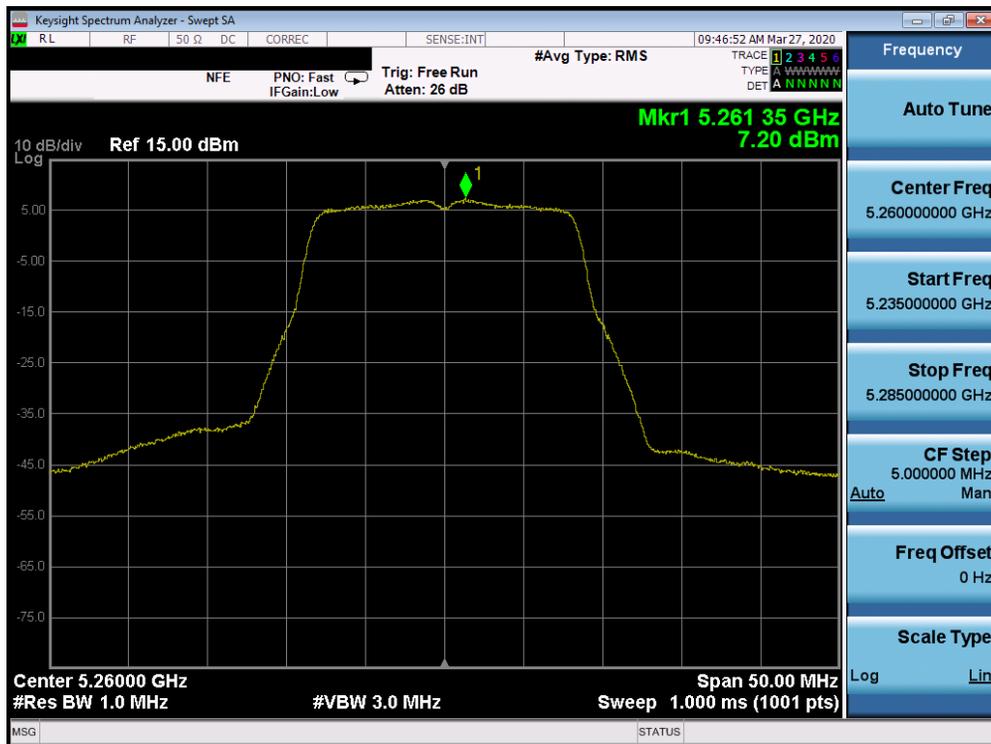
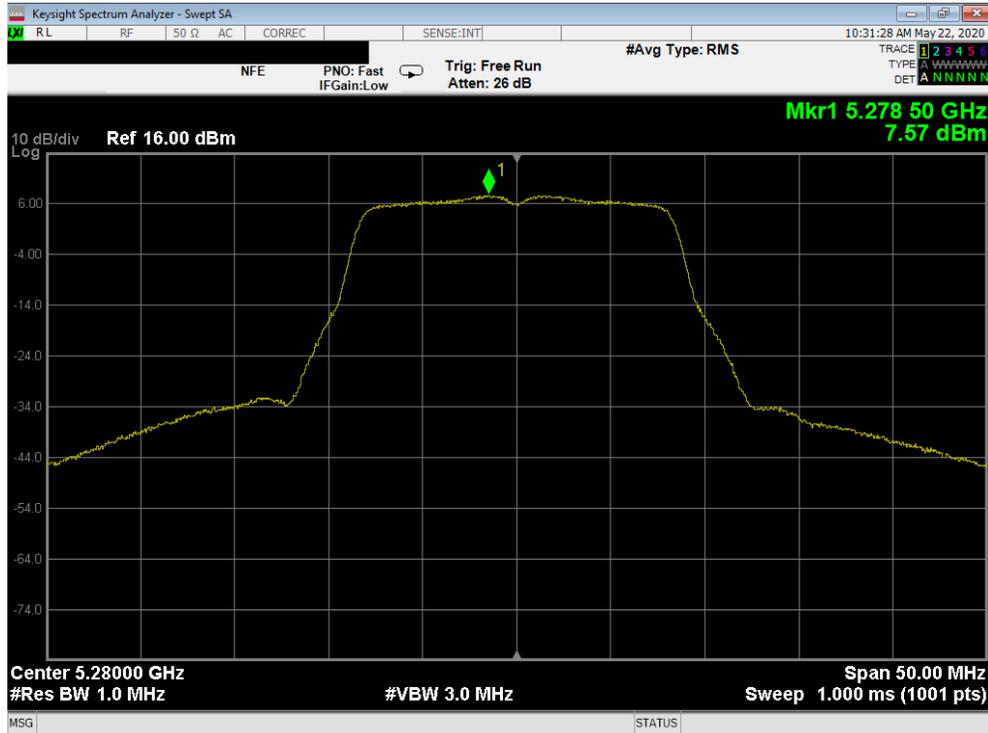


Plot 7-87. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

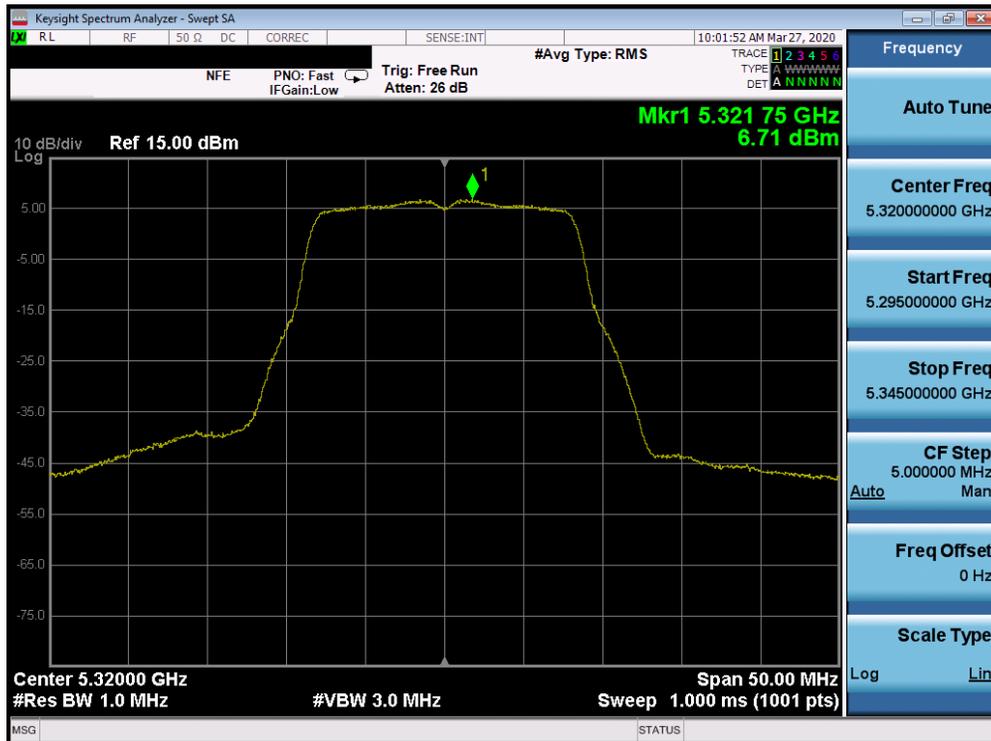


Plot 7-88. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 71 of 170

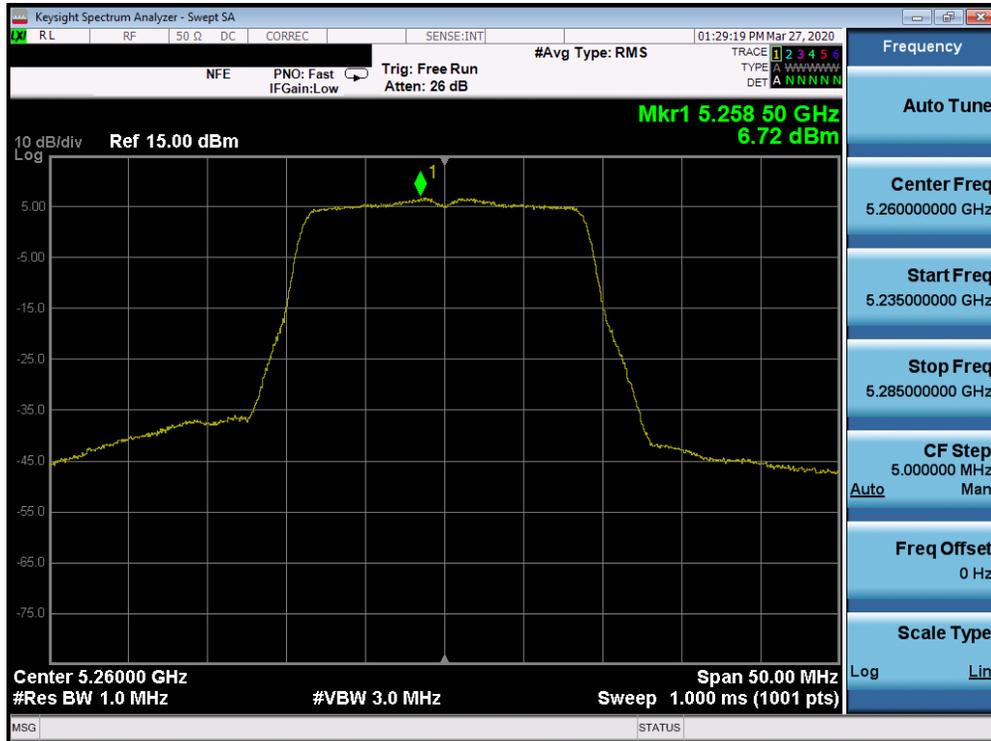


Plot 7-89. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) – Ch. 56)



