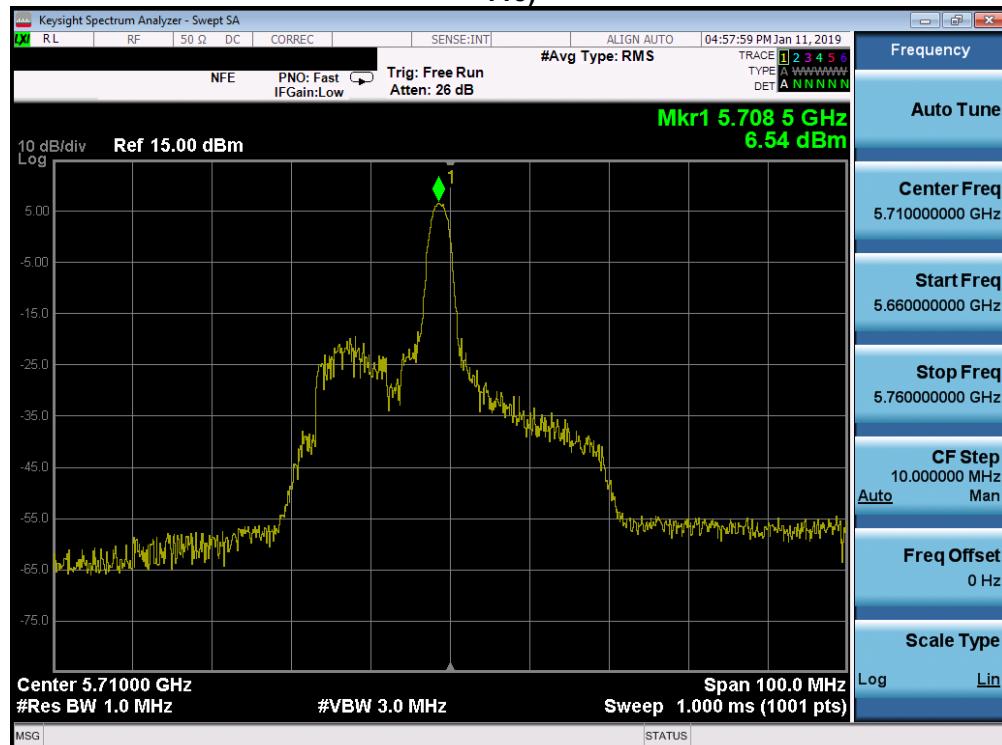
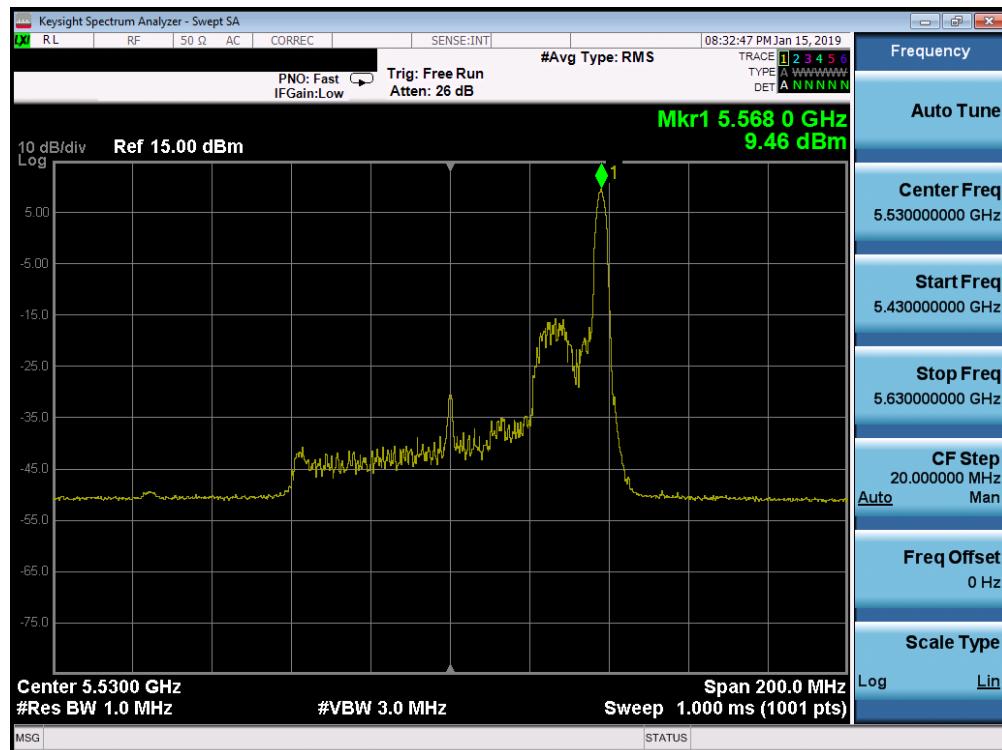


Plot 7-125. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

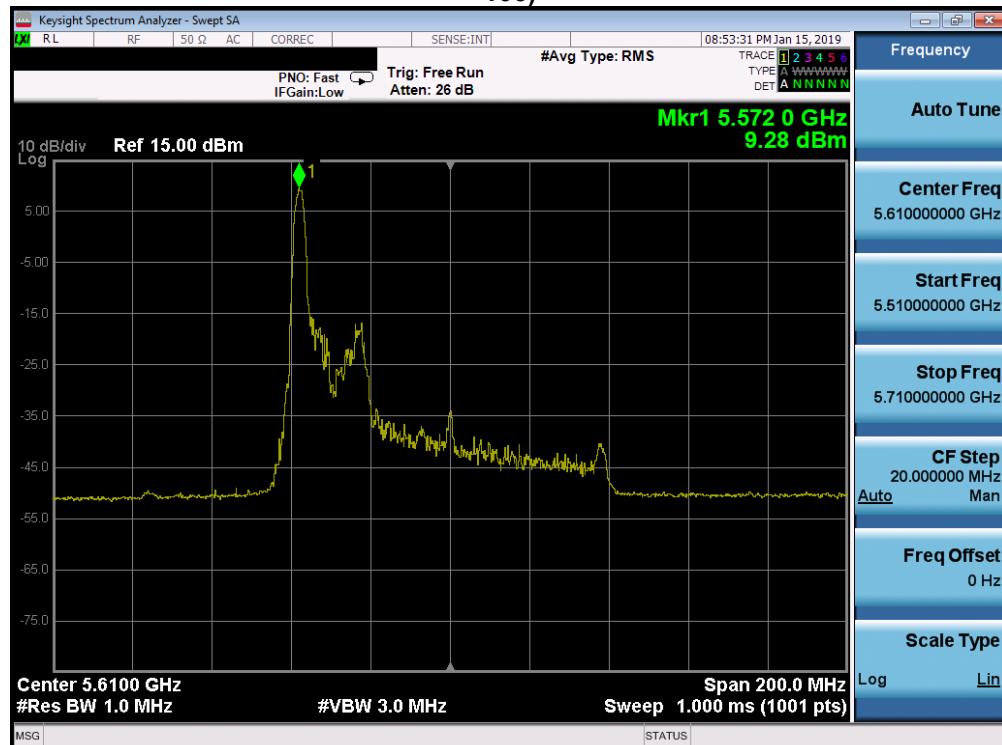


Plot 7-126. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 113 of 514

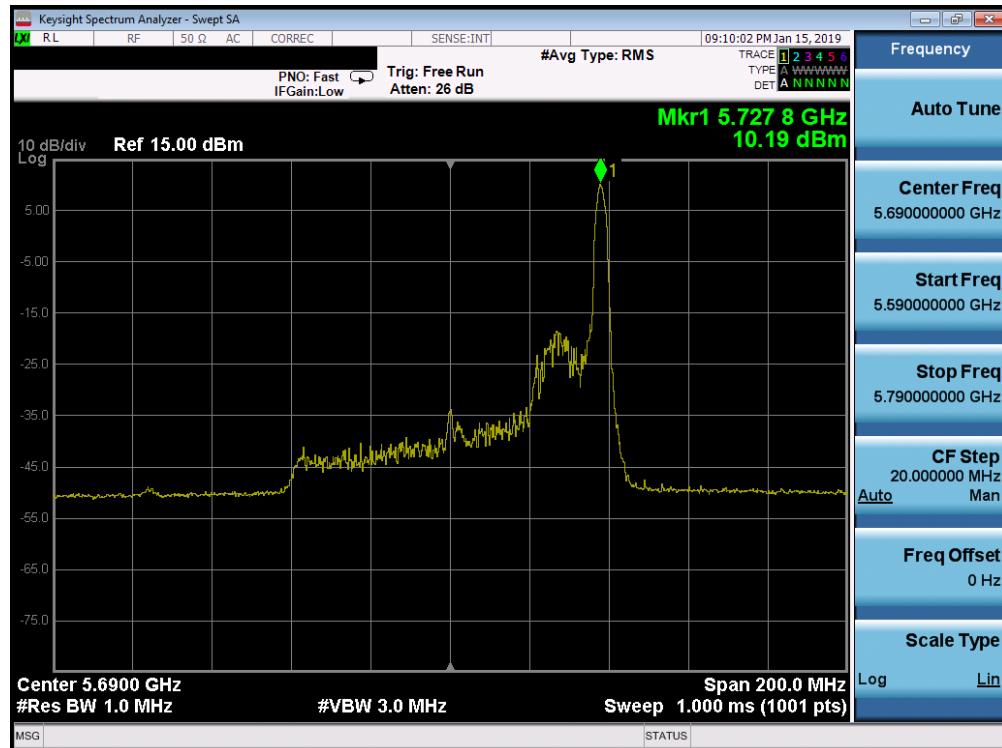


Plot 7-127. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



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

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 114 of 514

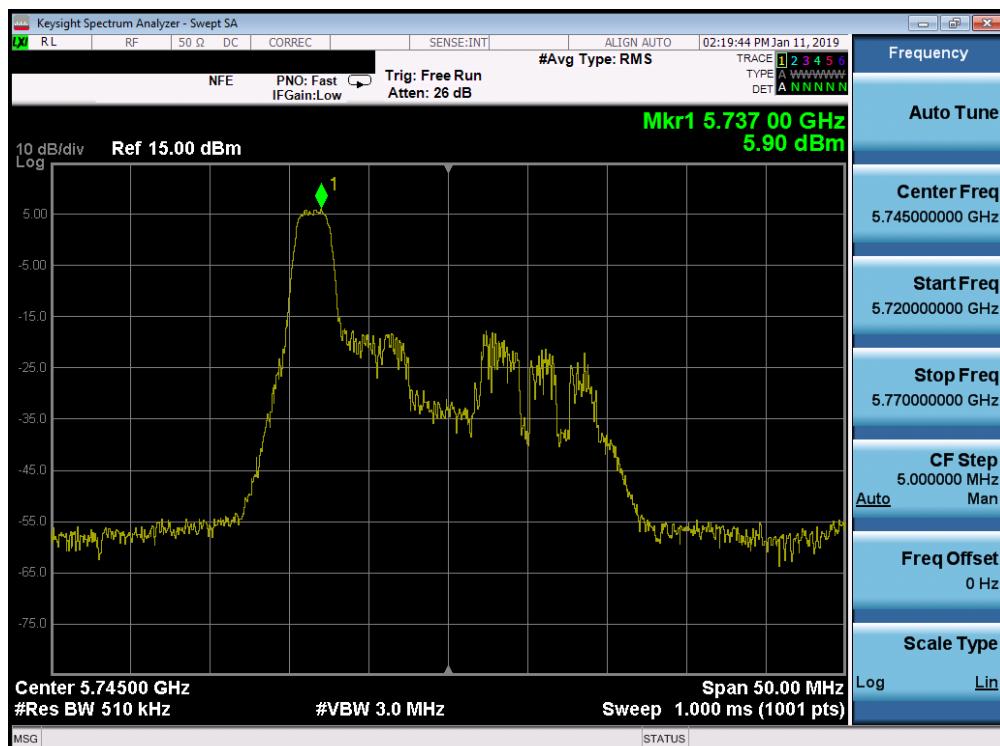


Plot 7-129. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 115 of 514

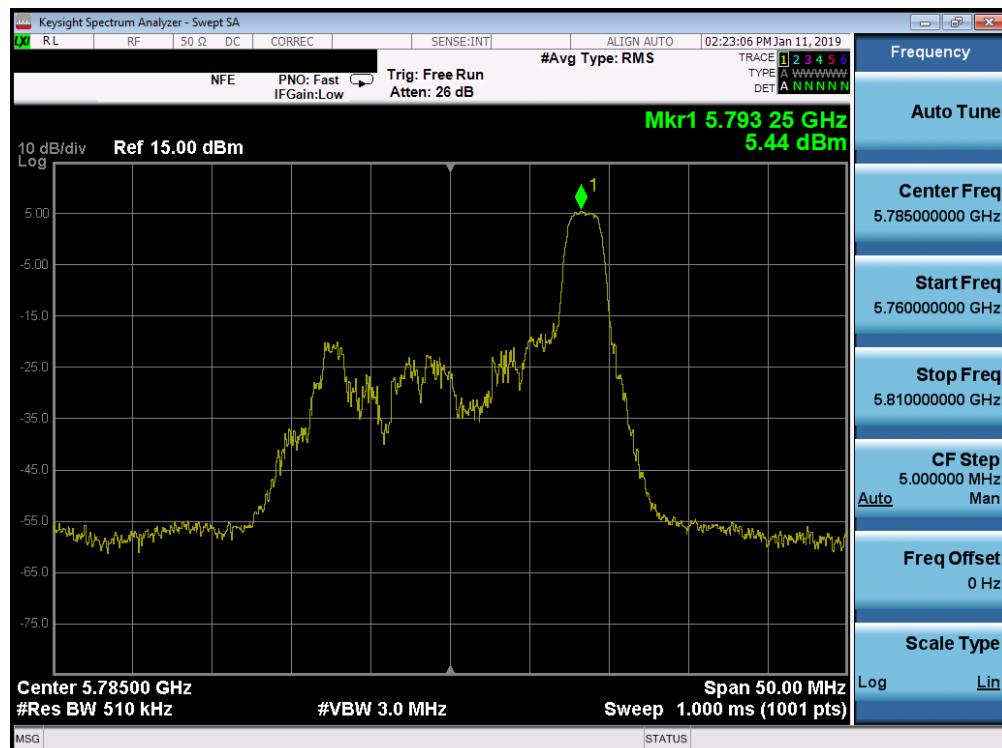
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	5.90	30.00	-24.10
	5785	157	ax (20MHz)	26T	MCS0	5.44	30.00	-24.56
	5825	165	ax (20MHz)	26T	MCS0	6.20	30.00	-23.80
	5755	151	ax (40MHz)	26T	MCS0	5.96	30.00	-24.04
	5795	159	ax (40MHz)	26T	MCS0	4.59	30.00	-25.41
	5775	155	ax (80MHz)	26T	MCS0	10.09	30.00	-19.91

Table 7-65. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)



Plot 7-130. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 116 of 514

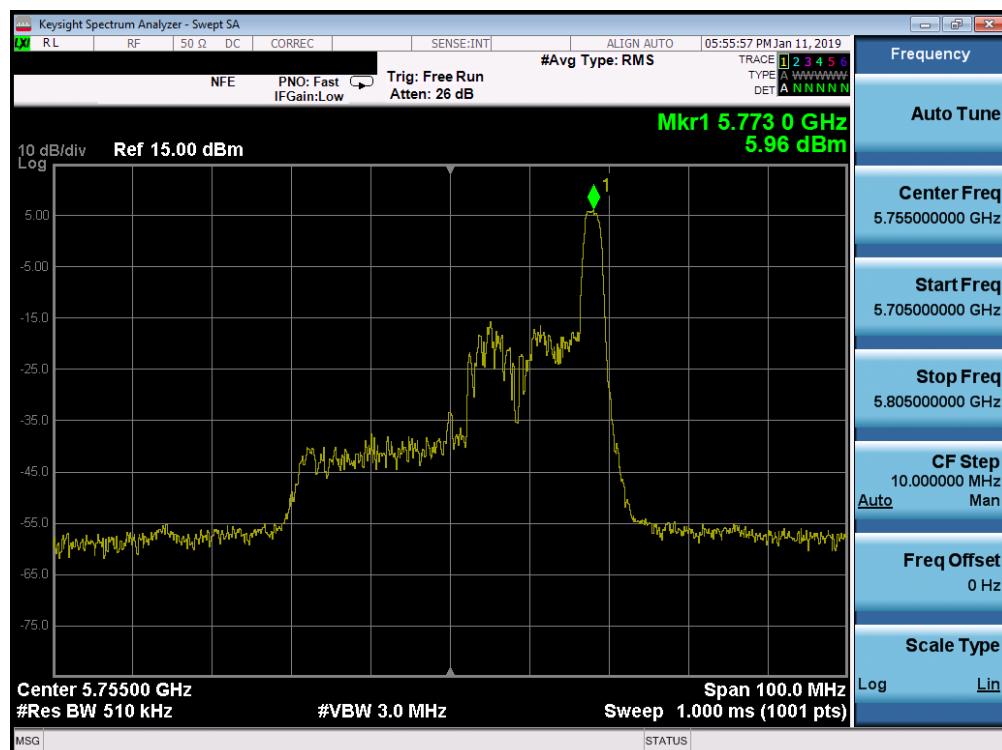


Plot 7-131. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

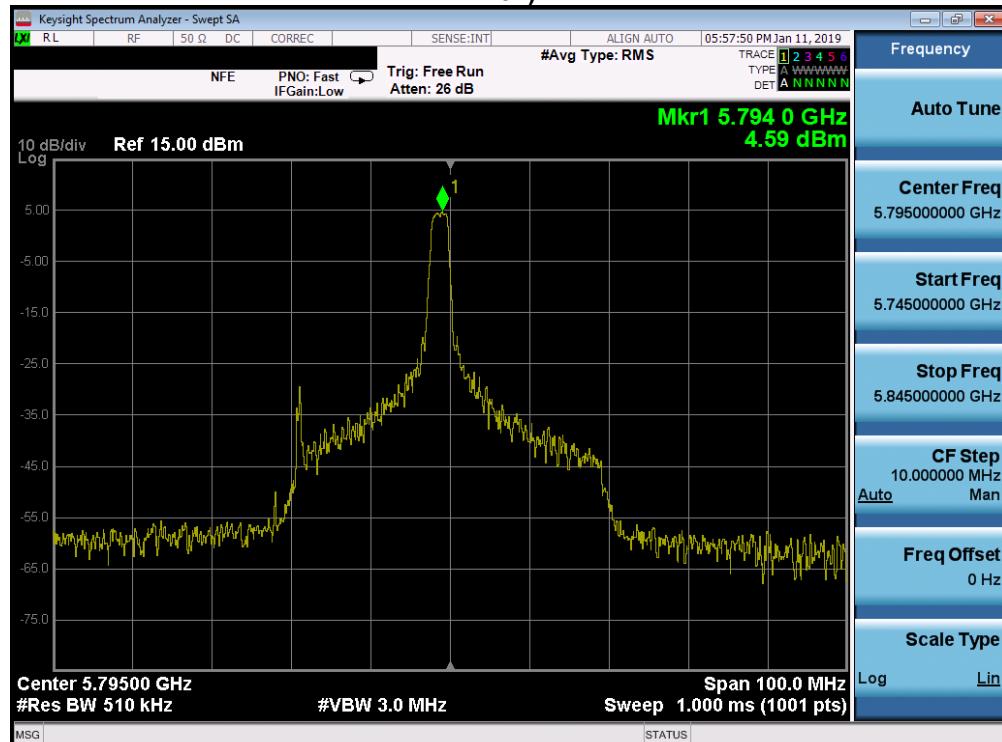


Plot 7-132. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 117 of 514

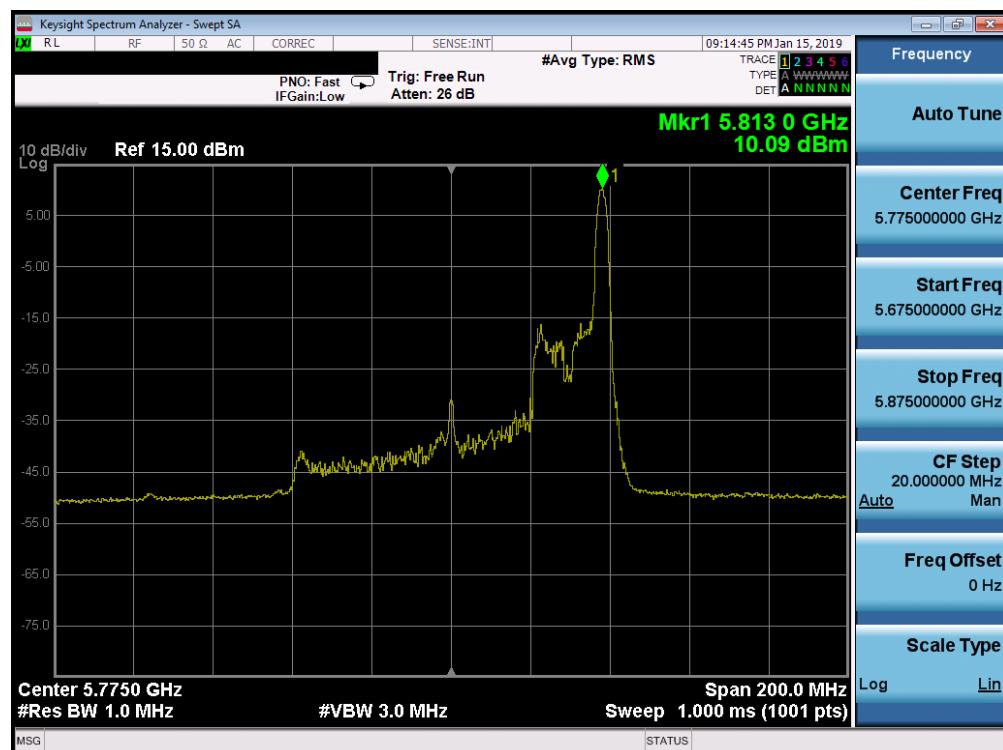


Plot 7-133. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-134. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 118 of 514



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

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 119 of 514

SISO Antenna-1 Power Spectral Density Measurements (52 Tones)

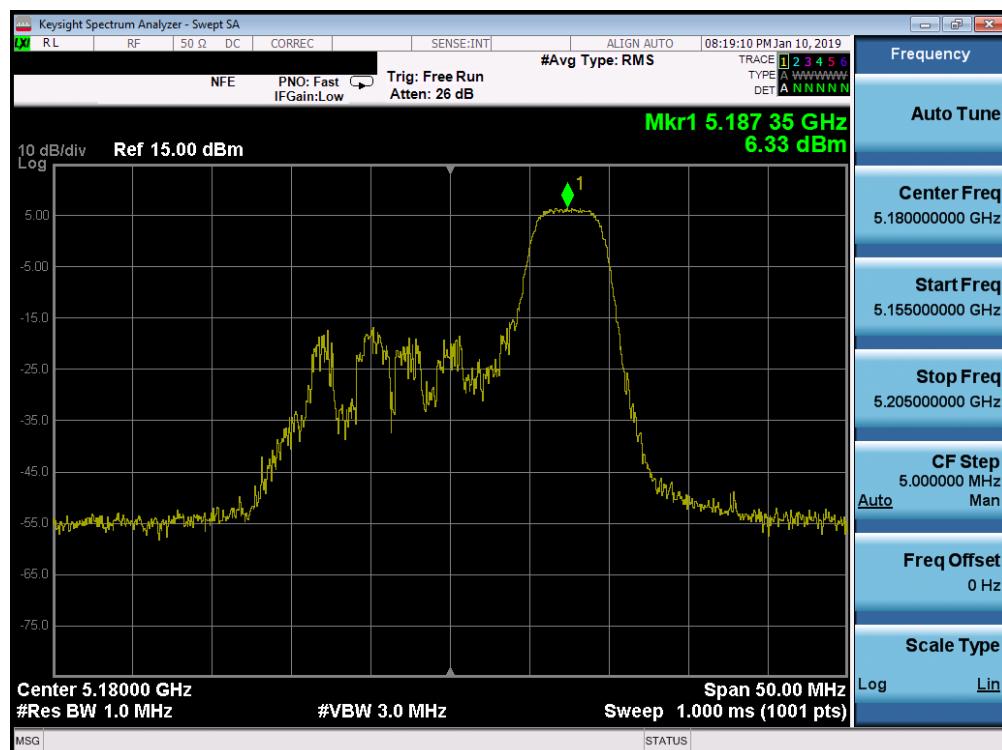
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	52T	MCS0	6.33	11.00	-4.67
	5200	40	ax (20MHz)	52T	MCS0	7.52	11.00	-3.48
	5240	48	ax (20MHz)	52T	MCS0	8.38	11.00	-2.62
	5190	38	ax (40MHz)	52T	MCS0	6.12	11.00	-4.88
	5230	46	ax (40MHz)	52T	MCS0	6.22	11.00	-4.78
	5210	42	ax (80MHz)	52T	MCS0	7.66	11.00	-3.34
Band 2A	5260	52	ax (20MHz)	52T	MCS0	8.94	11.00	-2.06
	5280	56	ax (20MHz)	52T	MCS0	9.23	11.00	-1.77
	5320	64	ax (20MHz)	52T	MCS0	9.20	11.00	-1.80
	5270	54	ax (40MHz)	52T	MCS0	6.65	11.00	-4.35
	5310	62	ax (40MHz)	52T	MCS0	7.22	11.00	-3.78
	5290	58	ax (80MHz)	52T	MCS0	6.83	11.00	-4.17
Band 2C	5500	100	ax (20MHz)	52T	MCS0	8.78	11.00	-2.22
	5600	120	ax (20MHz)	52T	MCS0	7.56	11.00	-3.44
	5720	144	ax (20MHz)	52T	MCS0	6.86	11.00	-4.14
	5510	102	ax (40MHz)	52T	MCS0	7.05	11.00	-3.95
	5590	118	ax (40MHz)	52T	MCS0	5.29	11.00	-5.71
	5710	142	ax (40MHz)	52T	MCS0	5.99	11.00	-5.01
	5530	106	ax (80MHz)	52T	MCS0	7.80	11.00	-3.20
	5610	122	ax (80MHz)	52T	MCS0	7.94	11.00	-3.06
	5690	138	ax (80MHz)	52T	MCS0	8.33	11.00	-2.67

Table 7-66. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (52 Tones)

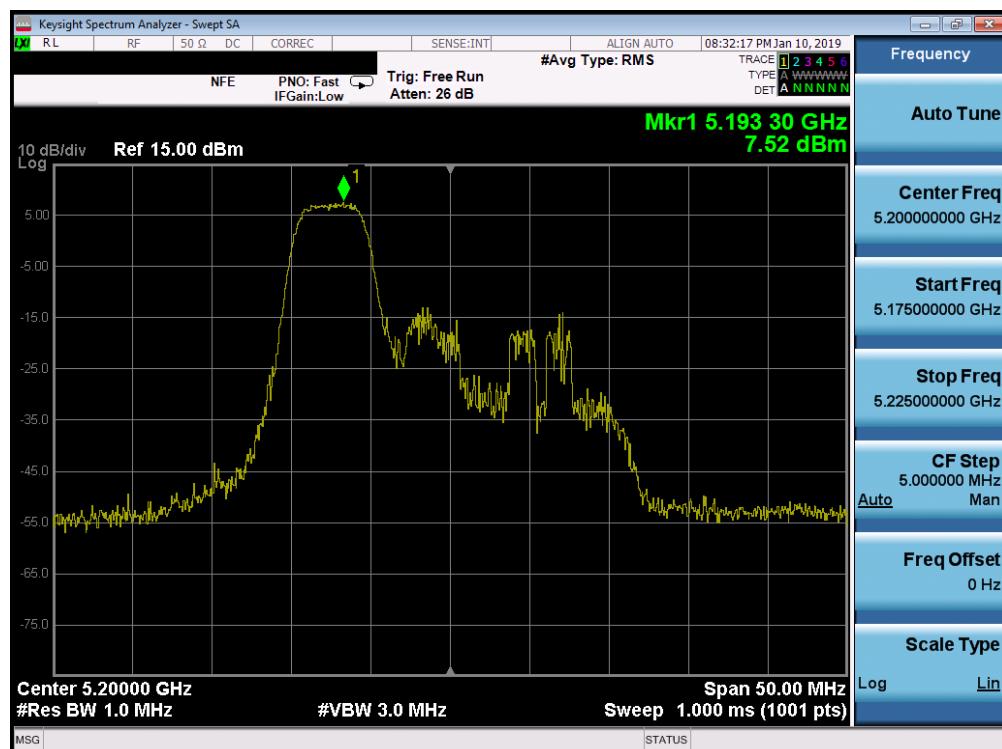
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	52T	MCS0	6.33	-7.94	-1.61	10.0	-11.61
	5200	40	ax (20MHz)	52T	MCS0	7.52	-7.51	0.01	10.0	-9.99
	5240	48	ax (20MHz)	52T	MCS0	8.38	-7.44	0.94	10.0	-9.06
	5190	38	ax (40MHz)	52T	MCS0	6.12	-7.94	-1.82	10.0	-11.82
	5230	46	ax (40MHz)	52T	MCS0	6.22	-7.44	-1.22	10.0	-11.22
	5210	42	ax (80MHz)	52T	MCS0	7.66	-7.94	-0.28	10.0	-10.28

Table 7-67. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 52 Tones)

FCC ID: A3LSC03L	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset			Page 120 of 514

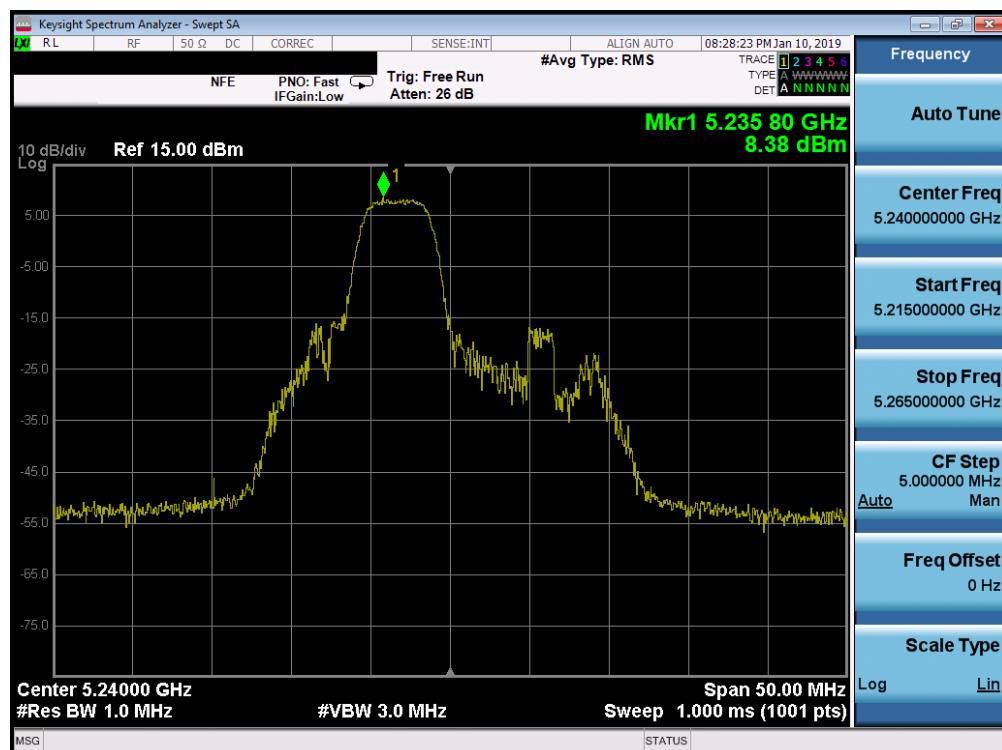


Plot 7-136. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 36)

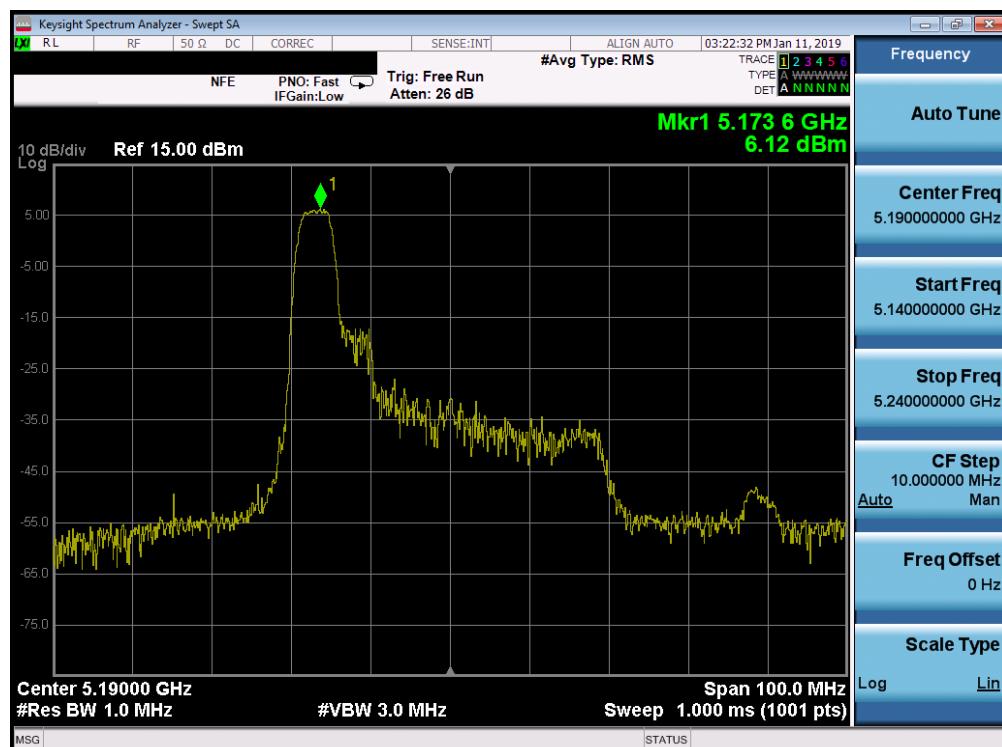


Plot 7-137. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 121 of 514

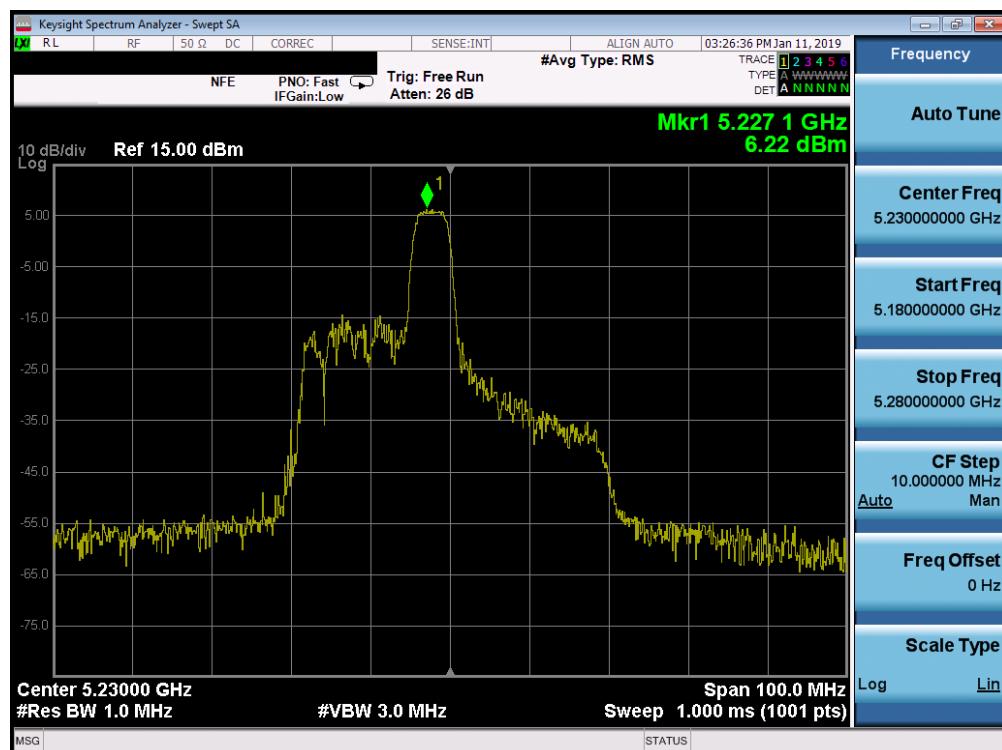


Plot 7-138. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 48)

