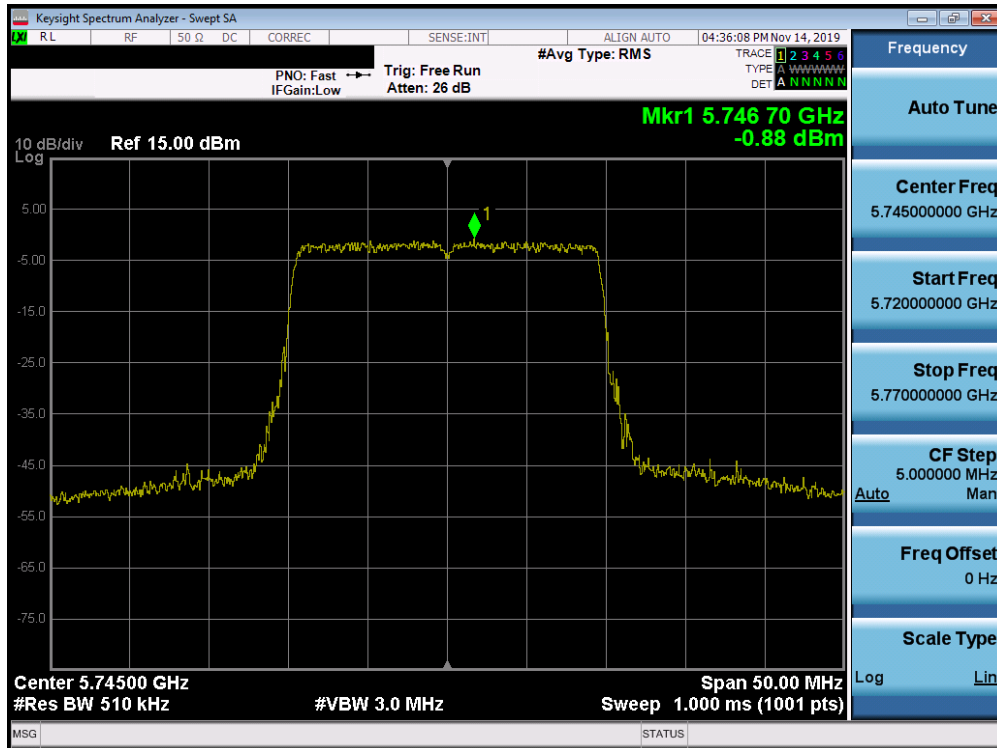


Plot 7-209. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

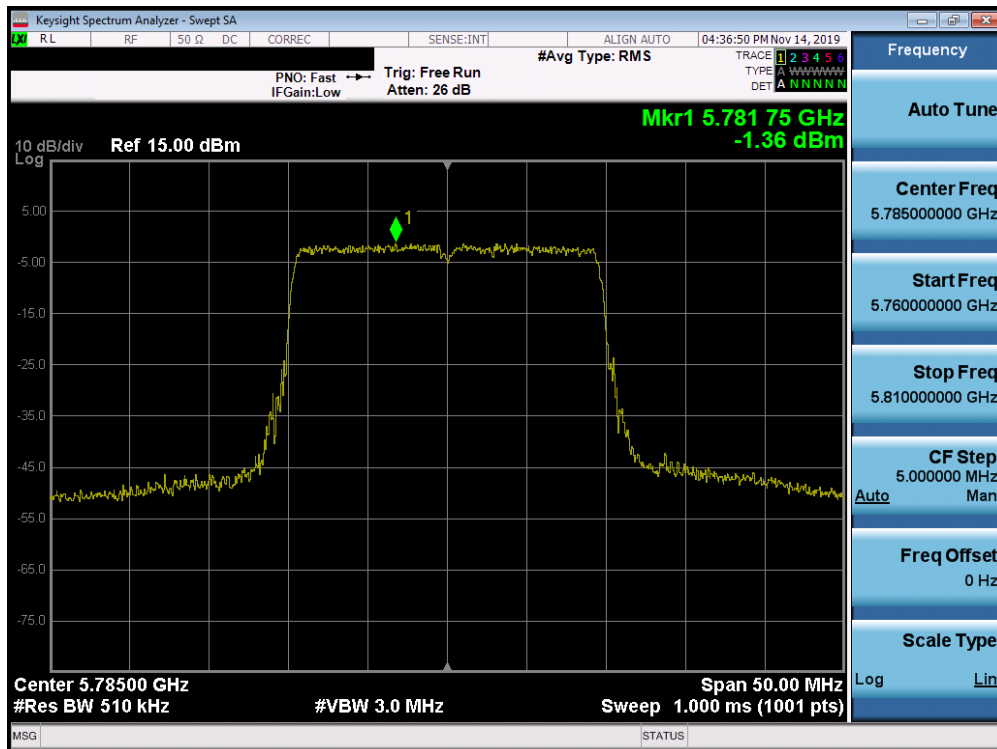


Plot 7-210. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 155 of 265