Plot 7-90. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 72 of 170

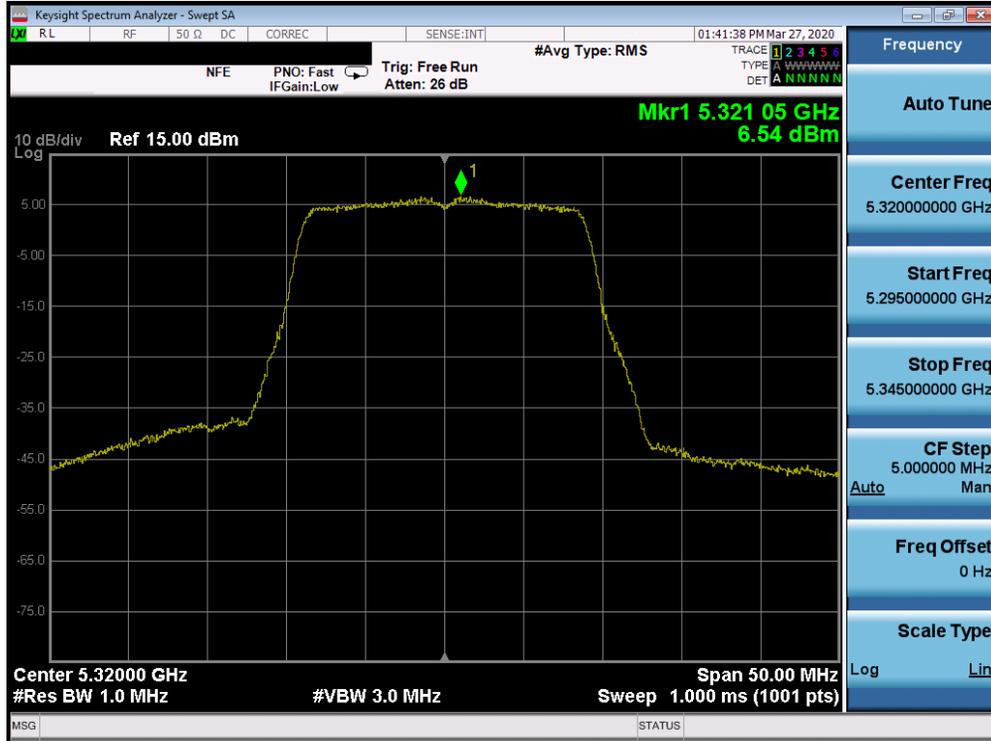


Plot 7-91. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

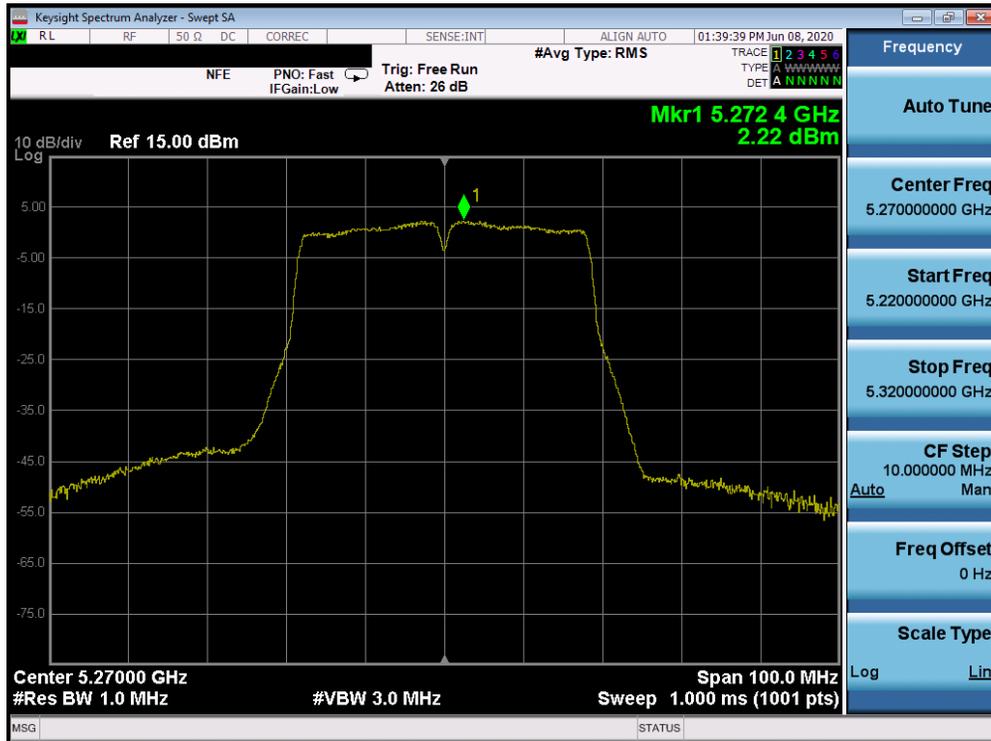


Plot 7-92. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 73 of 170

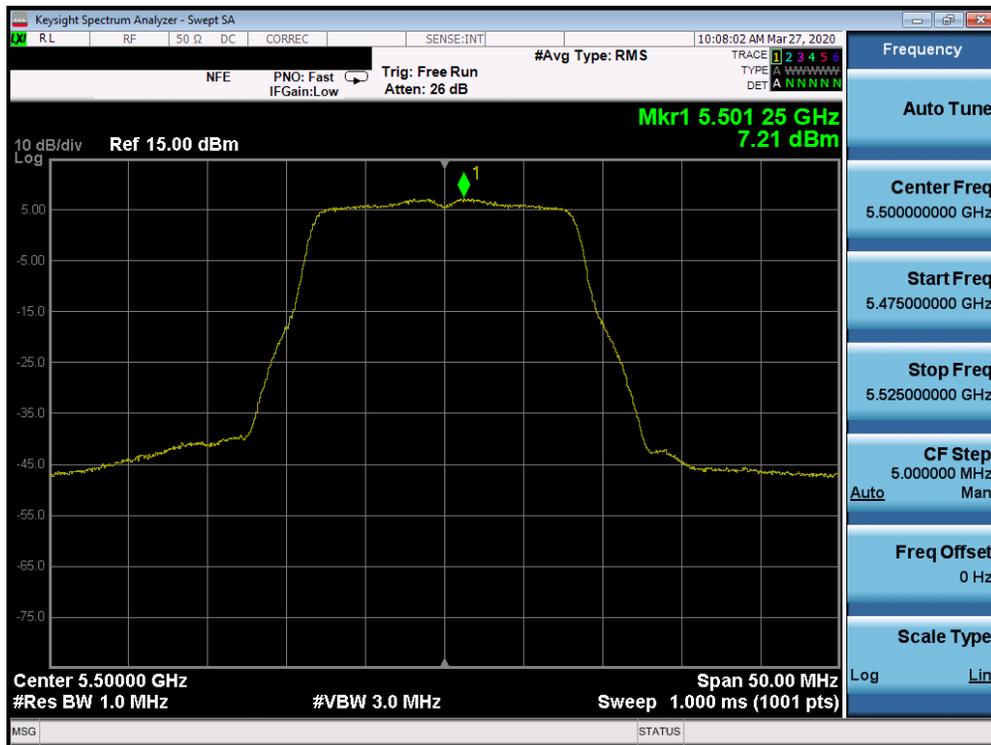


Plot 7-93. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

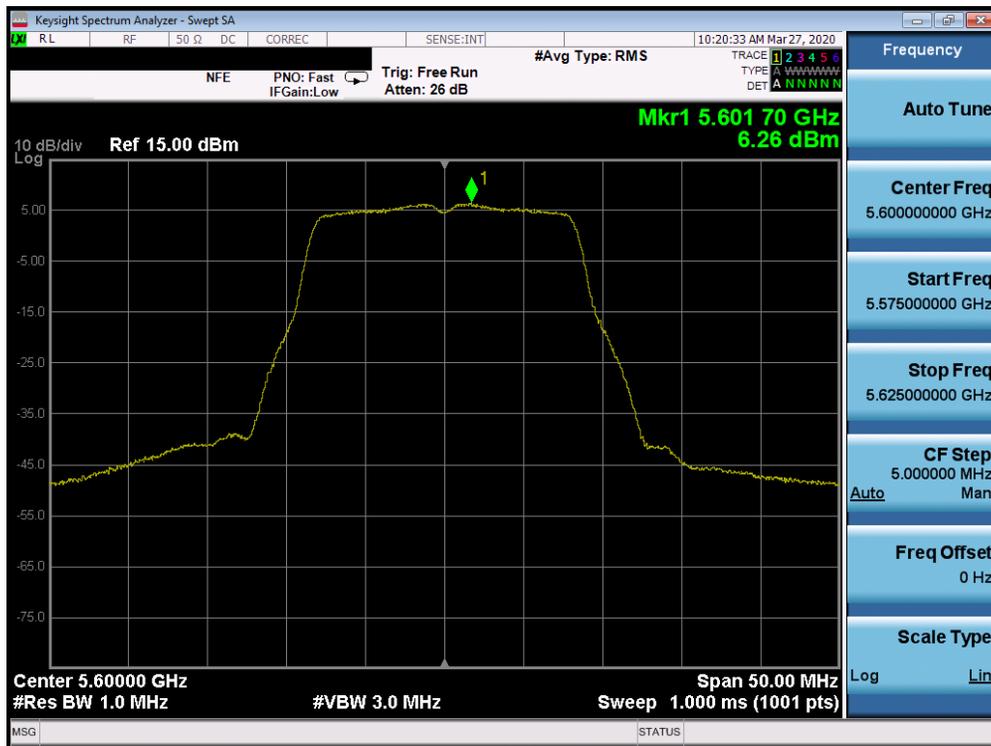


Plot 7-94. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 74 of 170

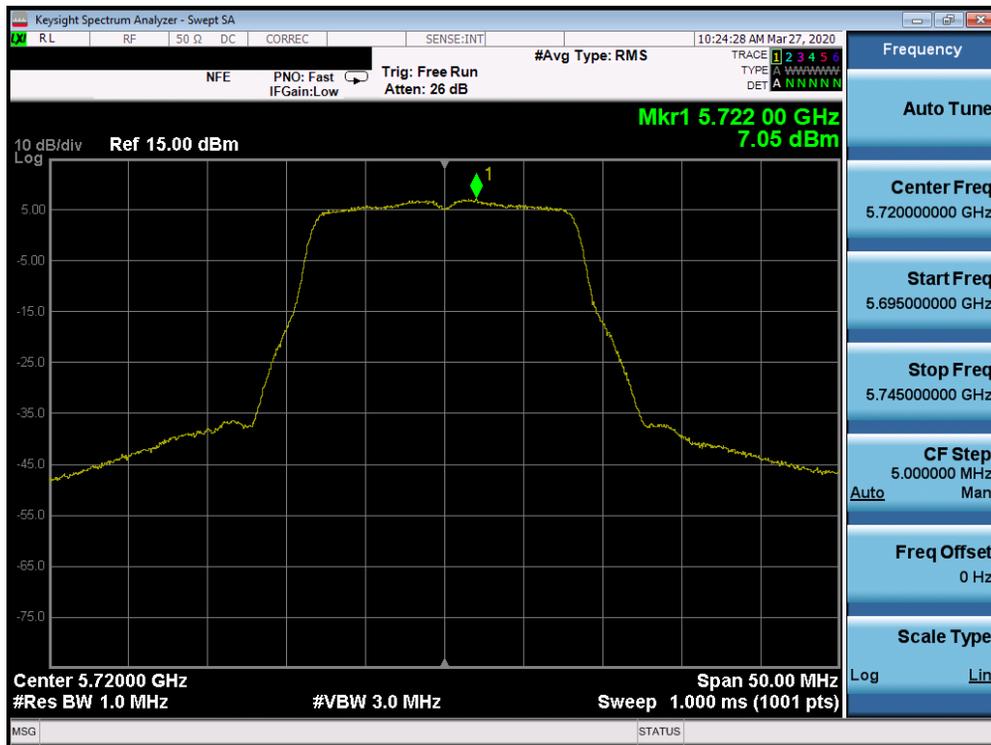


Plot 7-97. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) – Ch. 100)

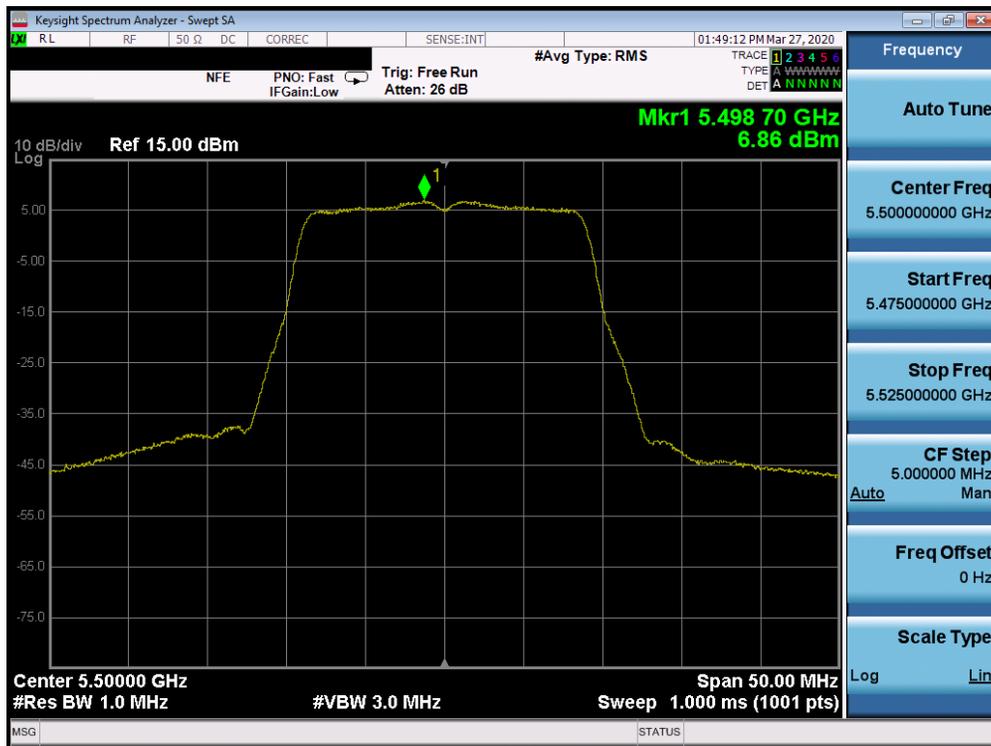


Plot 7-98. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) – Ch. 120)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 76 of 170

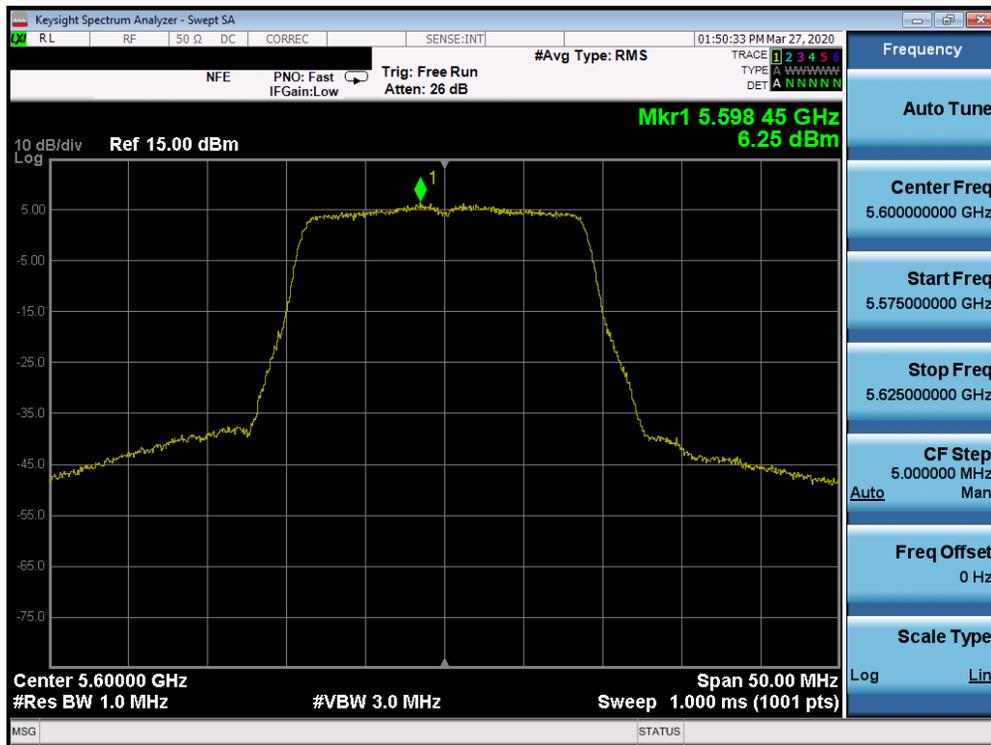


Plot 7-99. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 2C) – Ch. 144)