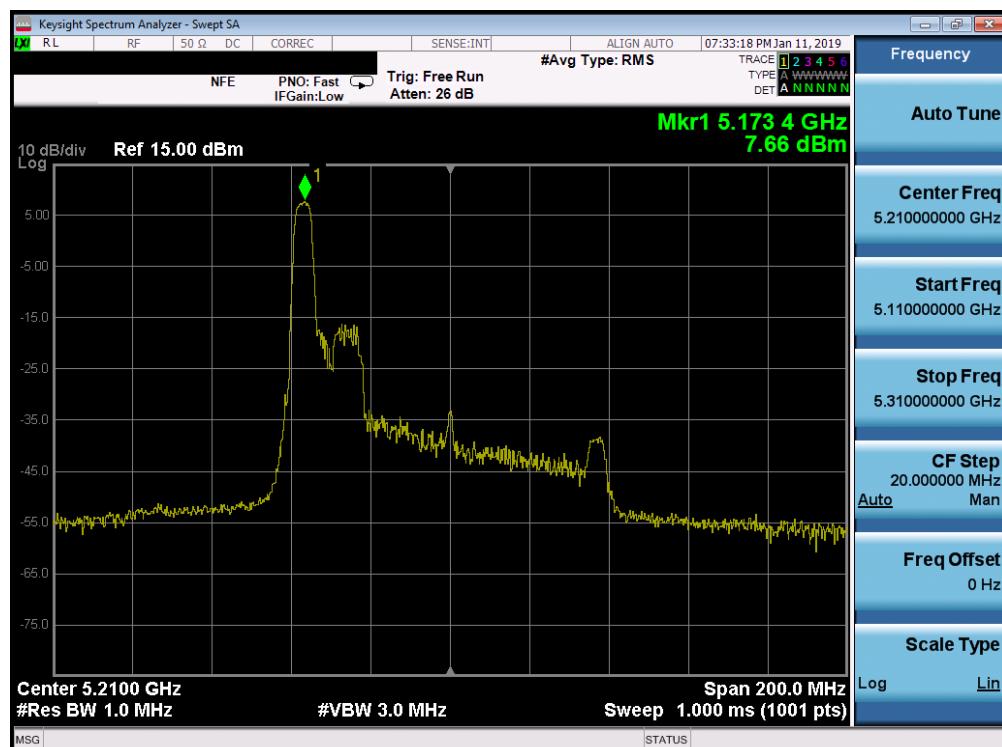


Plot 7-139. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 122 of 514

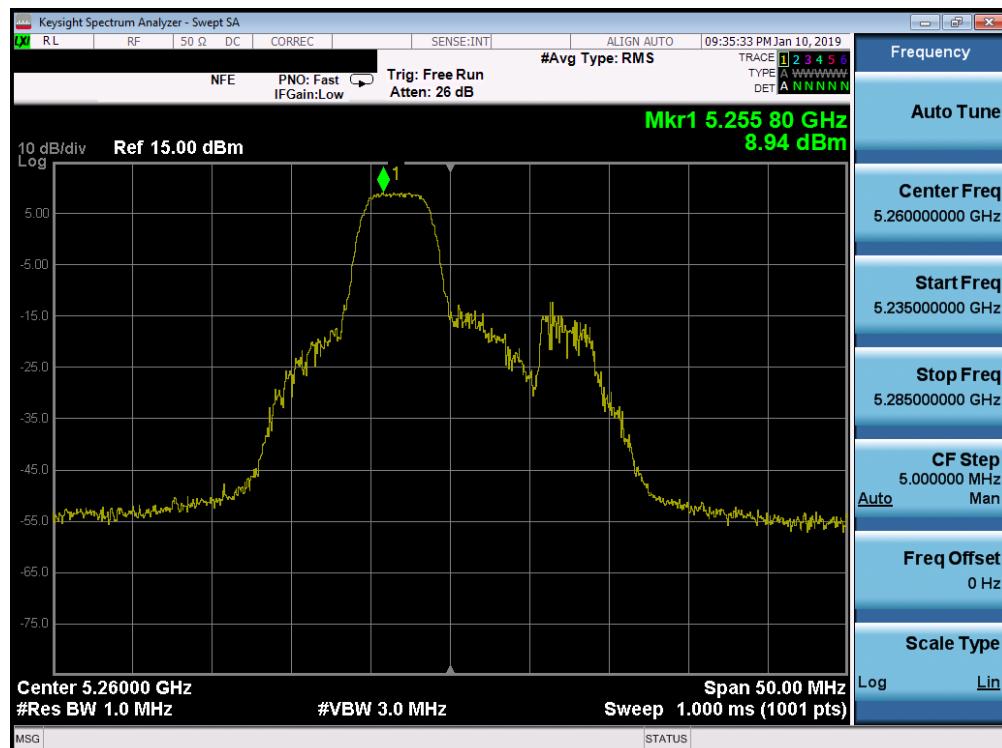


Plot 7-140. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 46)

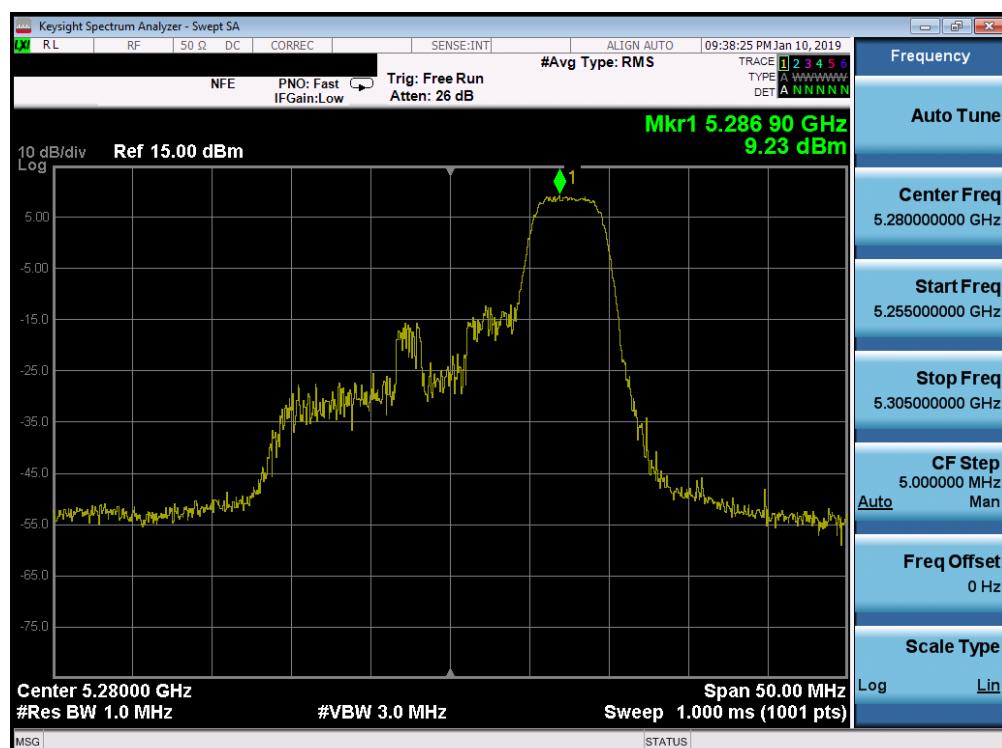


Plot 7-141. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 123 of 514

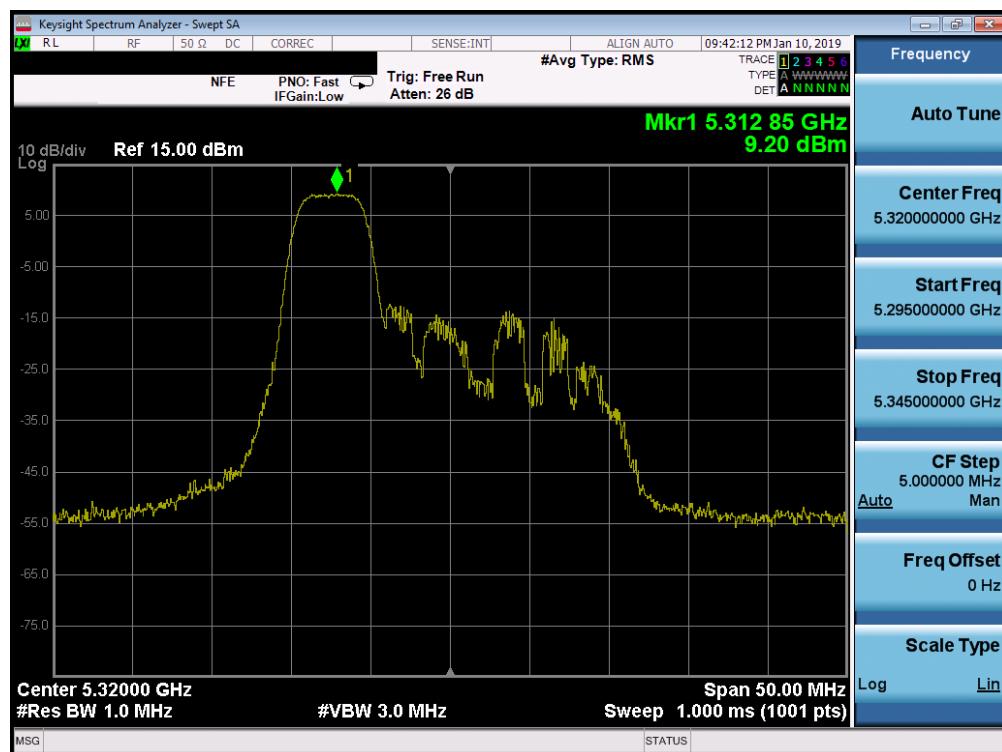


Plot 7-142. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 52)

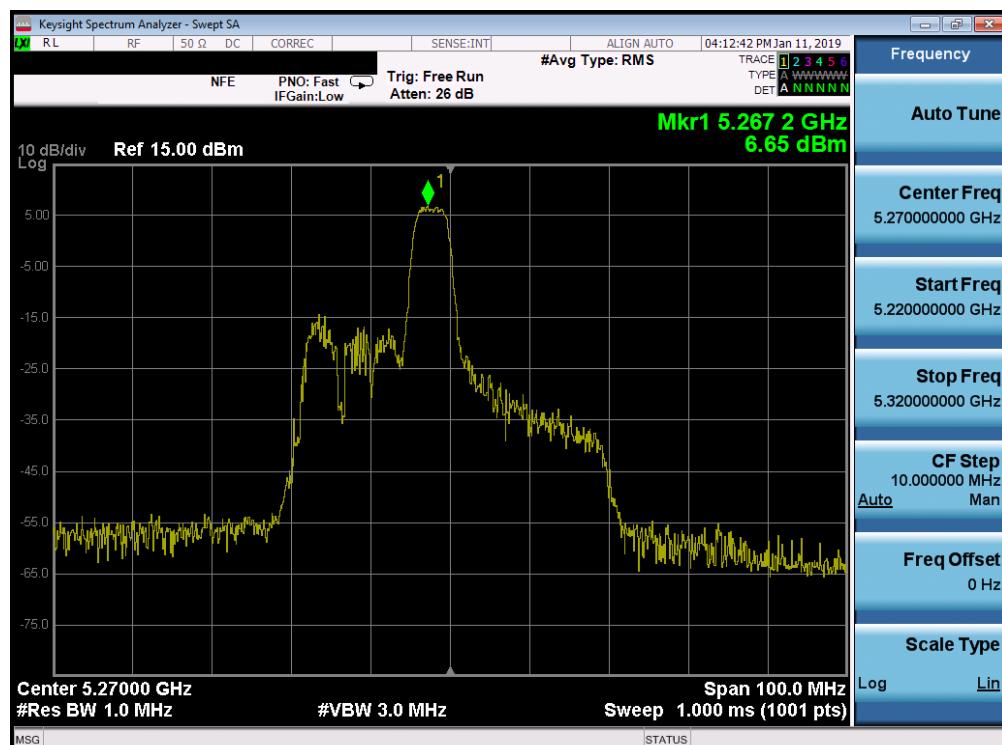


Plot 7-143. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 124 of 514

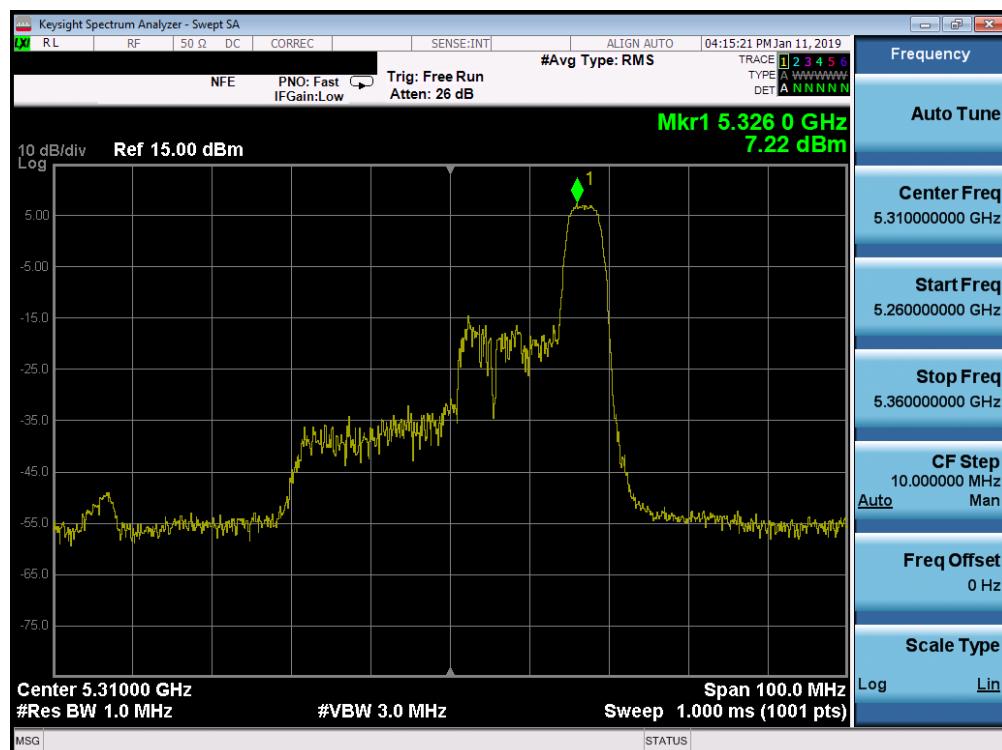


Plot 7-144. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 64)

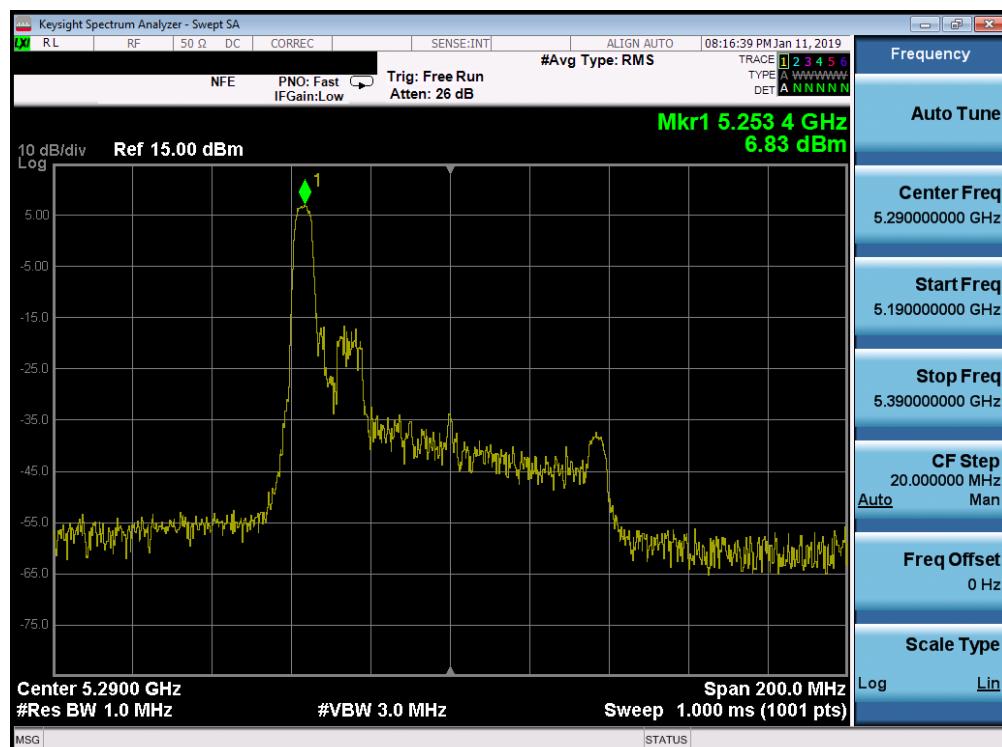


Plot 7-145. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 125 of 514

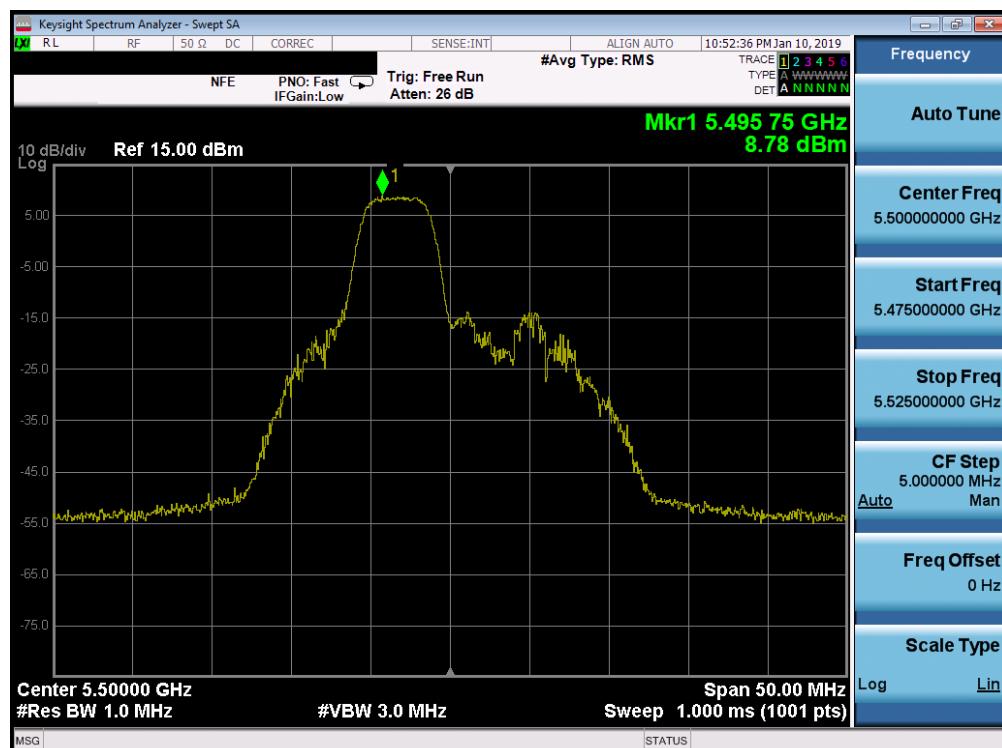


Plot 7-146. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 62)

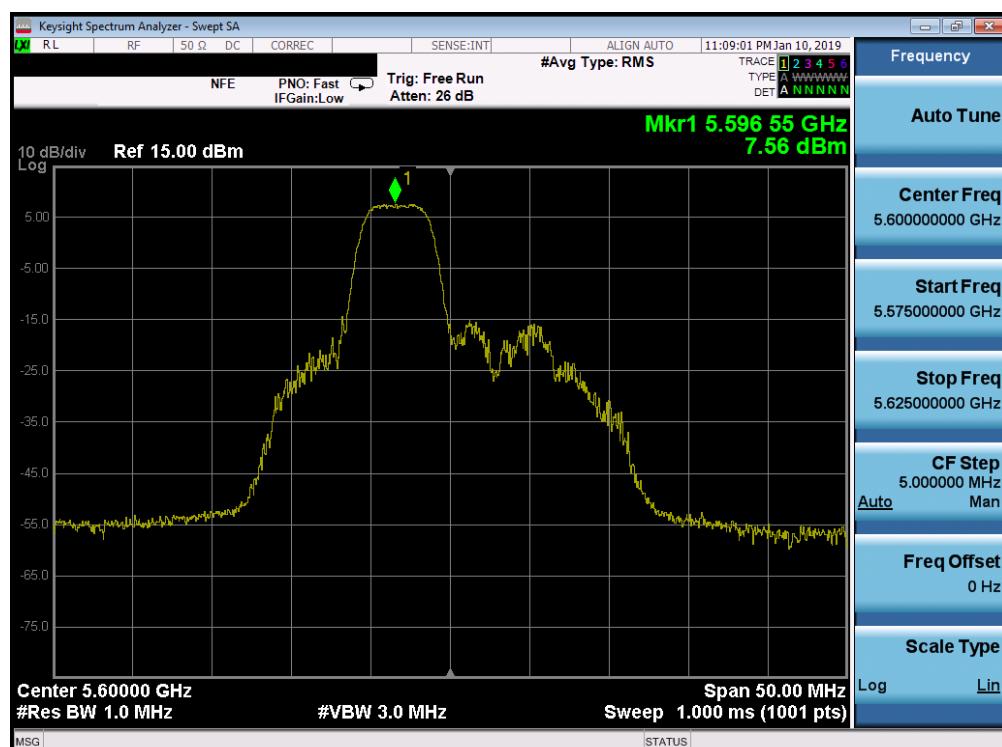


Plot 7-147. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 126 of 514

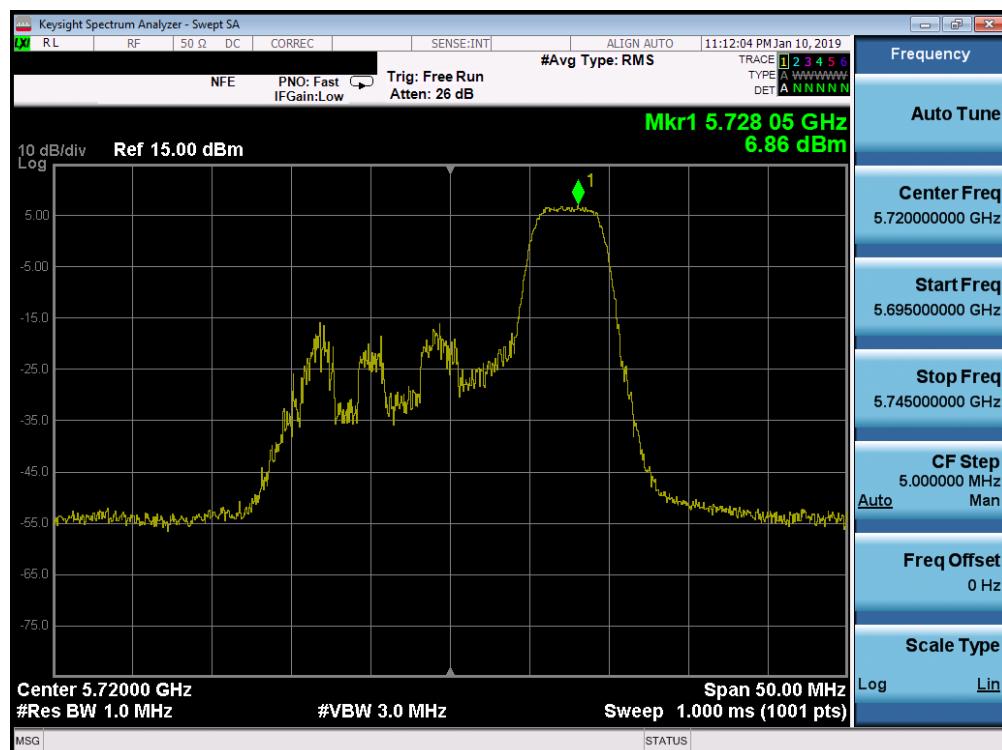


Plot 7-148. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 100)

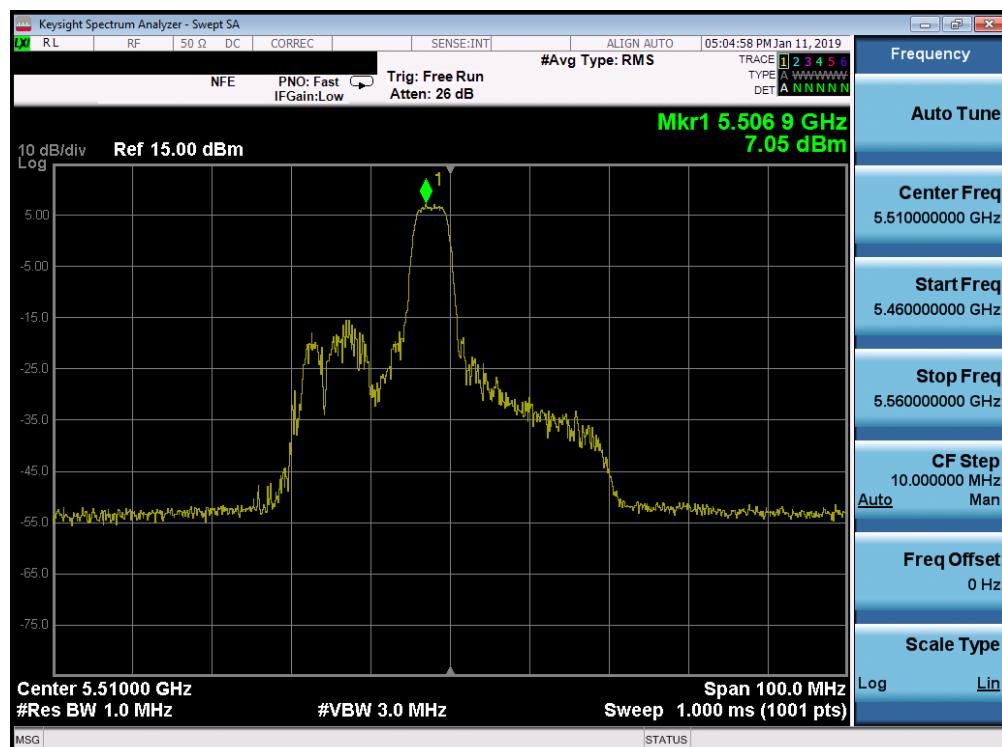


Plot 7-149. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 127 of 514

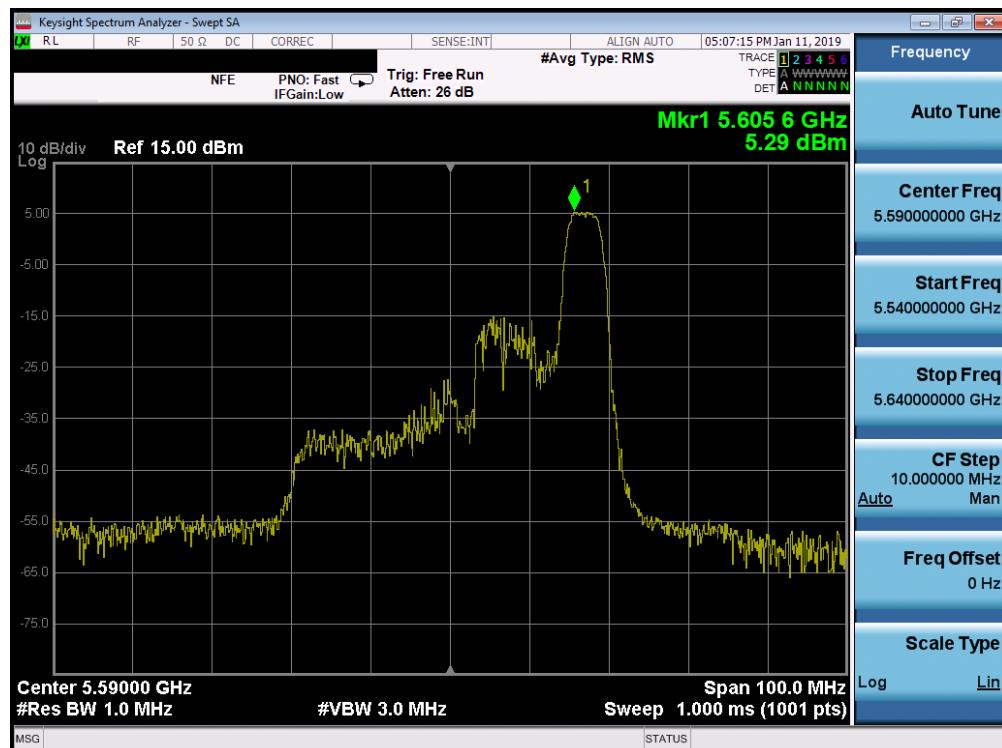


Plot 7-150. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 144)

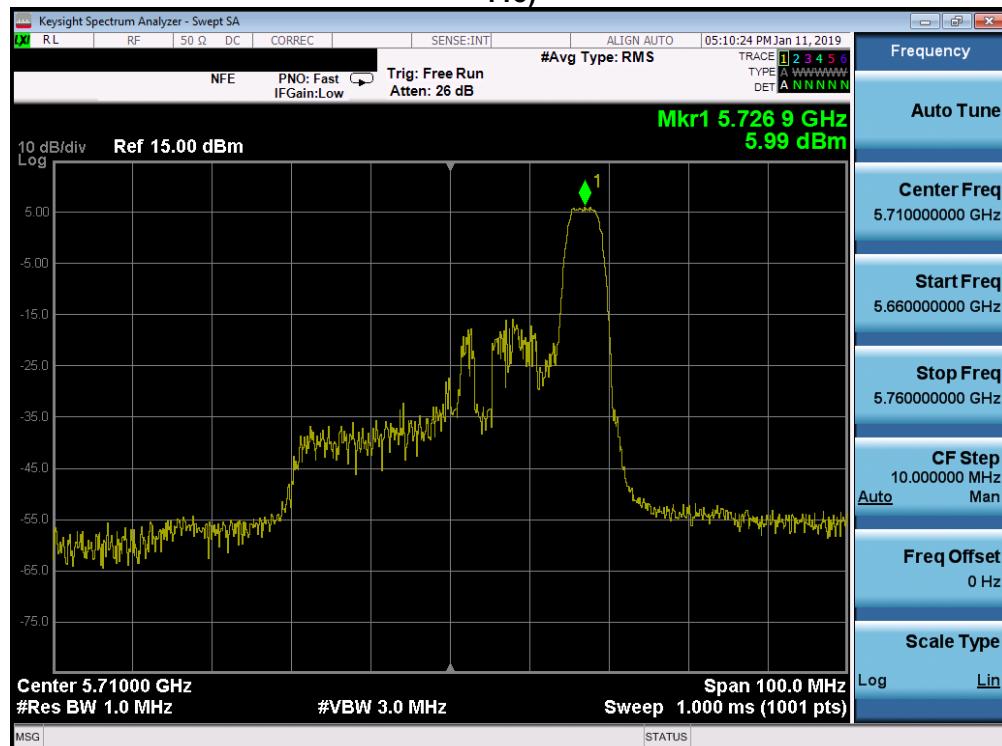


Plot 7-151. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 128 of 514

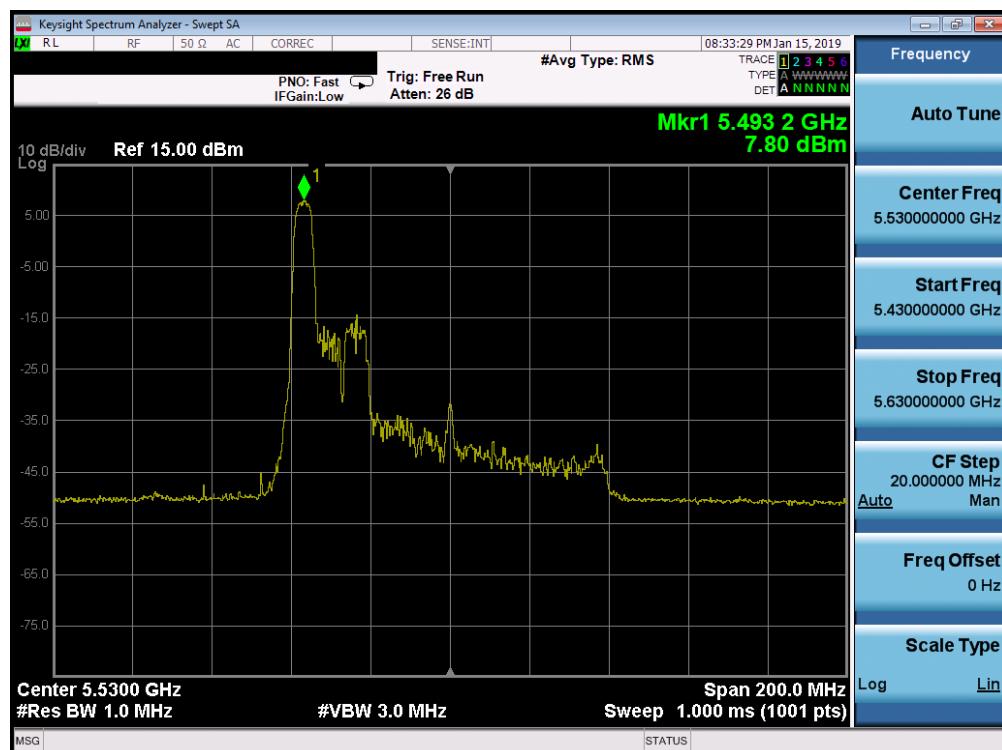


Plot 7-152. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 118)

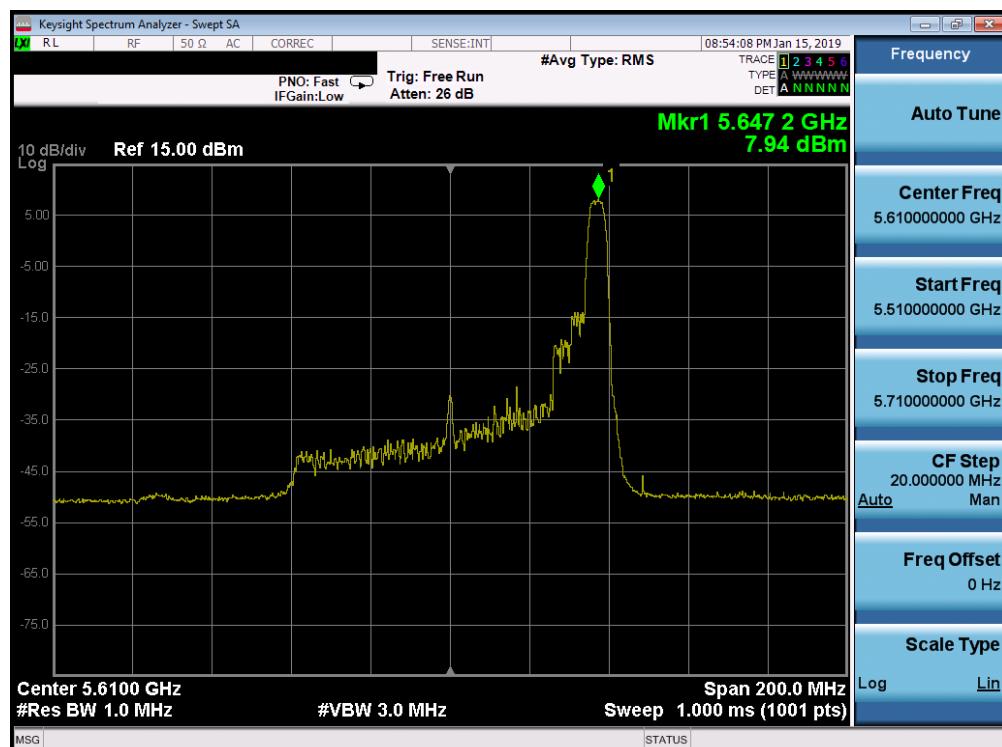


Plot 7-153. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 129 of 514

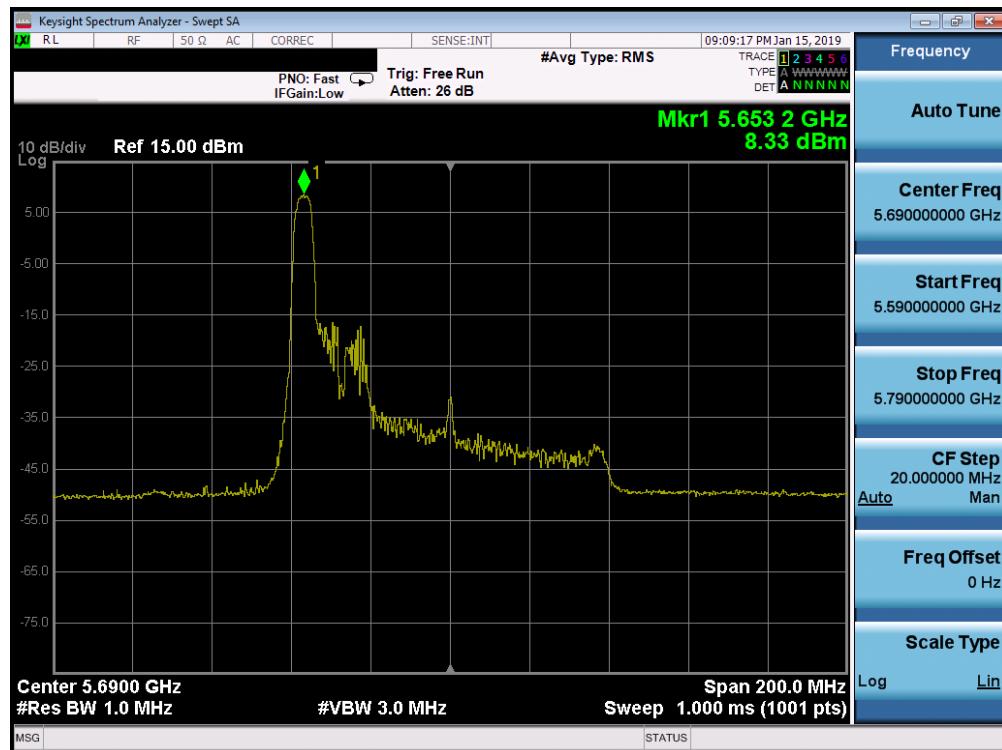


Plot 7-154. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 106)