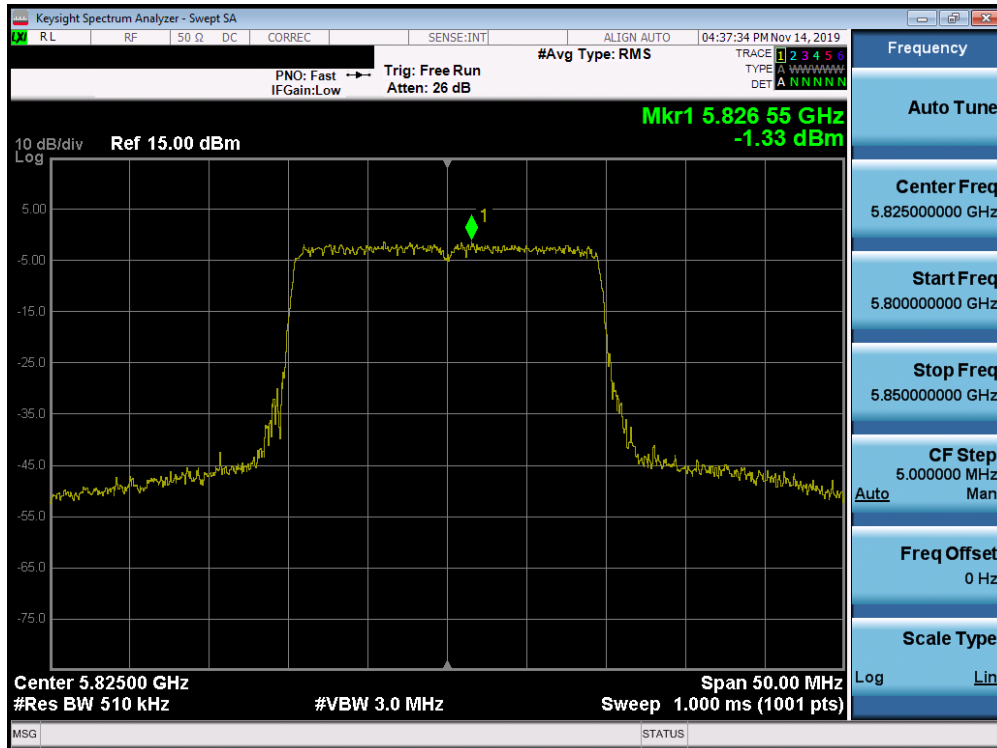


Plot 7-211. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

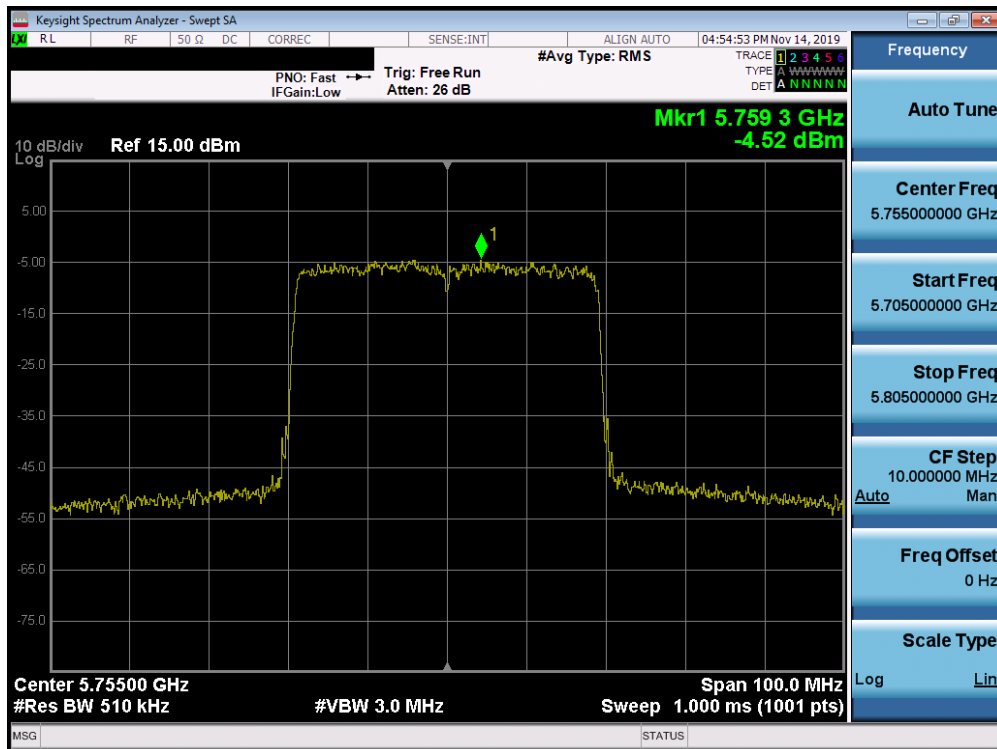