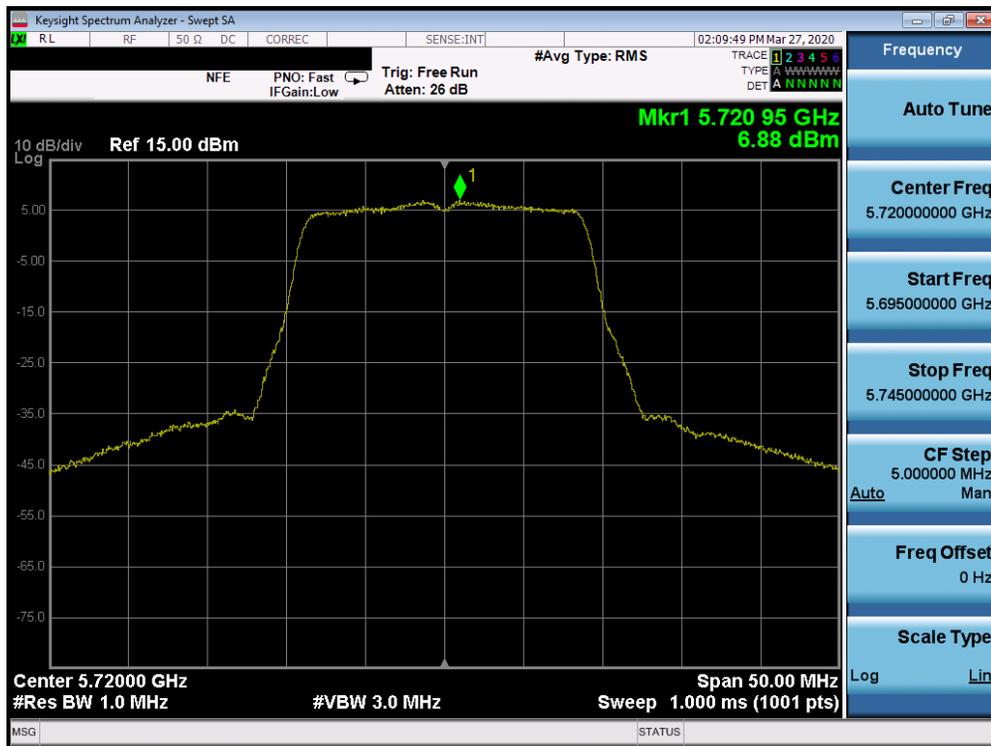


Plot 7-100. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 77 of 170

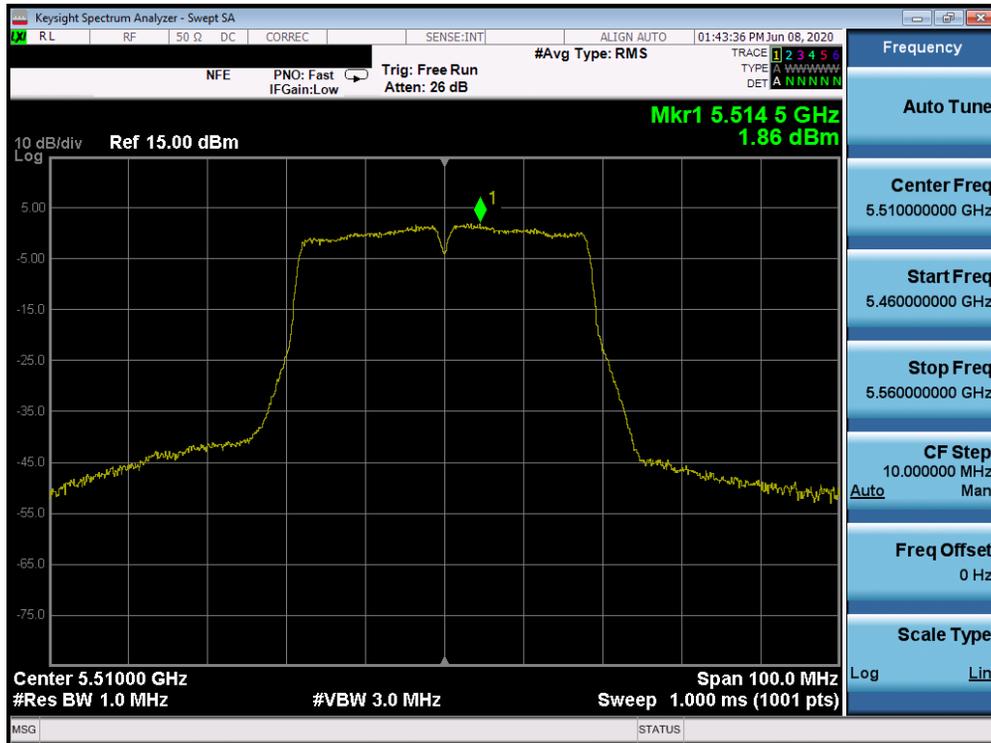


Plot 7-101. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

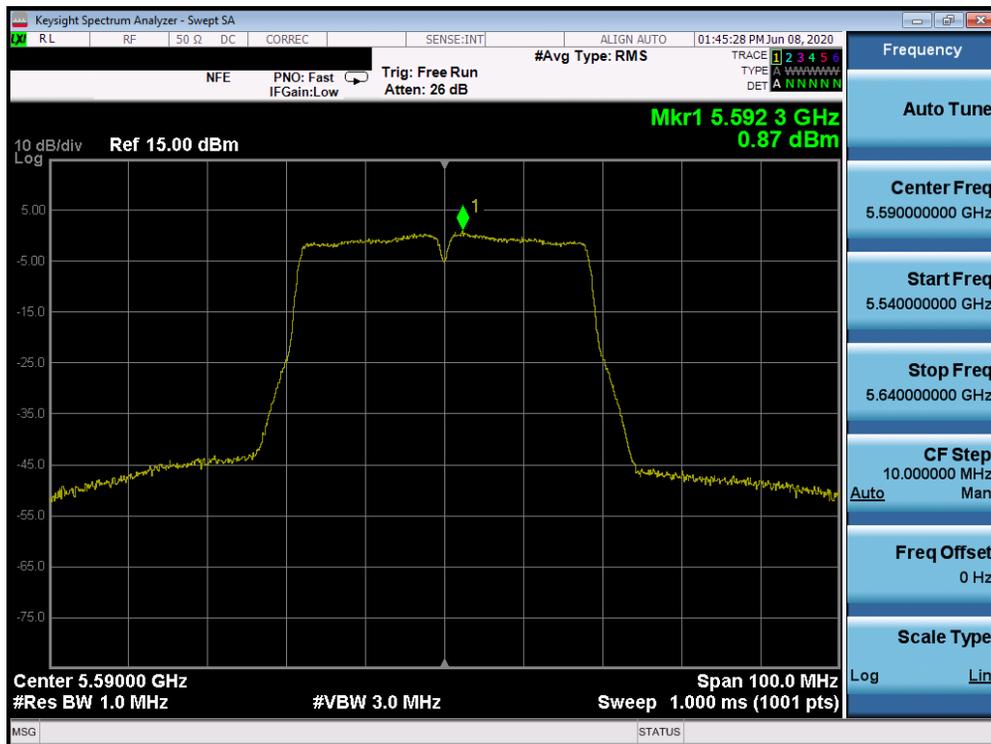


Plot 7-102. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 78 of 170

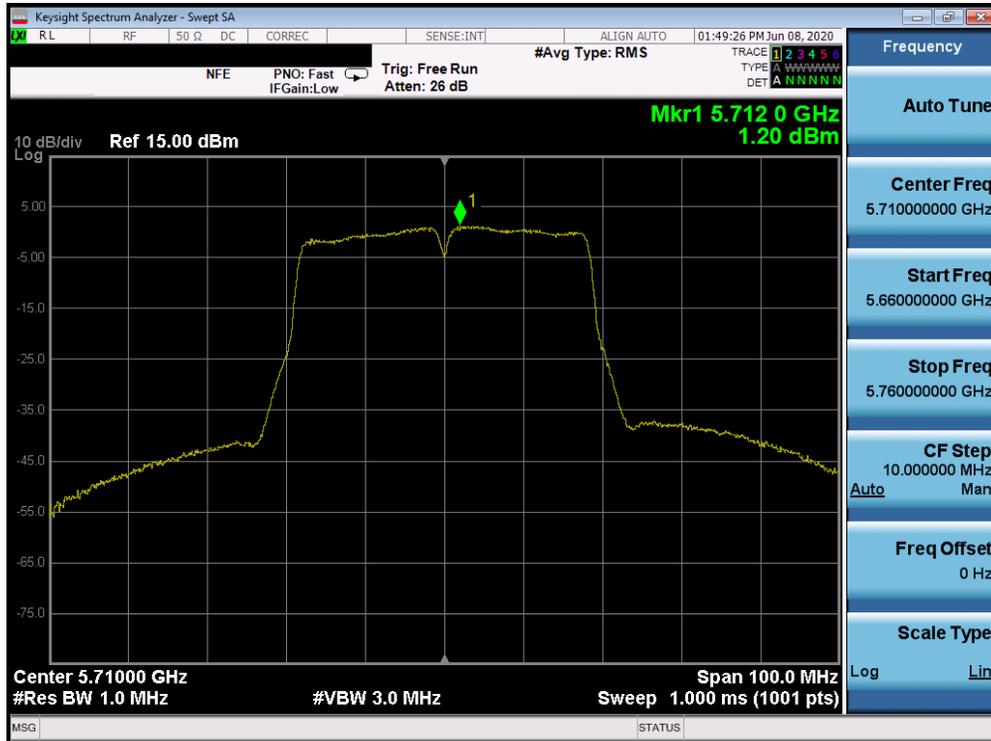


Plot 7-103. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

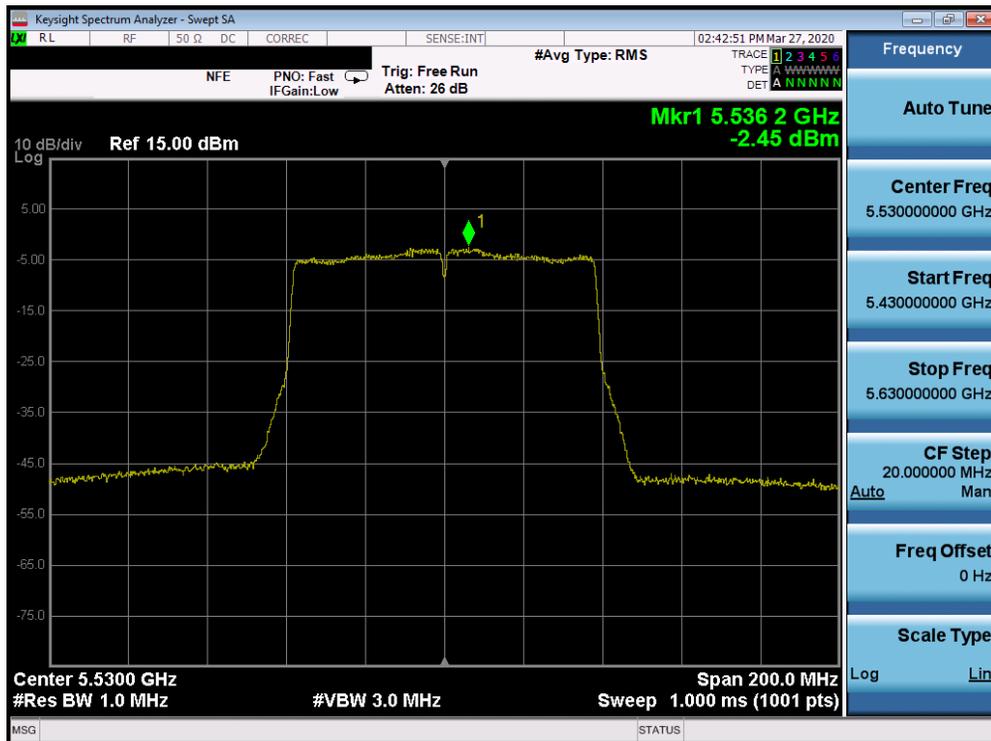


Plot 7-104. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 79 of 170

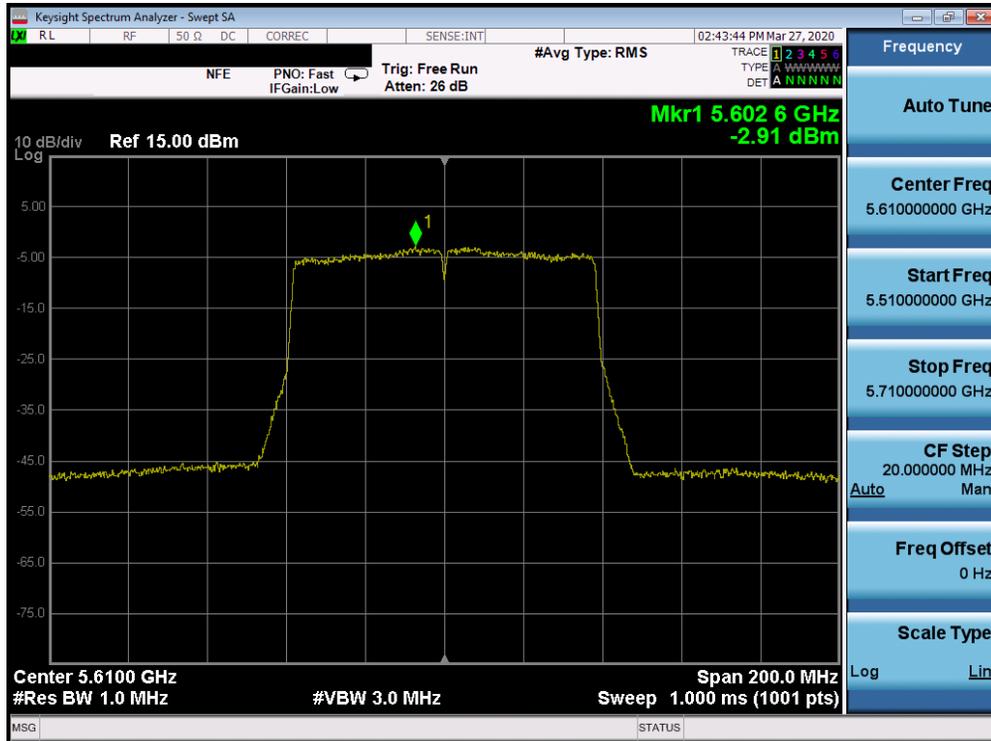


Plot 7-105. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

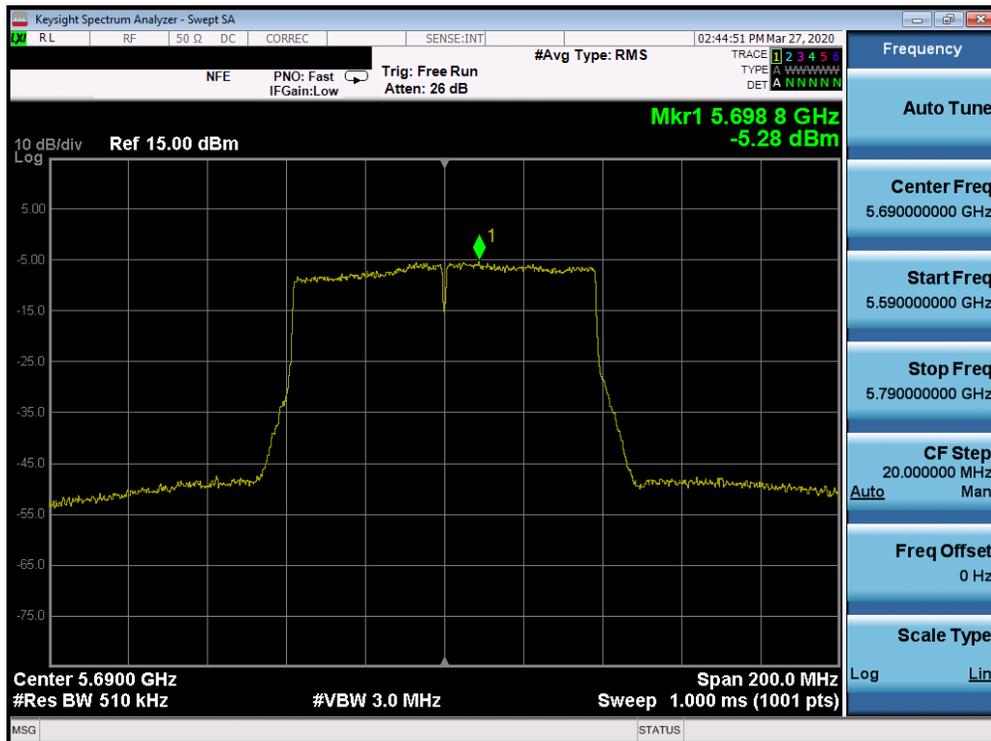


Plot 7-106. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 80 of 170



Plot 7-107. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

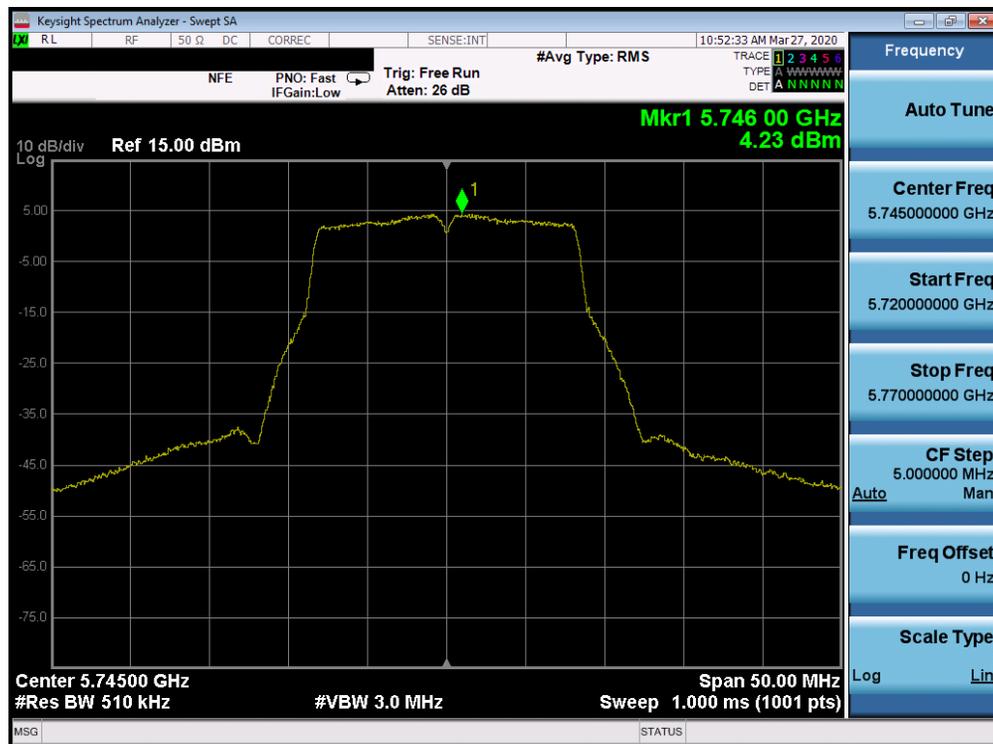


Plot 7-108. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 81 of 170

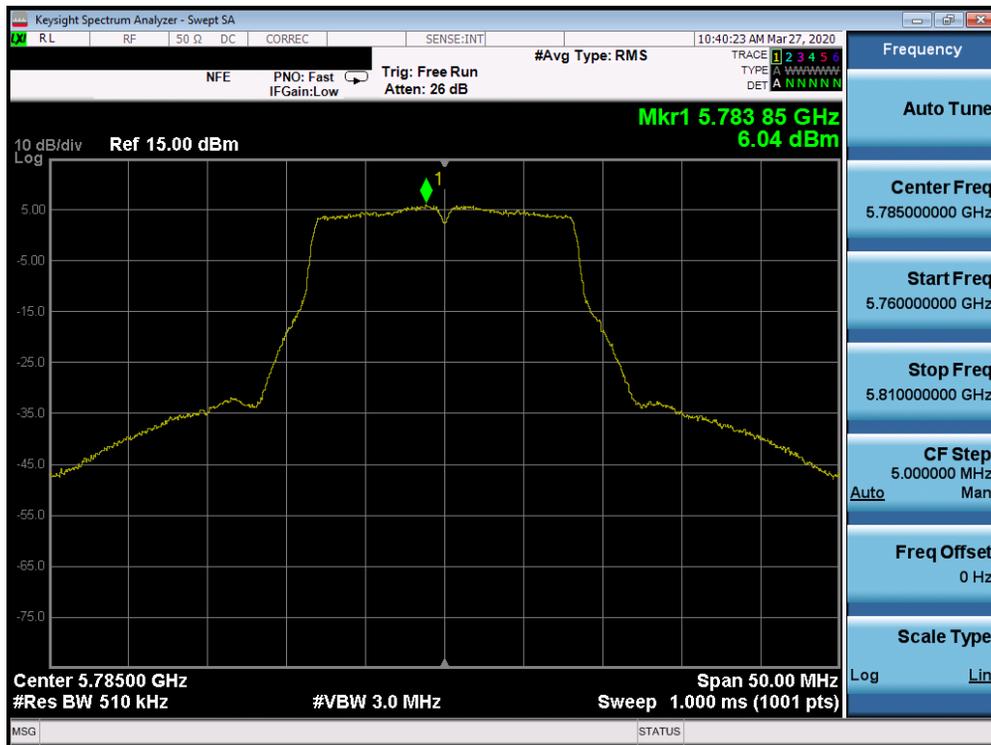
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	4.23	30.0	-25.77
	5785	157	a	6	6.04	30.0	-23.96
	5825	165	a	6	5.83	30.0	-24.17
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	4.11	30.0	-25.89
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	5.46	30.0	-24.54
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	5.48	30.0	-24.52
	5755	151	n (40MHz)	13.5/15 (MCS0)	-1.32	30.0	-31.32
	5795	159	n (40MHz)	13.5/15 (MCS0)	-1.13	30.0	-31.13
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-2.62	30.0	-32.62