Plot 7-155. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 130 of 514

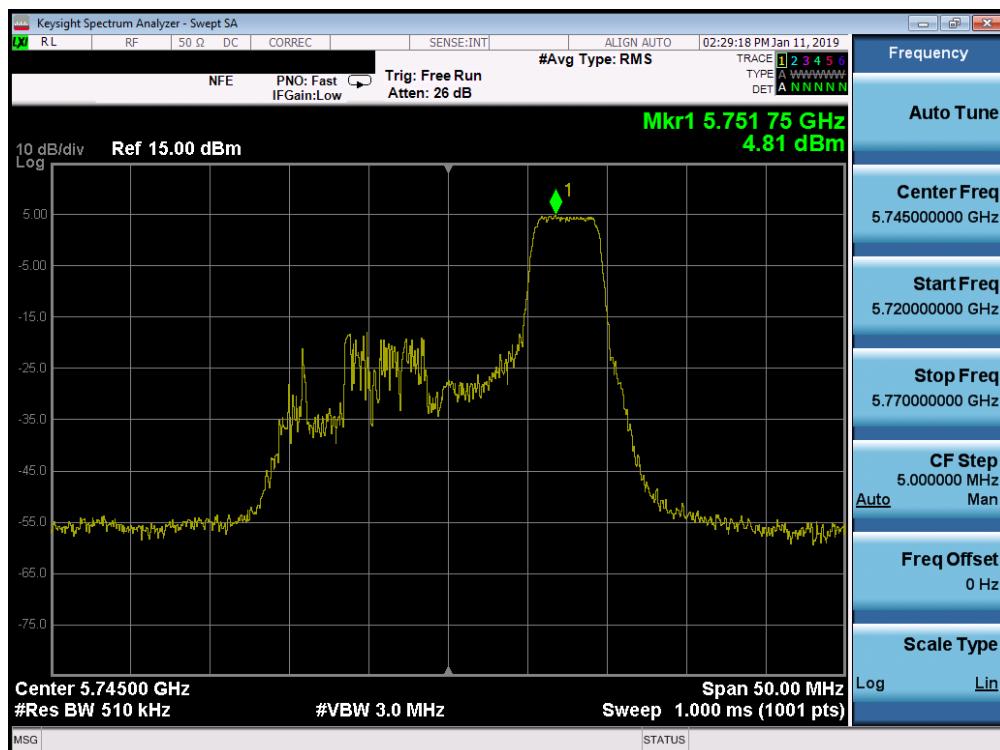


Plot 7-156. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 131 of 514

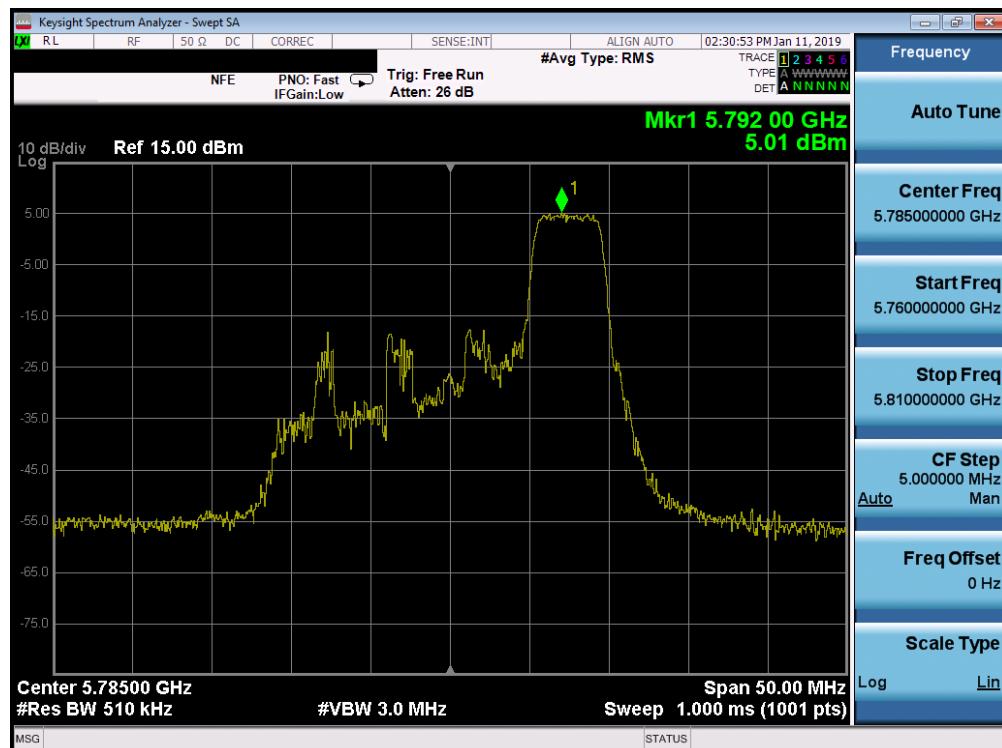
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	52T	MCS0	4.81	30.00	-25.19
	5785	157	ax (20MHz)	52T	MCS0	5.01	30.00	-24.99
	5825	165	ax (20MHz)	52T	MCS0	4.73	30.00	-25.27
	5755	151	ax (40MHz)	52T	MCS0	3.47	30.00	-26.53
	5795	159	ax (40MHz)	52T	MCS0	3.73	30.00	-26.27
	5775	155	ax (80MHz)	52T	MCS0	9.13	30.00	-20.87

Table 7-68. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (52 Tones)

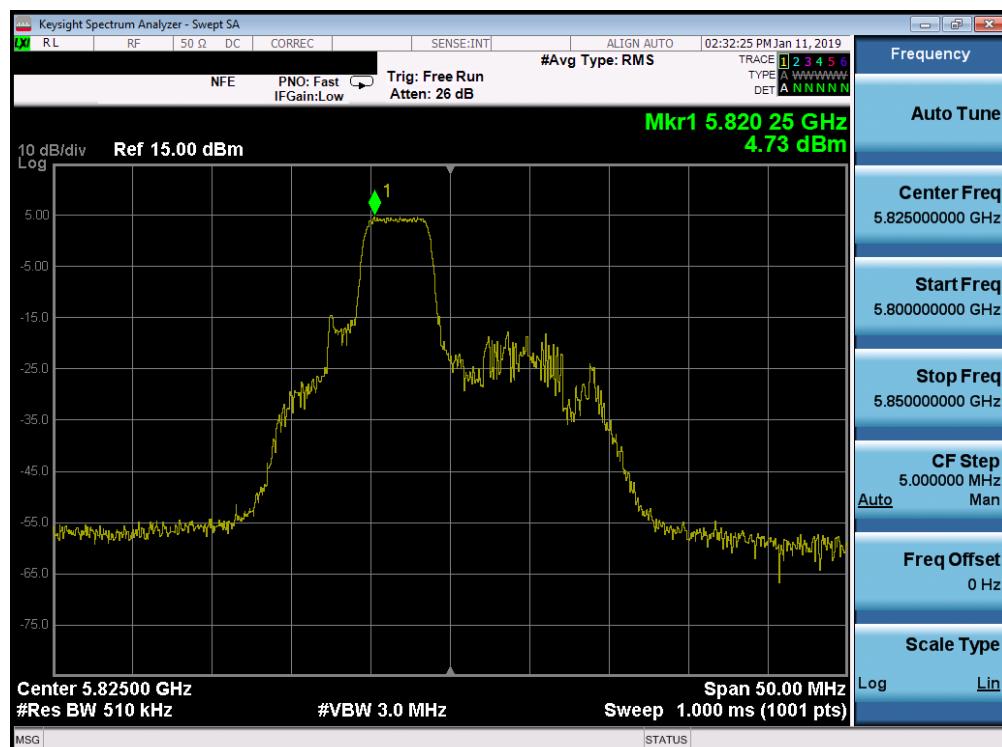


Plot 7-157. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset	Page 132 of 514	

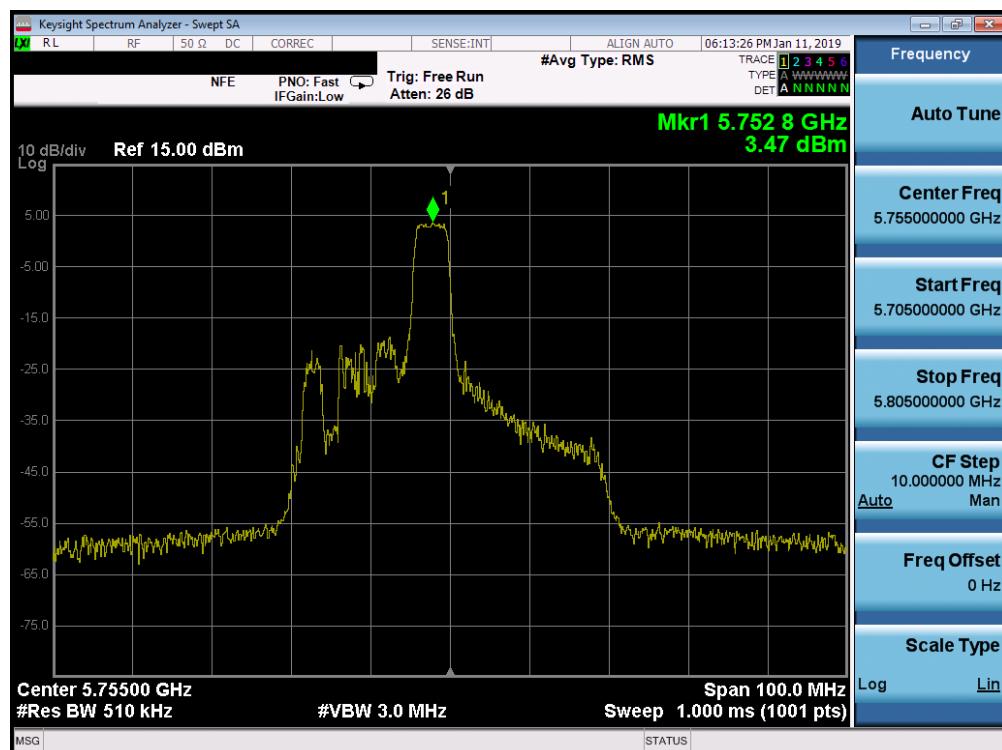


Plot 7-158. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 157)

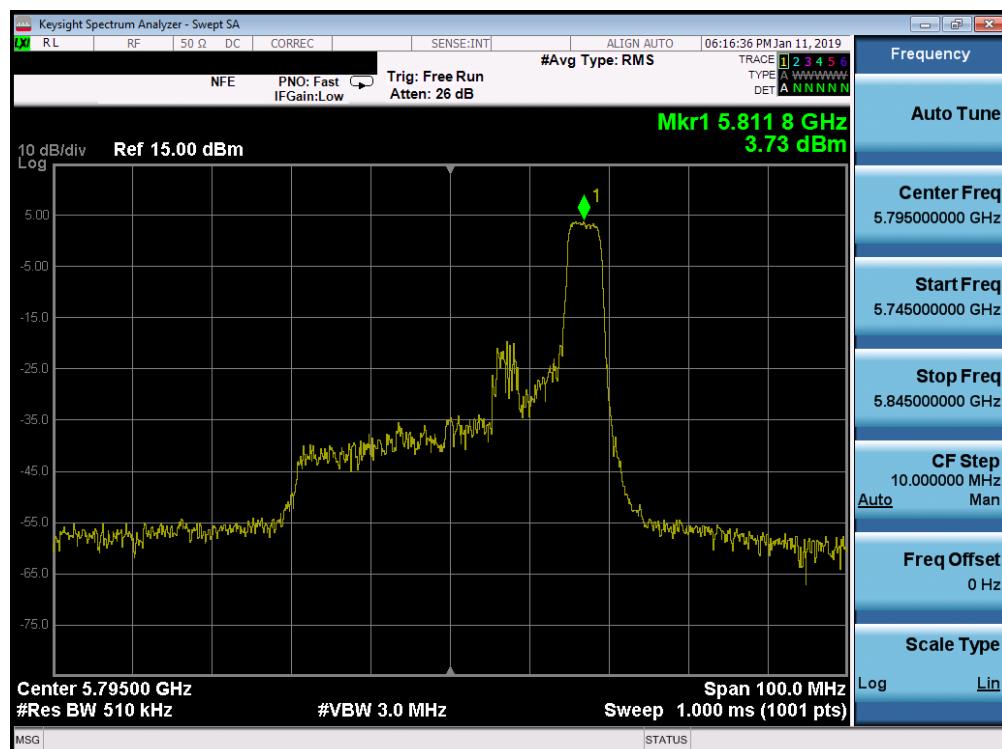


Plot 7-159. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 133 of 514

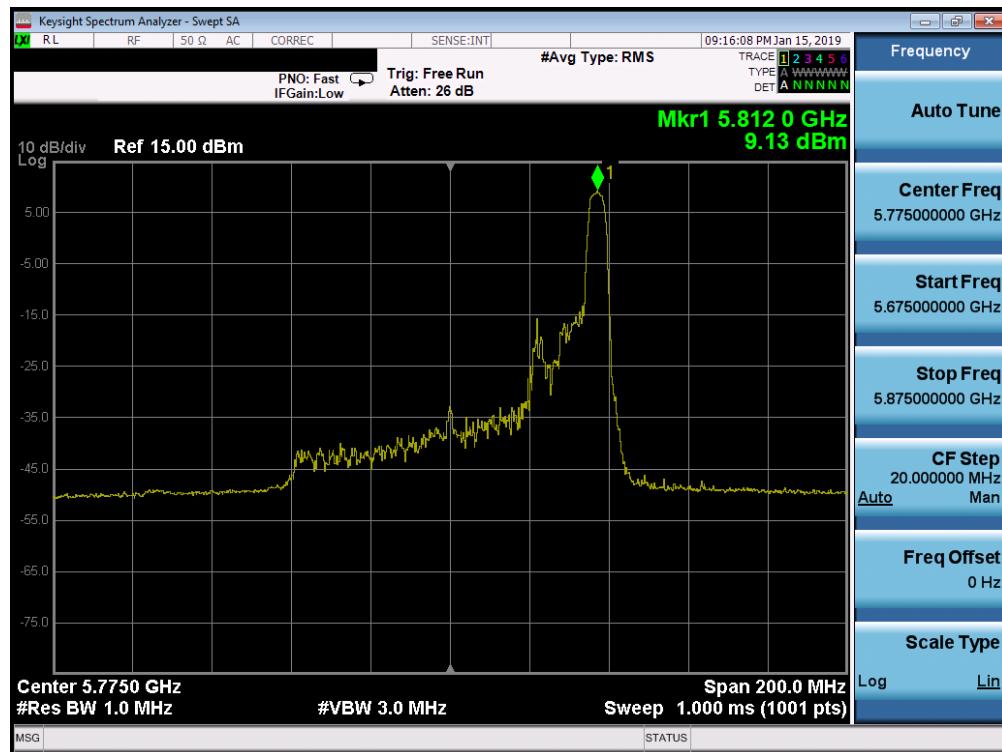


Plot 7-160. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 151)



Plot 7-161. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 134 of 514



Plot 7-162. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 135 of 514

SISO Antenna-1 Power Spectral Density Measurements (106 Tones)

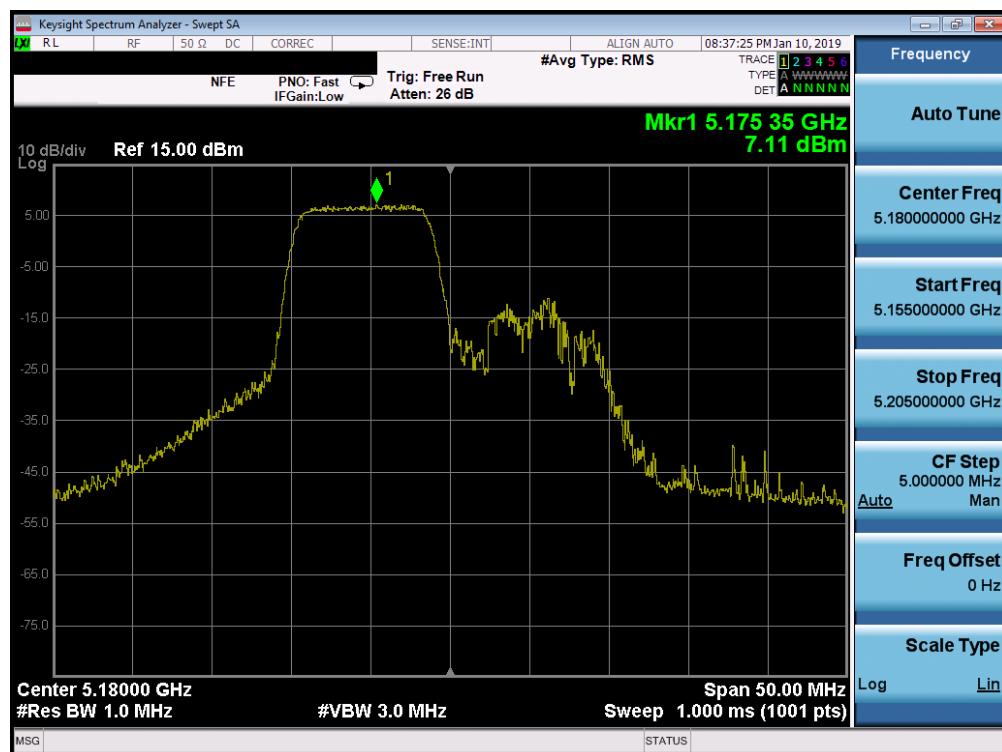
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	106T	MCS0	7.11	11.00	-3.89
	5200	40	ax (20MHz)	106T	MCS0	5.94	11.00	-5.06
	5240	48	ax (20MHz)	106T	MCS0	6.88	11.00	-4.12
	5190	38	ax (40MHz)	106T	MCS0	5.32	11.00	-5.68
	5230	46	ax (40MHz)	106T	MCS0	5.34	11.00	-5.66
	5210	42	ax (80MHz)	106T	MCS0	5.76	11.00	-5.24
Band 2A	5260	52	ax (20MHz)	106T	MCS0	7.52	11.00	-3.48
	5280	56	ax (20MHz)	106T	MCS0	7.64	11.00	-3.36
	5320	64	ax (20MHz)	106T	MCS0	9.41	11.00	-1.59
	5270	54	ax (40MHz)	106T	MCS0	6.19	11.00	-4.81
	5310	62	ax (40MHz)	106T	MCS0	6.20	11.00	-4.80
	5290	58	ax (80MHz)	106T	MCS0	5.34	11.00	-5.66
Band 2C	5500	100	ax (20MHz)	106T	MCS0	7.79	11.00	-3.21
	5600	120	ax (20MHz)	106T	MCS0	6.85	11.00	-4.15
	5720	144	ax (20MHz)	106T	MCS0	5.86	11.00	-5.14
	5510	102	ax (40MHz)	106T	MCS0	5.87	11.00	-5.13
	5590	118	ax (40MHz)	106T	MCS0	4.96	11.00	-6.04
	5710	142	ax (40MHz)	106T	MCS0	4.84	11.00	-6.16
	5530	106	ax (80MHz)	106T	MCS0	5.84	11.00	-5.16
	5610	122	ax (80MHz)	106T	MCS0	6.87	11.00	-4.13
	5690	138	ax (80MHz)	106T	MCS0	7.44	11.00	-3.56

Table 7-69. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (106 Tones)

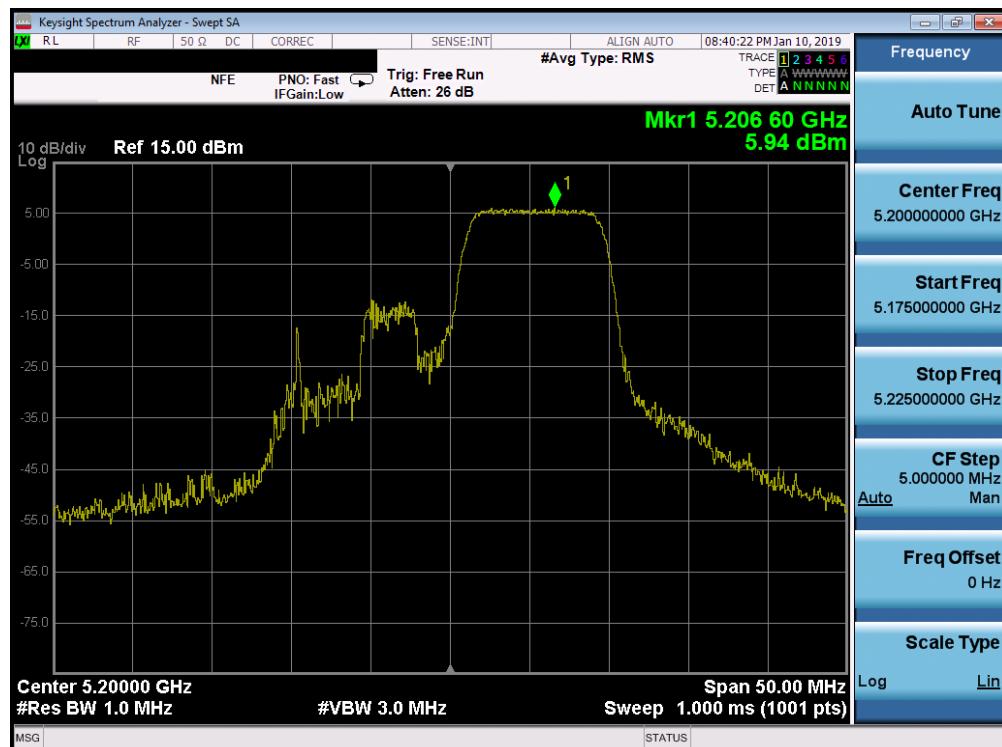
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	106T	MCS0	7.11	-7.94	-0.83	10.0	-10.83
	5200	40	ax (20MHz)	106T	MCS0	5.94	-7.51	-1.57	10.0	-11.57
	5240	48	ax (20MHz)	106T	MCS0	6.88	-7.44	-0.56	10.0	-10.56
	5190	38	ax (40MHz)	106T	MCS0	5.32	-7.94	-2.62	10.0	-12.62
	5230	46	ax (40MHz)	106T	MCS0	5.34	-7.44	-2.10	10.0	-12.10
	5210	42	ax (80MHz)	106T	MCS0	5.76	-7.94	-2.18	10.0	-12.18

Table 7-70. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 106 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset					Page 136 of 514



Plot 7-163. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 36)

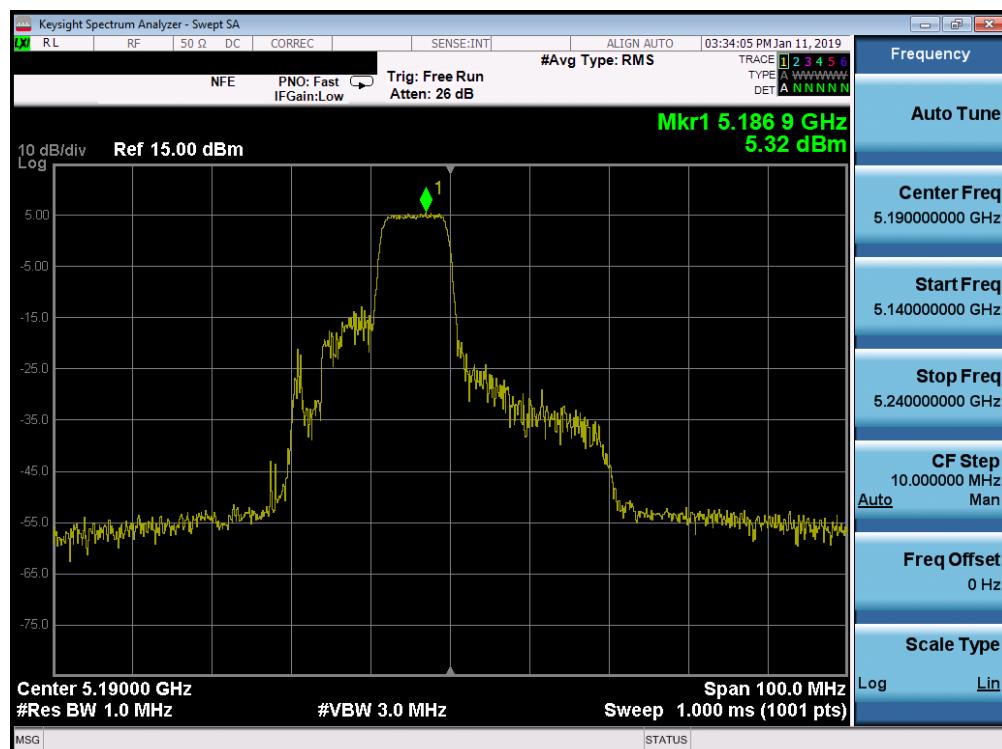


Plot 7-164. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 137 of 514

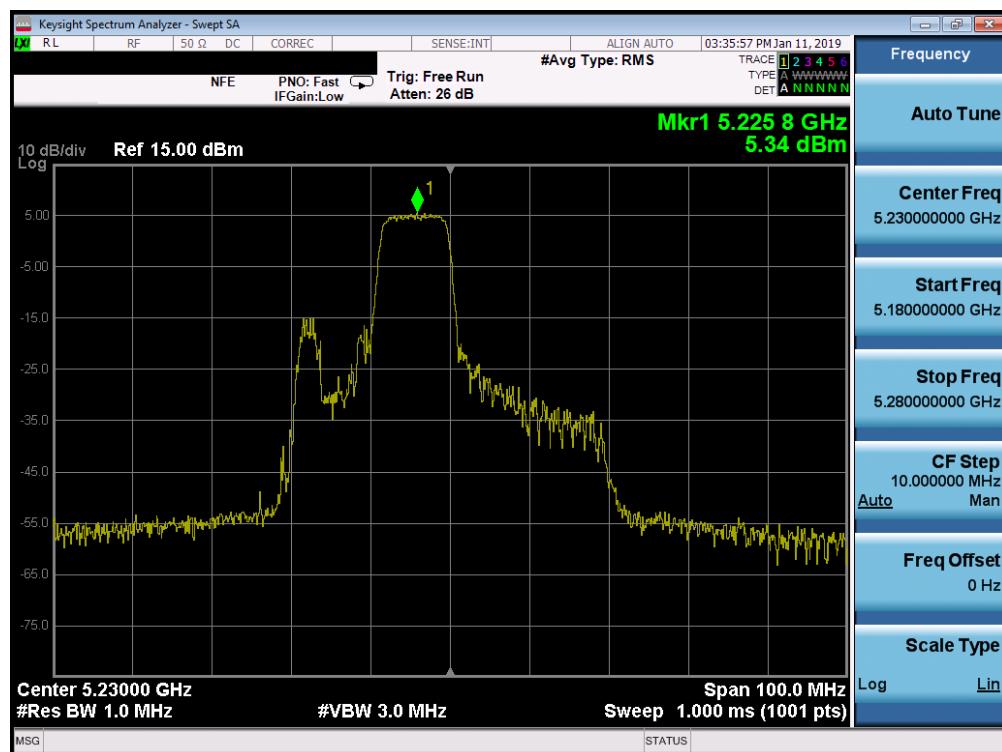


Plot 7-165. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 48)

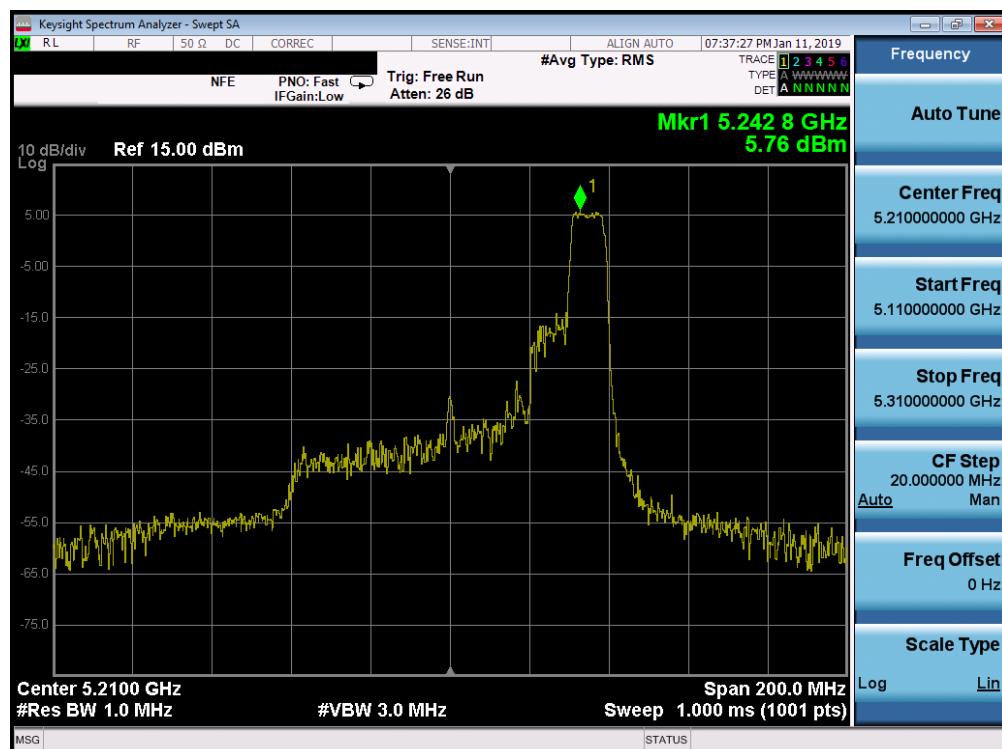


Plot 7-166. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 138 of 514

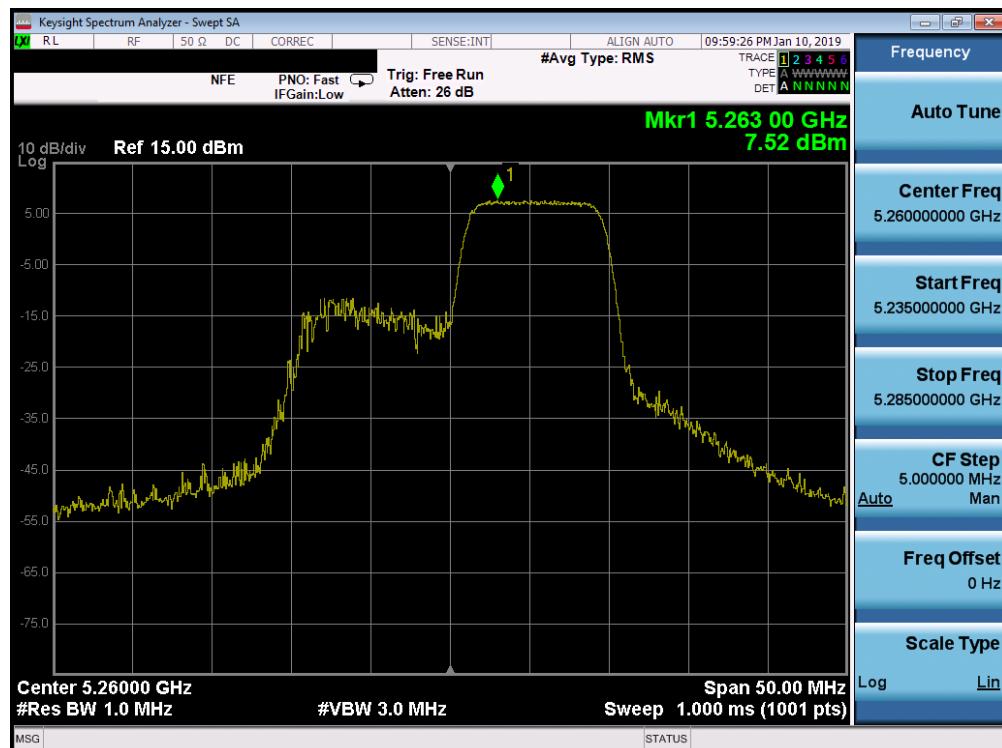


Plot 7-167. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 46)

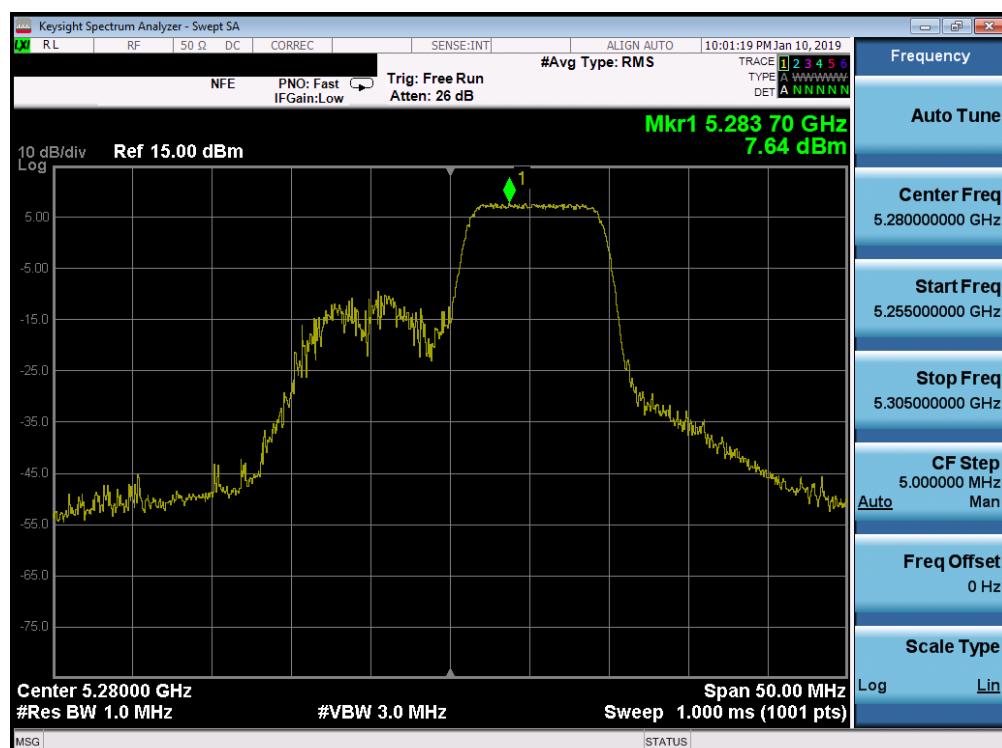


Plot 7-168. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 139 of 514

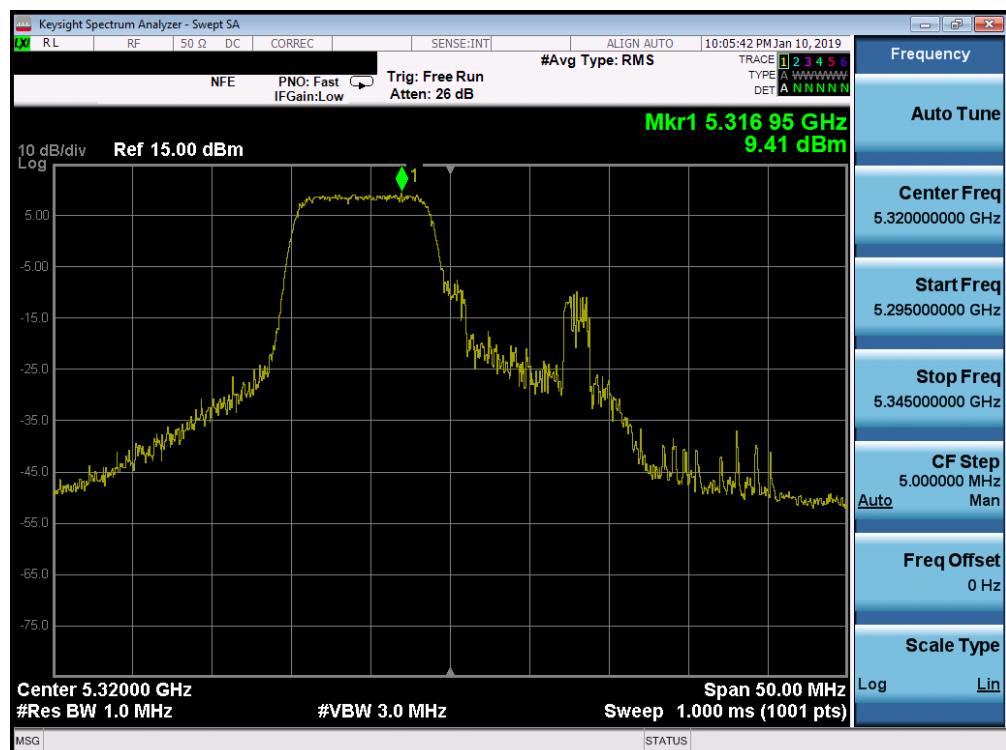


Plot 7-169. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 52)