Plot 7-212. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 156 of 265

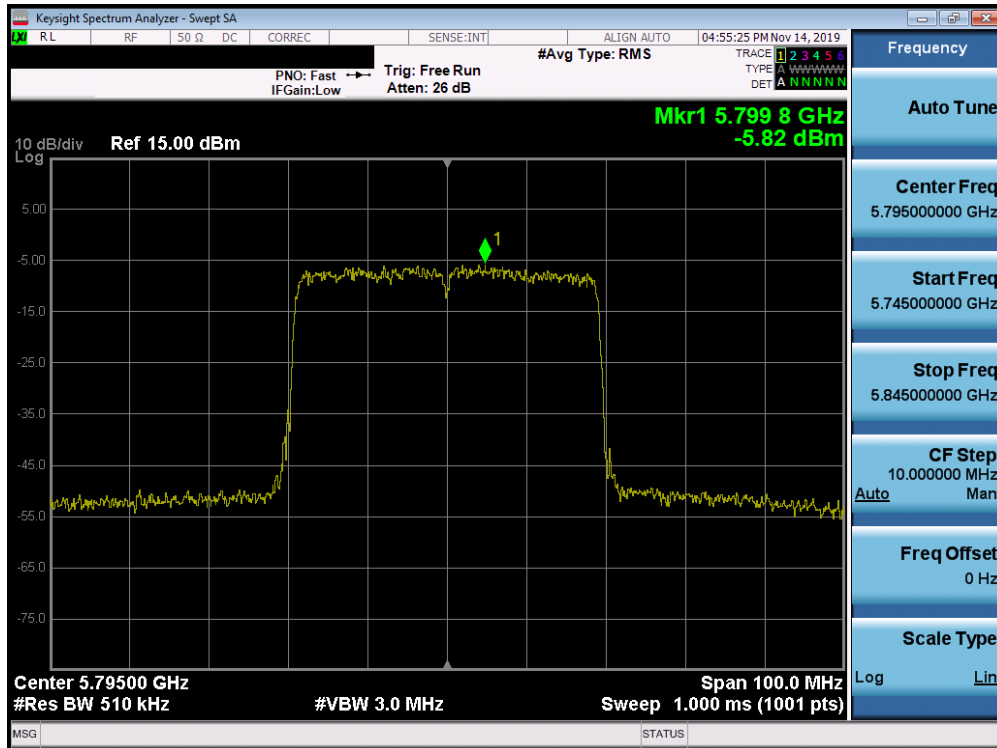


Plot 7-213. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

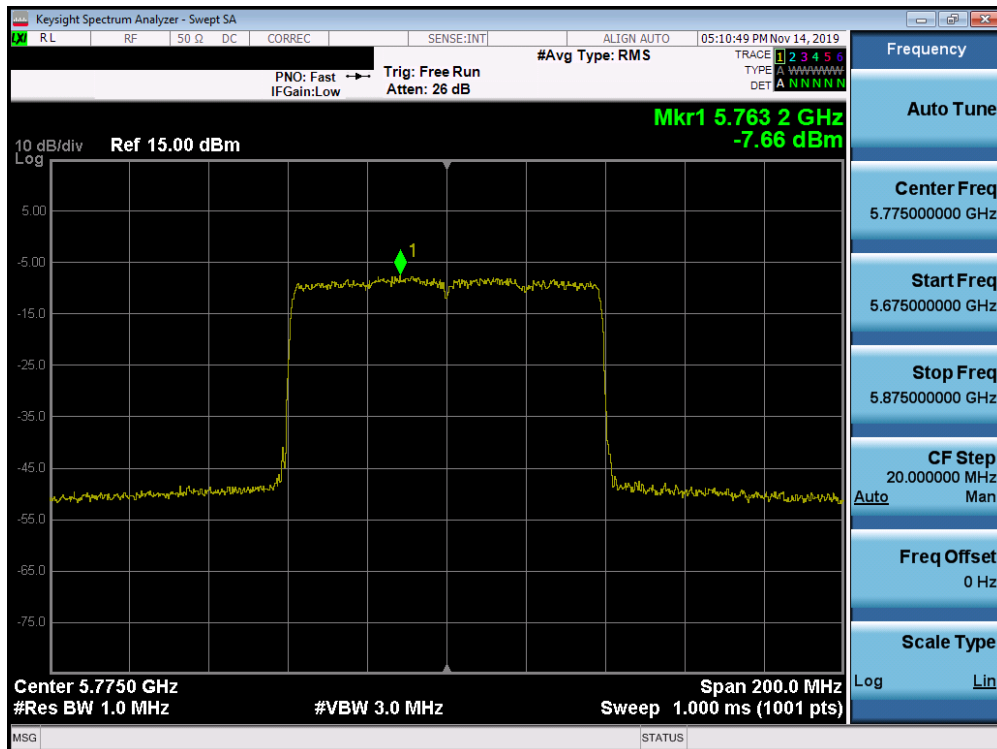