Table 7-19. Band 3 Conducted Power Spectral Density Measurements SISO ANT1

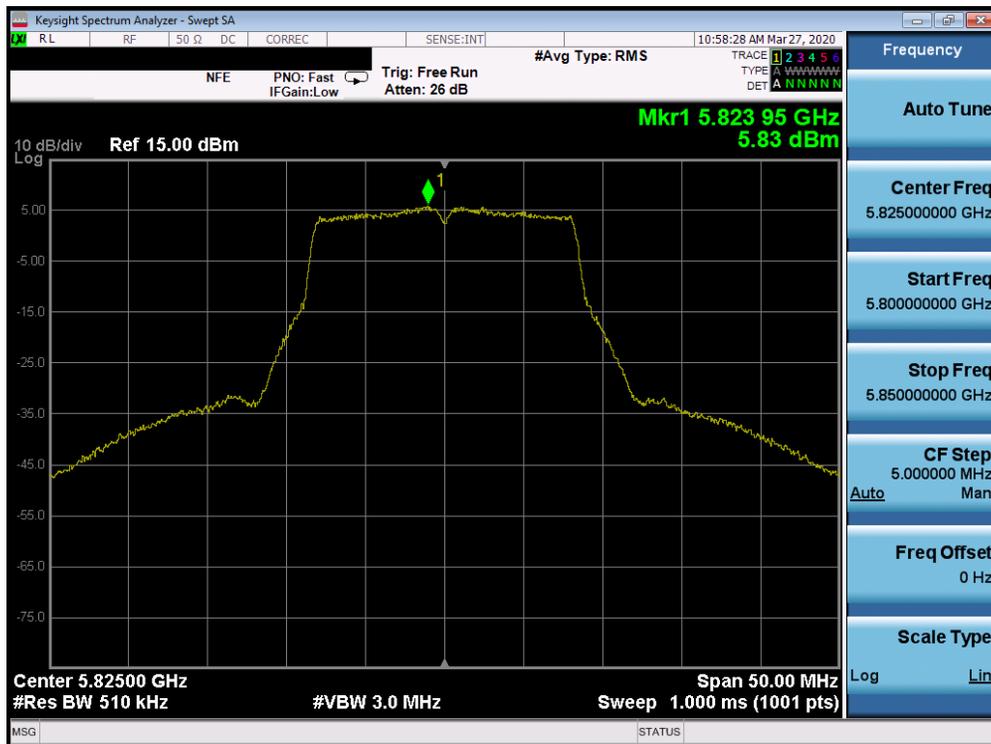


Plot 7-109. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 149)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 82 of 170

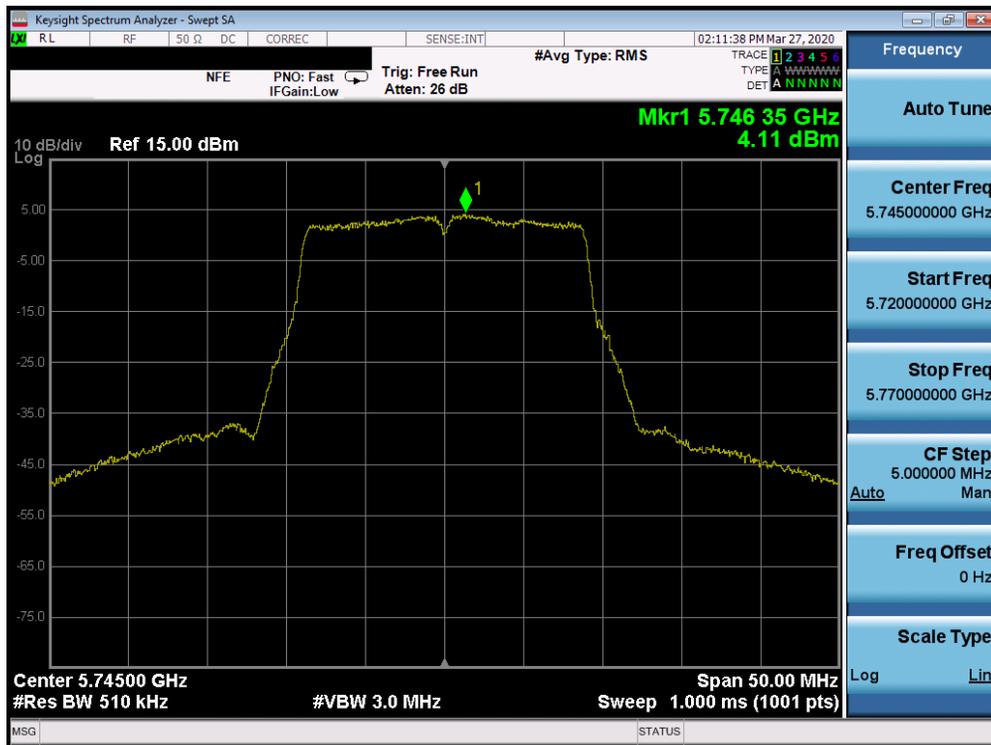


Plot 7-110. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 157)

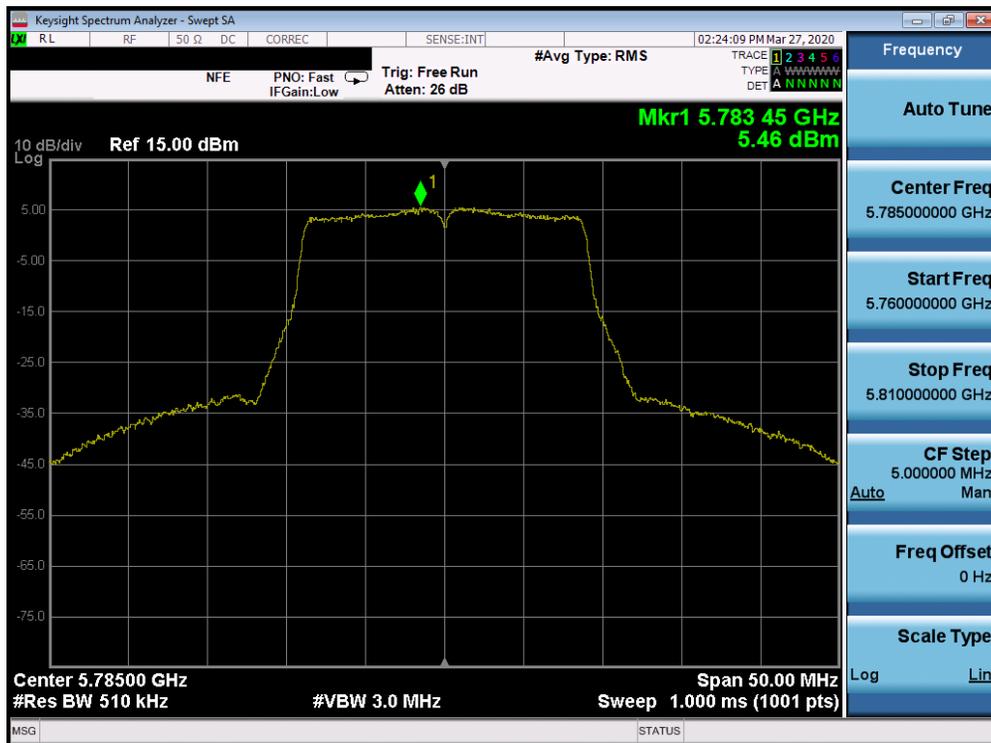


Plot 7-111. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 165)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 83 of 170

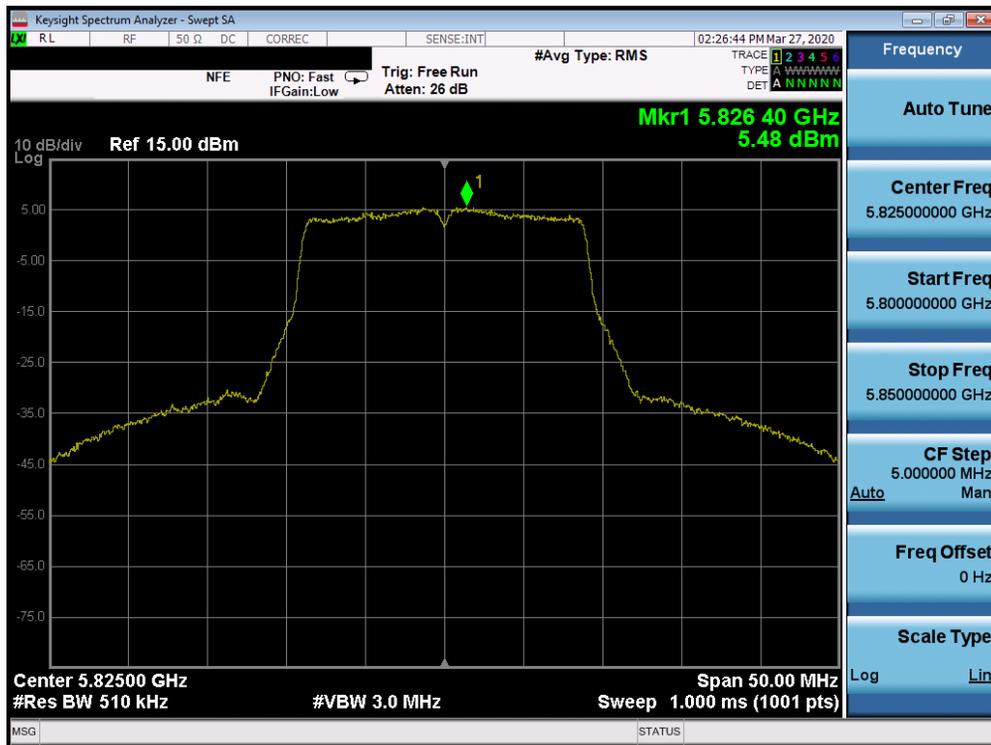


Plot 7-112. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

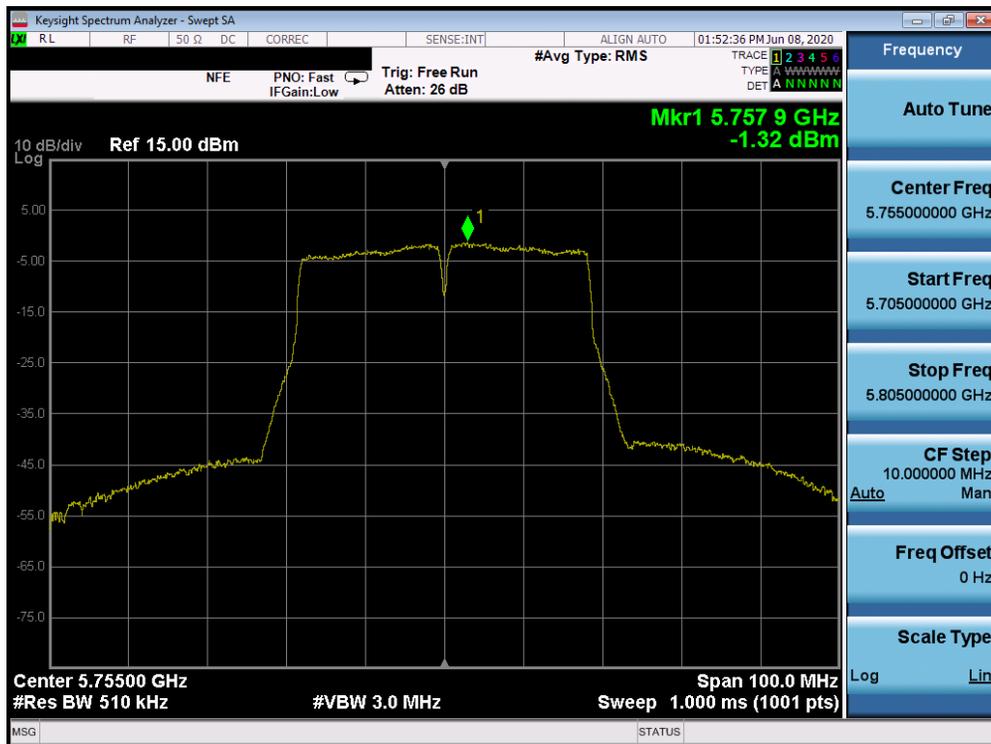


Plot 7-113. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 84 of 170

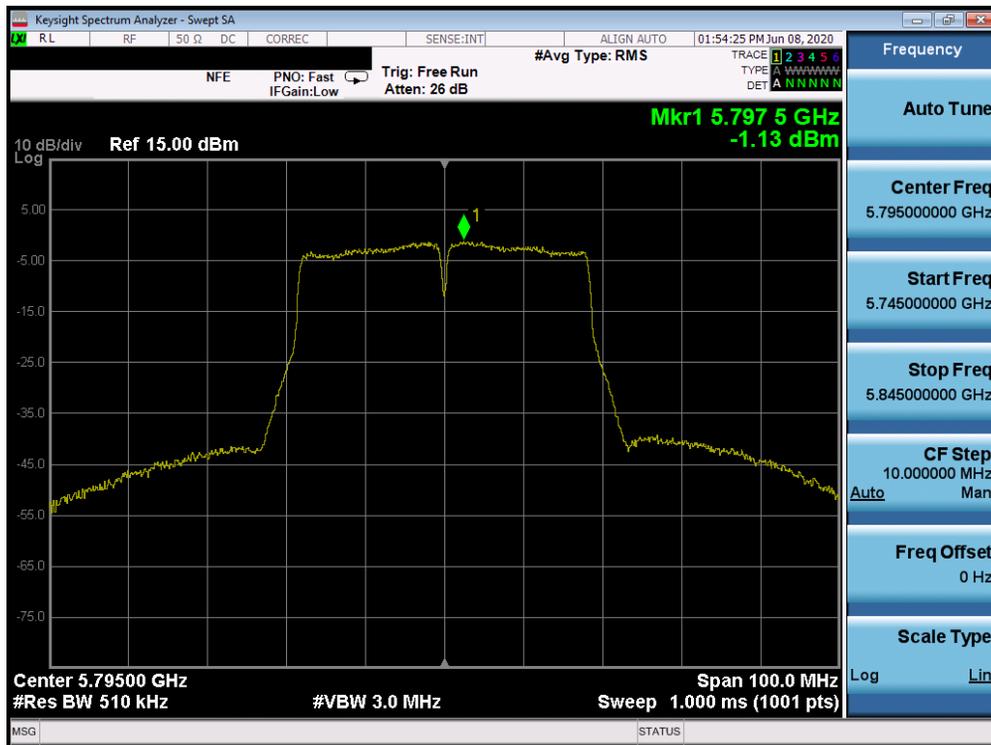


Plot 7-114. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

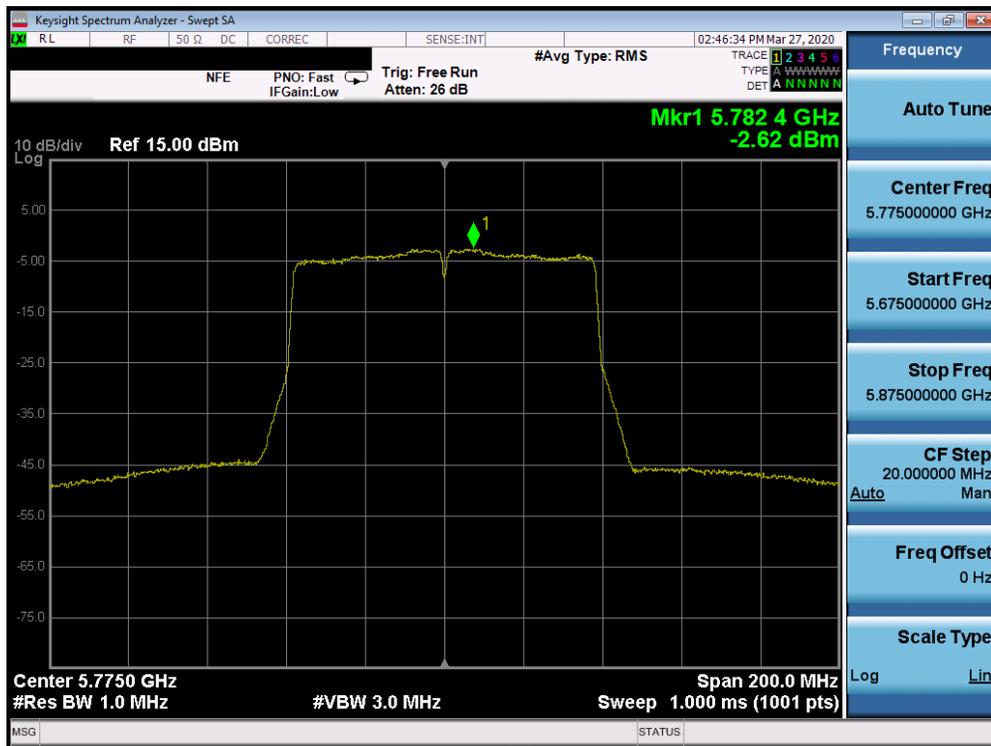


Plot 7-115. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 85 of 170



Plot 7-116. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)