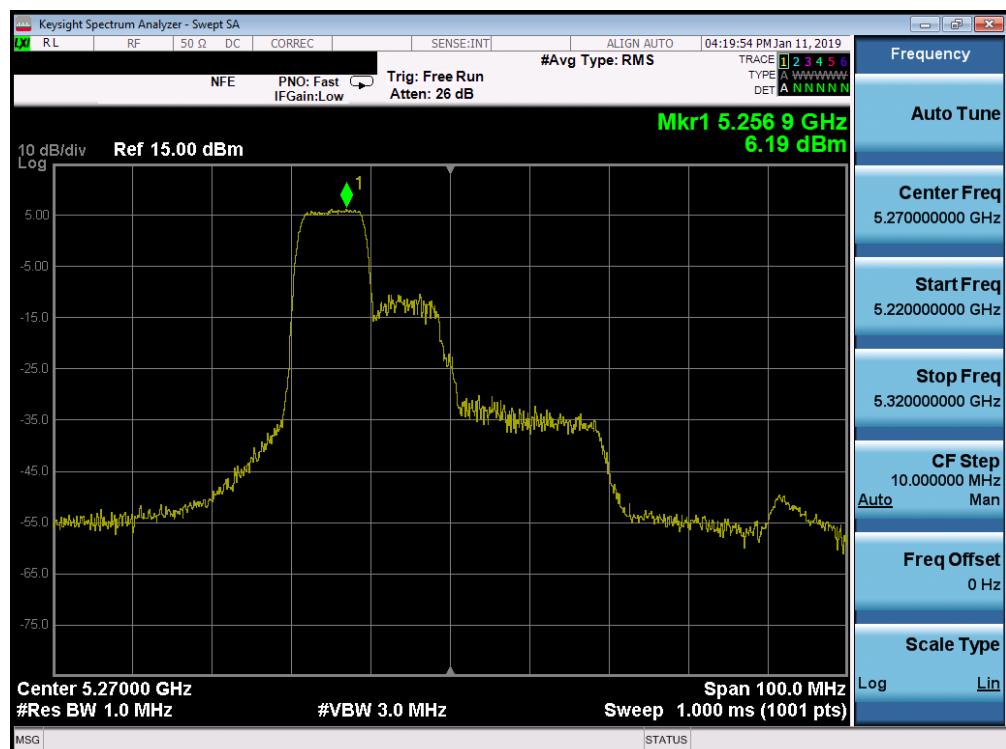


Plot 7-170. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 140 of 514

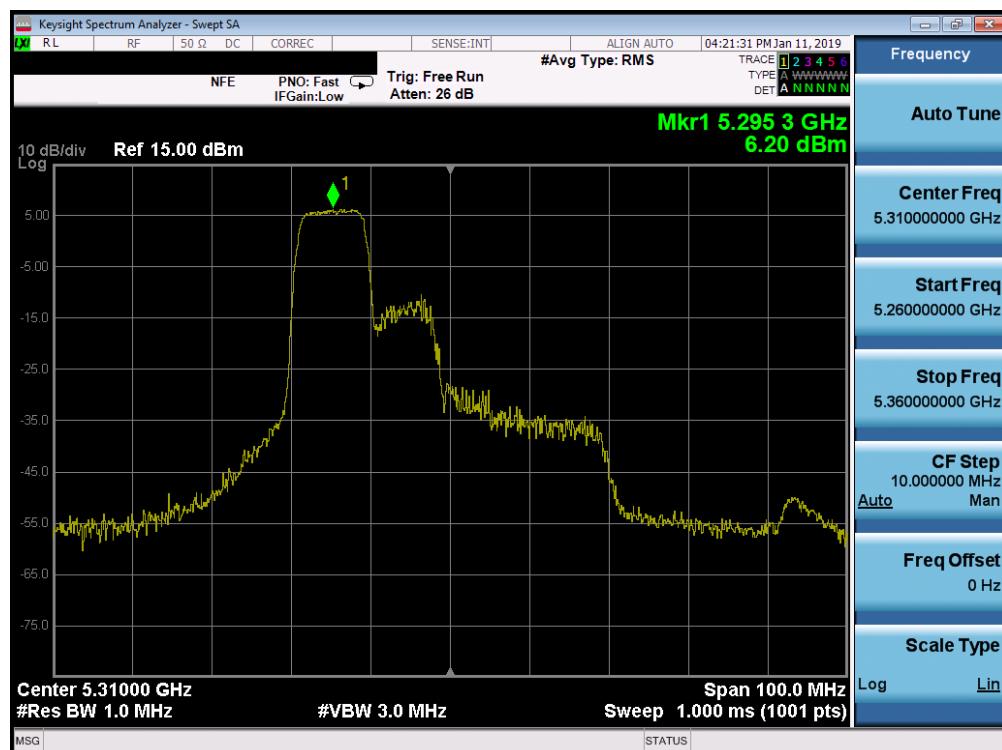


Plot 7-171. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 64)

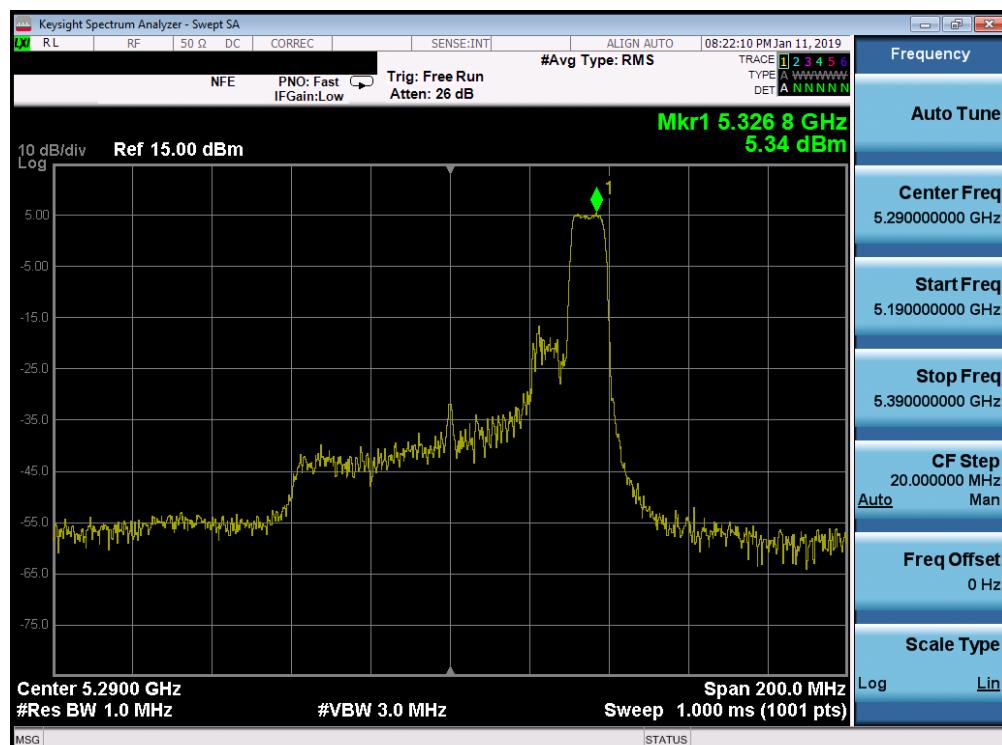


Plot 7-172. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 141 of 514

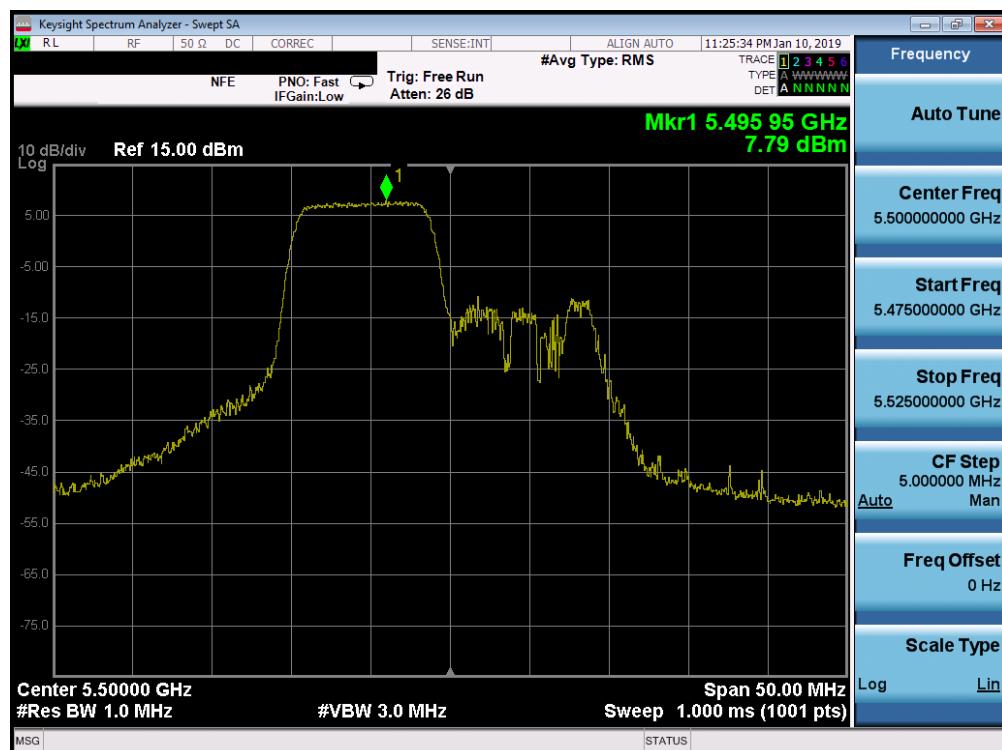


Plot 7-173. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 62)

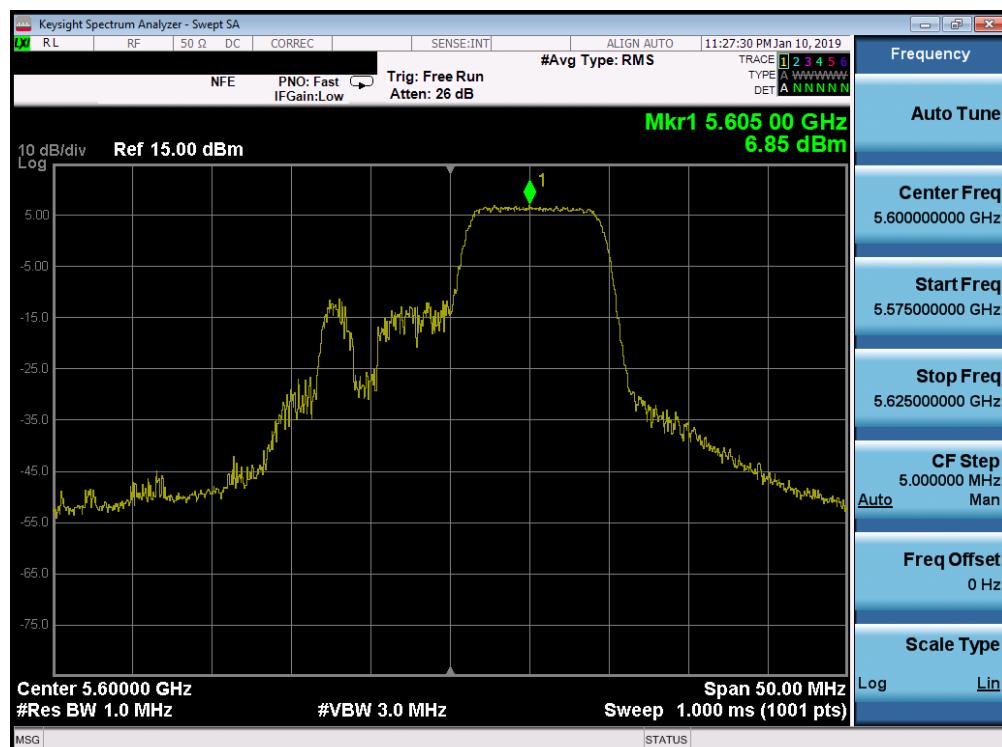


Plot 7-174. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 142 of 514

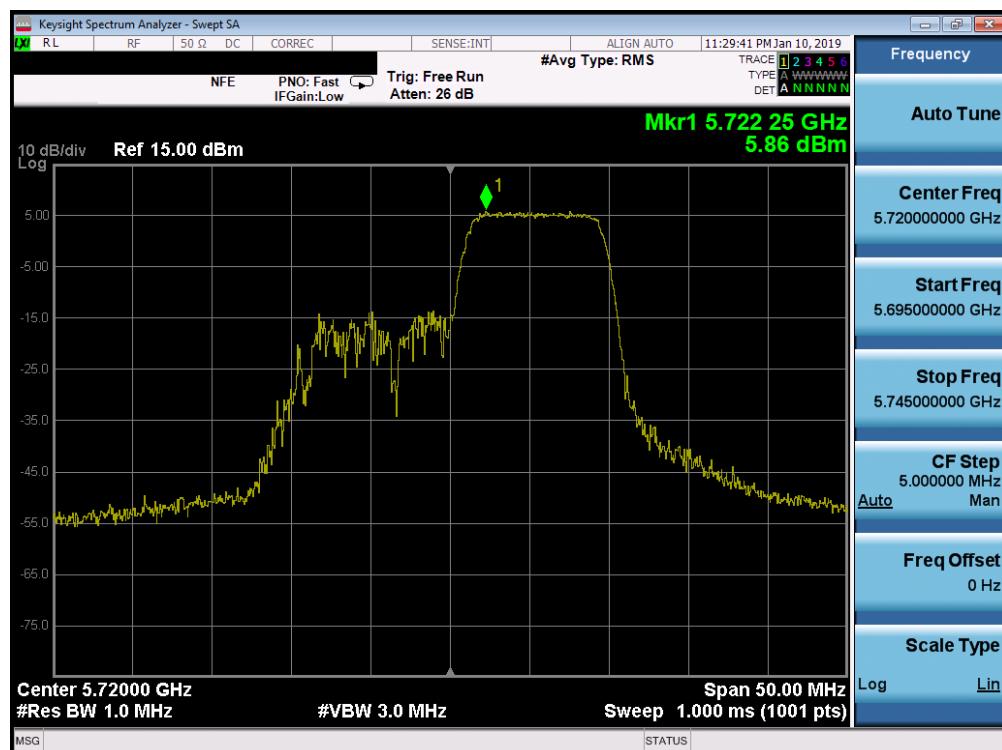


Plot 7-175. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 100)

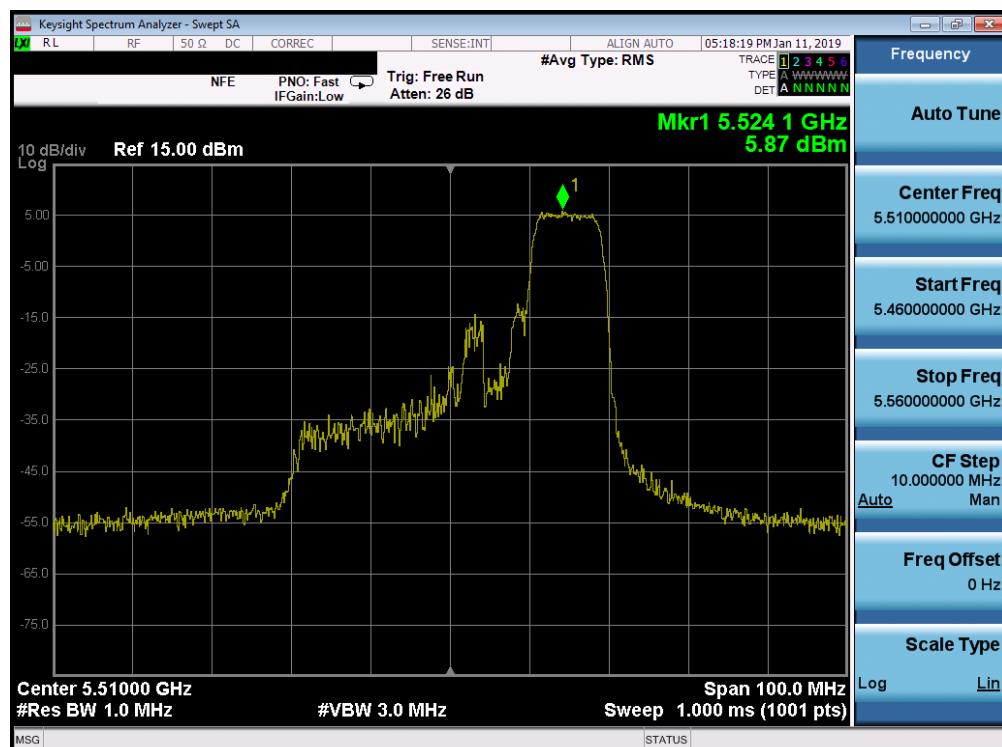


Plot 7-176. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 143 of 514

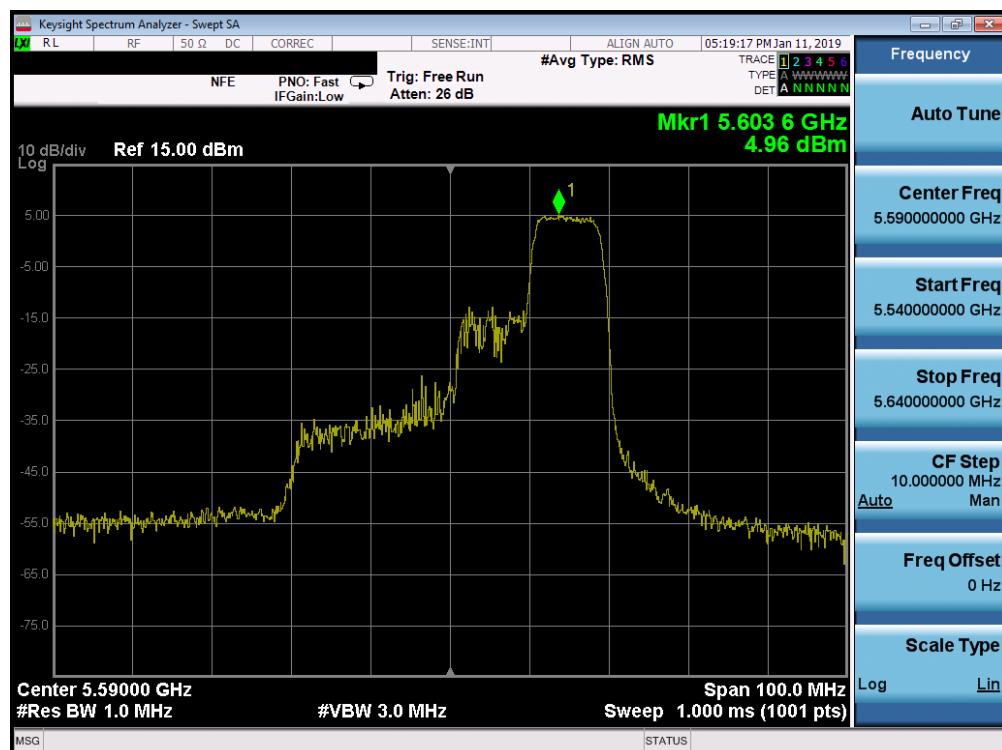


Plot 7-177. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 144)

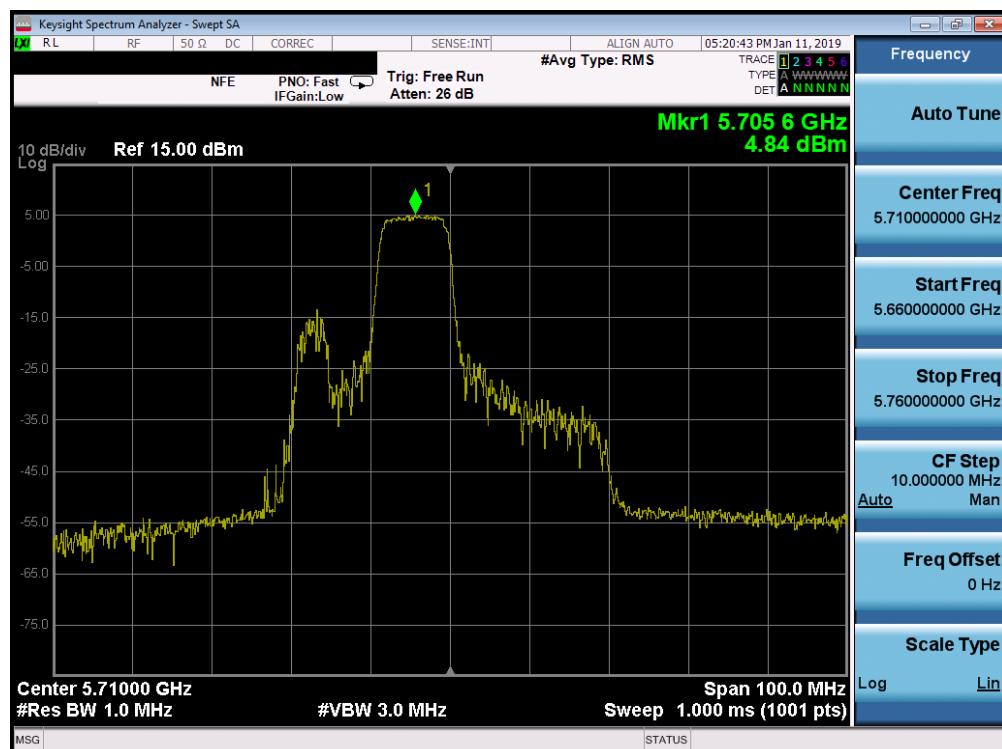


Plot 7-178. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 144 of 514

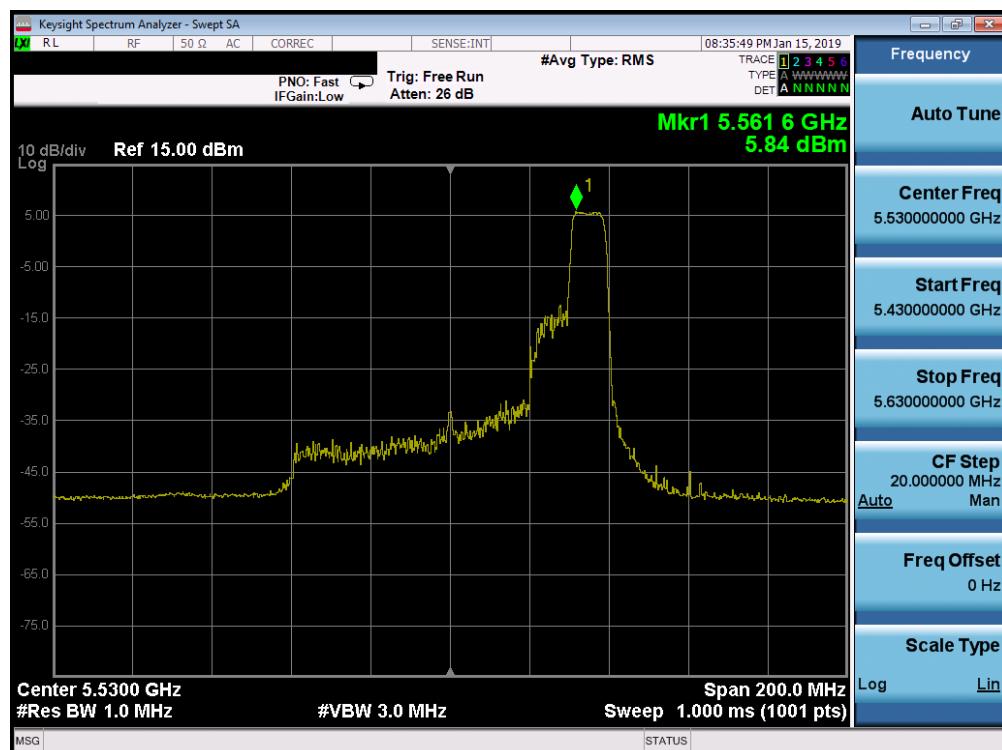


Plot 7-179. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 118)

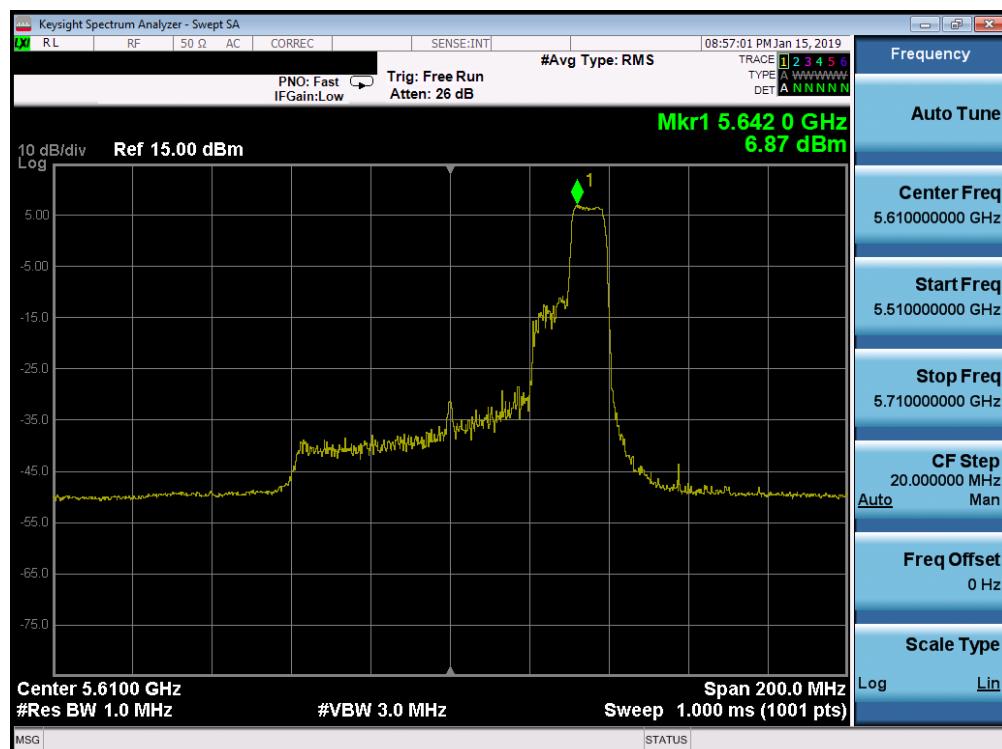


Plot 7-180. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 145 of 514

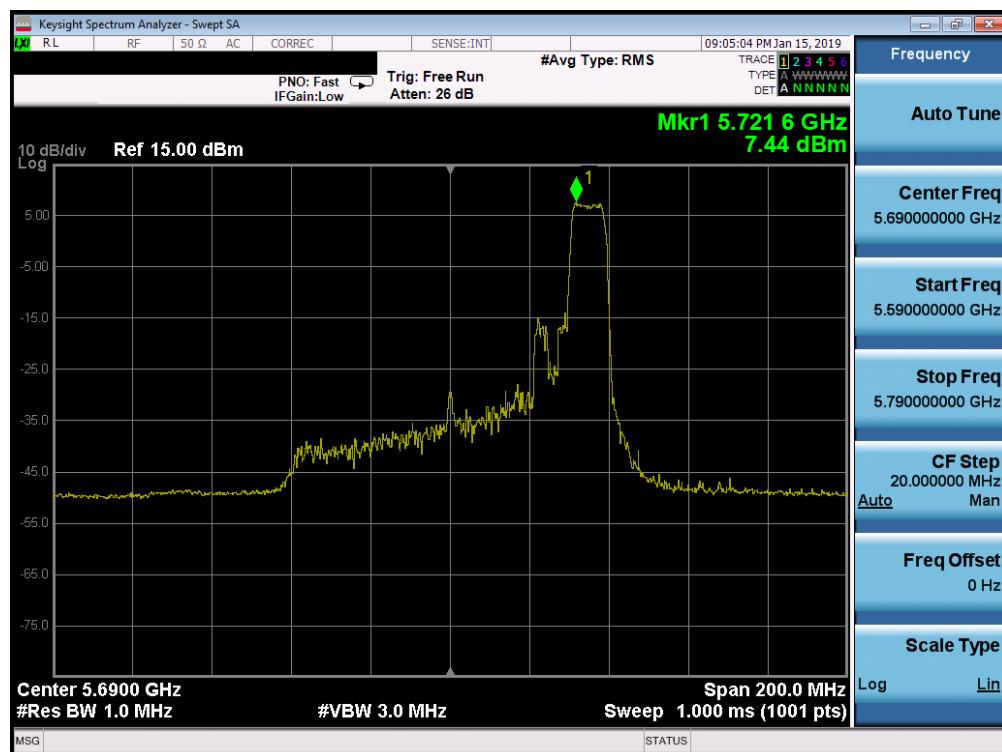


Plot 7-181. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 106)



Plot 7-182. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 146 of 514

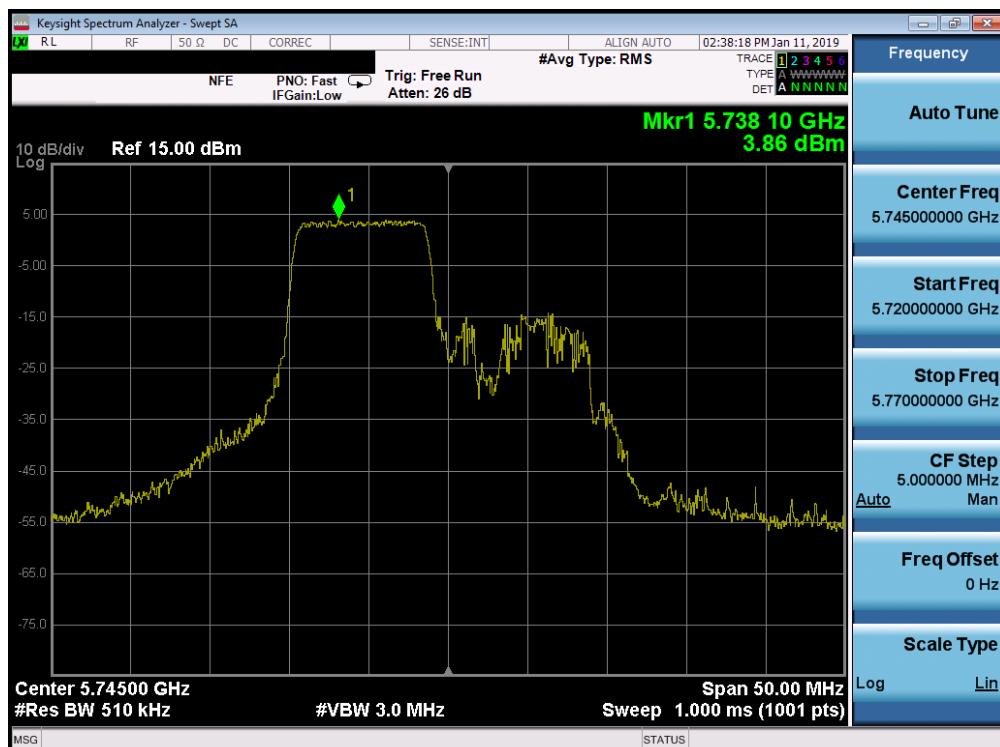


Plot 7-183. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 147 of 514

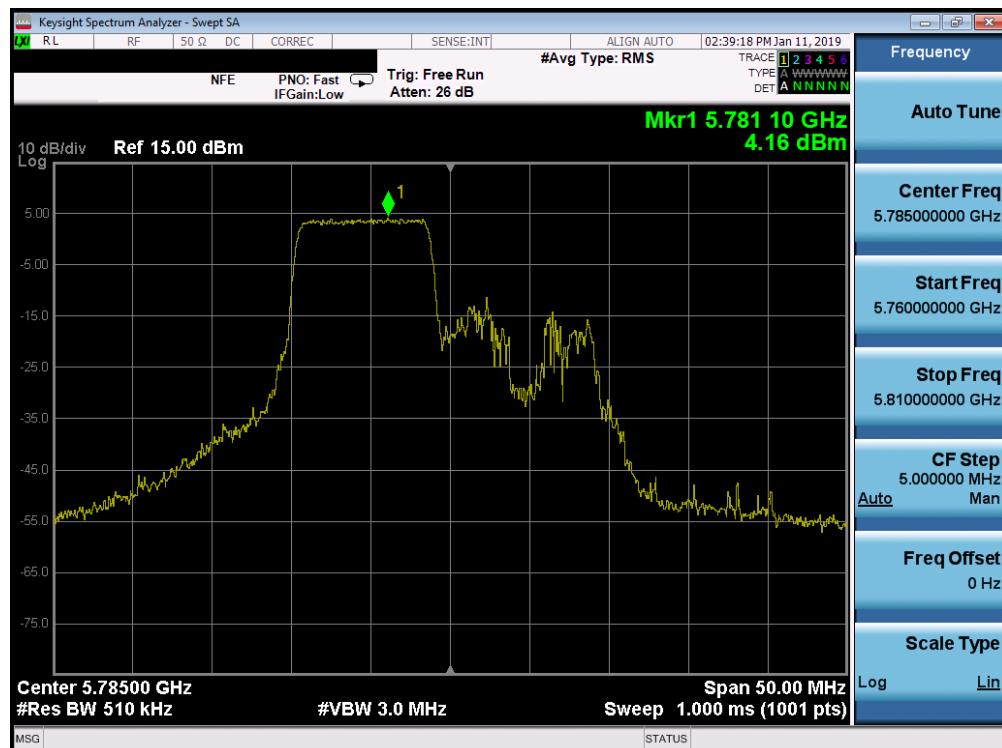
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	106T	MCS0	3.86	30.00	-26.14
	5785	157	ax (20MHz)	106T	MCS0	4.16	30.00	-25.84
	5825	165	ax (20MHz)	106T	MCS0	3.28	30.00	-26.72
	5755	151	ax (40MHz)	106T	MCS0	2.74	30.00	-27.26
	5795	159	ax (40MHz)	106T	MCS0	3.33	30.00	-26.67
	5775	155	ax (80MHz)	106T	MCS0	7.21	30.00	-22.79

Table 7-71. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (106 Tones)

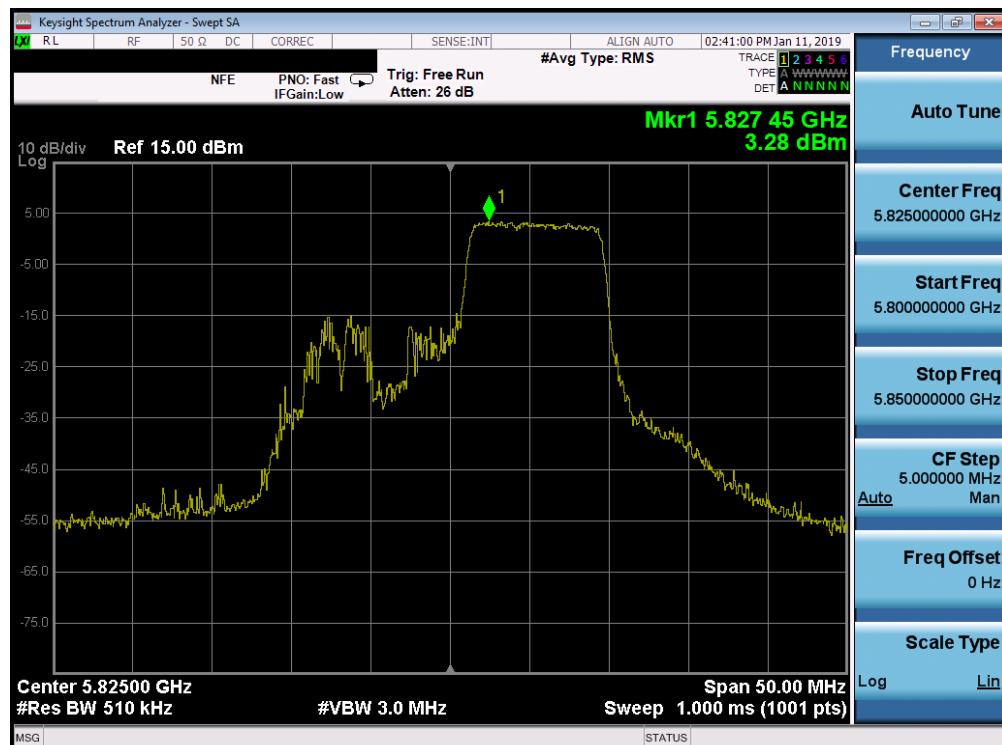


Plot 7-184. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset	Page 148 of 514	

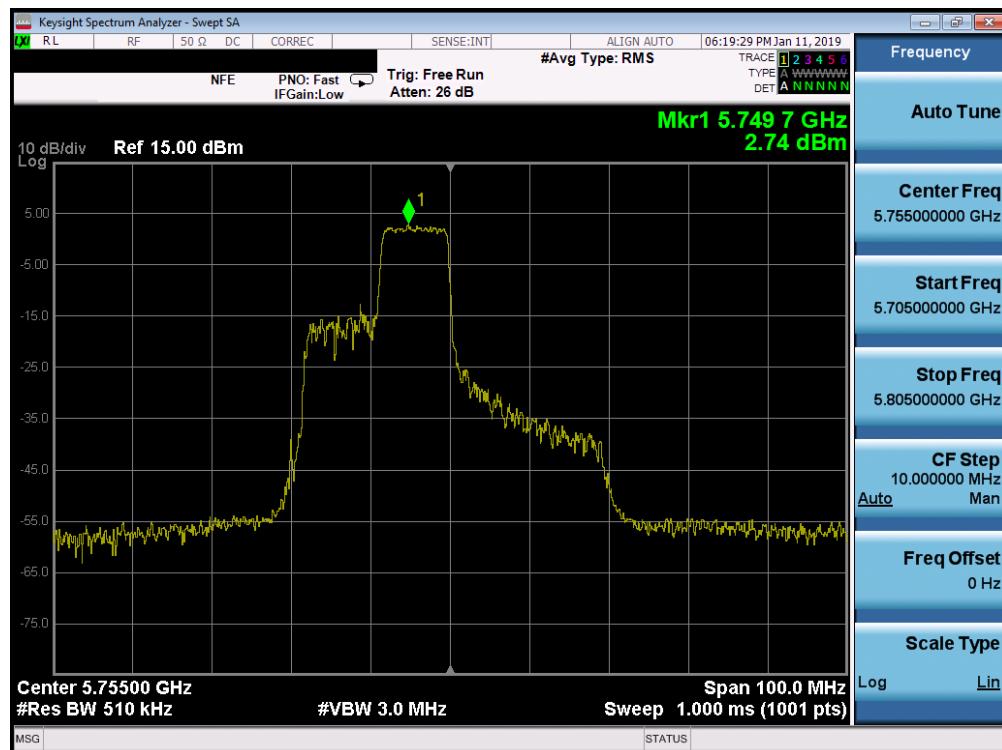


Plot 7-185. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 157)