Plot 7-214. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 157 of 265



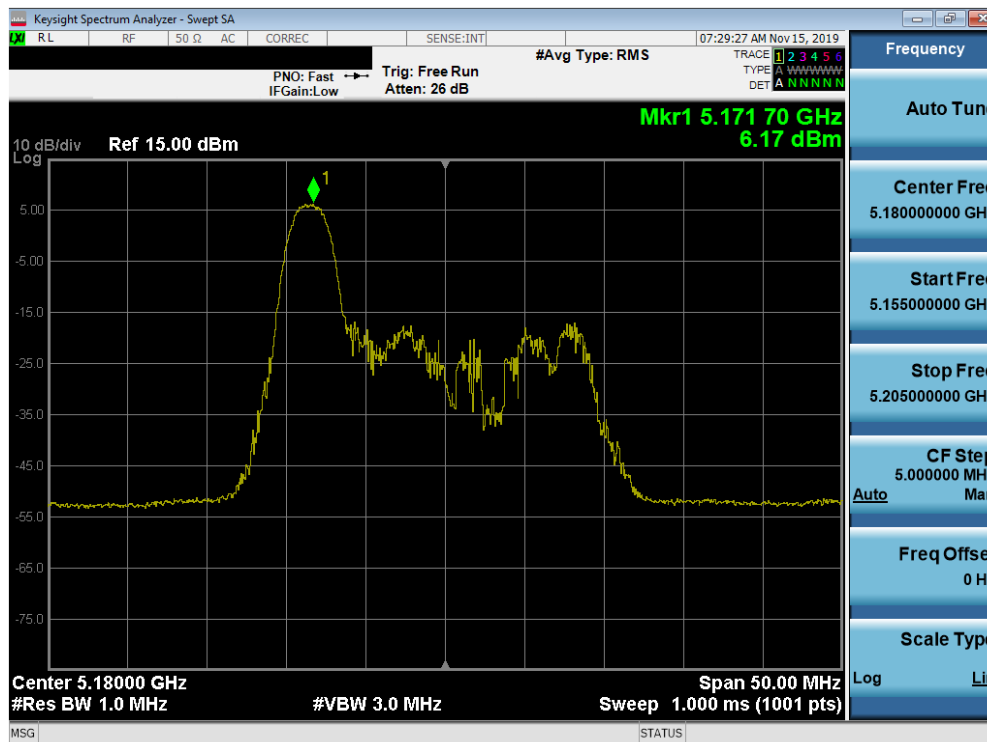
Plot 7-215. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