Plot 7-117. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

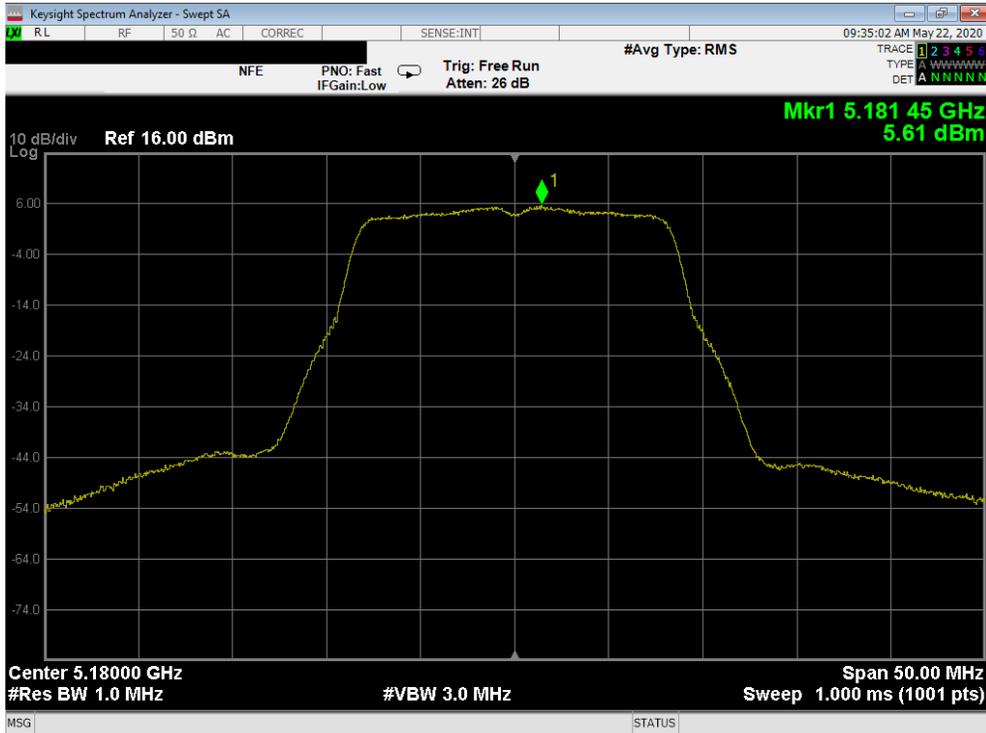
FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 86 of 170

SISO Antenna-2 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	5.61	11.0	-5.39
	5200	40	a	6	7.89	11.0	-3.11
	5240	48	a	6	6.21	11.0	-4.79
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.27	11.0	-5.73
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	7.51	11.0	-3.49
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	5.52	11.0	-5.48
	5190	38	n (40MHz)	13.5/15 (MCS0)	3.00	11.0	-8.00
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.86	11.0	-8.14
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-3.97	11.0	-14.97
Band 2A	5260	52	a	6	5.89	11.0	-5.11
	5280	56	a	6	7.60	11.0	-3.40
	5320	64	a	6	5.67	11.0	-5.33
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	5.70	11.0	-5.30
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	7.30	11.0	-3.70
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	5.12	11.0	-5.88
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.99	11.0	-8.01
	5310	62	n (40MHz)	13.5/15 (MCS0)	3.19	11.0	-7.81
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-4.47	11.0	-15.47
Band 2C	5500	100	a	6	5.72	11.0	-5.28
	5600	120	a	6	5.46	11.0	-5.54
	5720	144	a	6	6.04	11.0	-4.96
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	5.34	11.0	-5.66
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.18	11.0	-5.82
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	5.66	11.0	-5.34
	5510	102	n (40MHz)	13.5/15 (MCS0)	2.94	11.0	-8.06
	5590	118	n (40MHz)	13.5/15 (MCS0)	2.27	11.0	-8.73
	5710	142	n (40MHz)	13.5/15 (MCS0)	2.76	11.0	-8.24
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-4.41	11.0	-15.41
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-4.83	11.0	-15.83
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-6.85	11.0	-17.85

Table 7-20. Conducted Power Spectral Density Measurements SISO ANT2

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 87 of 170

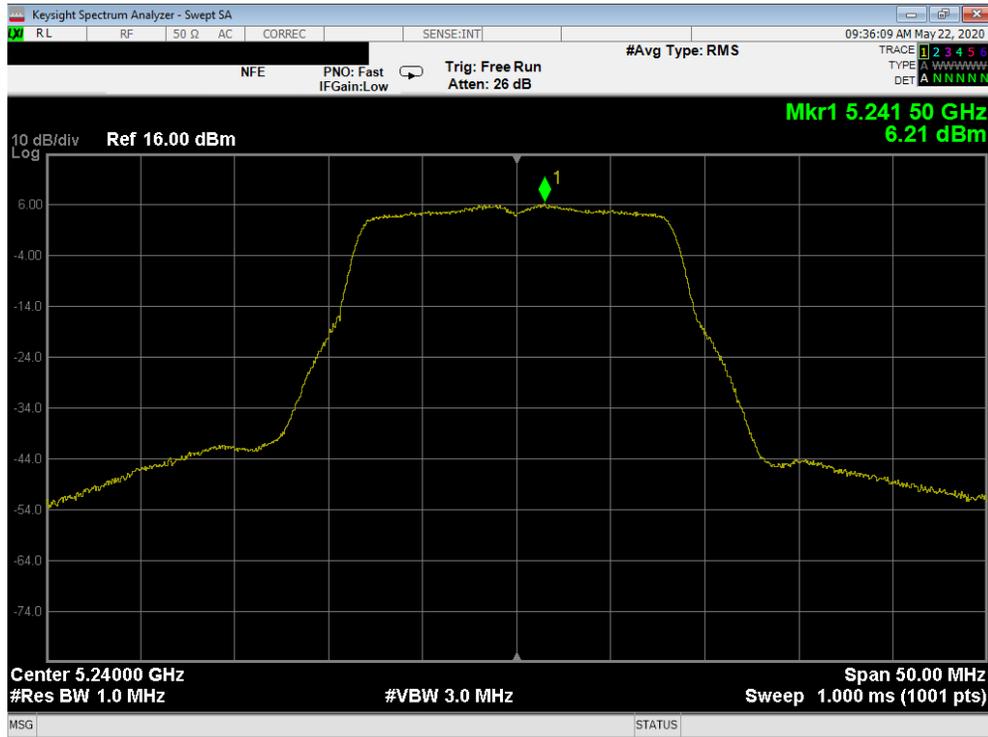


Plot 7-118. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 36)

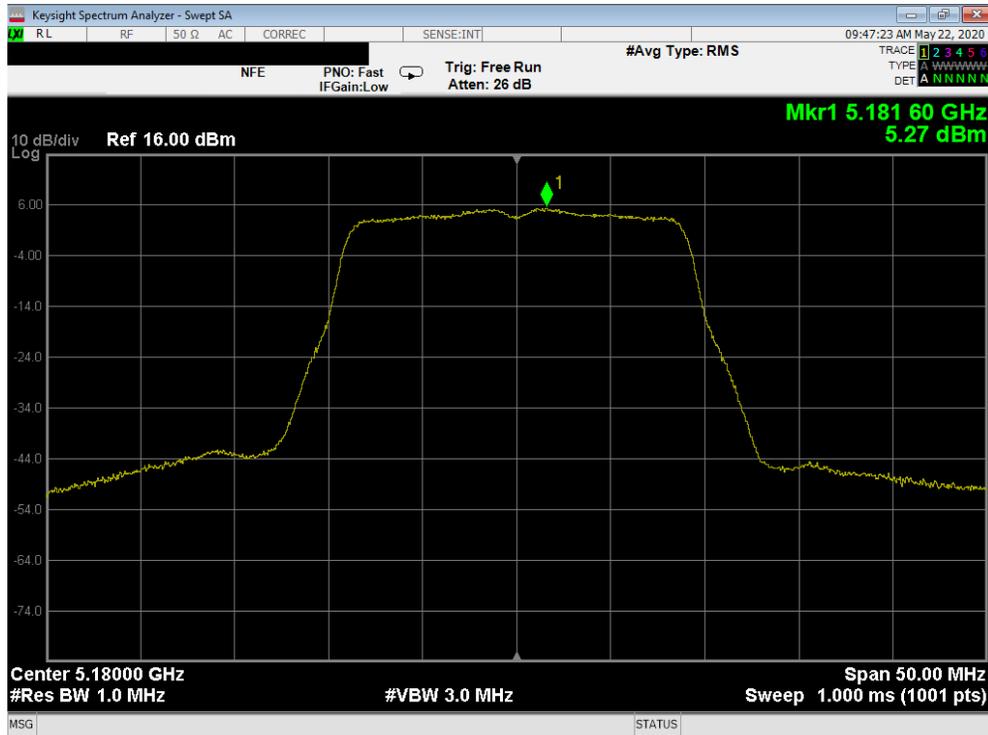


Plot 7-119. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 40)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 88 of 170

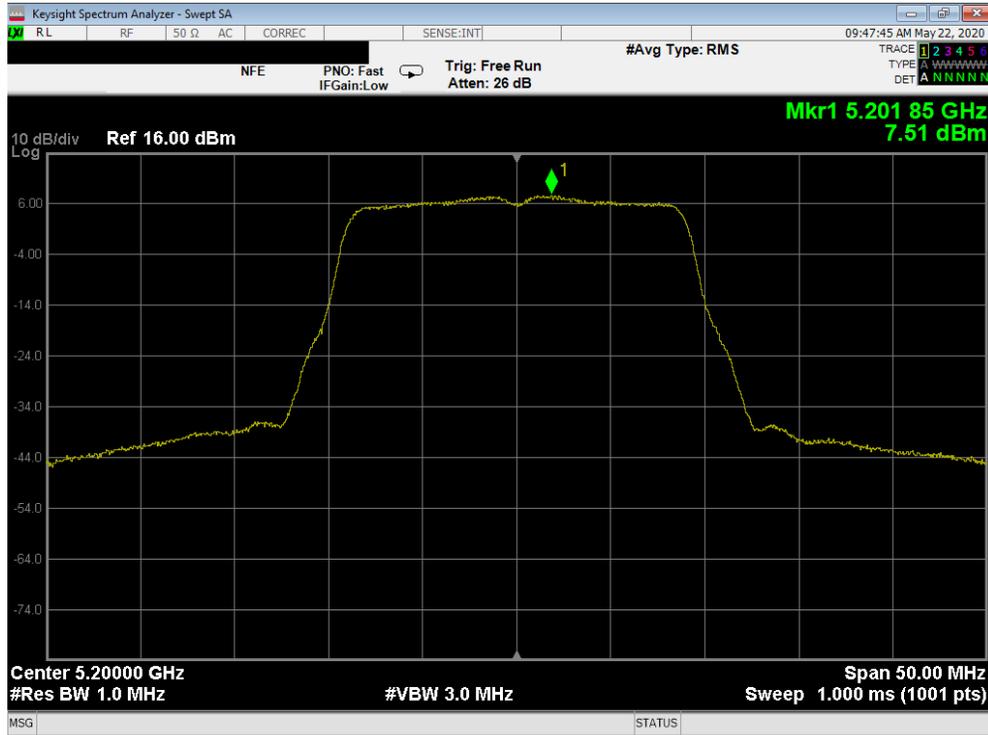


Plot 7-120. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 48)