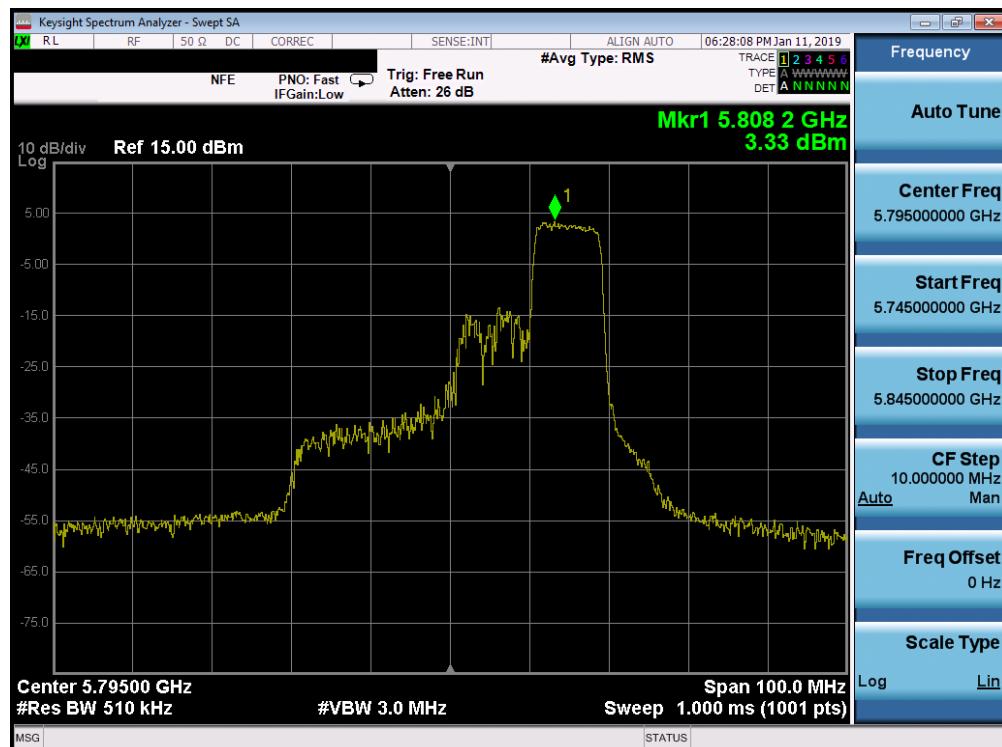


Plot 7-186. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 149 of 514

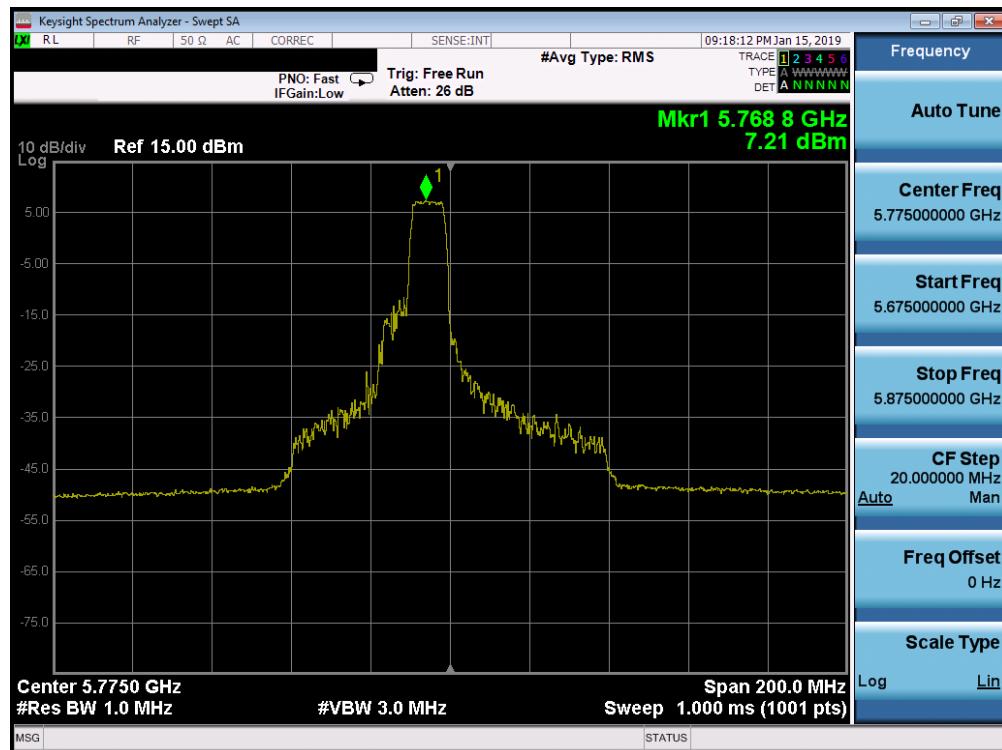


Plot 7-187. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 151)



Plot 7-188. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 150 of 514



FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 151 of 514

SISO Antenna-1 Power Spectral Density Measurements (242 Tones)

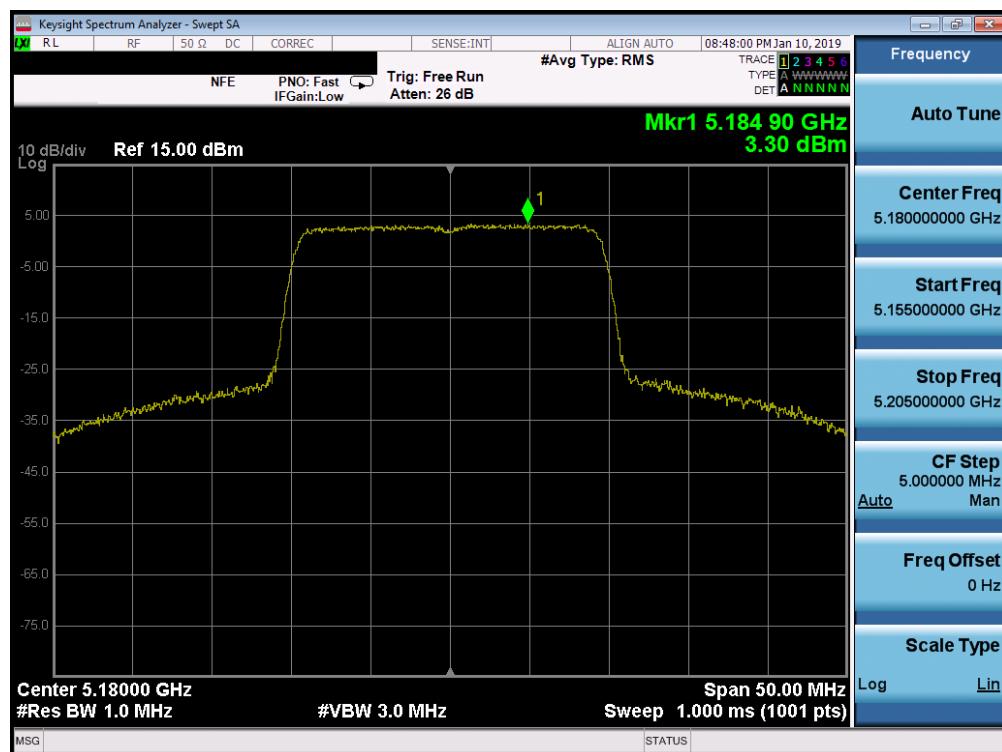
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	3.30	11.00	-7.70
	5200	40	ax (20MHz)	242T	MCS0	6.19	11.00	-4.81
	5240	48	ax (20MHz)	242T	MCS0	7.55	11.00	-3.45
	5190	38	ax (40MHz)	242T	MCS0	0.89	11.00	-10.11
	5230	46	ax (40MHz)	242T	MCS0	5.37	11.00	-5.63
	5210	42	ax (80MHz)	242T	MCS0	-0.57	11.00	-11.57
Band 2A	5260	52	ax (20MHz)	242T	MCS0	7.56	11.00	-3.44
	5280	56	ax (20MHz)	242T	MCS0	8.05	11.00	-2.95
	5320	64	ax (20MHz)	242T	MCS0	5.00	11.00	-6.00
	5270	54	ax (40MHz)	242T	MCS0	5.39	11.00	-5.61
	5310	62	ax (40MHz)	242T	MCS0	0.39	11.00	-10.61
	5290	58	ax (80MHz)	242T	MCS0	-0.54	11.00	-11.54
Band 2C	5500	100	ax (20MHz)	242T	MCS0	7.93	11.00	-3.07
	5600	120	ax (20MHz)	242T	MCS0	6.54	11.00	-4.46
	5720	144	ax (20MHz)	242T	MCS0	6.66	11.00	-4.34
	5510	102	ax (40MHz)	242T	MCS0	0.11	11.00	-10.89
	5590	118	ax (40MHz)	242T	MCS0	4.24	11.00	-6.76
	5710	142	ax (40MHz)	242T	MCS0	4.61	11.00	-6.39
	5530	106	ax (80MHz)	242T	MCS0	0.64	11.00	-10.36
	5610	122	ax (80MHz)	242T	MCS0	6.19	11.00	-4.81
	5690	138	ax (80MHz)	242T	MCS0	6.44	11.00	-4.56

Table 7-72. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (242 Tones)

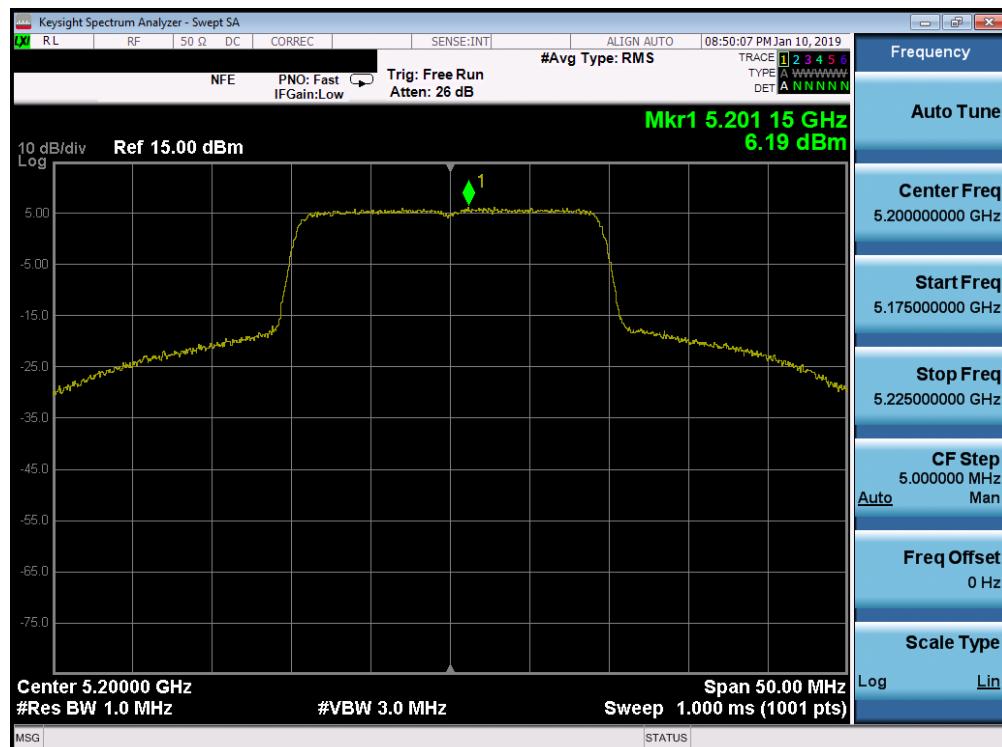
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	3.30	-7.94	-4.64	10.0	-14.64
	5200	40	ax (20MHz)	242T	MCS0	6.19	-7.51	-1.32	10.0	-11.32
	5240	48	ax (20MHz)	242T	MCS0	7.55	-7.44	0.11	10.0	-9.89
	5190	38	ax (40MHz)	242T	MCS0	0.89	-7.94	-7.05	10.0	-17.05
	5230	46	ax (40MHz)	242T	MCS0	5.37	-7.44	-2.07	10.0	-12.07
	5210	42	ax (80MHz)	242T	MCS0	-0.57	-7.94	-8.51	10.0	-18.51

Table 7-73. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 242 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset					Page 152 of 514

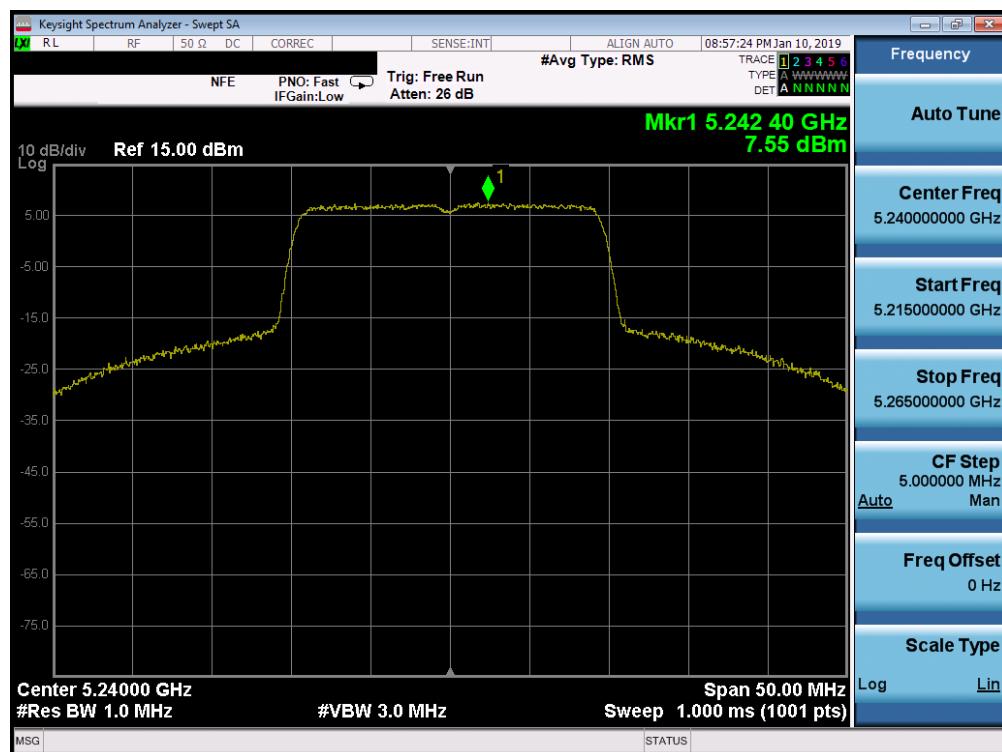


Plot 7-190. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 36)

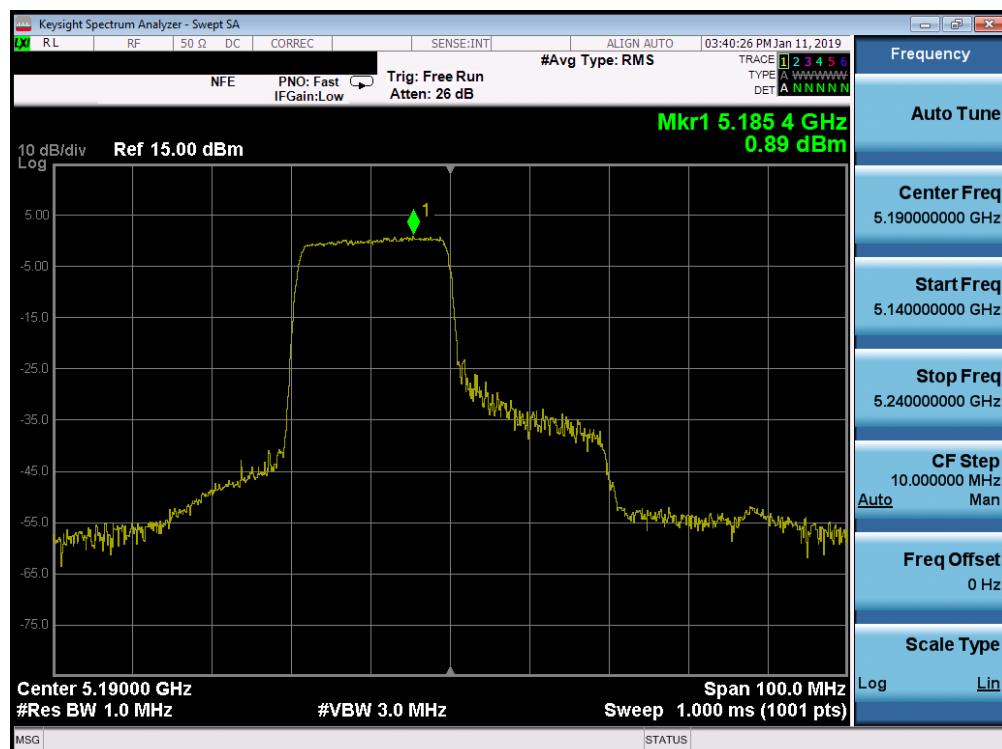


Plot 7-191. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 153 of 514

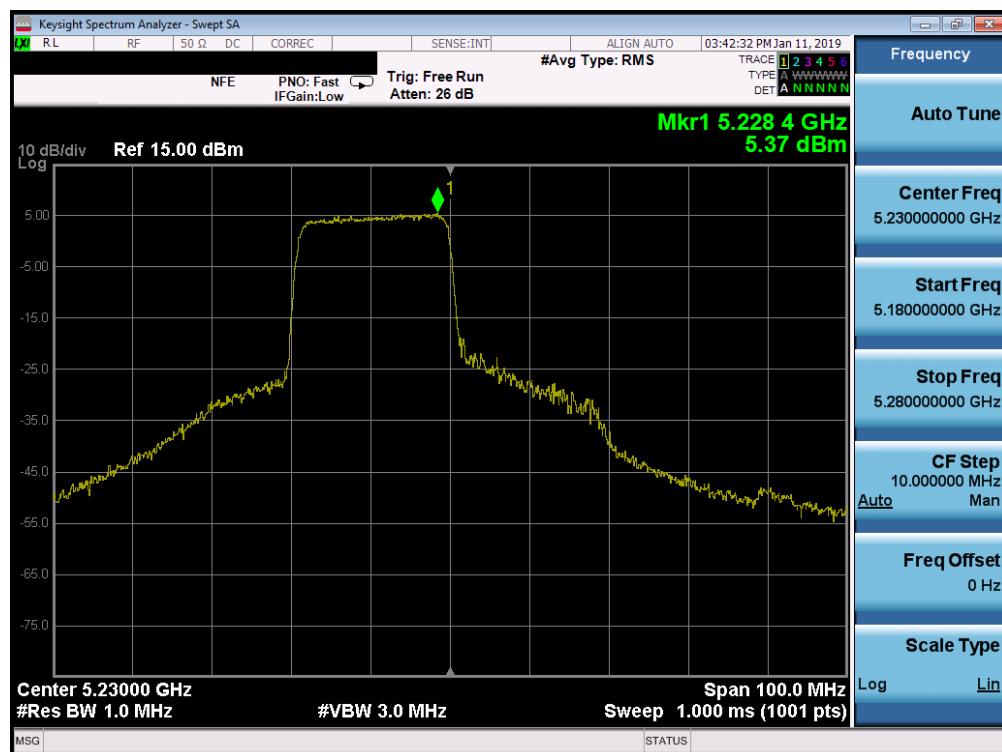


Plot 7-192. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 48)

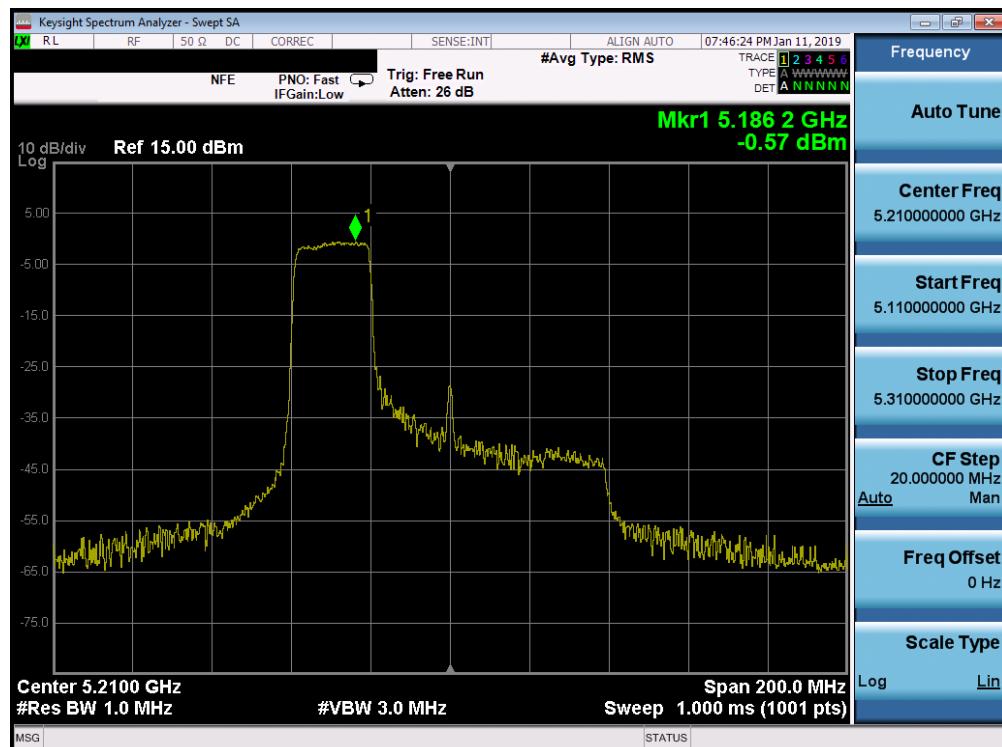


Plot 7-193. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 154 of 514

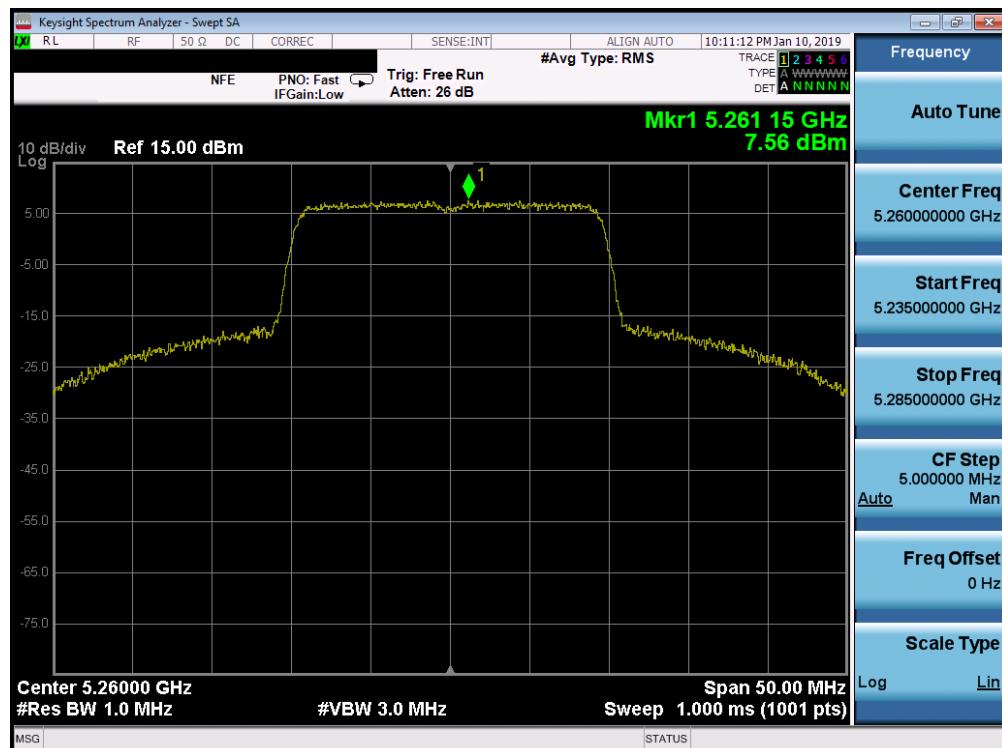


Plot 7-194. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 46)

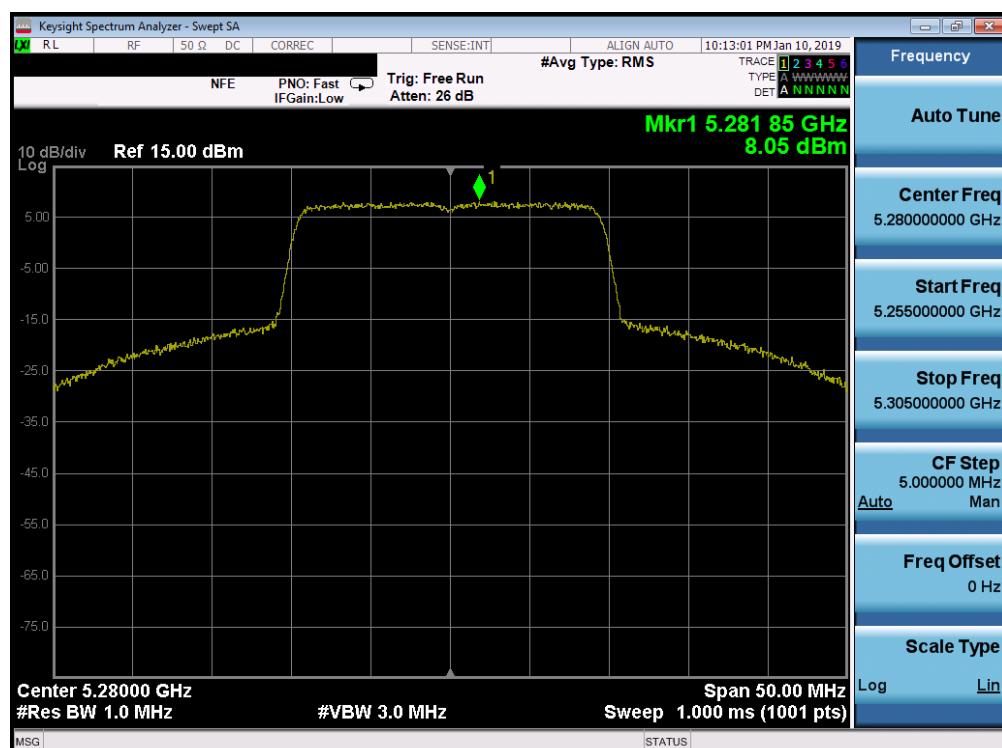


Plot 7-195. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 155 of 514

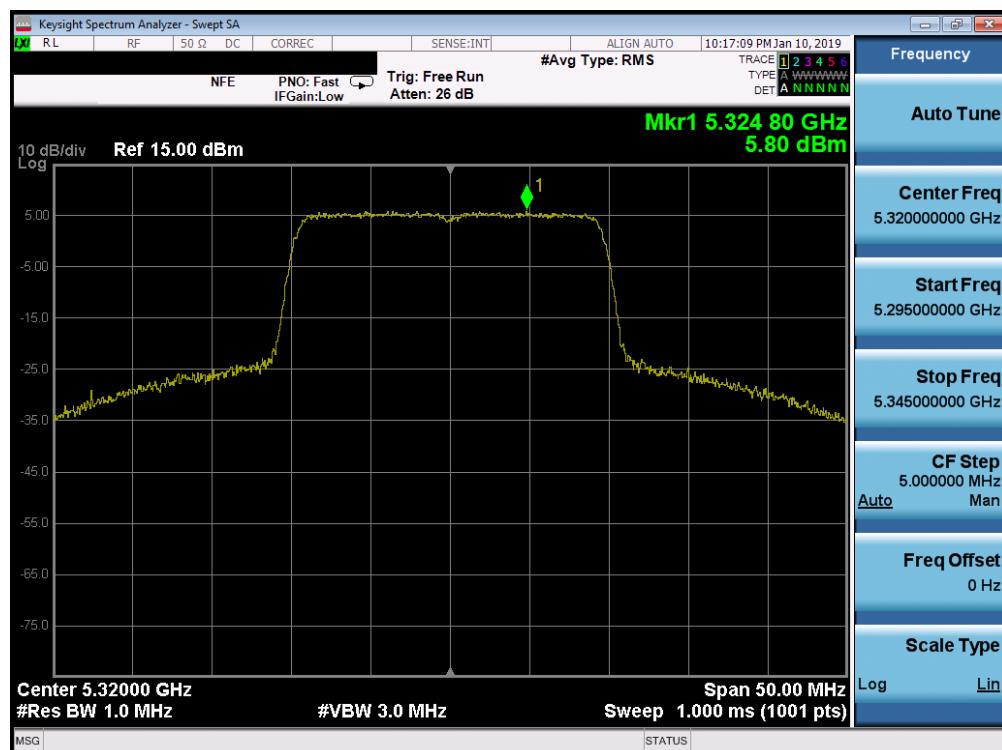


Plot 7-196. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 52)

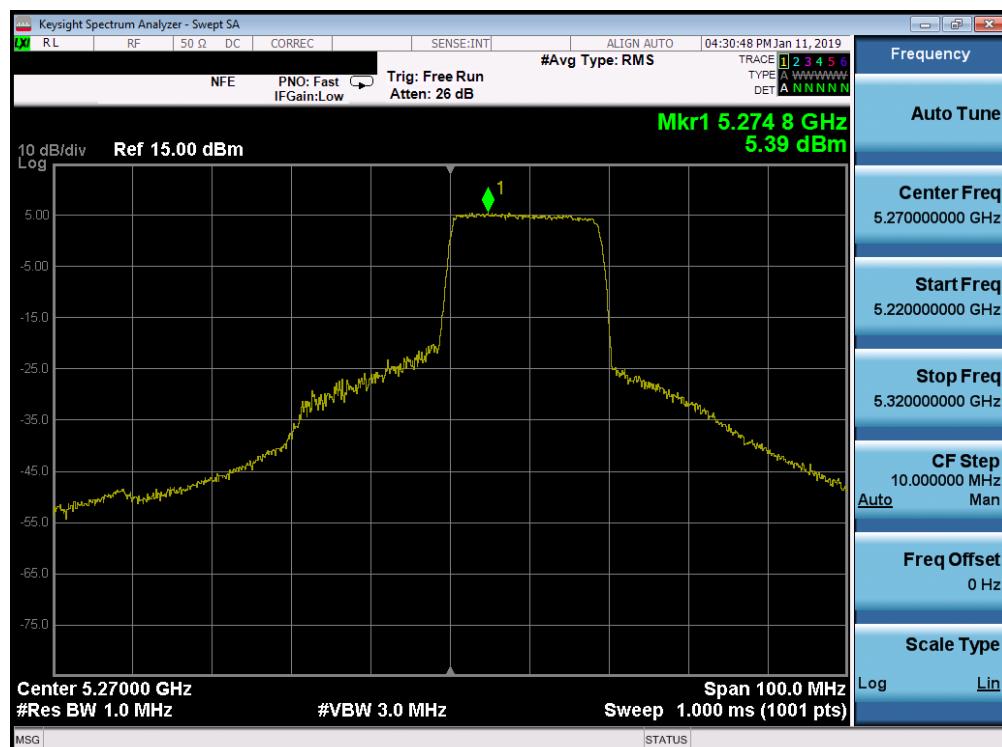


Plot 7-197. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 156 of 514

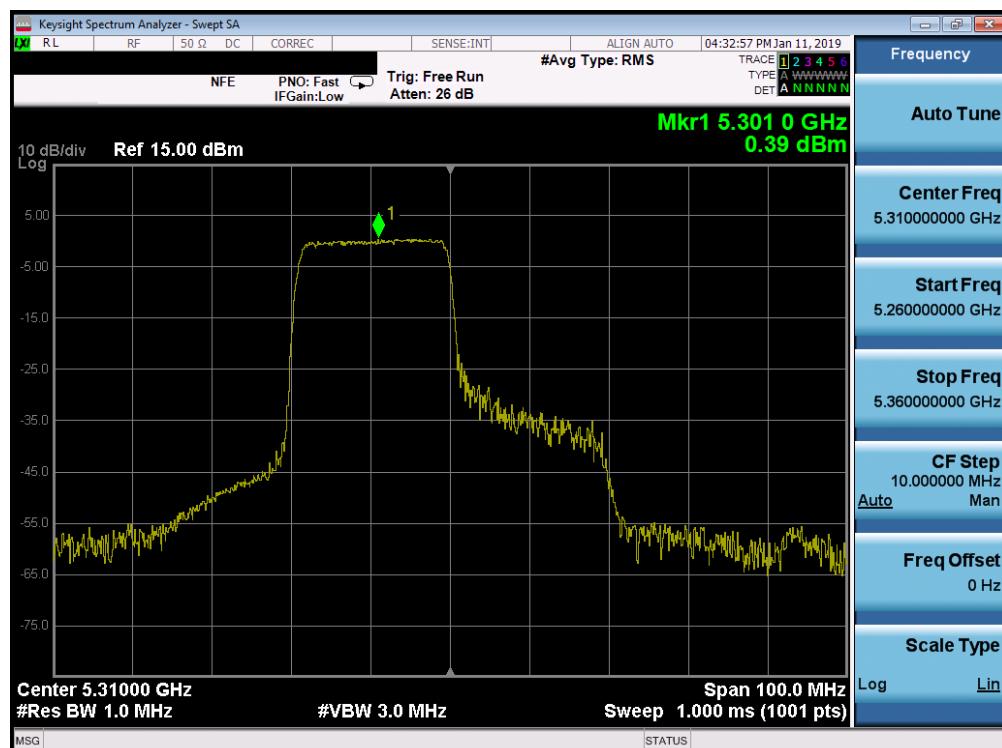


Plot 7-198. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 64)

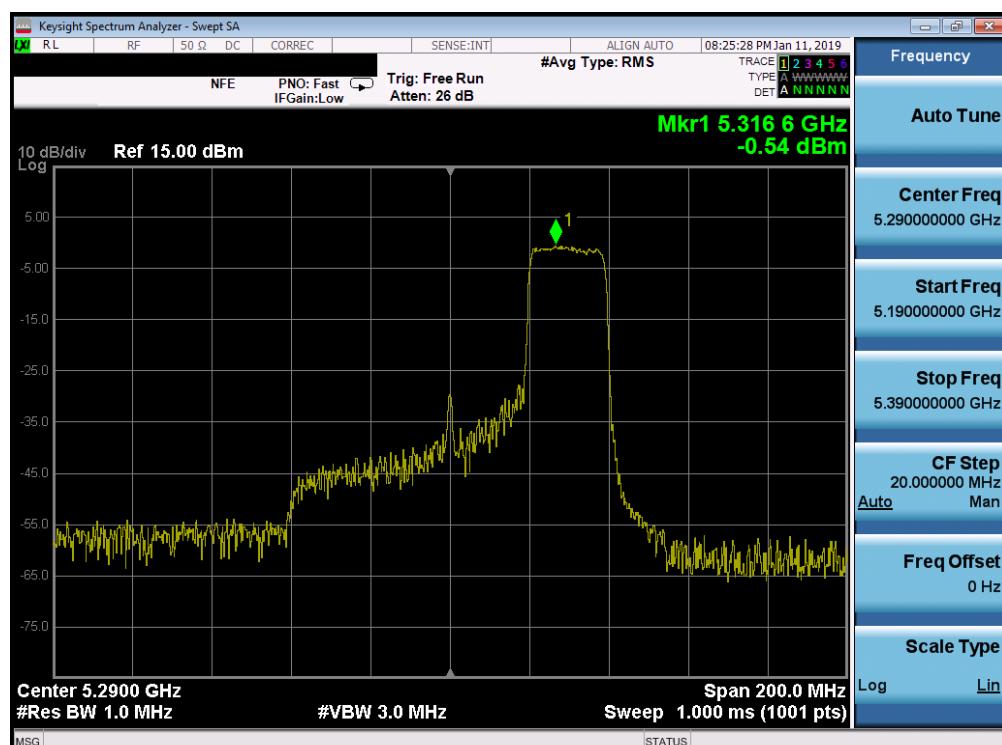


Plot 7-199. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 157 of 514

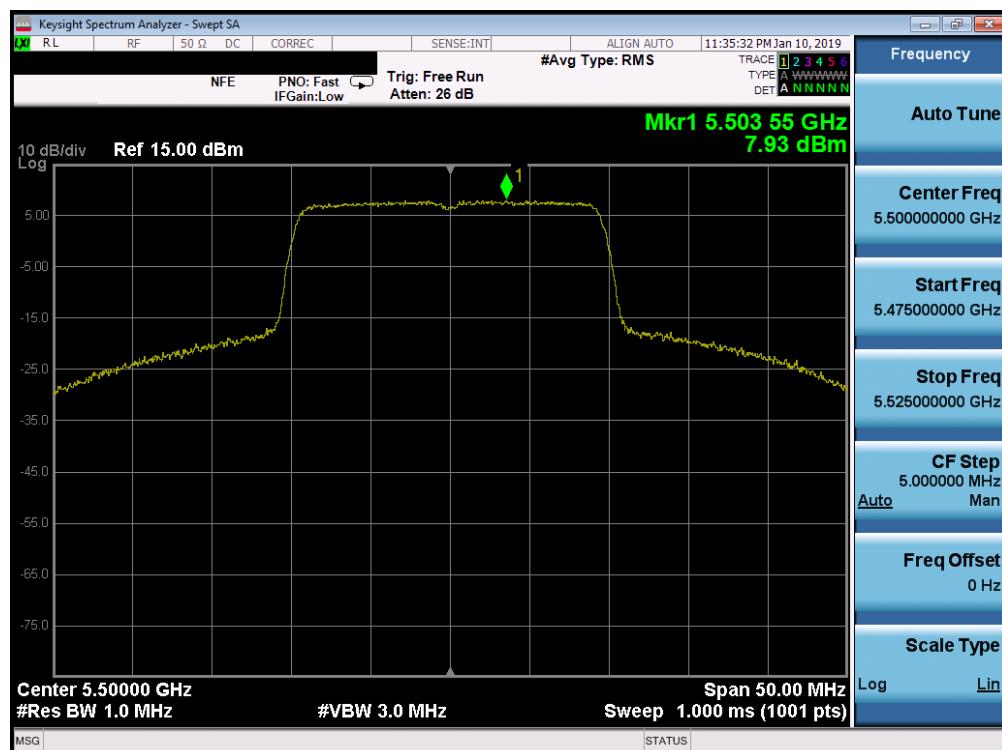


Plot 7-200. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 62)