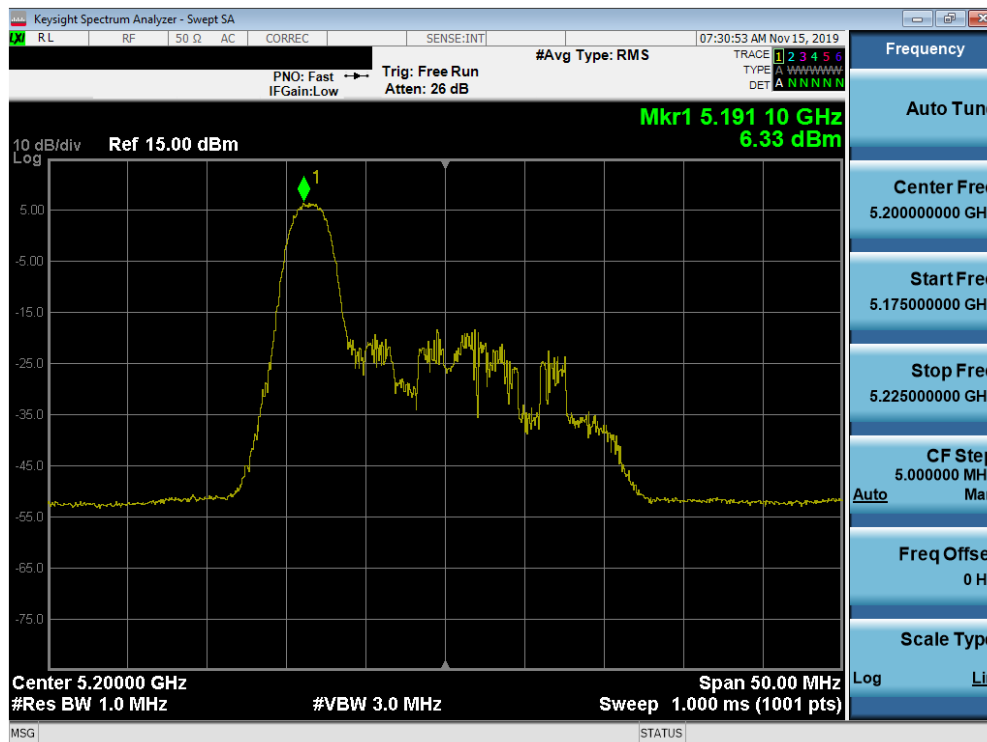
Plot 7-216. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 158 of 265

MIMO Antenna-2 Power Spectral Density Measurements (26 Tones)