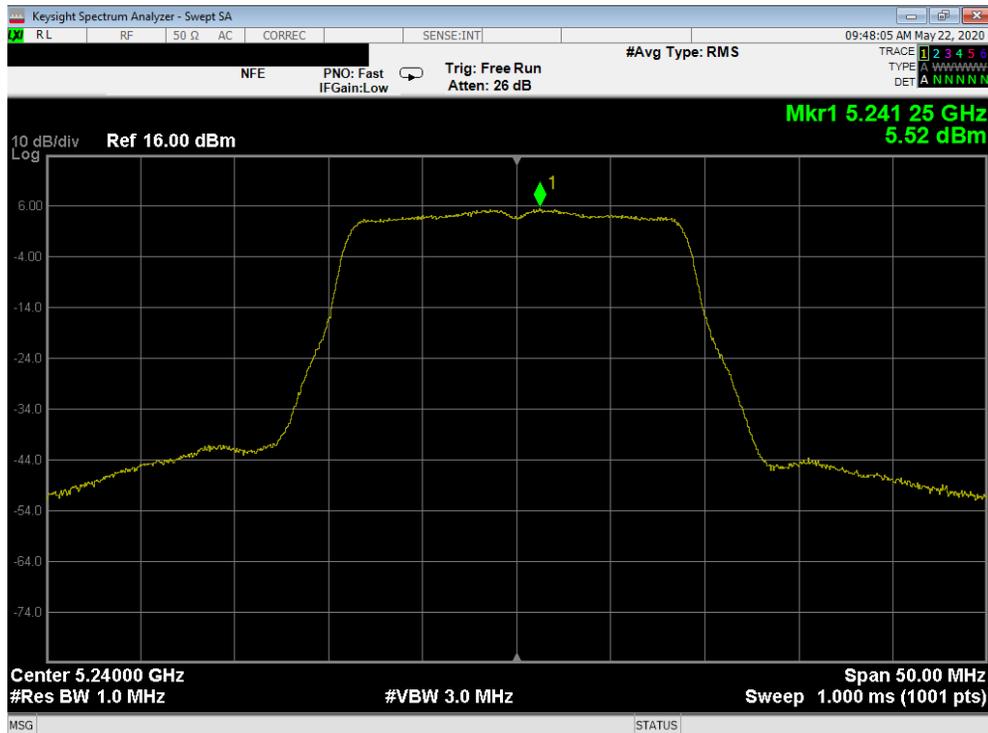


Plot 7-121. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 89 of 170

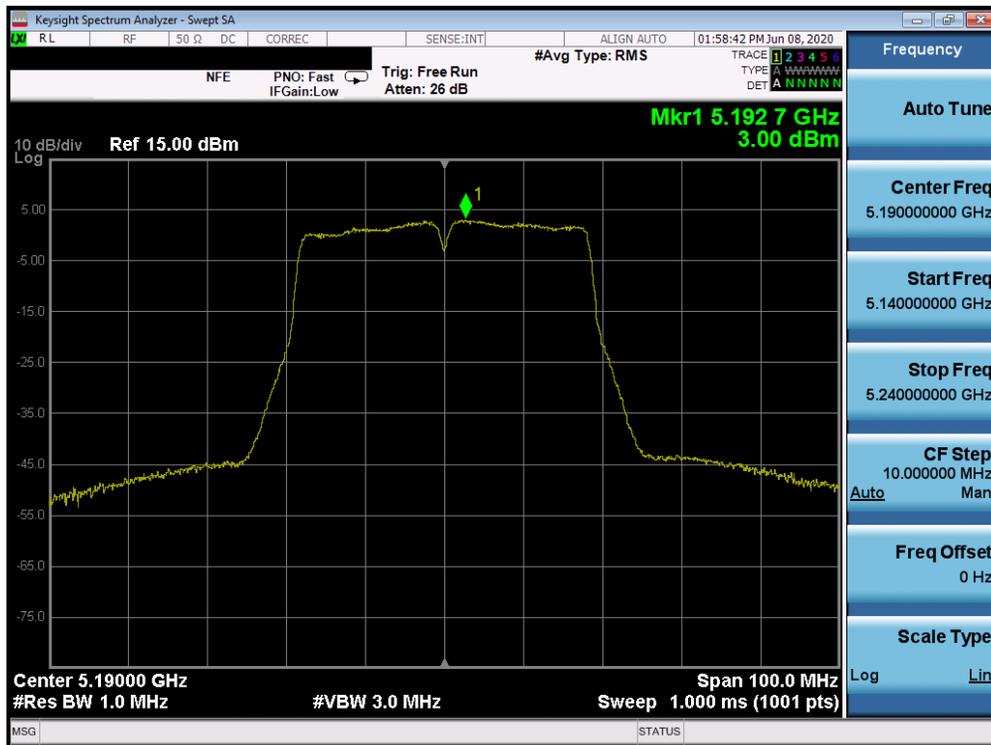


Plot 7-122. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

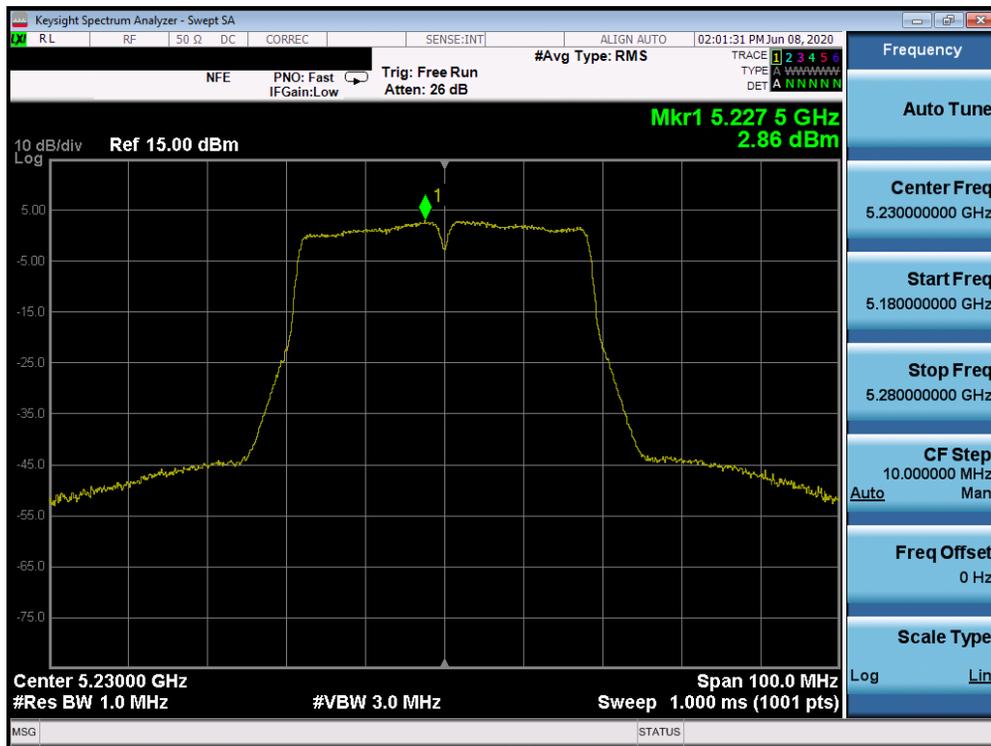


Plot 7-123. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 90 of 170

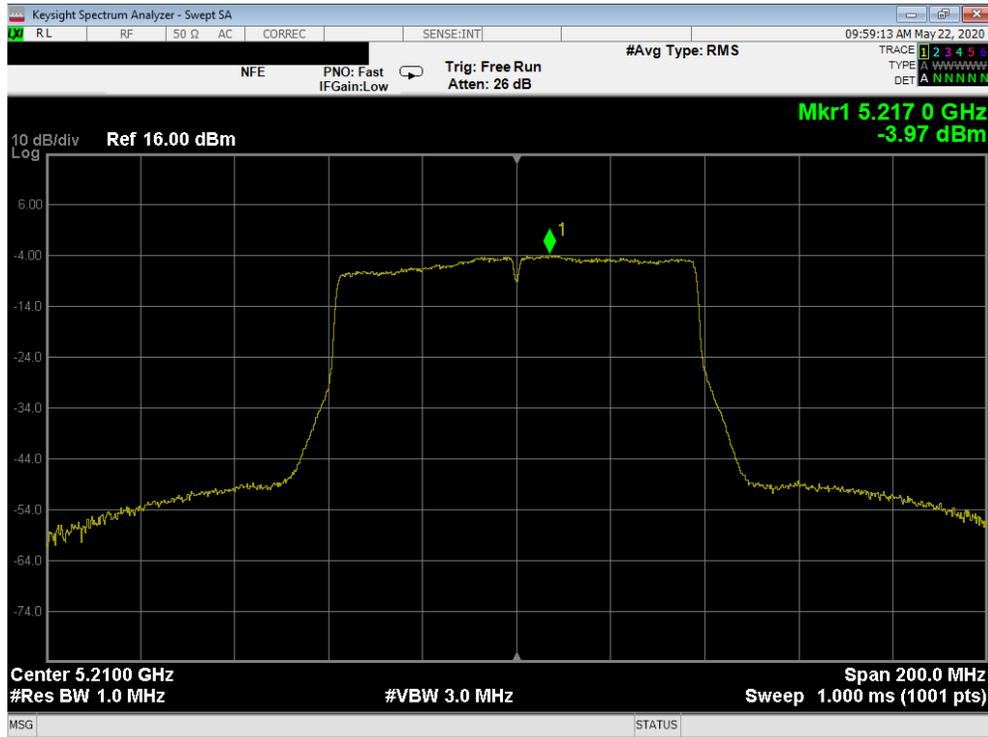


Plot 7-124. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

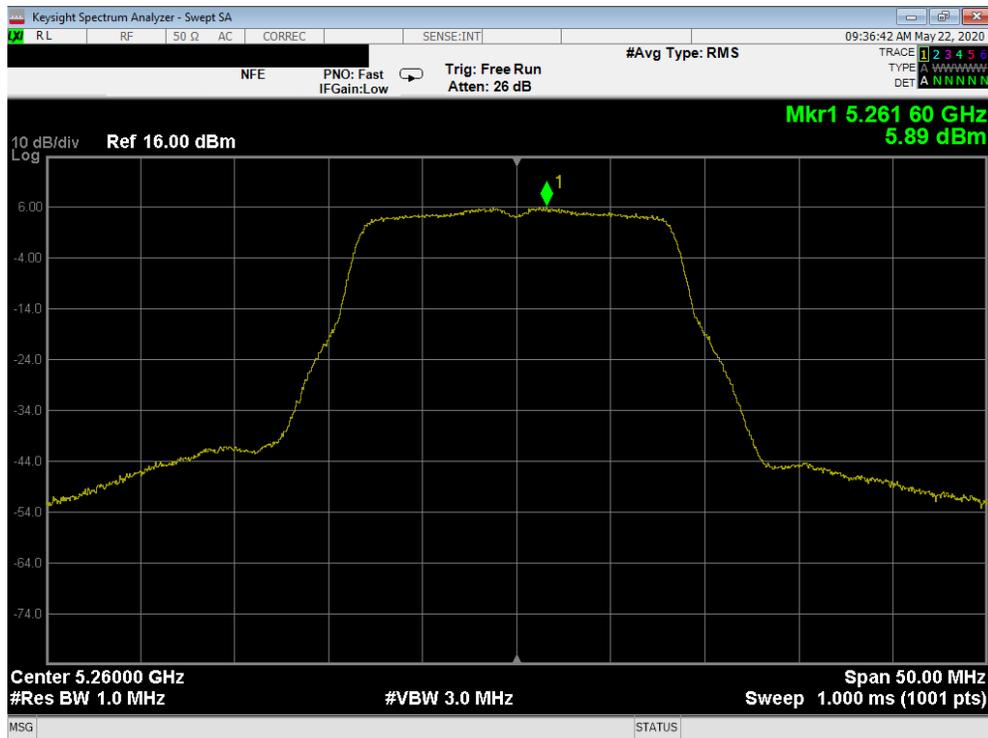


Plot 7-125. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 91 of 170

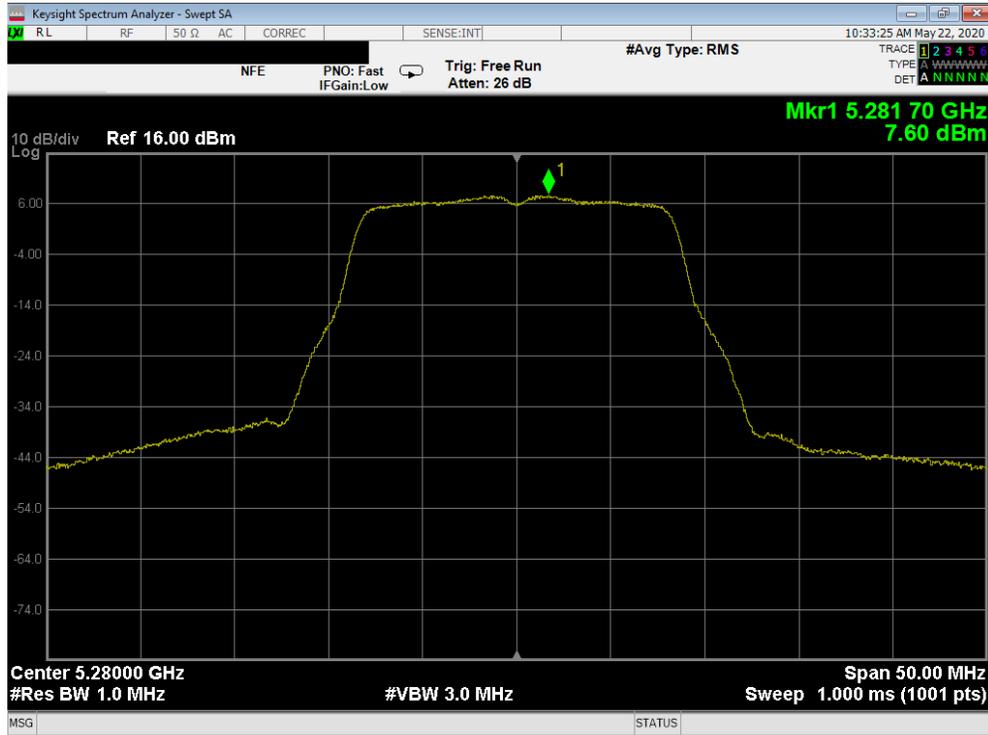


Plot 7-126. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

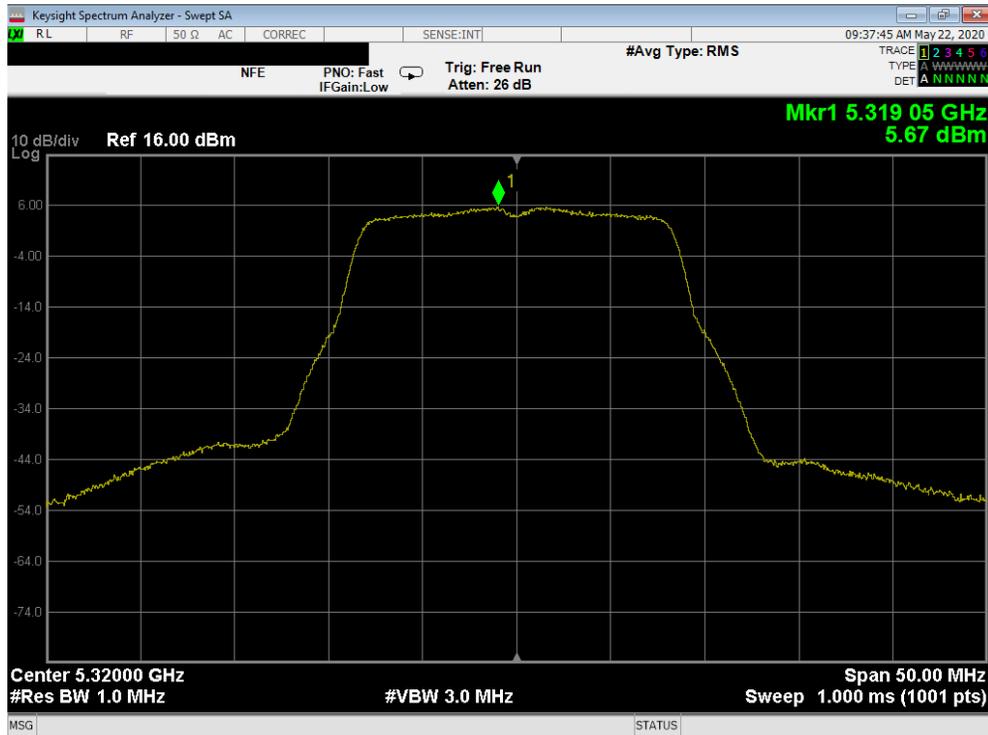


Plot 7-127. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 92 of 170

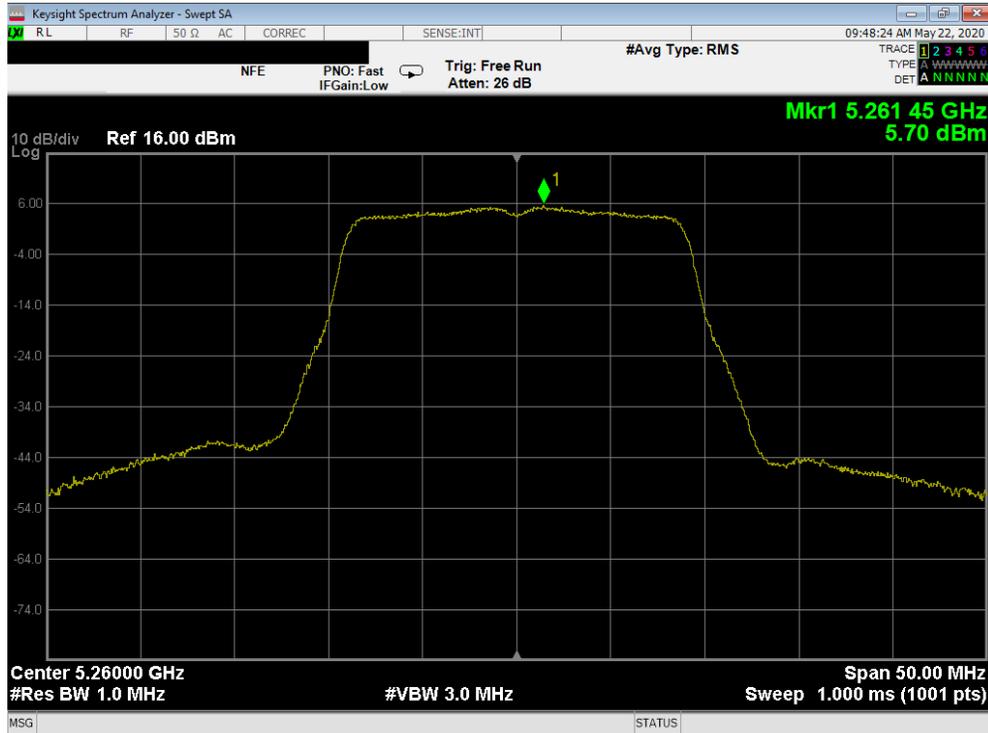


Plot 7-128. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 56)