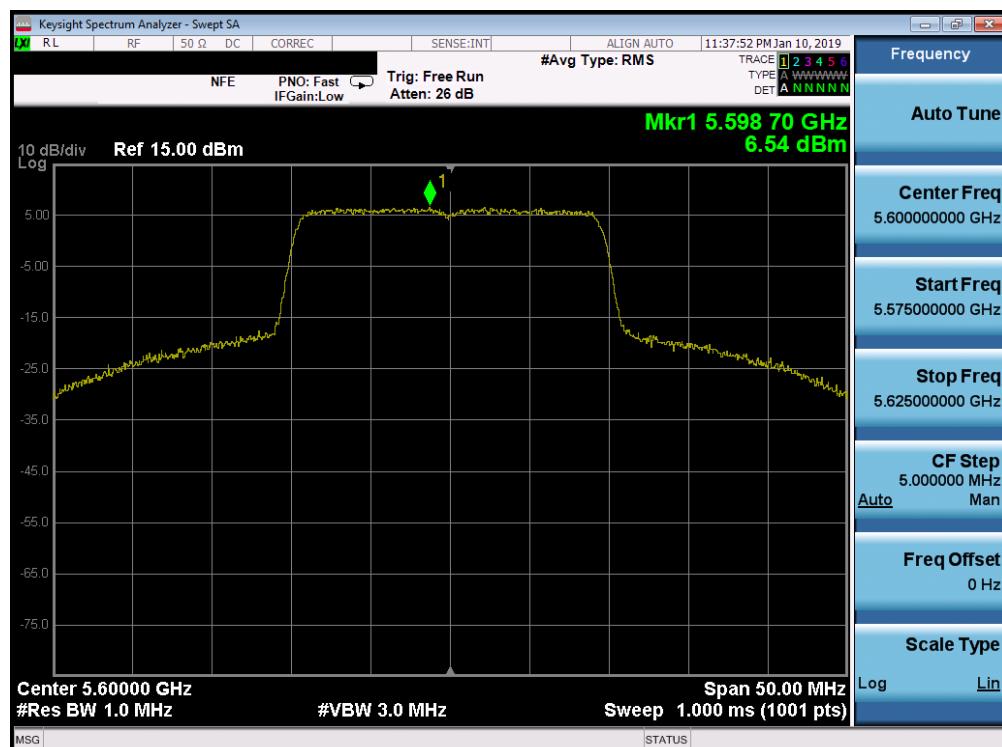


Plot 7-201. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 158 of 514

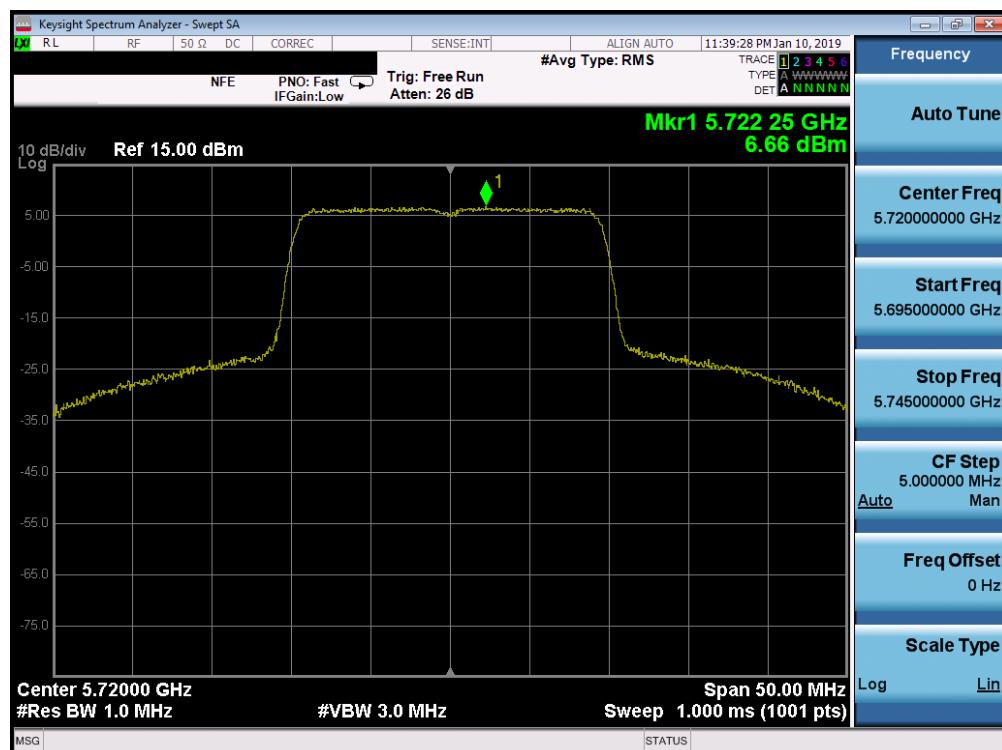


Plot 7-202. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)

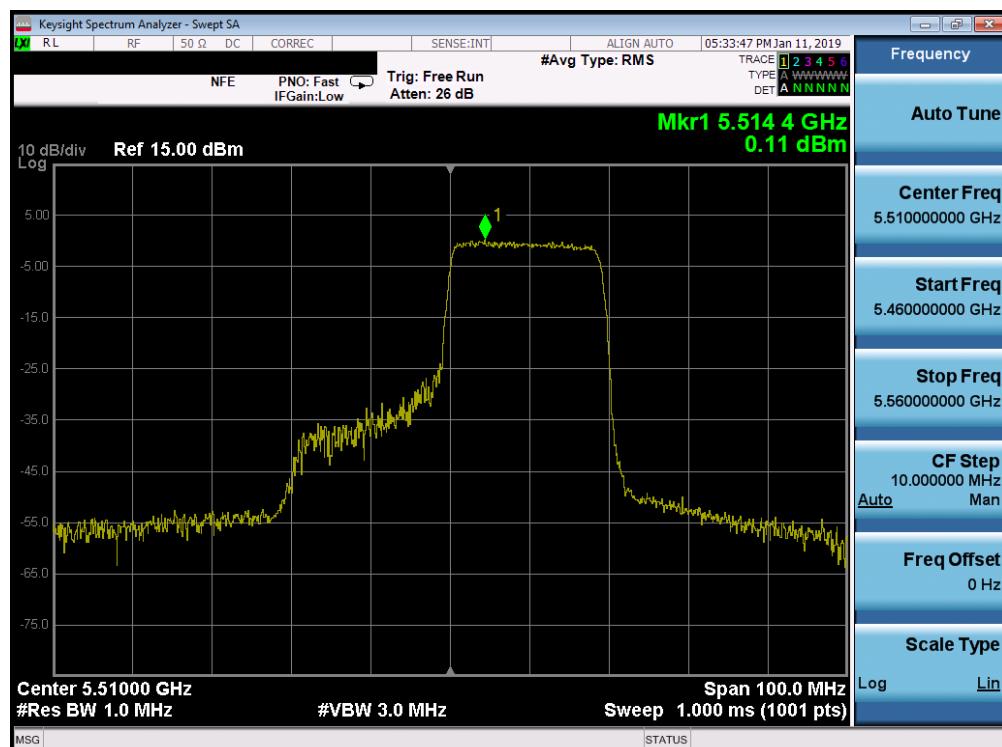


Plot 7-203. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 159 of 514

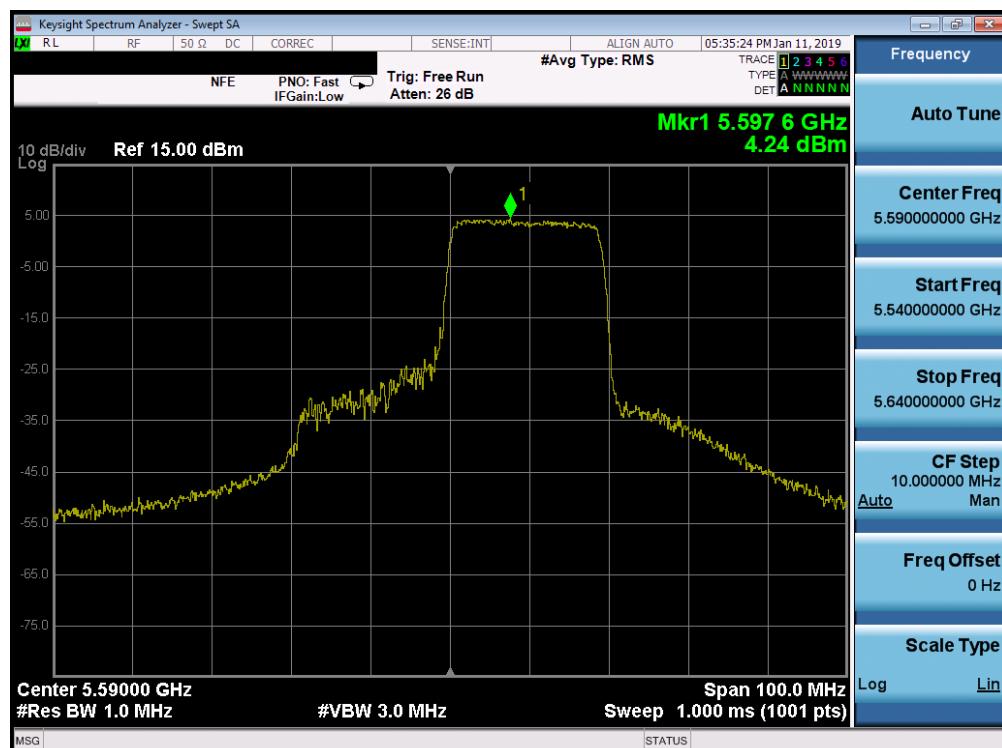


Plot 7-204. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 144)

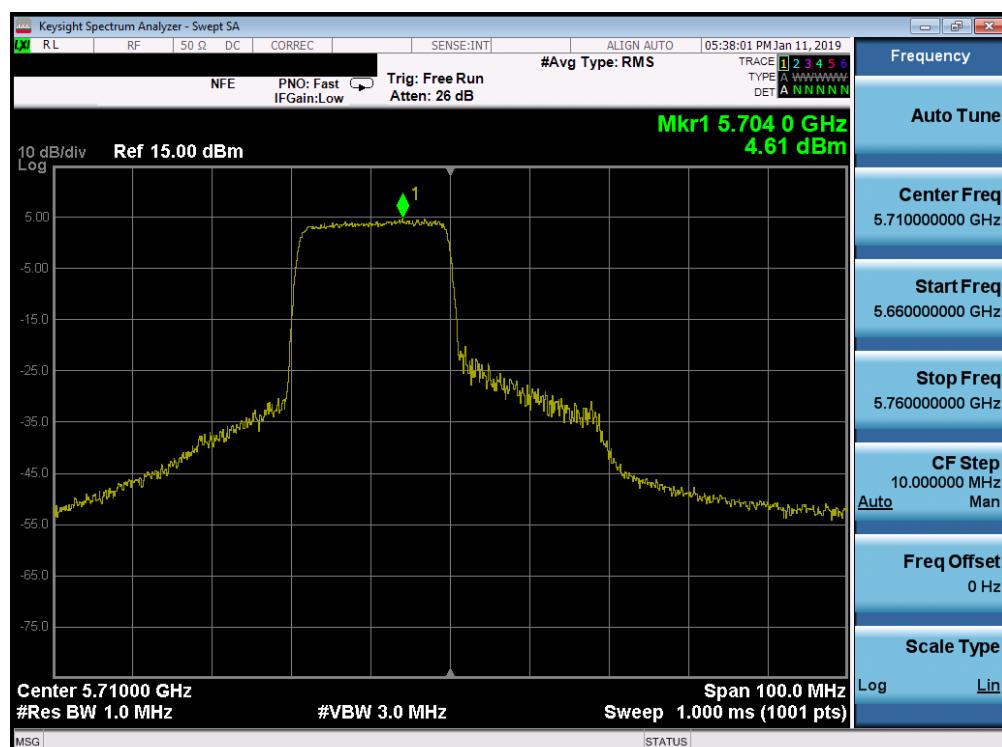


Plot 7-205. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-102.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 160 of 514

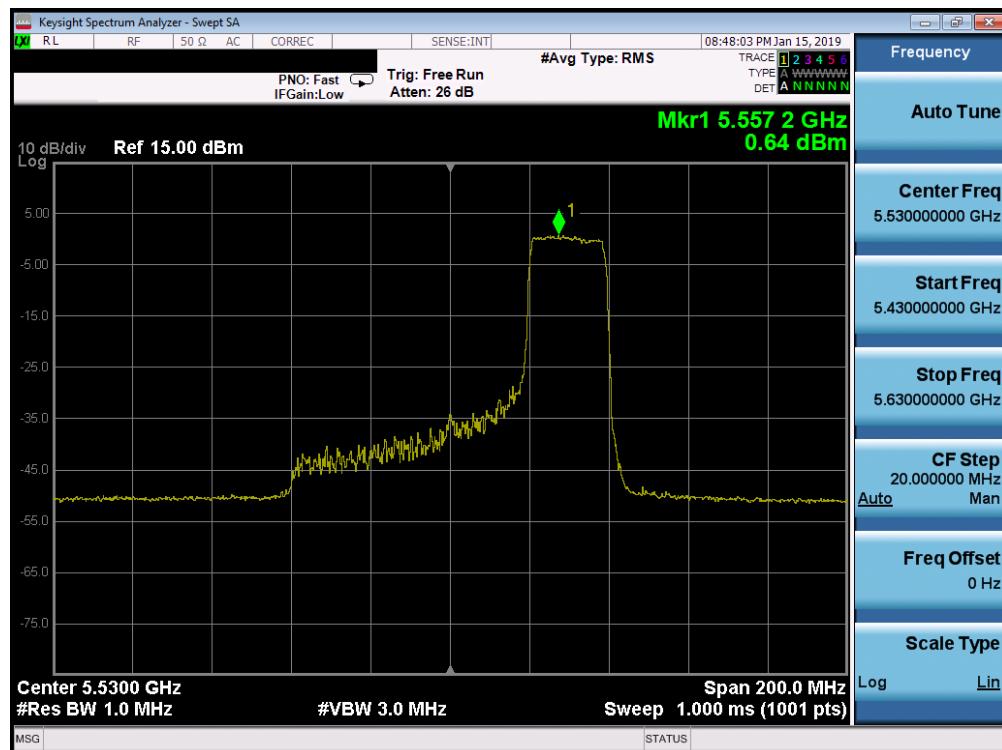


Plot 7-206. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 118)



Plot 7-207. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 161 of 514

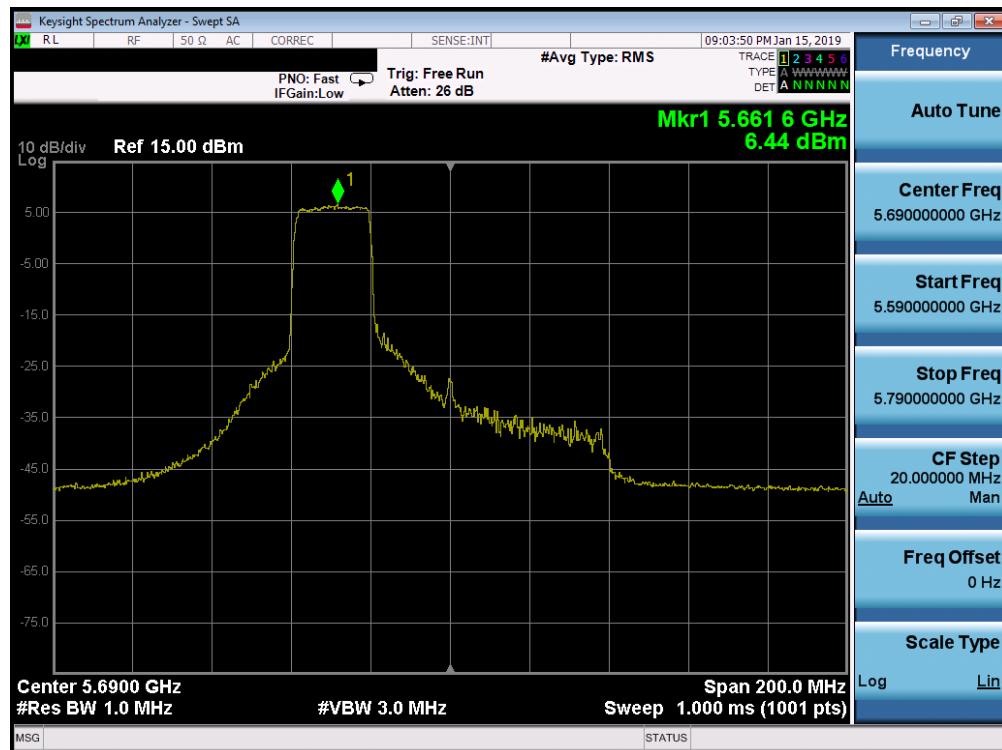


Plot 7-208. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 106)



Plot 7-209. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 162 of 514

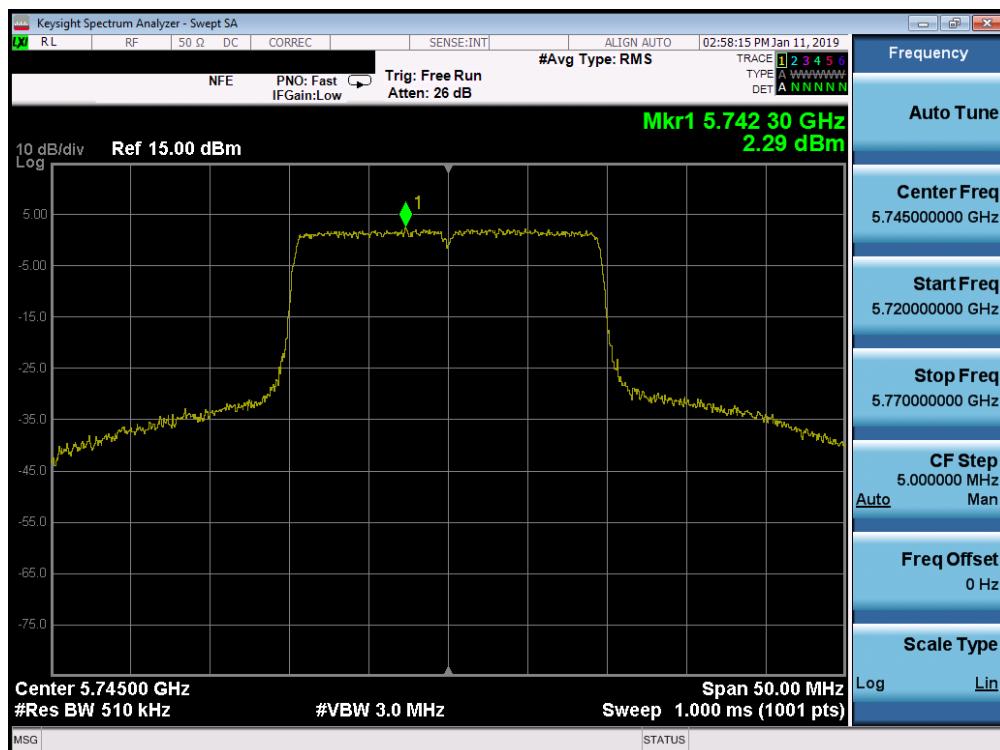


Plot 7-210. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 163 of 514

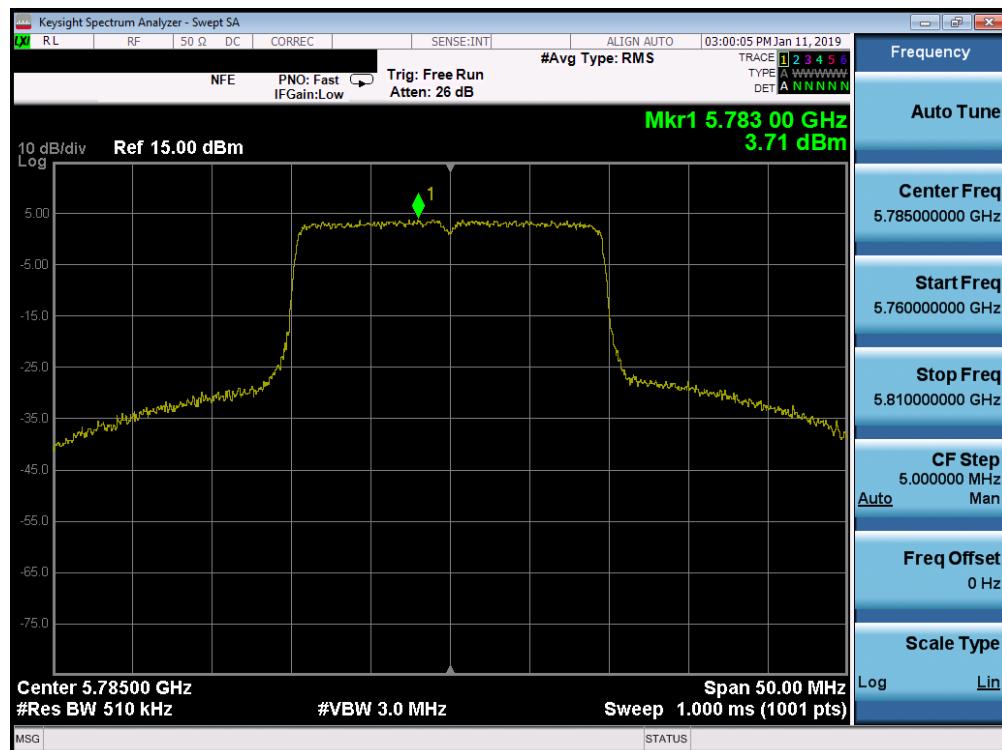
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	2.29	30.00	-27.71
	5785	157	ax (20MHz)	242T	MCS0	3.71	30.00	-26.29
	5825	165	ax (20MHz)	242T	MCS0	2.37	30.00	-27.63
	5755	151	ax (40MHz)	242T	MCS0	2.33	30.00	-27.67
	5795	159	ax (40MHz)	242T	MCS0	2.89	30.00	-27.11
	5775	155	ax (80MHz)	242T	MCS0	7.25	30.00	-22.75

Table 7-74. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (242 Tones)

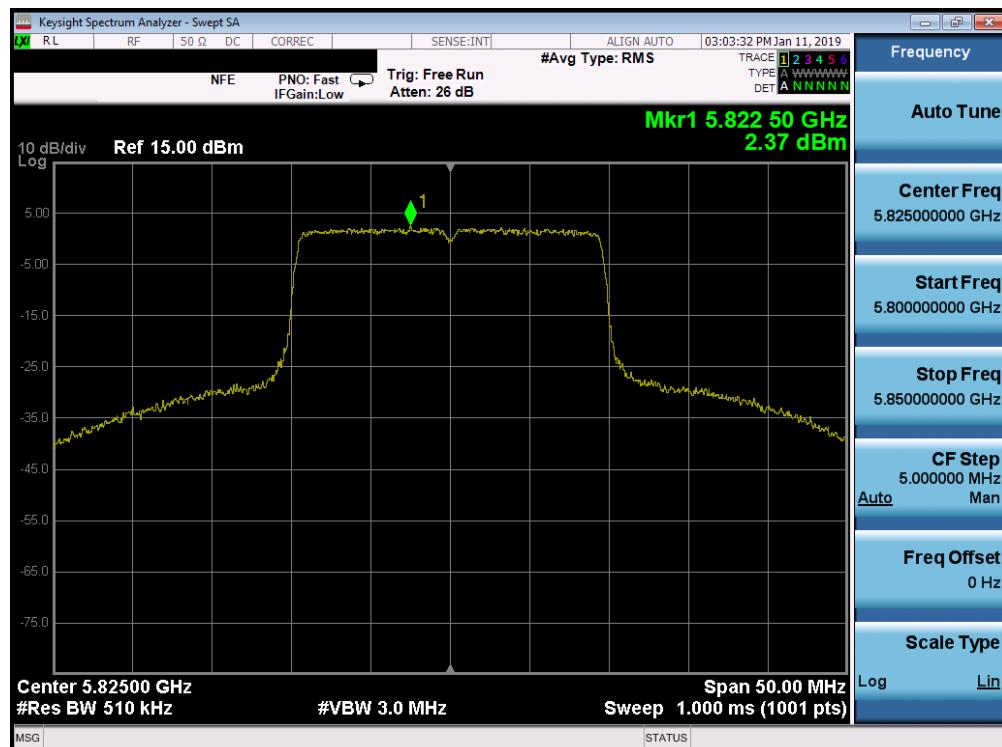


Plot 7-211. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset	Page 164 of 514	

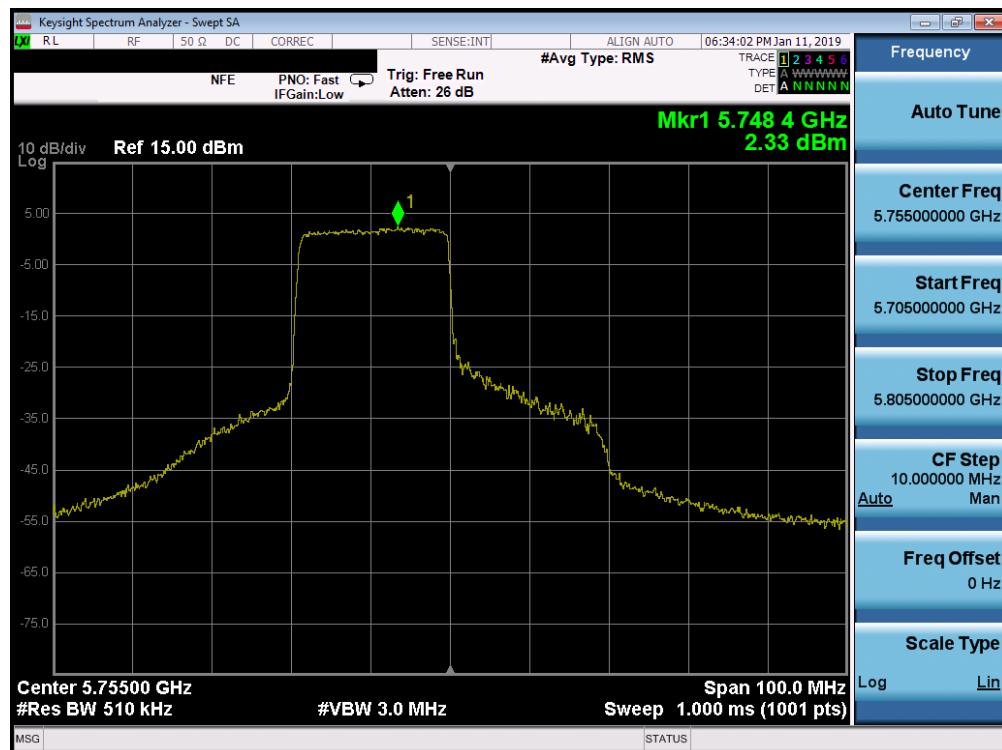


Plot 7-212. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

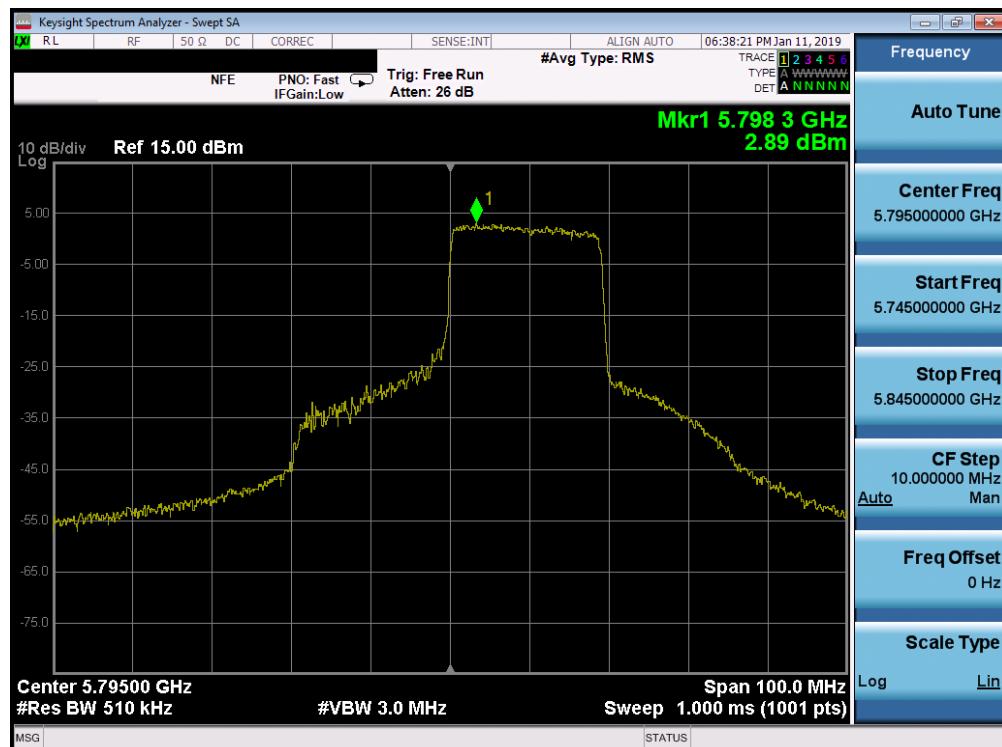


Plot 7-213. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 165 of 514

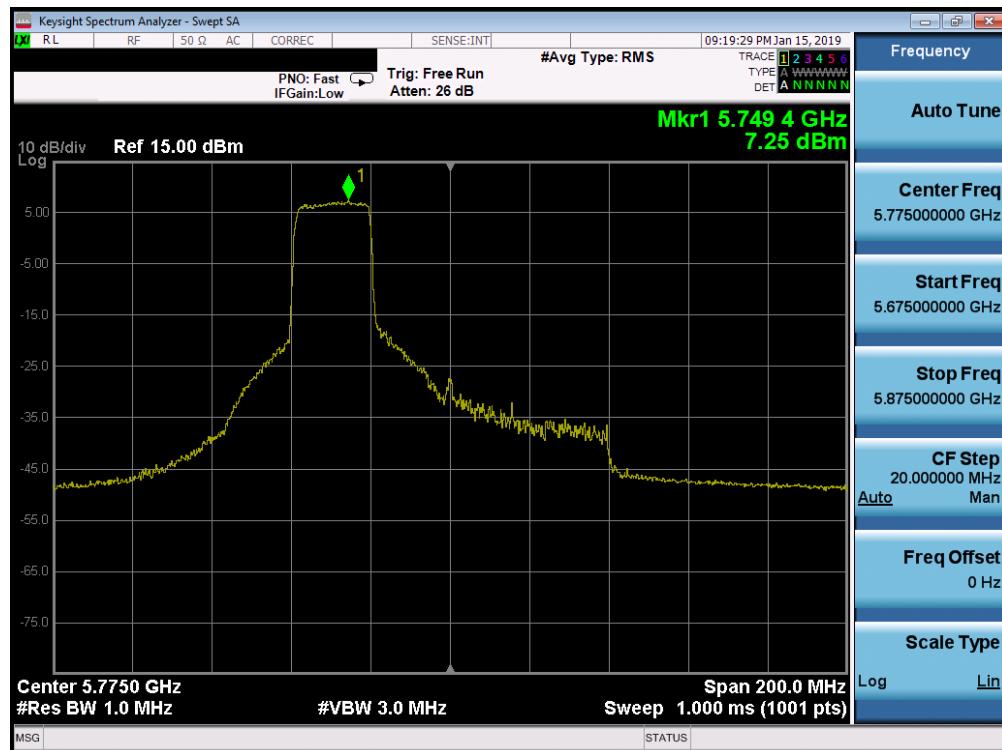


Plot 7-214. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 151)



Plot 7-215. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 166 of 514



Plot 7-216. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 167 of 514

SISO Antenna-1 Power Spectral Density Measurements (484 Tones)

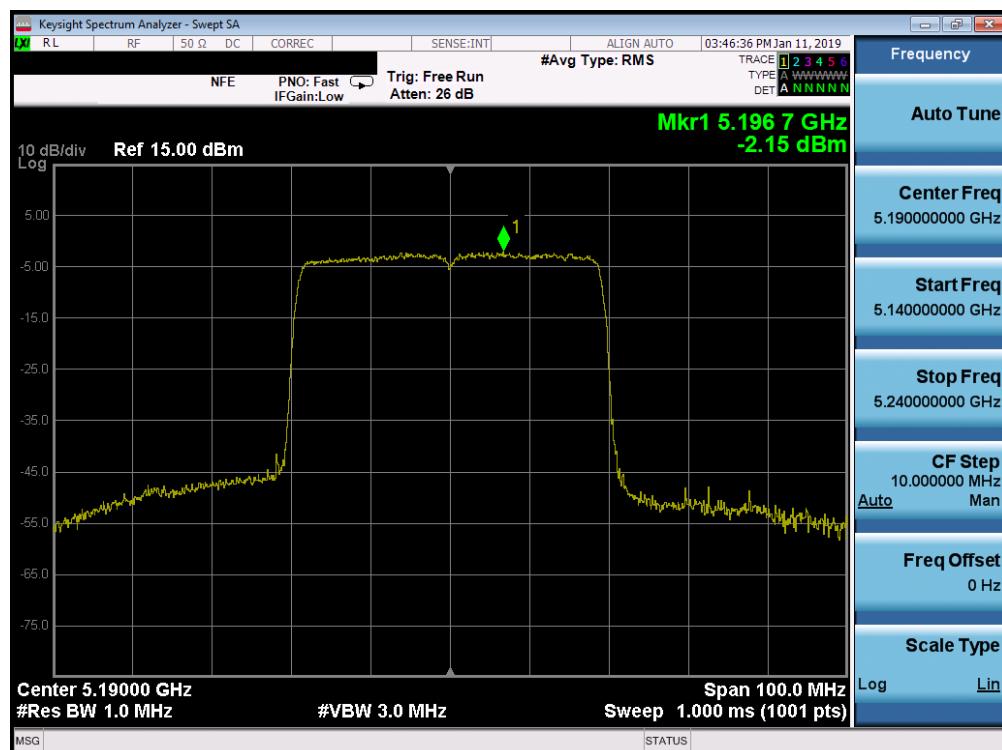
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5190	38	ax (40MHz)	484T	MCS0	-2.15	11.00	-13.15
	5230	46	ax (40MHz)	484T	MCS0	0.95	11.00	-10.05
	5210	42	ax (80MHz)	484T	MCS0	-3.65	11.00	-14.65
Band 2A	5270	54	ax (40MHz)	484T	MCS0	1.48	11.00	-9.52
	5310	62	ax (40MHz)	484T	MCS0	-2.02	11.00	-13.02
	5290	58	ax (80MHz)	484T	MCS0	-3.52	11.00	-14.52
Band 2C	5510	102	ax (40MHz)	484T	MCS0	-3.29	11.00	-14.29
	5590	118	ax (40MHz)	484T	MCS0	0.19	11.00	-10.81
	5710	142	ax (40MHz)	484T	MCS0	0.49	11.00	-10.51
Band 2C	5530	106	ax (80MHz)	484T	MCS0	-2.25	11.00	-13.25
	5610	122	ax (80MHz)	484T	MCS0	2.45	11.00	-8.55
	5690	138	ax (80MHz)	484T	MCS0	3.13	11.00	-7.87

Table 7-75. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (484 Tones)

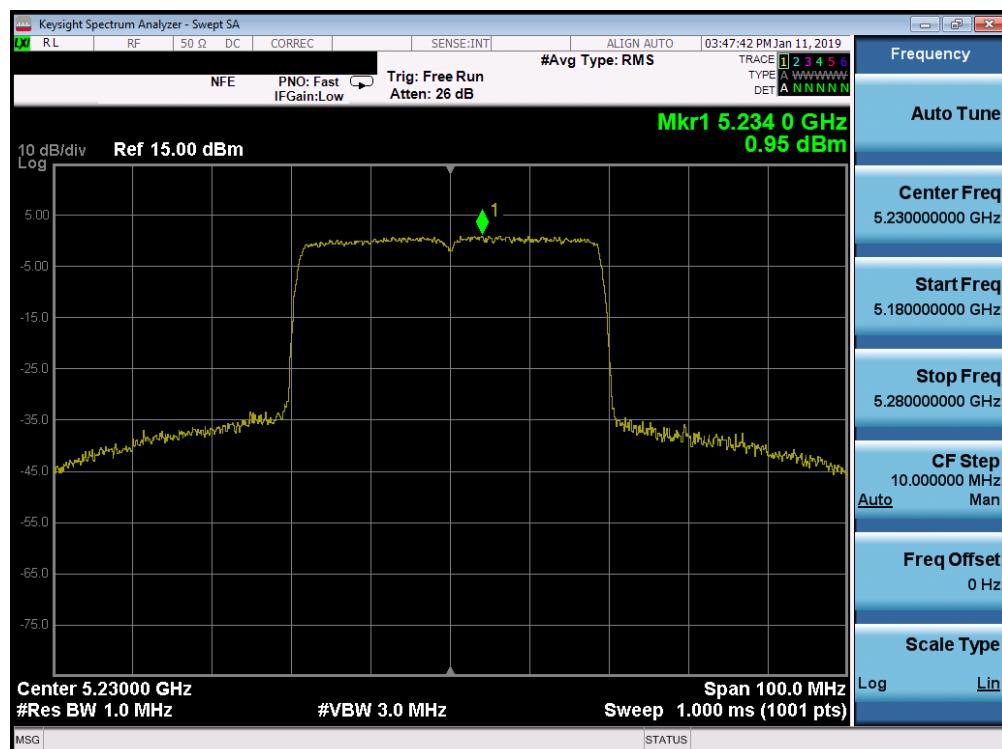
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5190	38	ax (40MHz)	484T	MCS0	-2.15	-7.94	-10.09	10.0	-20.09
	5230	46	ax (40MHz)	484T	MCS0	0.95	-7.44	-6.49	10.0	-16.49
	5210	42	ax (80MHz)	484T	MCS0	-3.65	-7.94	-11.59	10.0	-21.59

Table 7-76. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 484 Tones)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 168 of 514