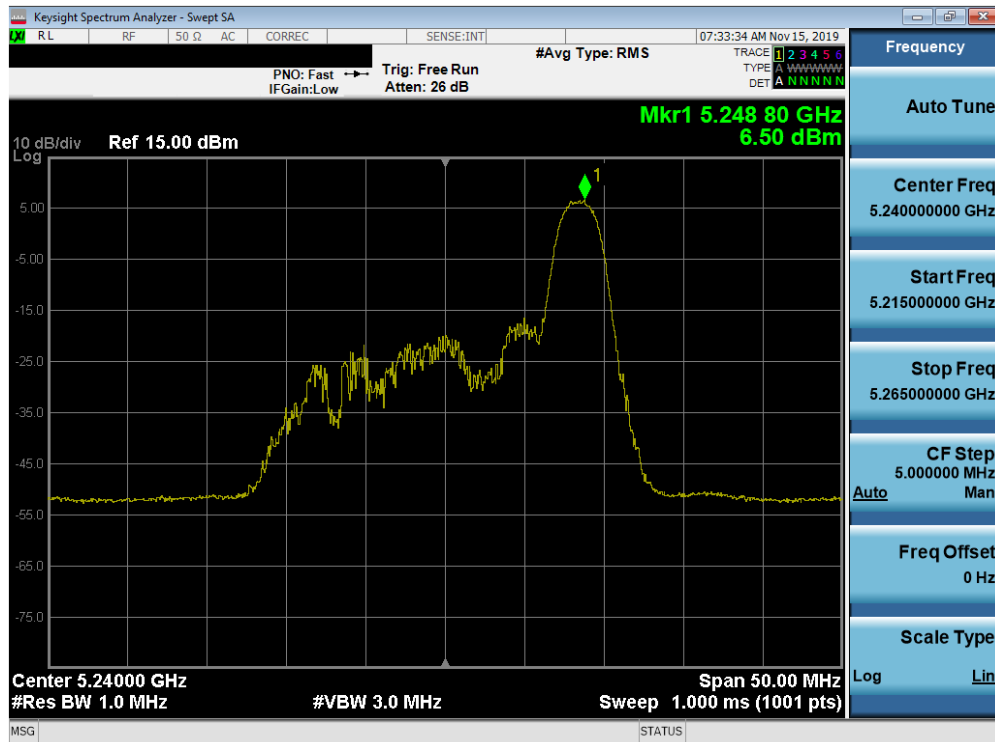


Plot 7-217. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

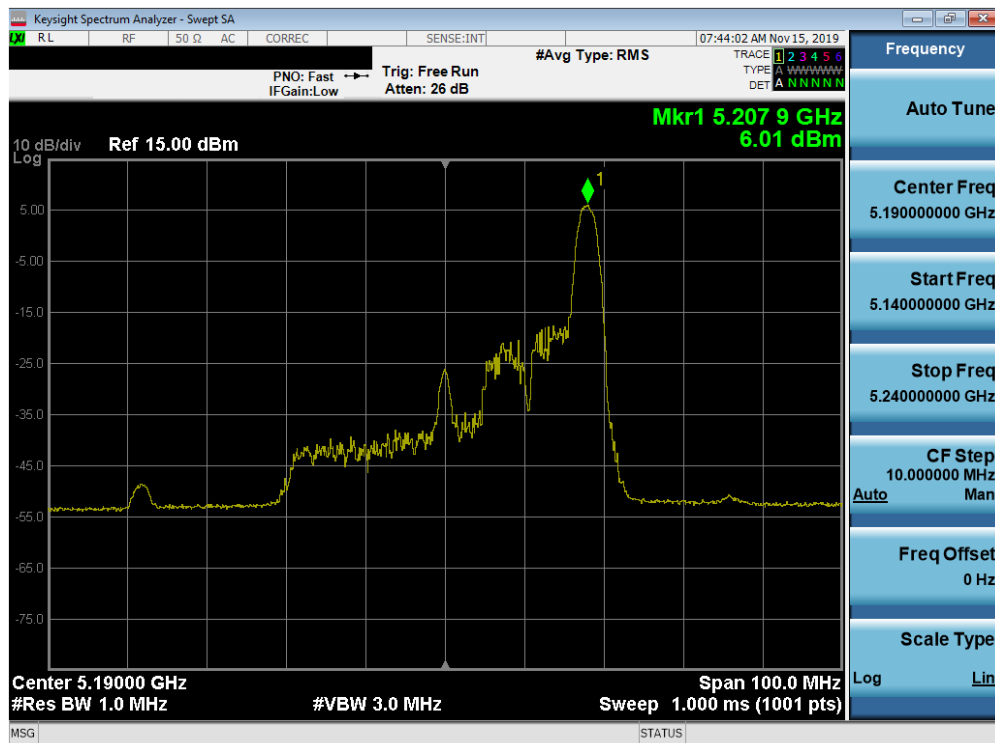


Plot 7-218. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG986U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 159 of 265