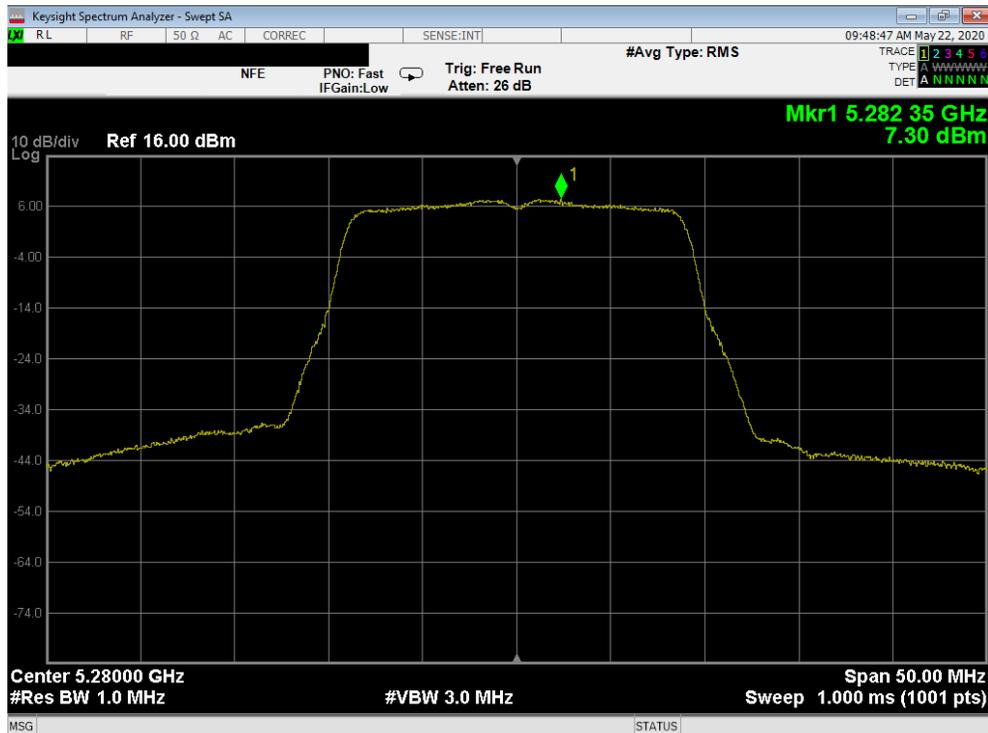


Plot 7-129. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 93 of 170

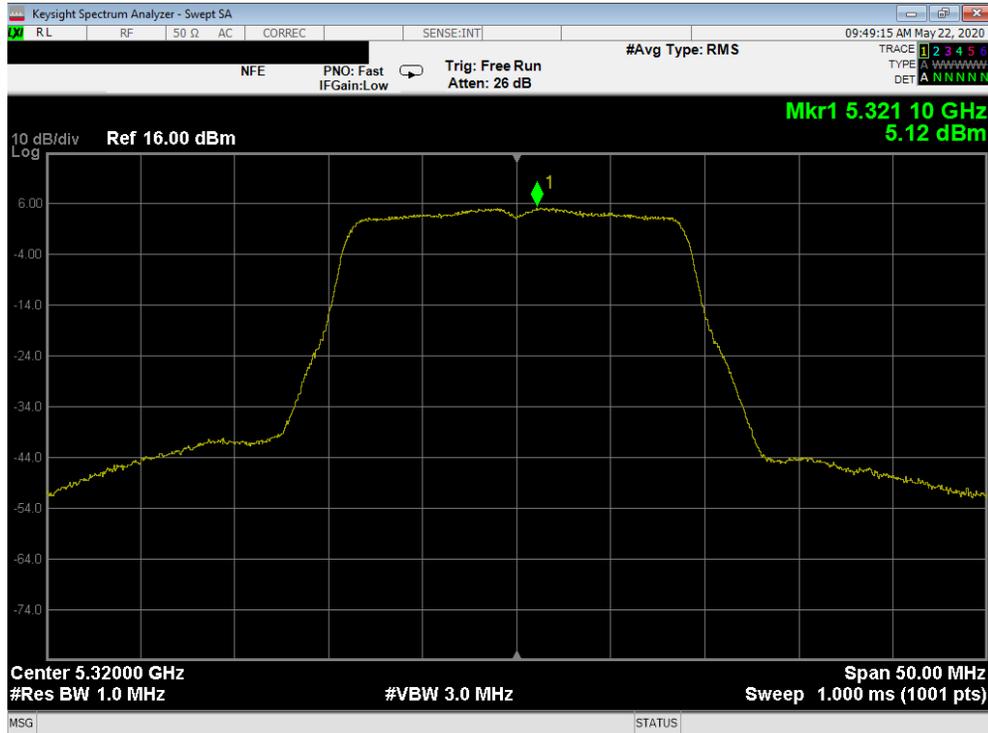


Plot 7-130. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

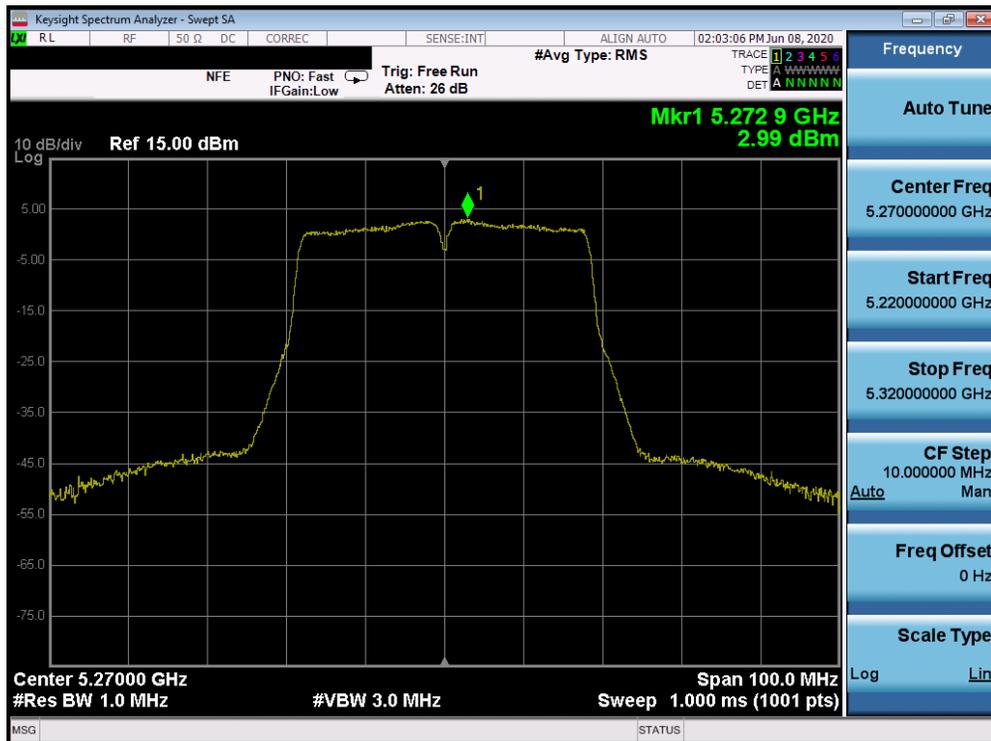


Plot 7-131. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 94 of 170

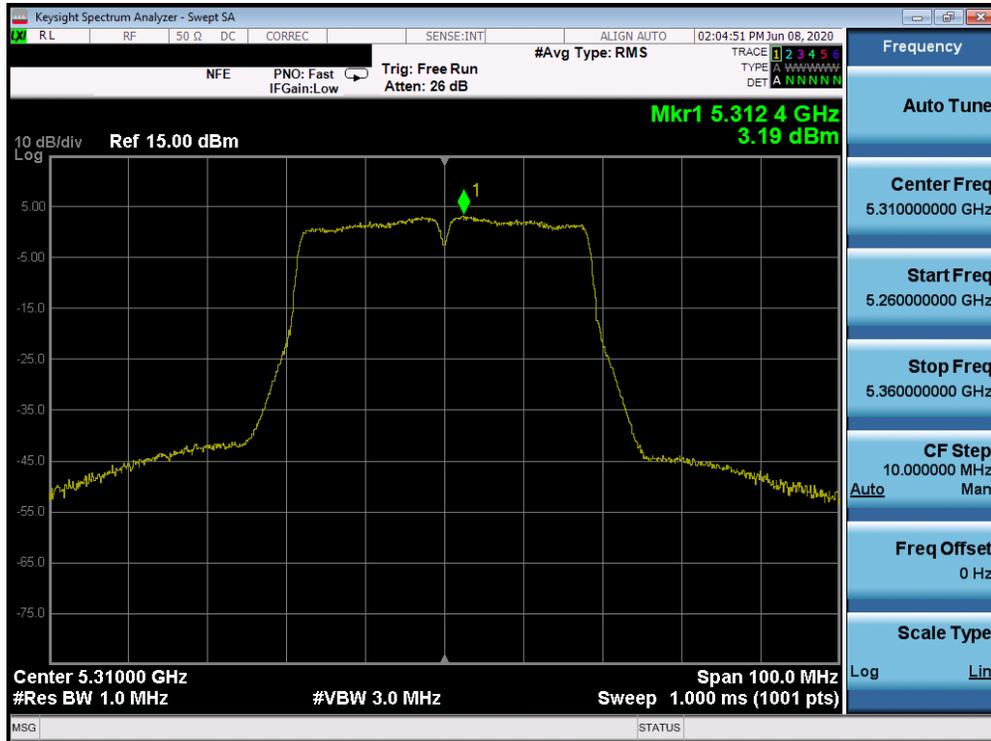


Plot 7-132. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

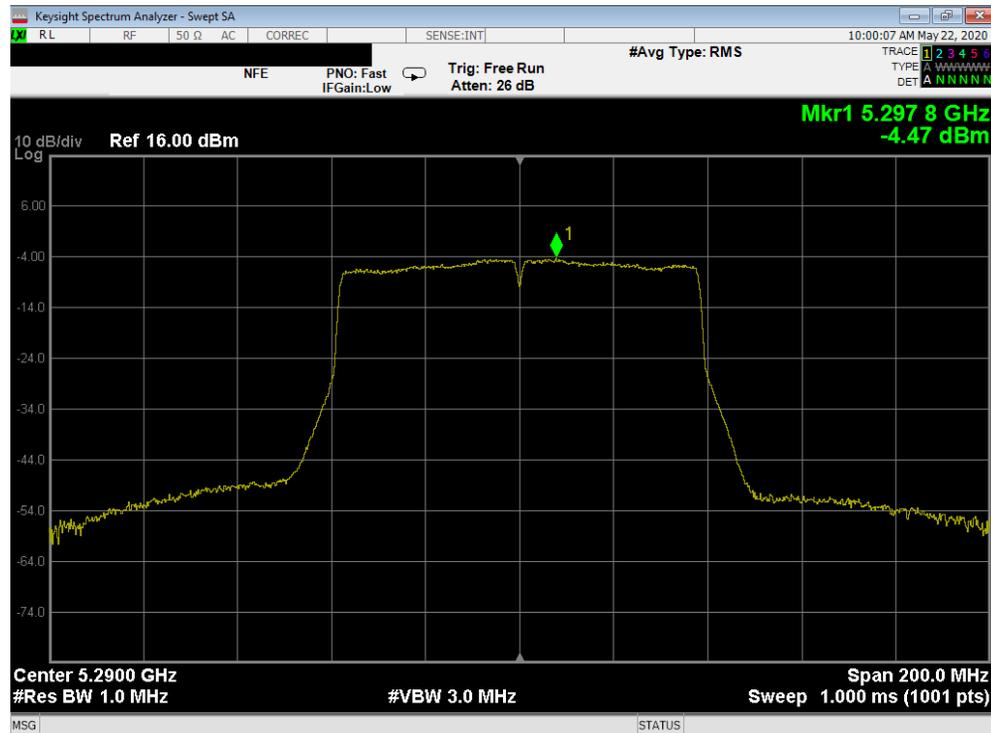


Plot 7-133. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 95 of 170

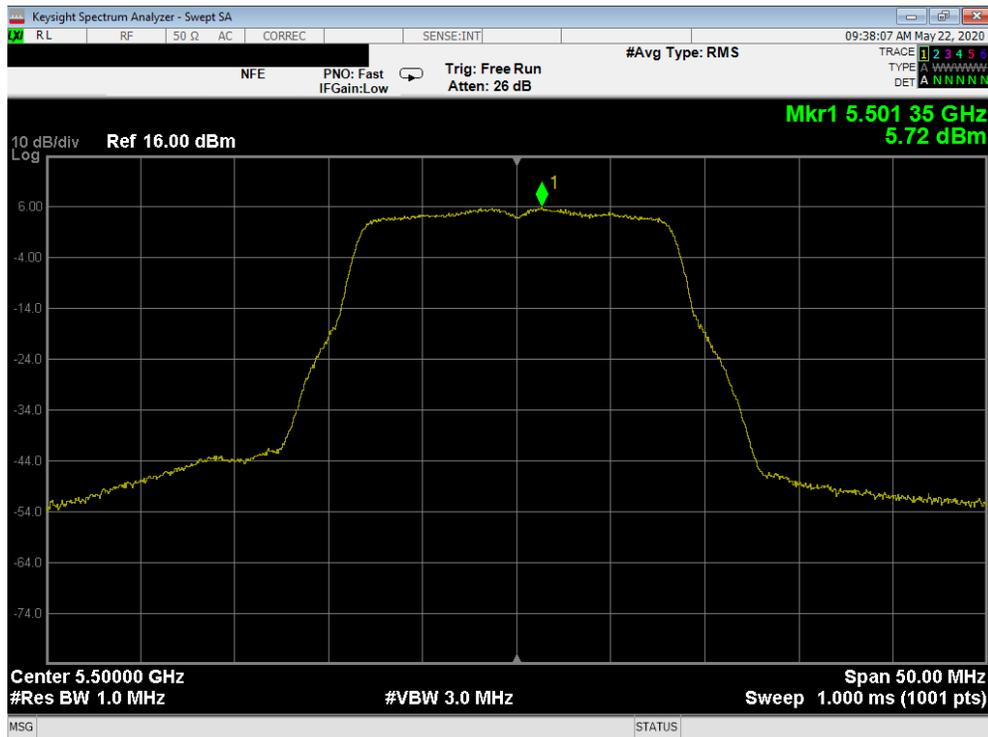


Plot 7-134. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

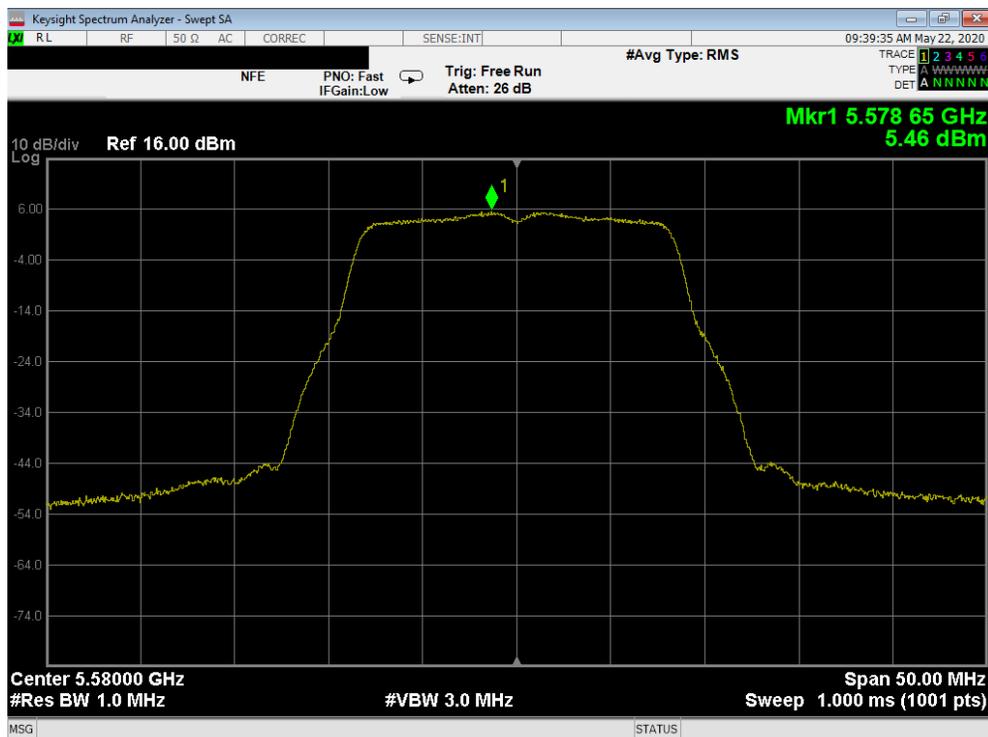


Plot 7-135. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 96 of 170



Plot 7-136. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 100)