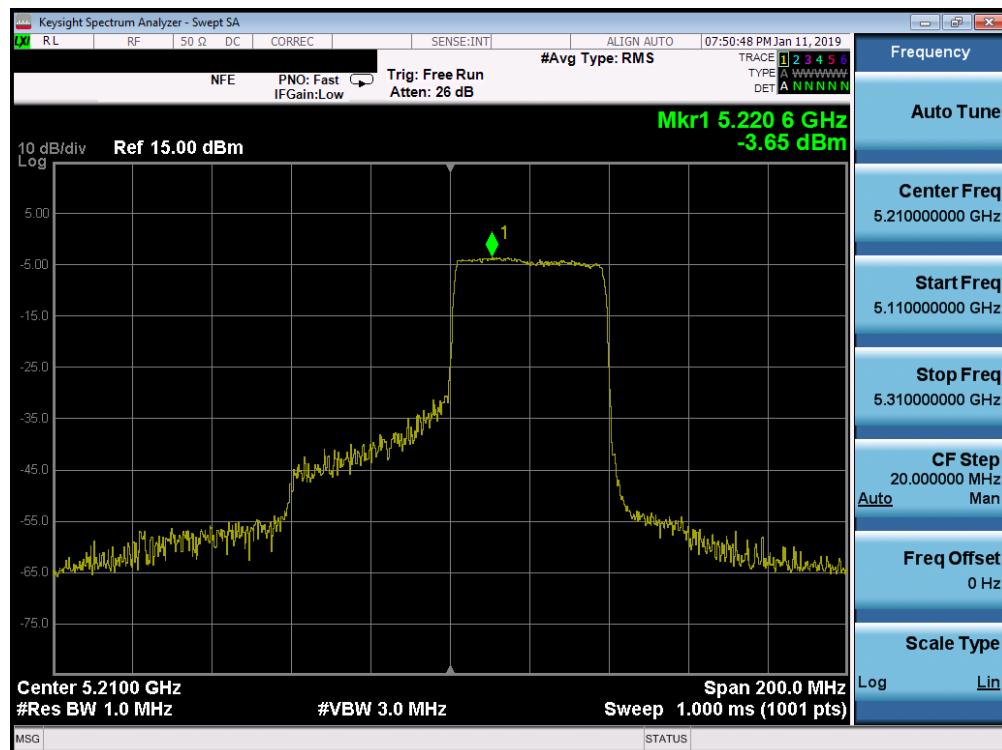


Plot 7-217. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

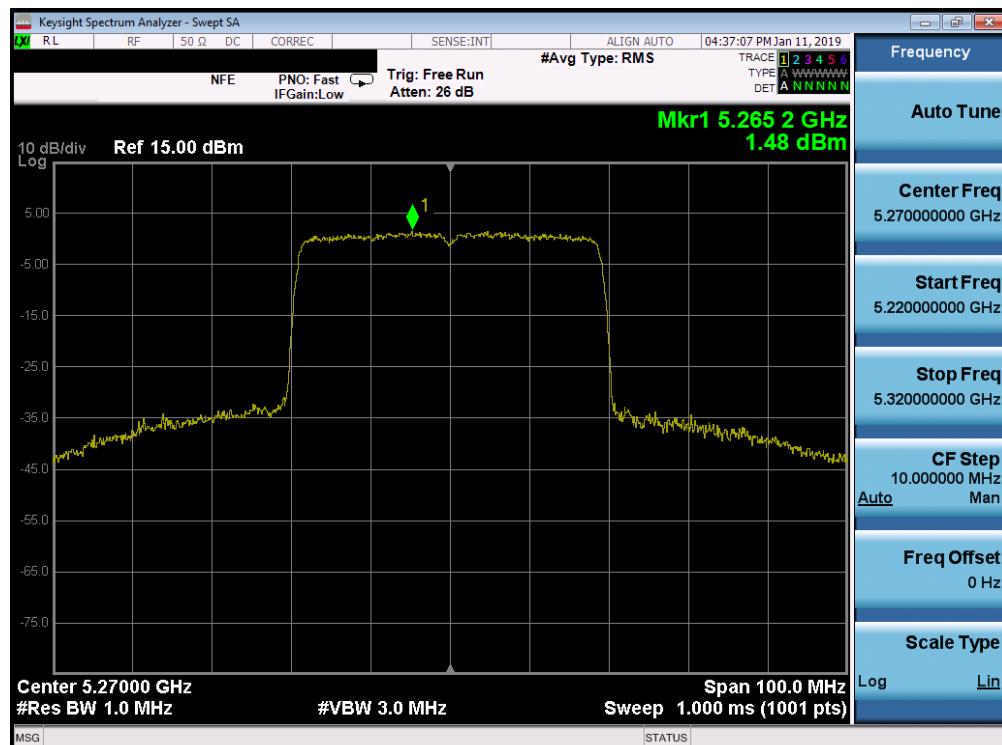


Plot 7-218. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 169 of 514

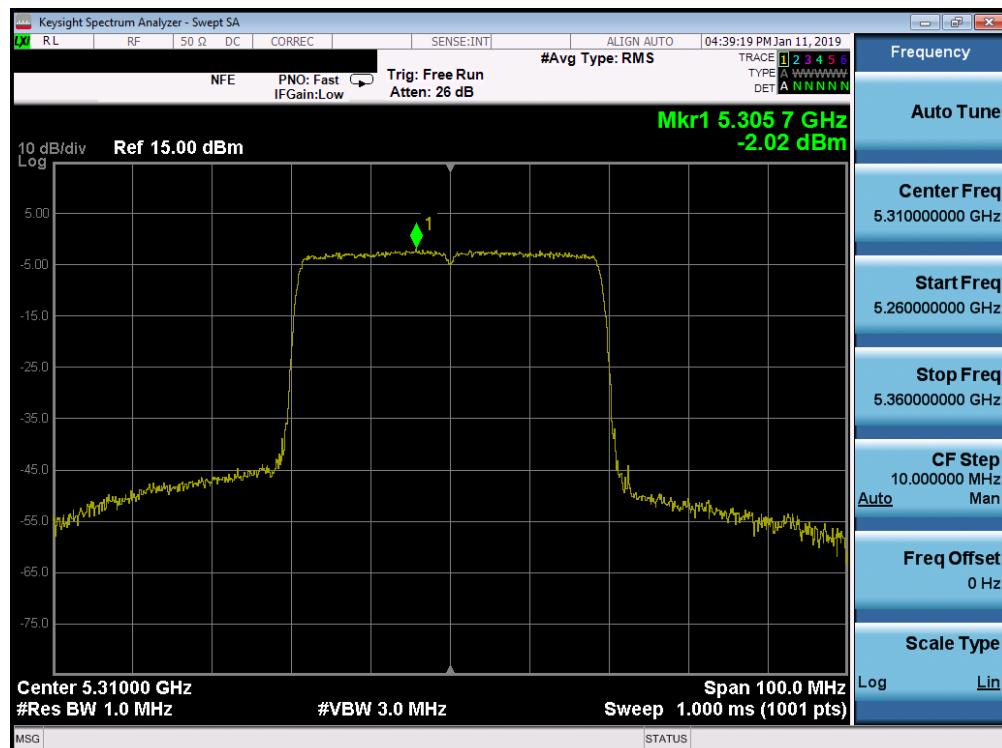


Plot 7-219. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 42)

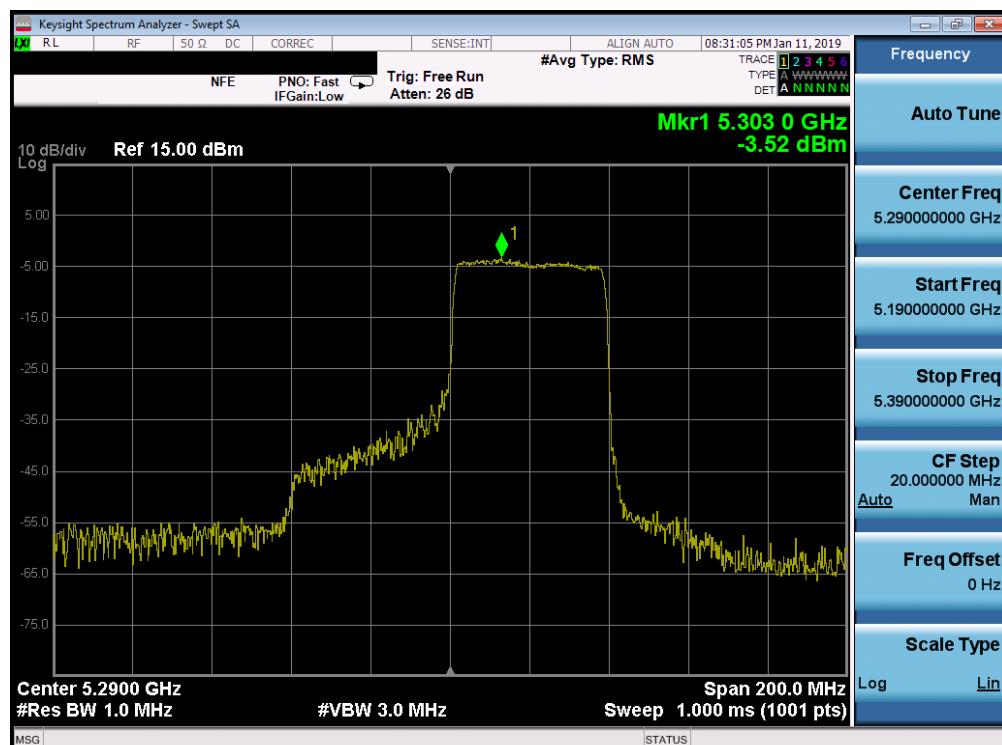


Plot 7-220. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset			Page 170 of 514

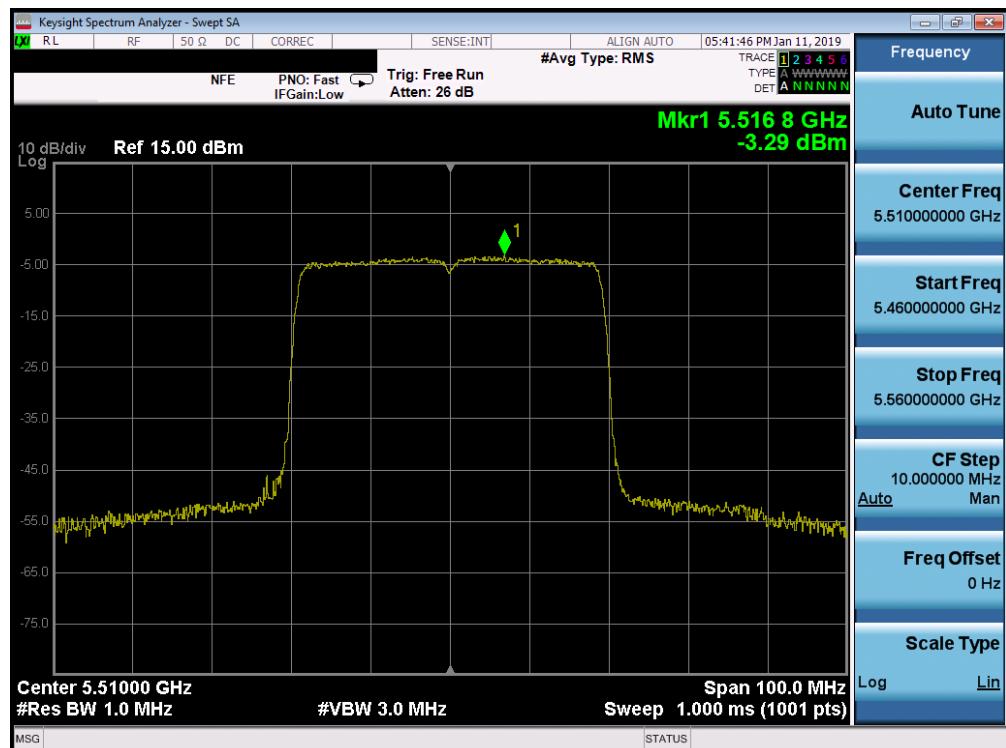


Plot 7-221. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 62)

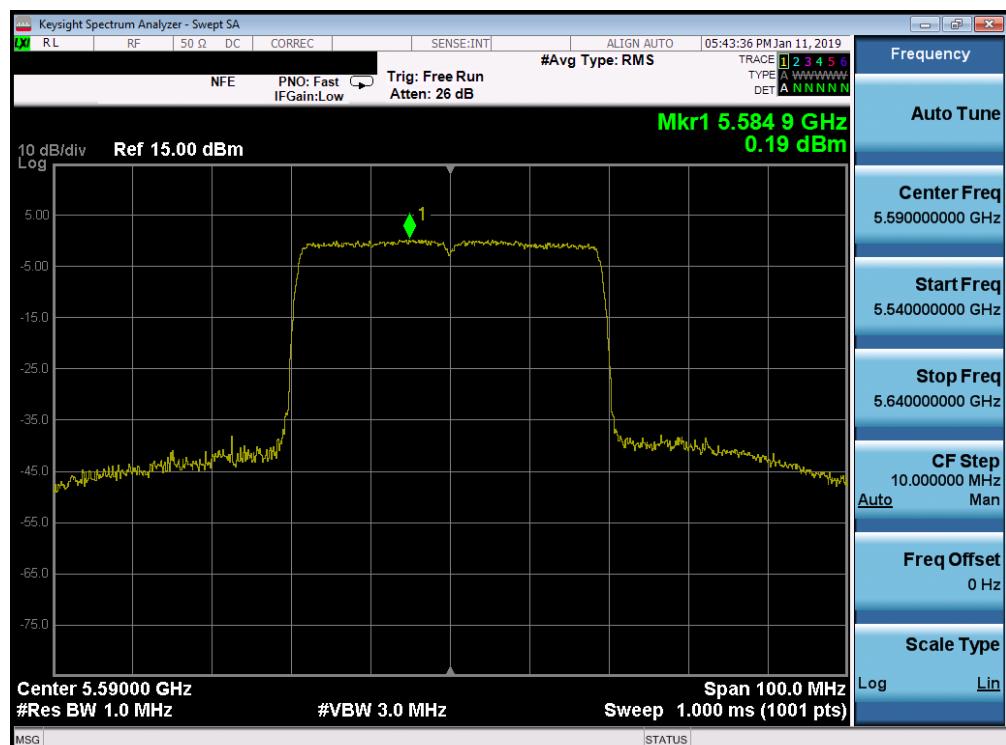


Plot 7-222. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 171 of 514

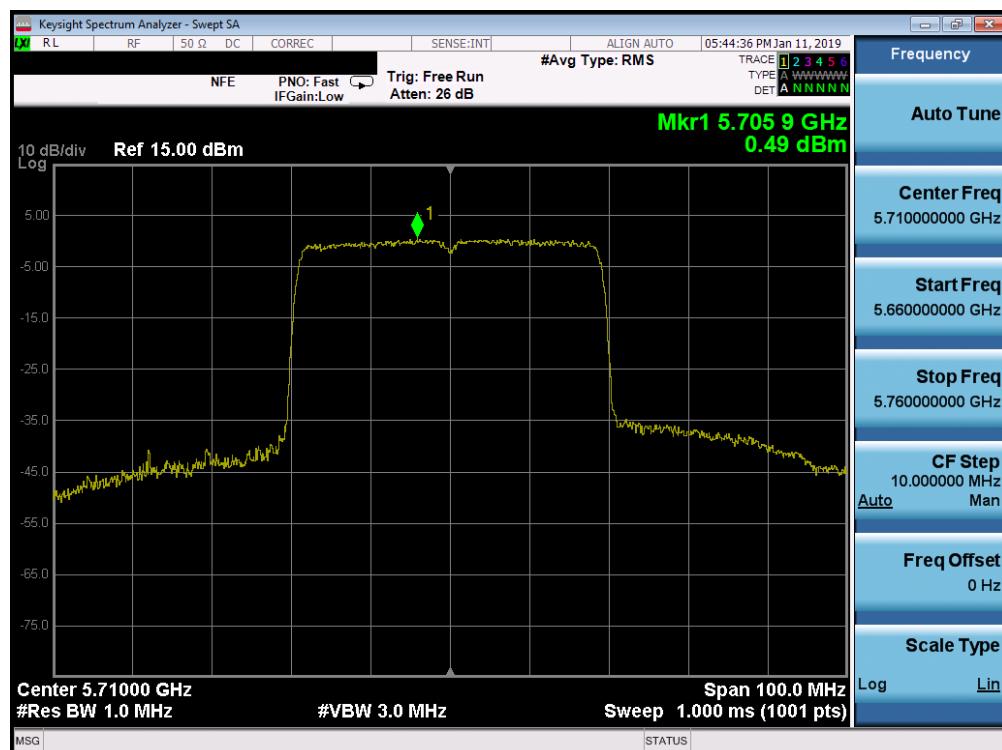


Plot 7-223. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)

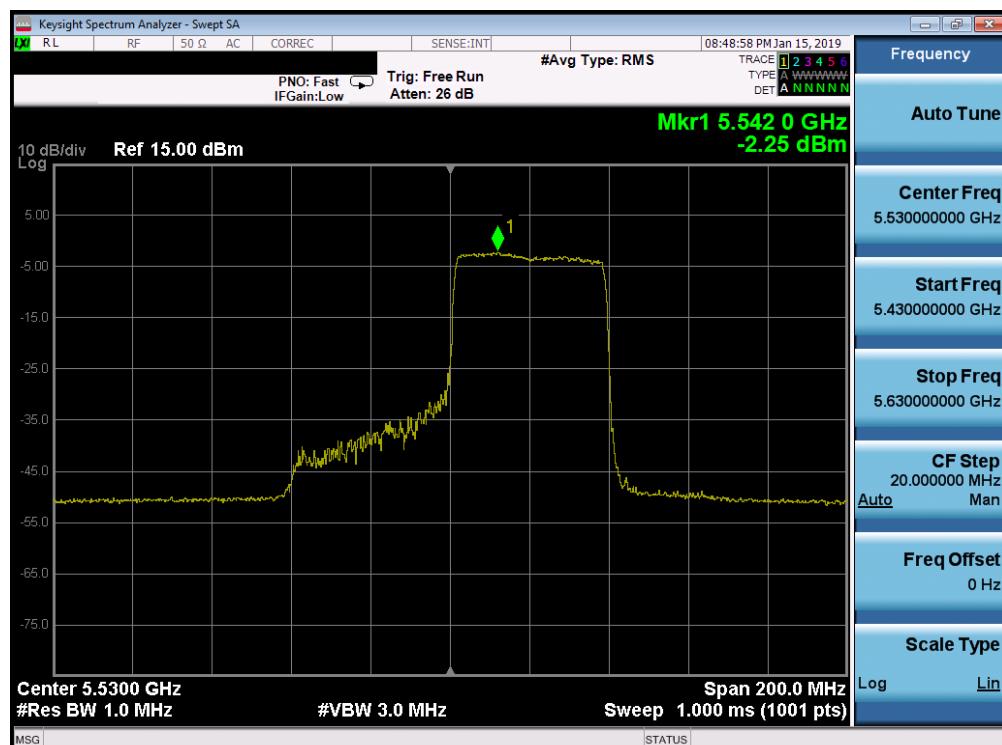


Plot 7-224. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 172 of 514

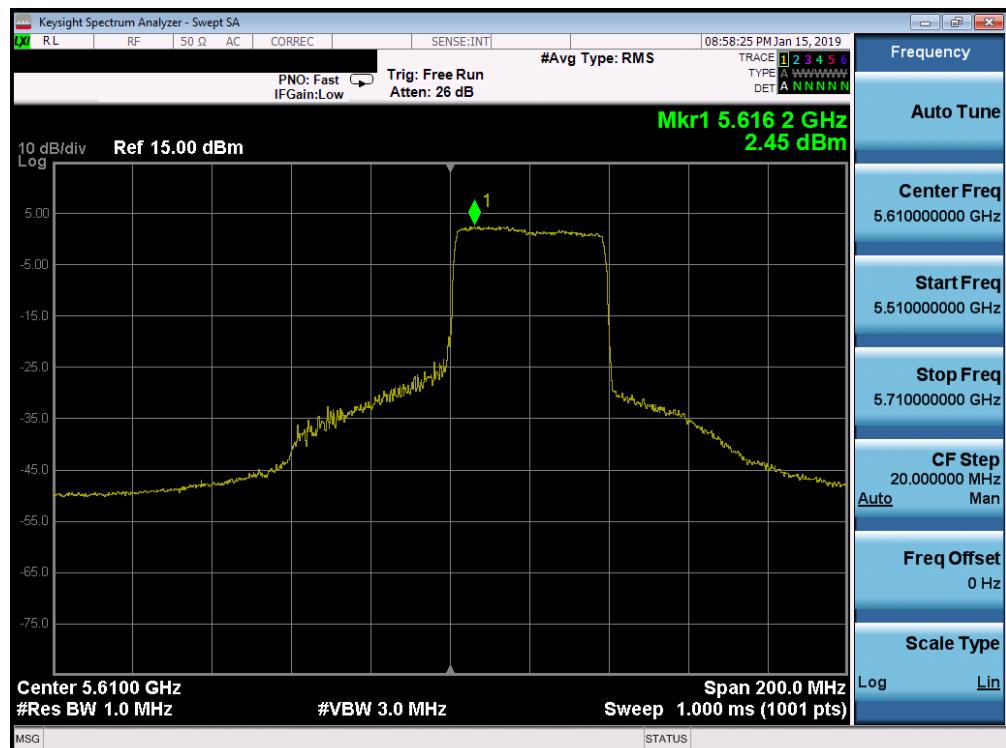


Plot 7-225. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

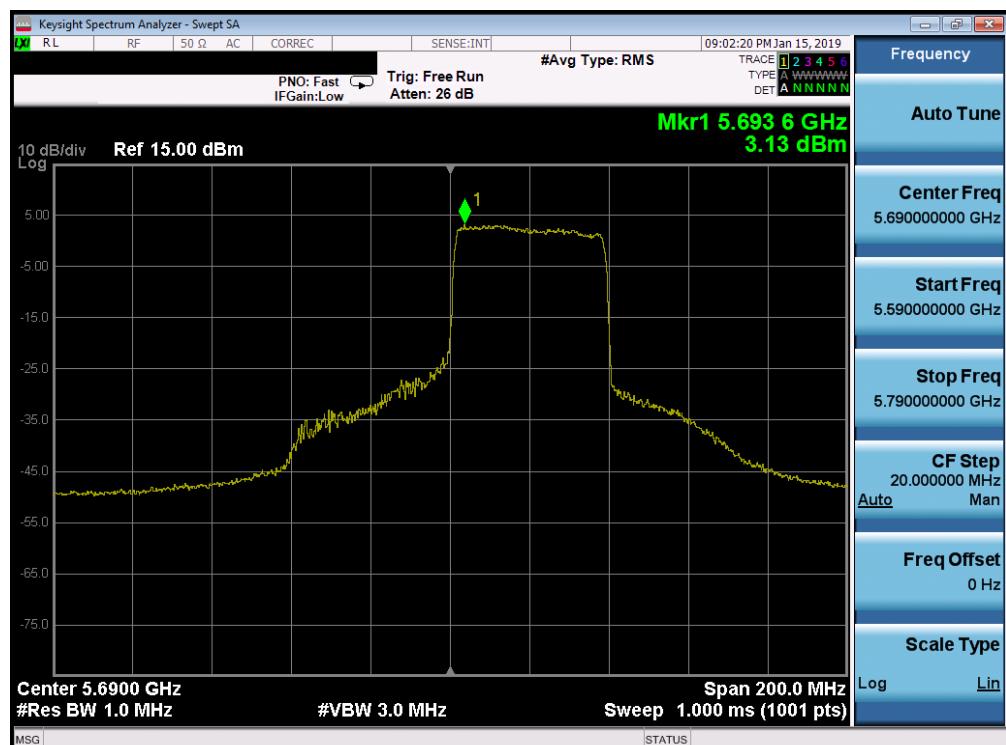


Plot 7-226. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 173 of 514



Plot 7-227. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 122)

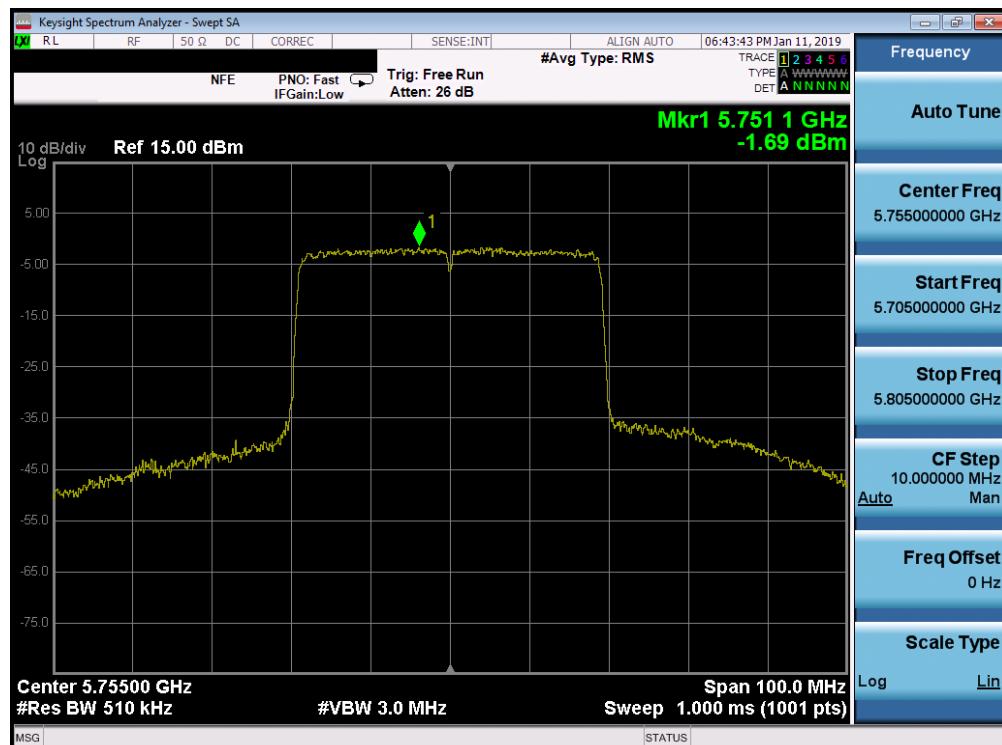


Plot 7-228. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 174 of 514

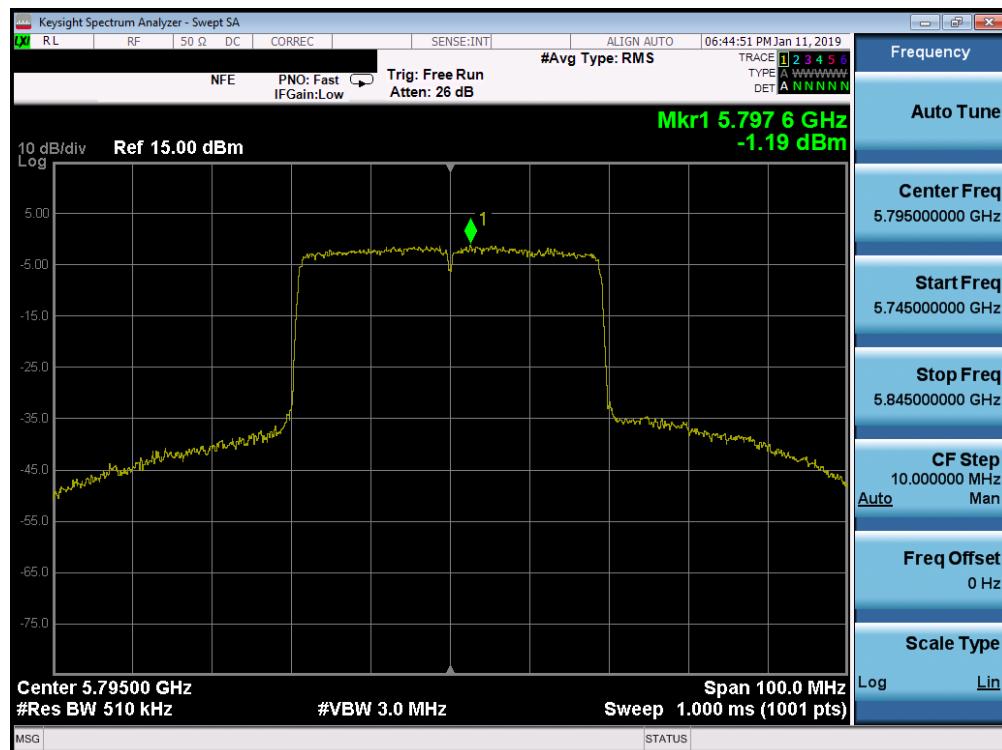
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5755	151	ax (40MHz)	484T	MCS0	-1.69	30.00	-31.69
	5795	159	ax (40MHz)	484T	MCS0	-1.19	30.00	-31.19
	5775	155	ax (80MHz)	484T	MCS0	3.43	30.00	-26.57

Table 7-77. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (484 Tones)

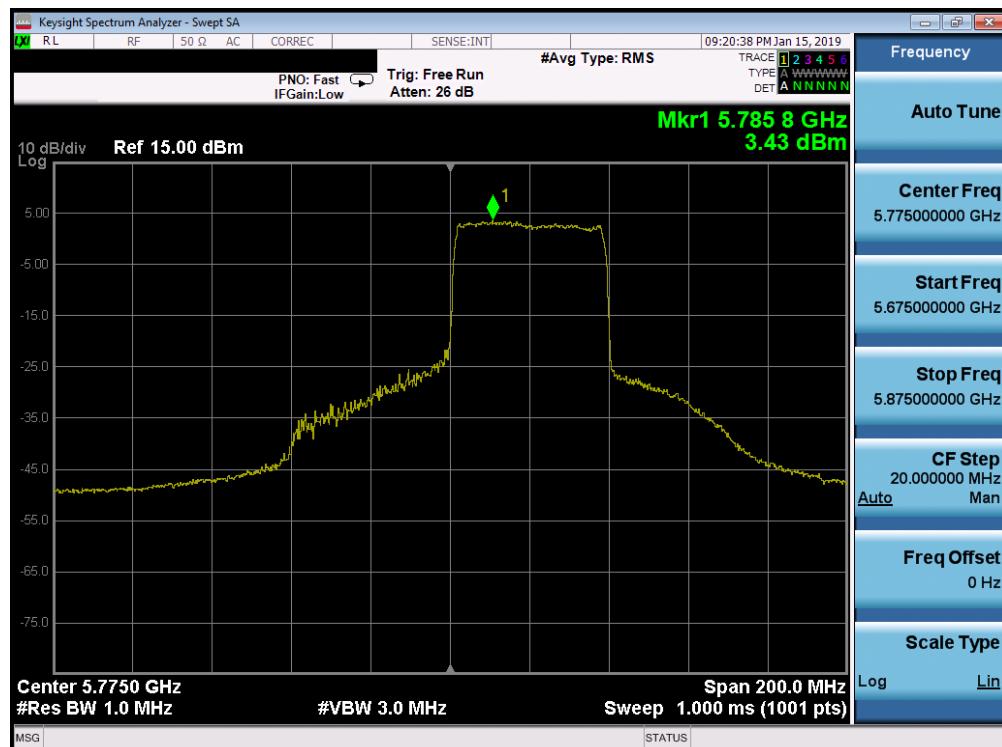


Plot 7-229. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 175 of 514



Plot 7-230. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-231. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 176 of 514

SISO Antenna-1 Power Spectral Density Measurements (996 Tones)

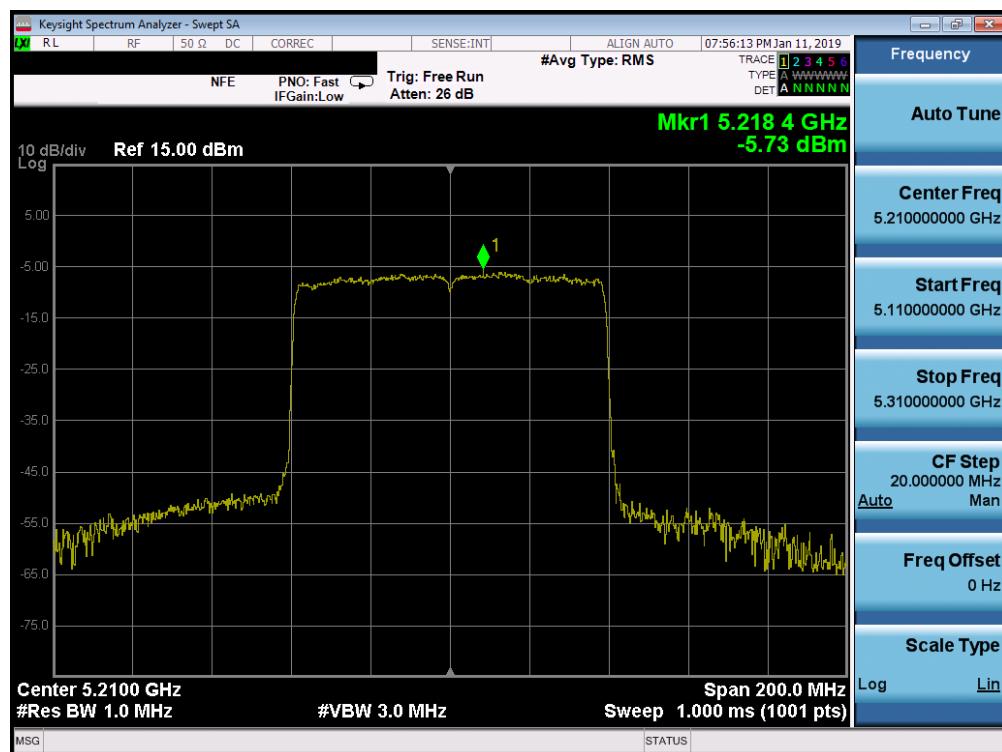
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-5.73	11.00	-16.73
Band 2A	5290	58	ax (80MHz)	996T	MCS0	-6.40	11.00	-17.40
Band 2C	5530	106	ax (80MHz)	996T	MCS0	-5.43	11.00	-16.43
	5610	122	ax (80MHz)	996T	MCS0	-1.60	11.00	-12.60
	5690	138	ax (80MHz)	996T	MCS0	-5.03	11.00	-16.03

Table 7-78. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (996 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-5.73	-7.94	-13.67	10.0	-23.67

Table 7-79. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 996 Tones)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset			

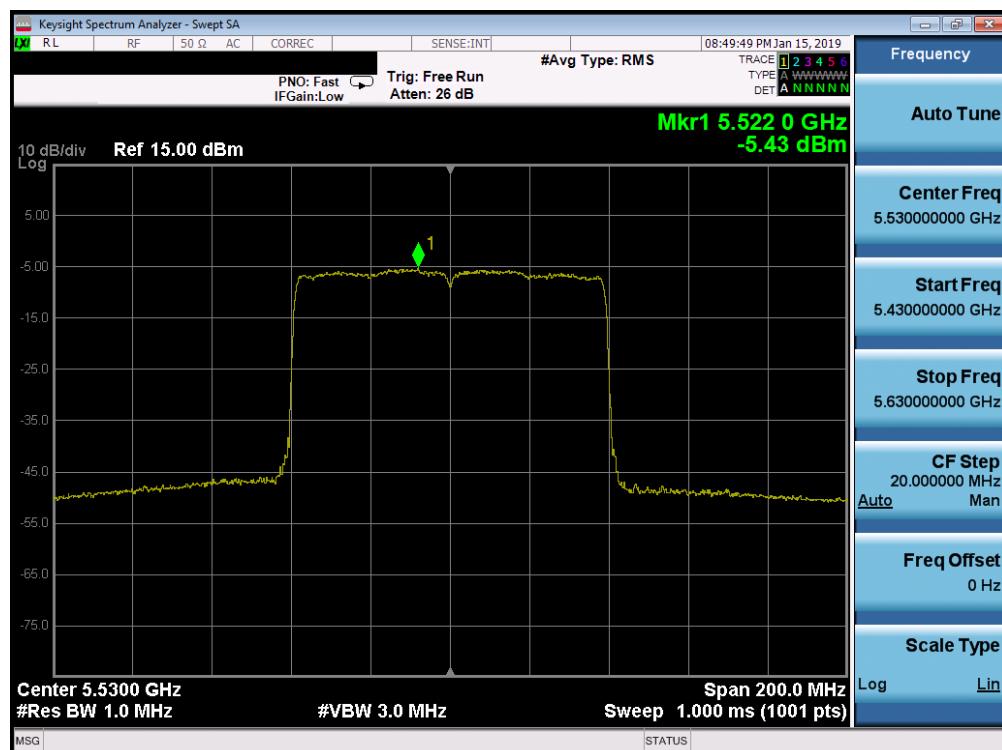


Plot 7-232. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)