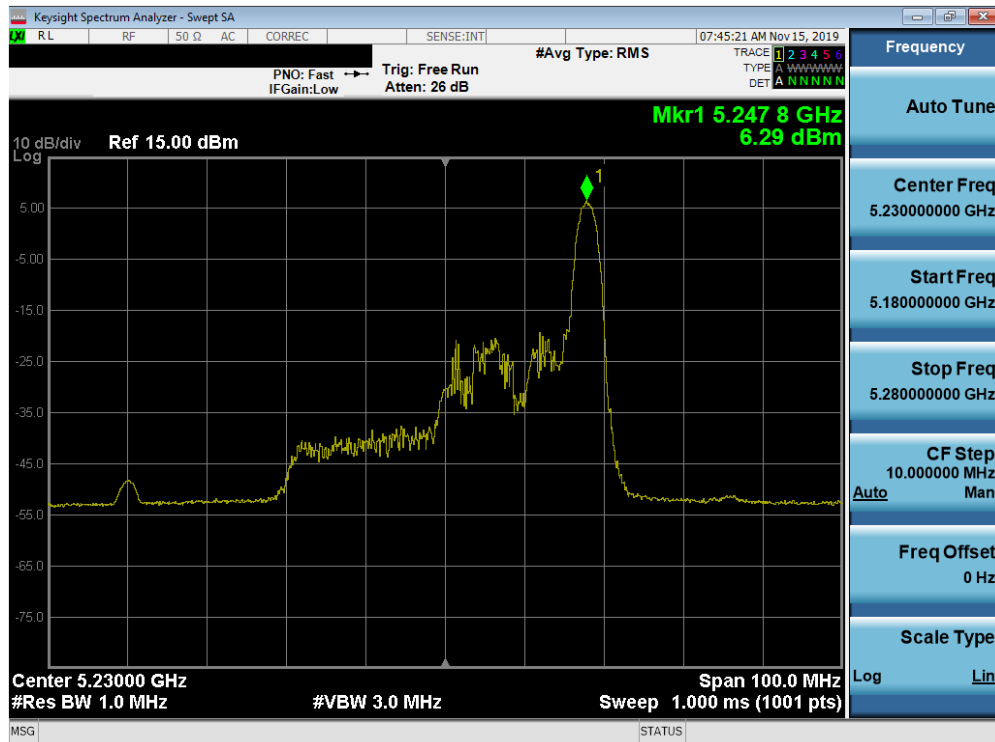


Plot 7-219. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

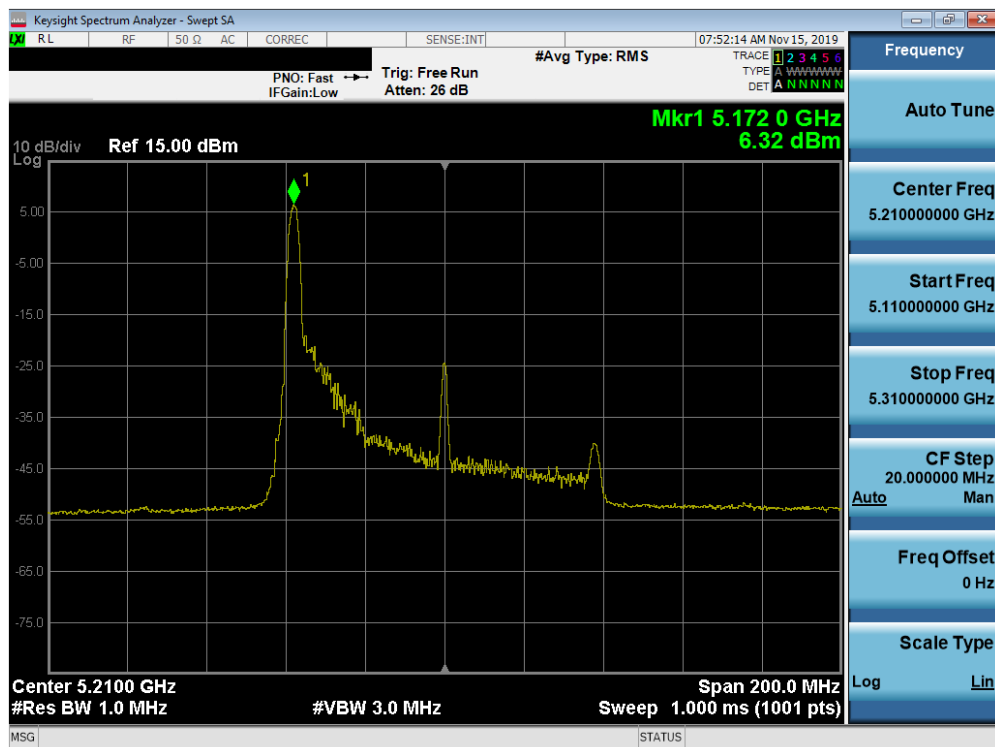


Plot 7-220. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG986U	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset		Page 160 of 265



Plot 7-221. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



Plot 7-222. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG986U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1910220166-09.A3L	Test Dates: 10/11/19 – 01/15/20	EUT Type: Portable Handset	Page 161 of 265