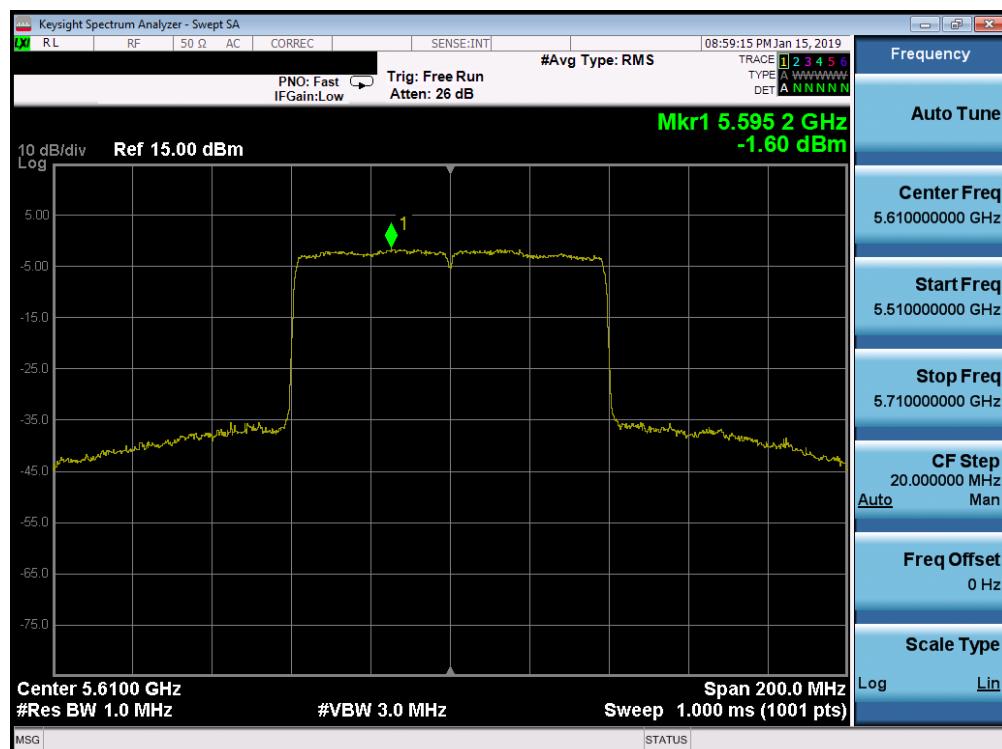


Plot 7-233. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 178 of 514

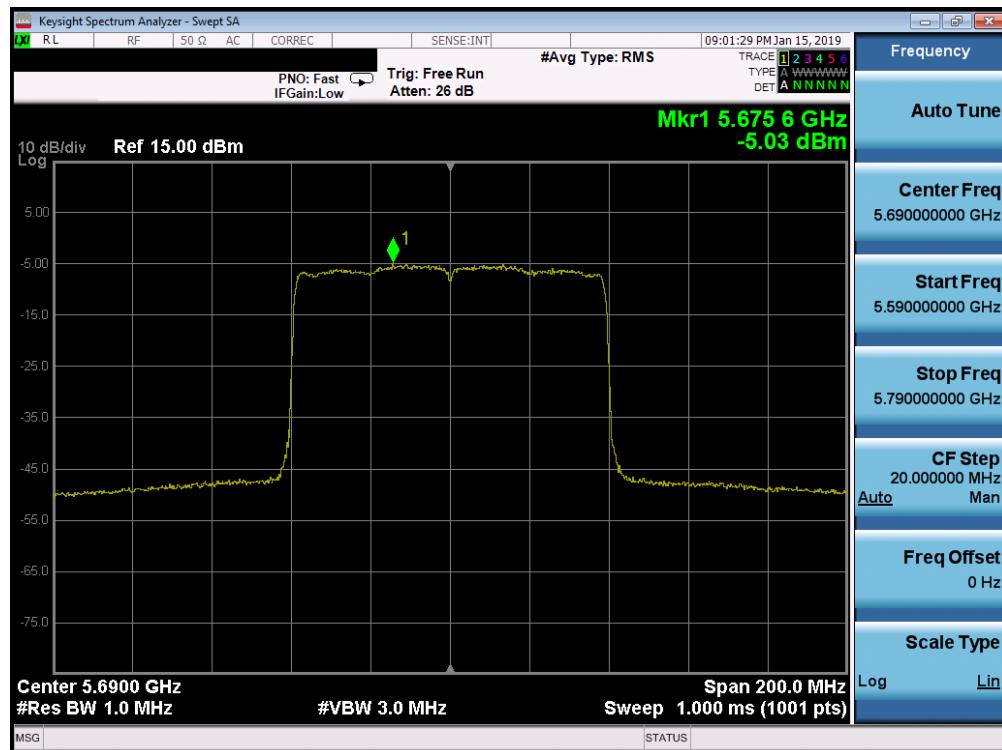


Plot 7-234. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



Plot 7-235. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 179 of 514

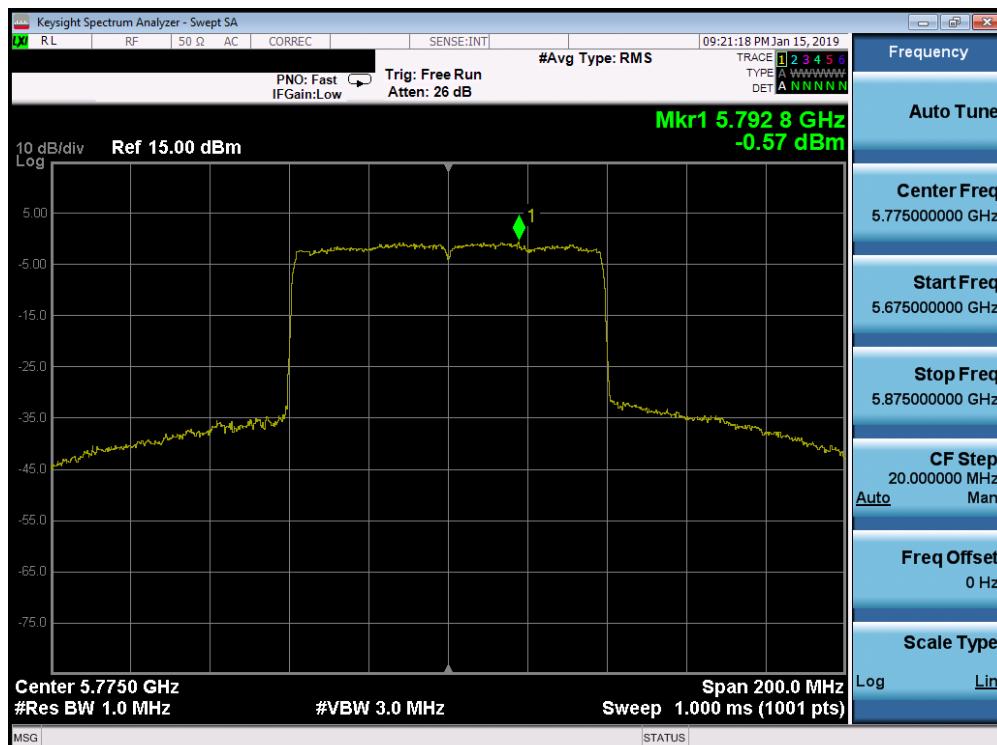


Plot 7-236. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 180 of 514

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5775	155	ax (80MHz)	996T	MCS0	-0.57	30.00	-30.57

Table 7-80. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (996 Tones)



Plot 7-237. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSC03L		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 181 of 514

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

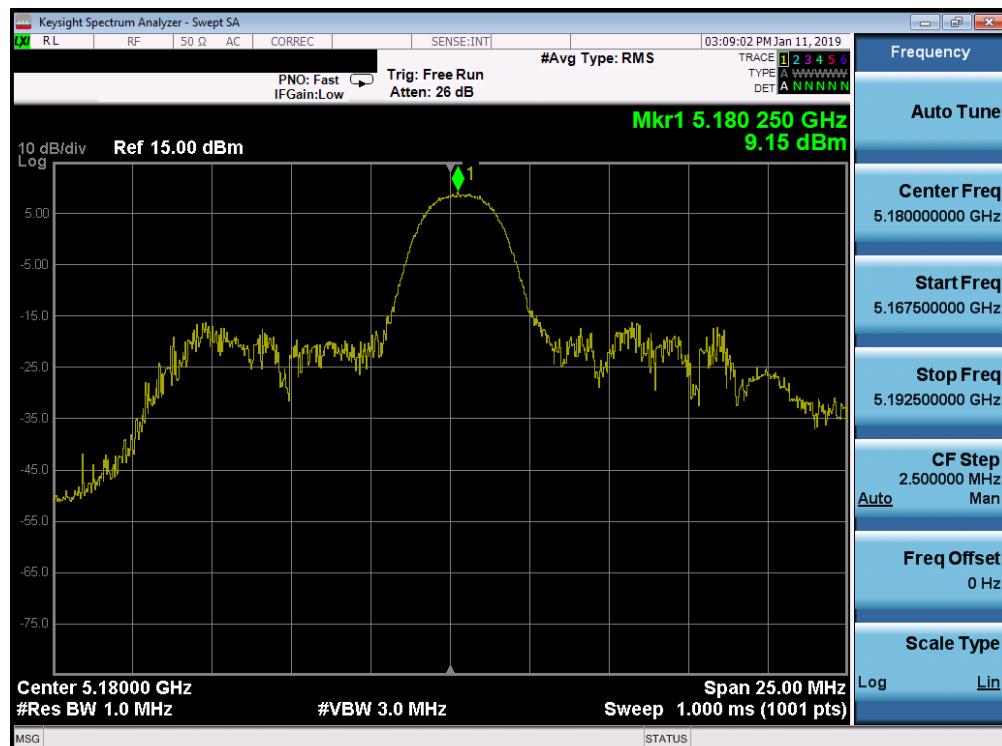
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	9.15	11.00	-1.85
	5200	40	ax (20MHz)	26T	MCS0	8.84	11.00	-2.16
	5240	48	ax (20MHz)	26T	MCS0	8.98	11.00	-2.02
	5190	38	ax (40MHz)	26T	MCS0	8.02	11.00	-2.98
	5230	46	ax (40MHz)	26T	MCS0	8.55	11.00	-2.45
	5210	42	ax (80MHz)	26T	MCS0	9.39	11.00	-1.61
Band 2A	5260	52	ax (20MHz)	26T	MCS0	8.71	11.00	-2.29
	5280	56	ax (20MHz)	26T	MCS0	8.62	11.00	-2.38
	5320	64	ax (20MHz)	26T	MCS0	8.79	11.00	-2.21
	5270	54	ax (40MHz)	26T	MCS0	8.26	11.00	-2.74
	5310	62	ax (40MHz)	26T	MCS0	8.10	11.00	-2.90
	5290	58	ax (80MHz)	26T	MCS0	10.01	11.00	-0.99
Band 2C	5500	100	ax (20MHz)	26T	MCS0	9.53	11.00	-1.47
	5600	120	ax (20MHz)	26T	MCS0	9.51	11.00	-1.49
	5720	144	ax (20MHz)	26T	MCS0	9.36	11.00	-1.64
	5510	102	ax (40MHz)	26T	MCS0	8.40	11.00	-2.60
	5590	118	ax (40MHz)	26T	MCS0	8.47	11.00	-2.53
	5710	142	ax (40MHz)	26T	MCS0	8.40	11.00	-2.60
	5530	106	ax (80MHz)	26T	MCS0	9.98	11.00	-1.02
	5610	122	ax (80MHz)	26T	MCS0	10.10	11.00	-0.90
	5690	138	ax (80MHz)	26T	MCS0	10.42	11.00	-0.58

Table 7-81. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

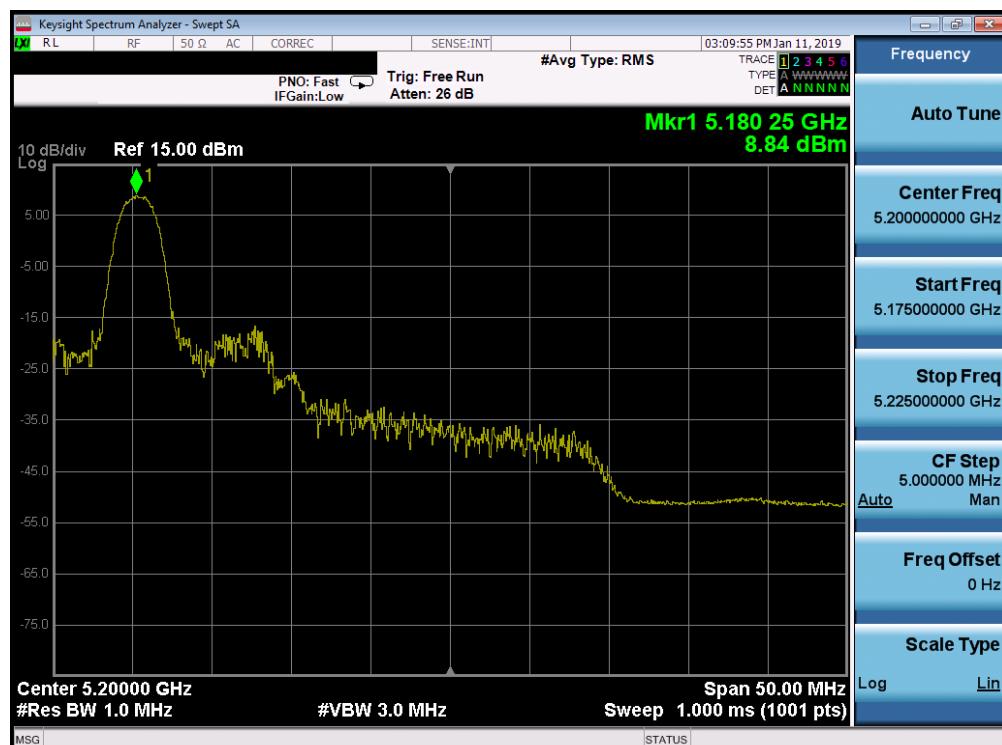
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	9.15	-7.70	1.45	10.0	-8.55
	5200	40	ax (20MHz)	26T	MCS0	8.84	-7.57	1.27	10.0	-8.73
	5240	48	ax (20MHz)	26T	MCS0	8.98	-8.01	0.97	10.0	-9.03
	5190	38	ax (40MHz)	26T	MCS0	8.02	-7.57	0.45	10.0	-9.55
	5230	46	ax (40MHz)	26T	MCS0	8.55	-8.01	0.54	10.0	-9.46
	5210	42	ax (80MHz)	26T	MCS0	9.39	-7.57	1.82	10.0	-8.18

Table 7-82. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 26 Tones)

FCC ID: A3LSC03L	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset			Page 182 of 514

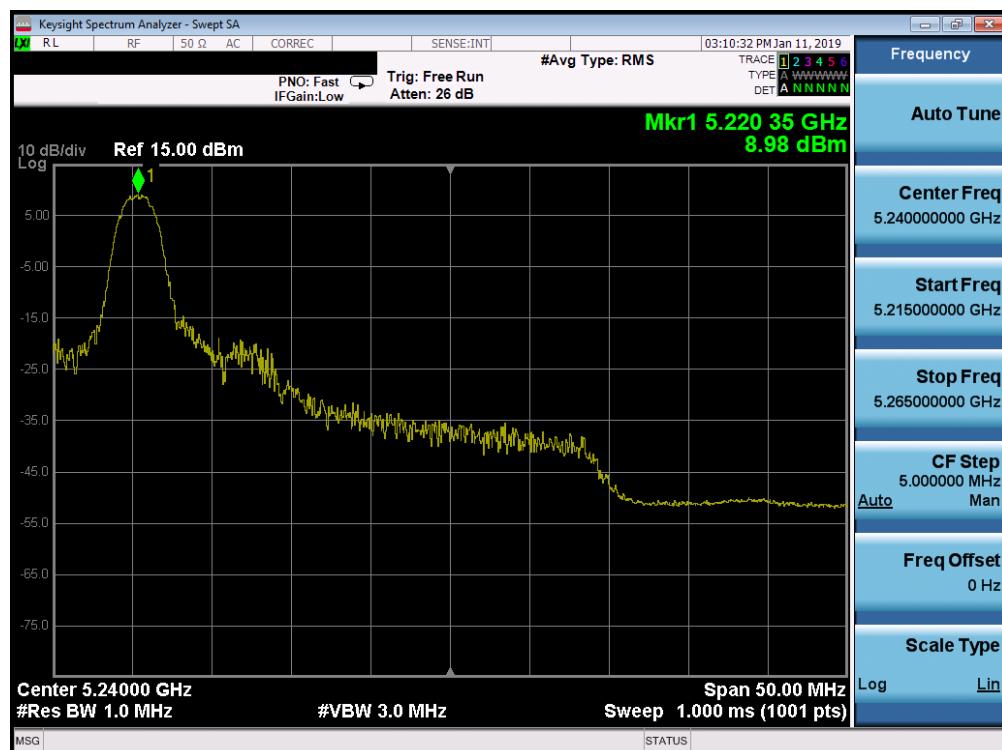


Plot 7-238. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

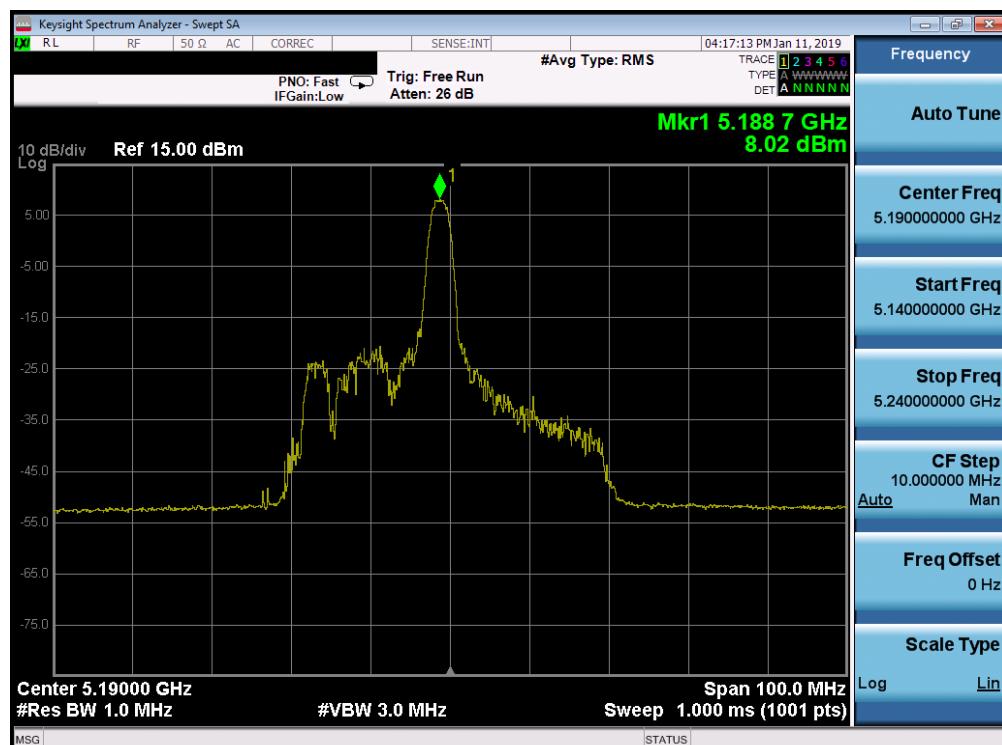


Plot 7-239. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 183 of 514

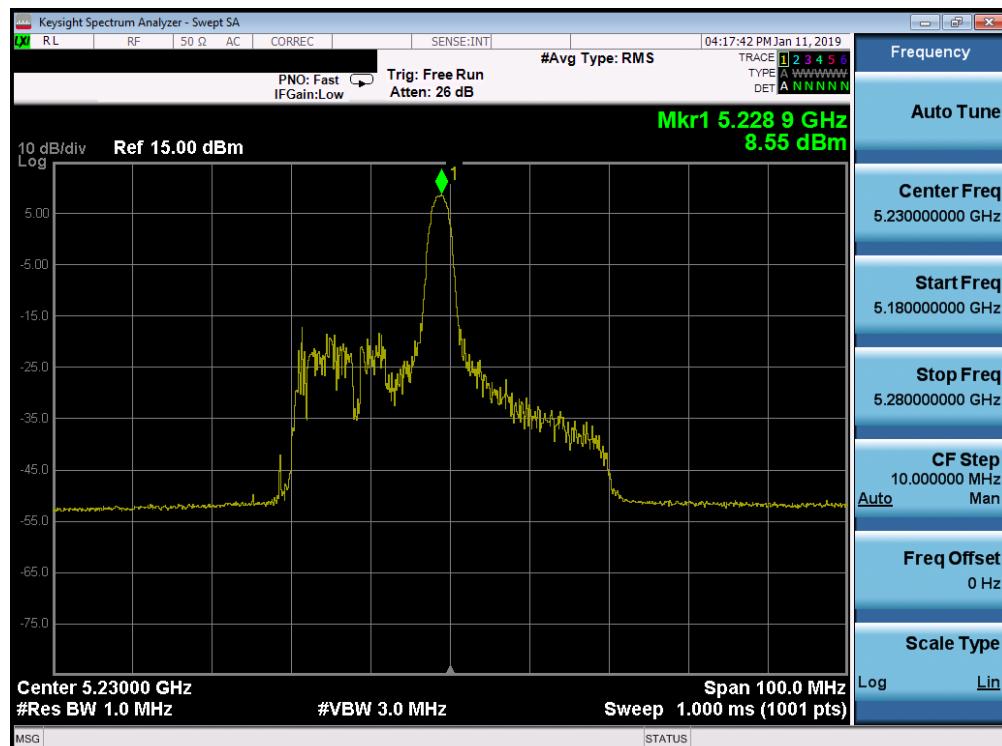


Plot 7-240. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

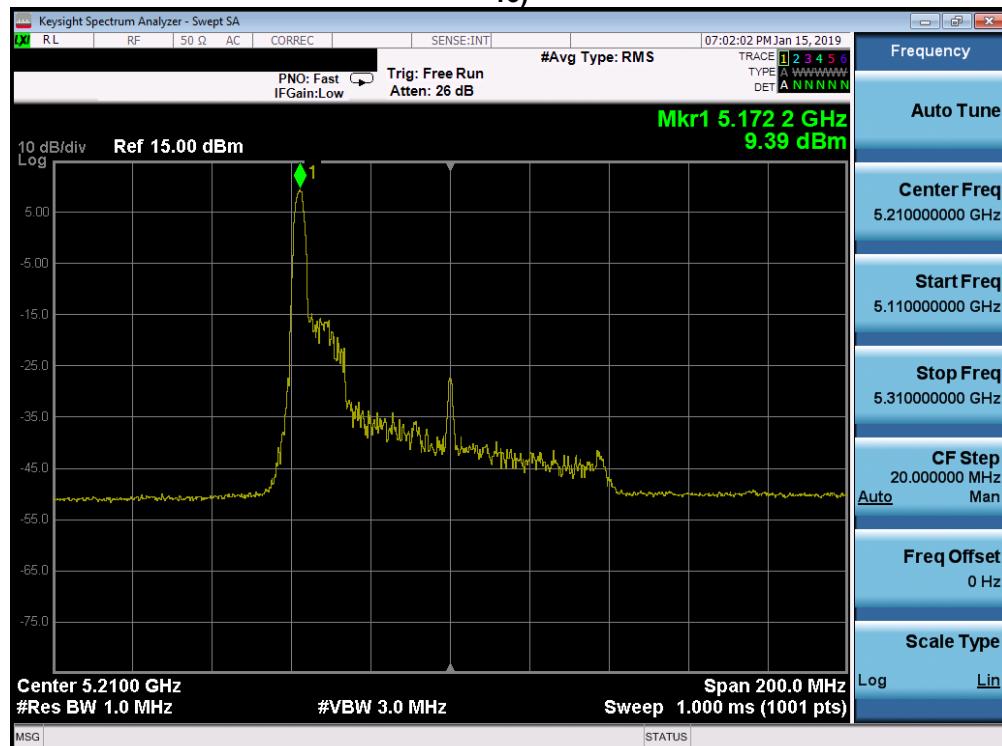


Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSC03L	PCTEST ENGINEERING LABORATORY, INC.			MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1901240017-7.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset				Page 184 of 514

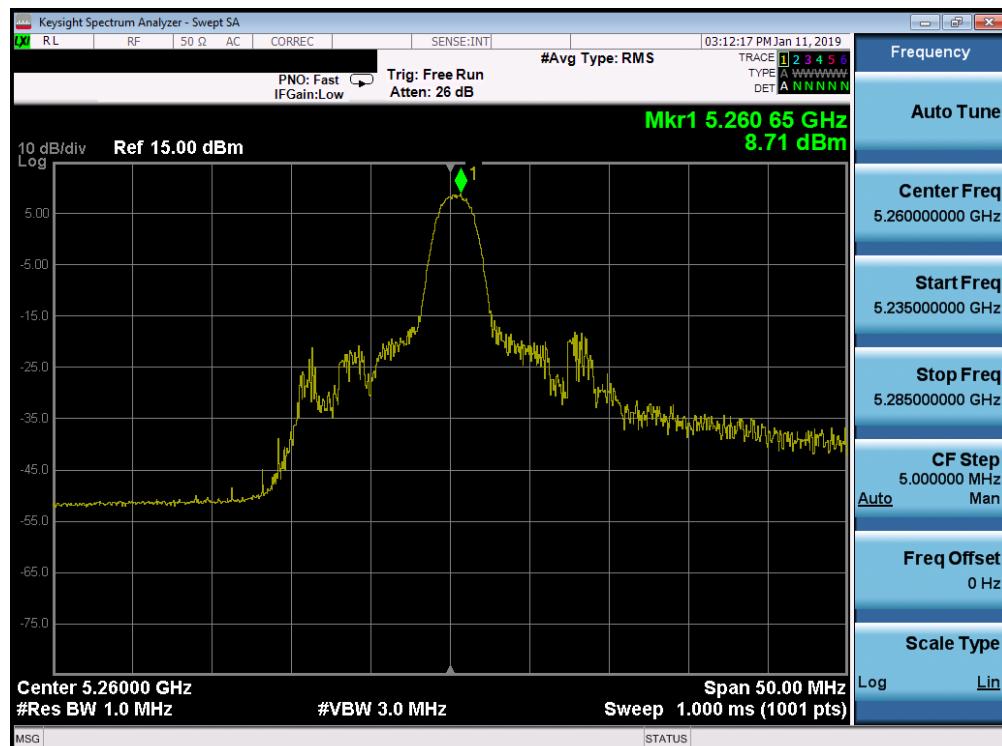


Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

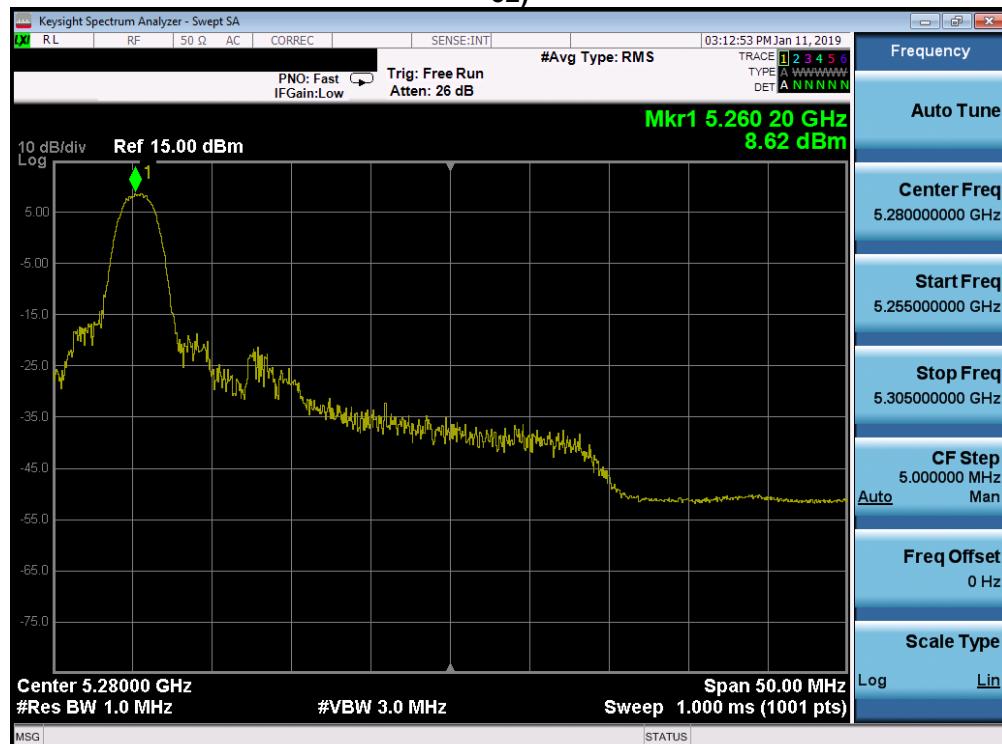


Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 185 of 514

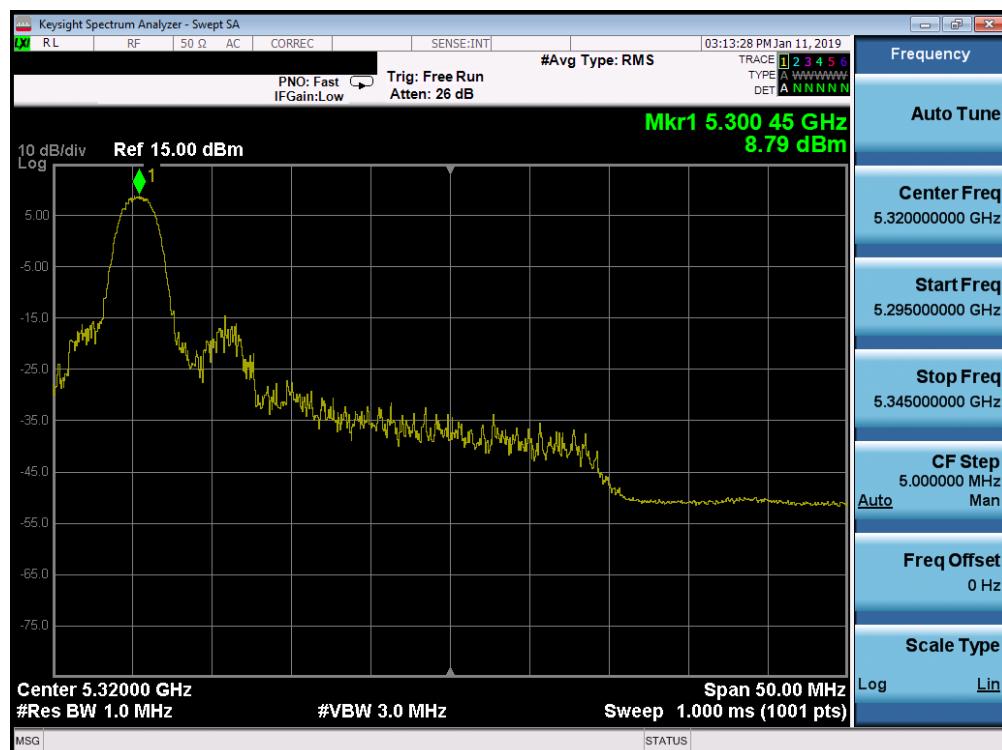


Plot 7-244. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)



Plot 7-245. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 186 of 514



Plot 7-246. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

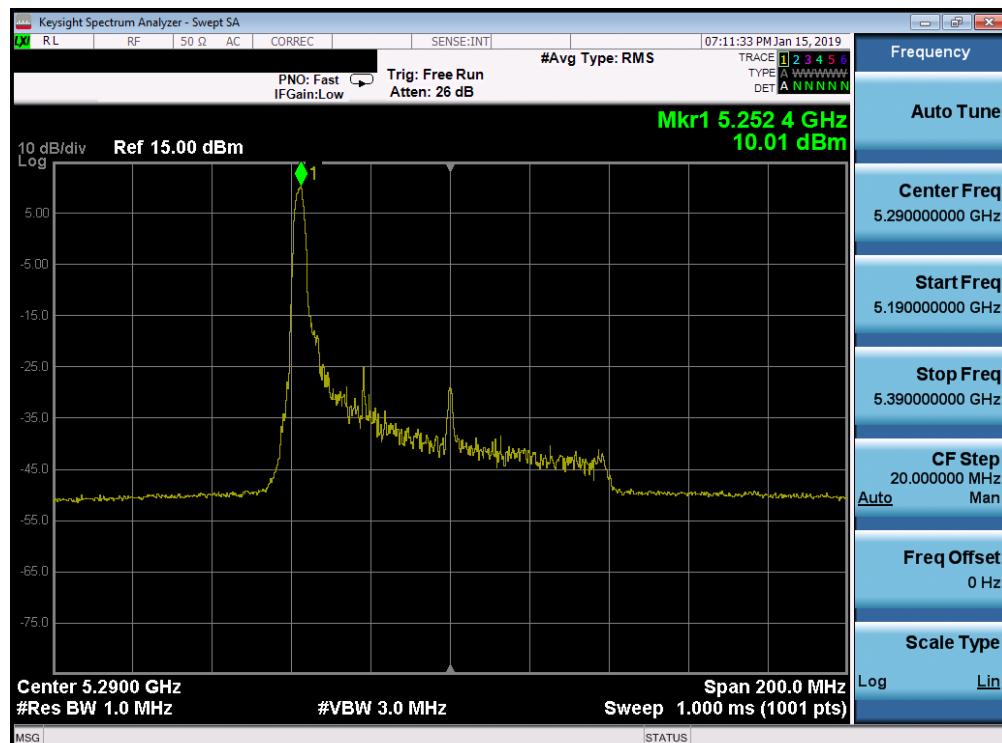


Plot 7-247. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 187 of 514

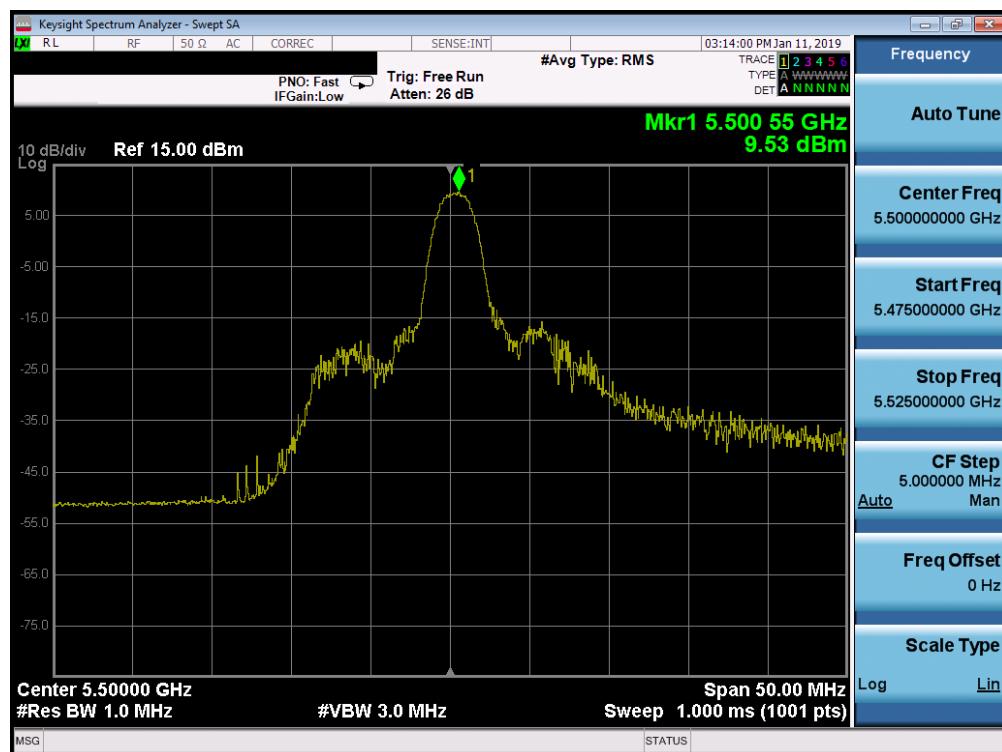


Plot 7-248. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

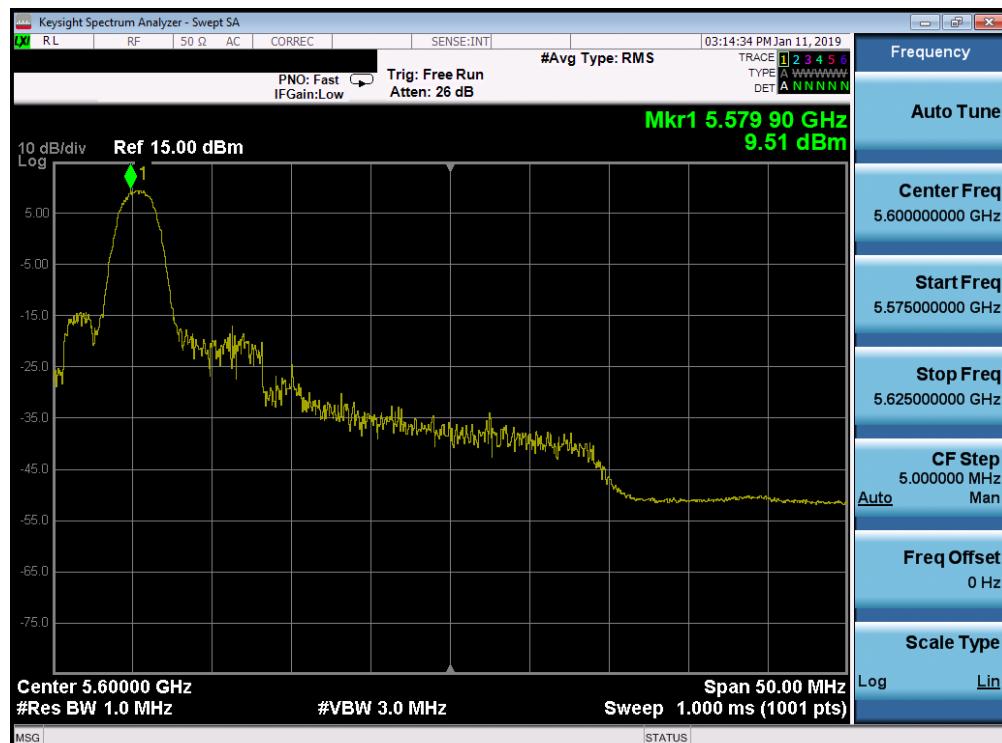


Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 188 of 514



Plot 7-250. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)



Plot 7-251. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSC03L	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1901240017-07.A3L	Test Dates: 10/23/2018 - 1/18/2019	EUT Type: Portable Handset		Page 189 of 514