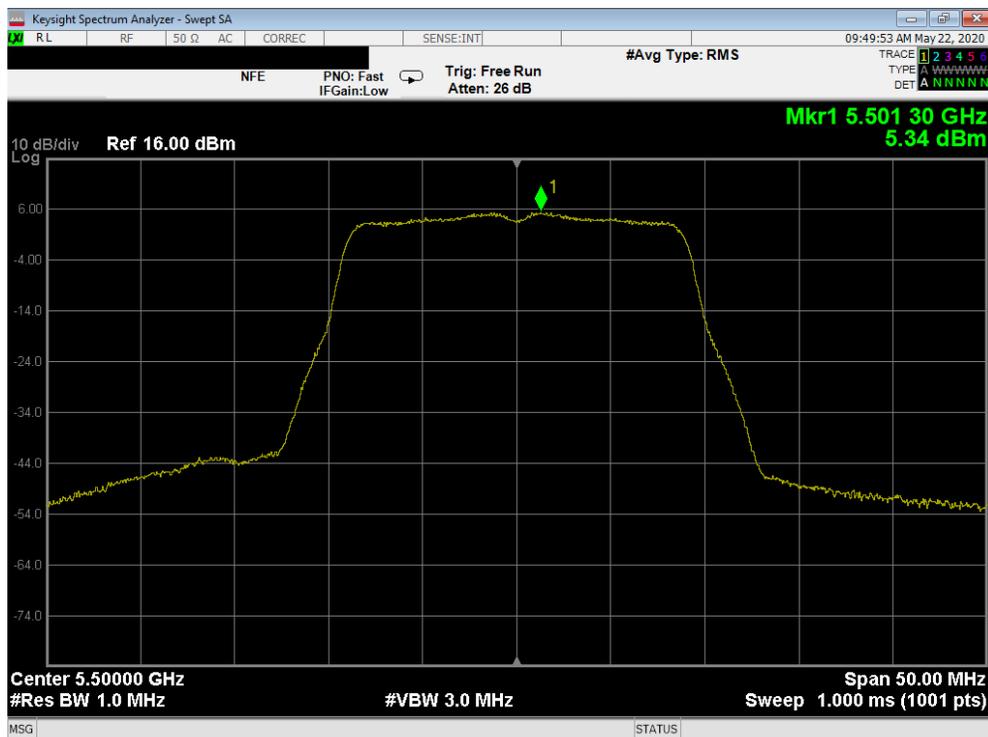


Plot 7-137. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 120)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 97 of 170

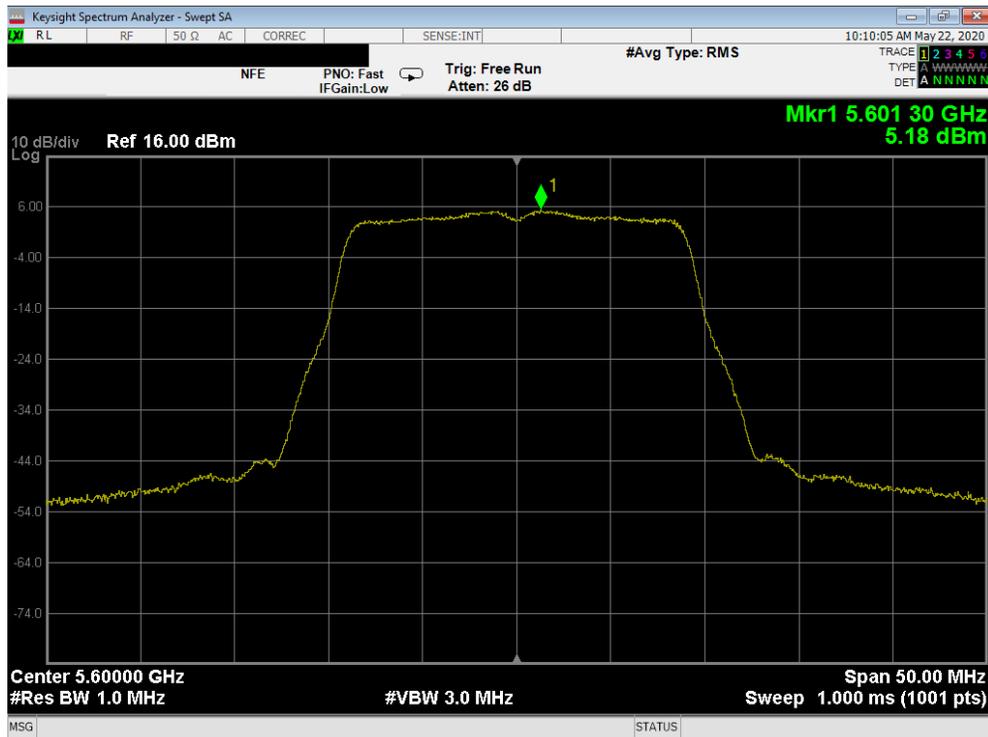


Plot 7-138. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 144)



Plot 7-139. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 98 of 170

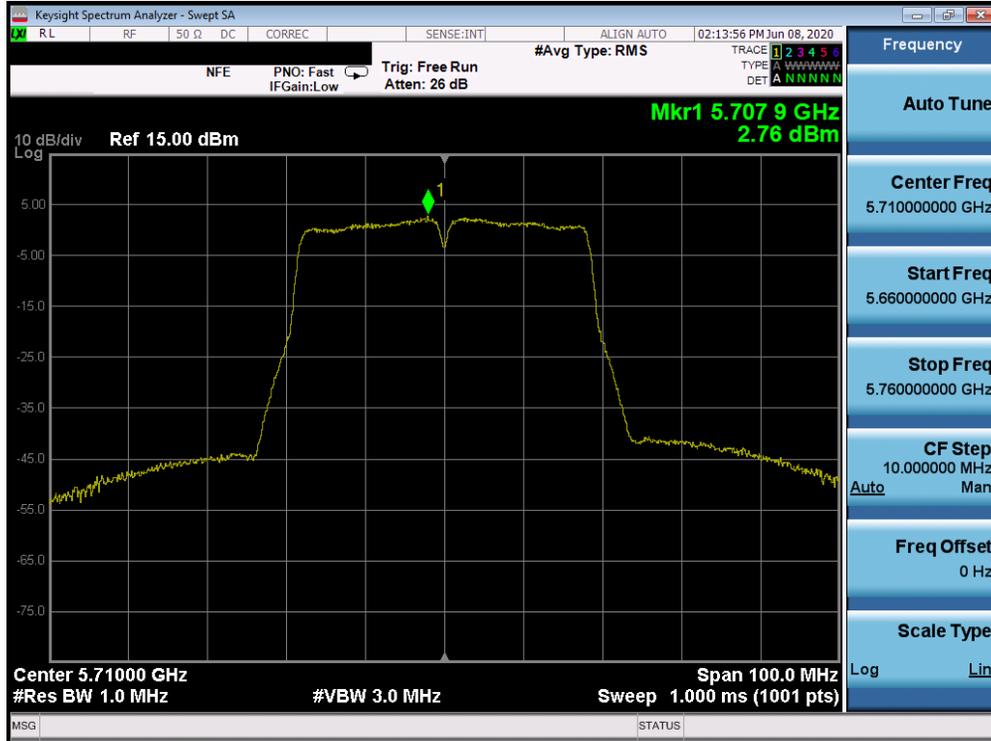


Plot 7-140. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

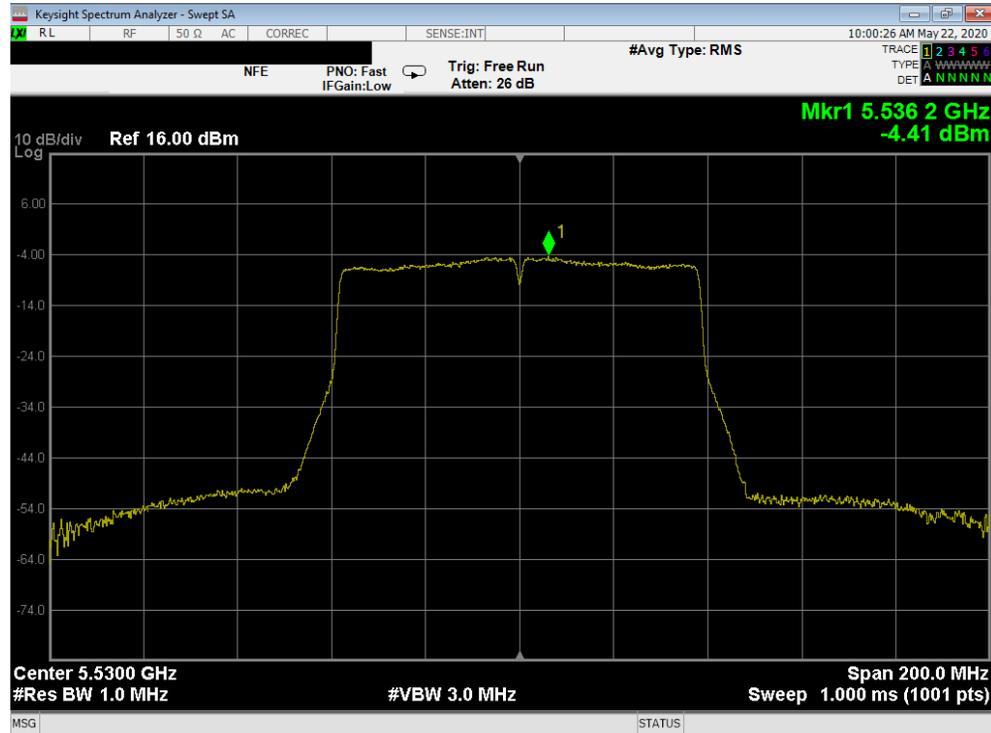


Plot 7-141. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 99 of 170

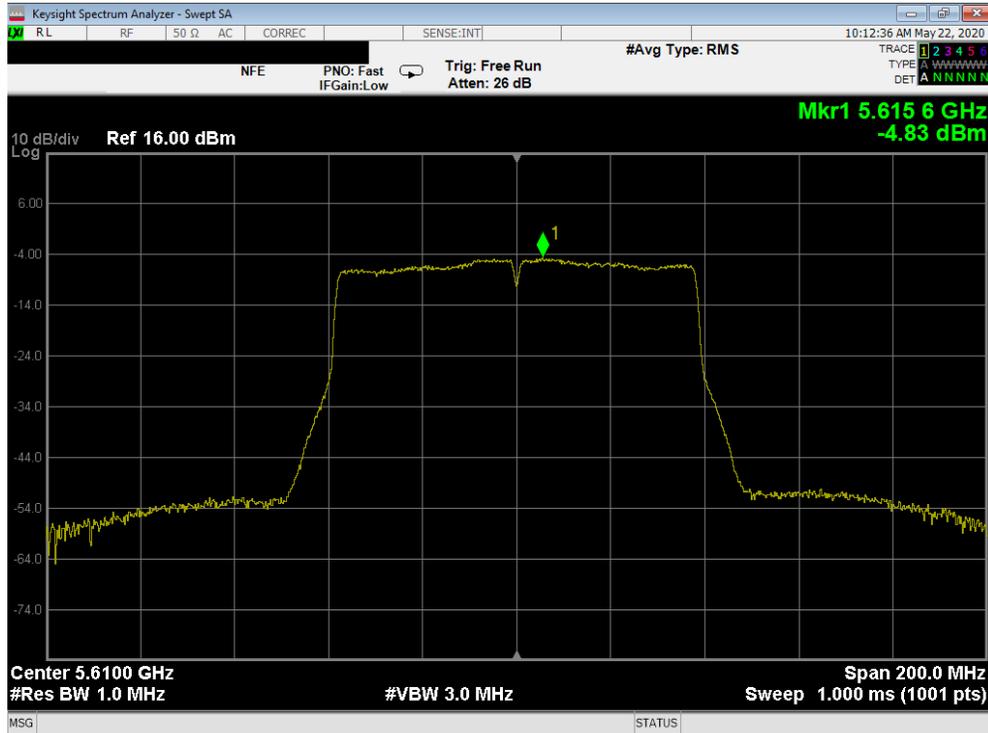


Plot 7-144. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

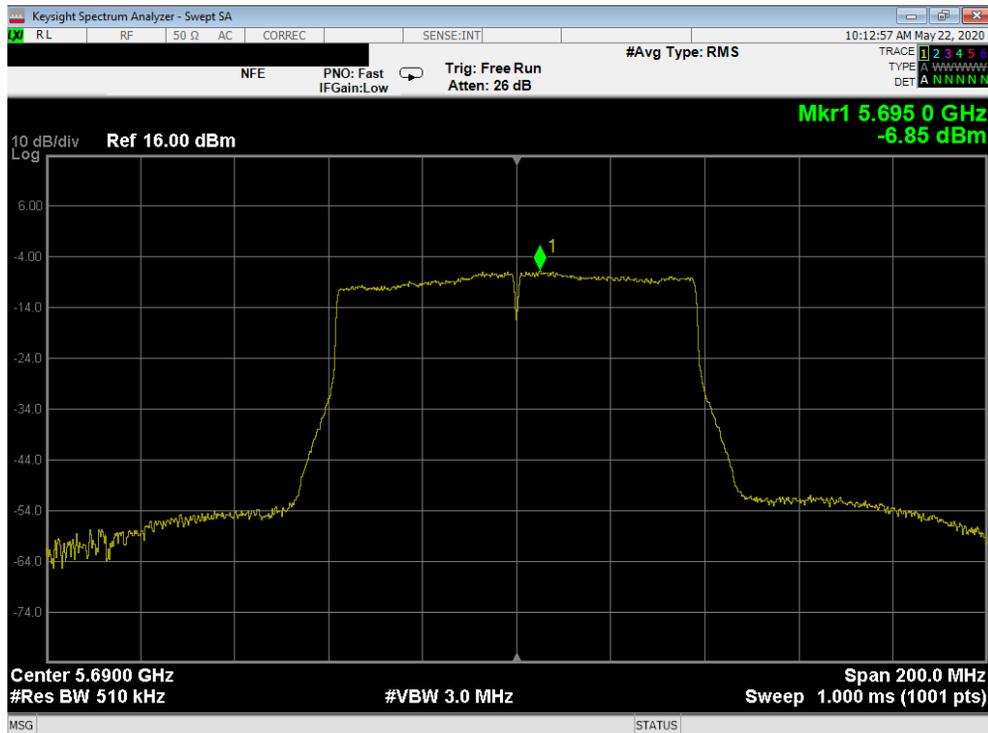


Plot 7-145. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 101 of 170



Plot 7-146. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

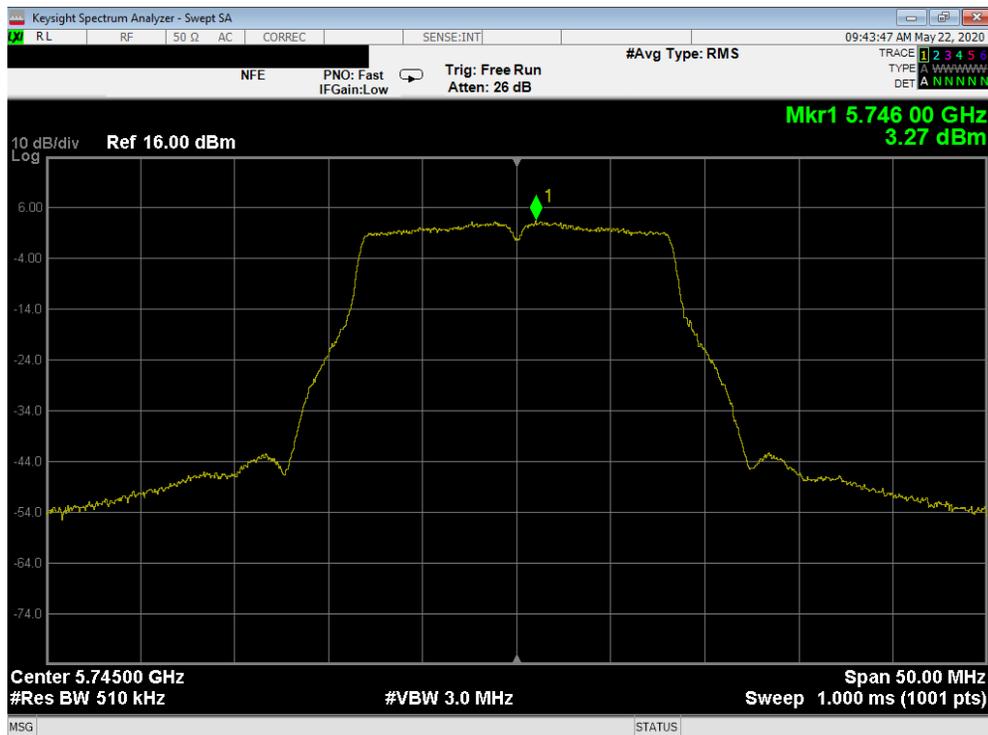


Plot 7-147. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 102 of 170

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	3.27	30.0	-26.73
	5785	157	a	6	5.28	30.0	-24.72
	5825	165	a	6	4.78	30.0	-25.22
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	2.64	30.0	-27.36
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	4.67	30.0	-25.33
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	4.37	30.0	-25.63
	5755	151	n (40MHz)	13.5/15 (MCS0)	-0.04	30.0	-30.04
	5795	159	n (40MHz)	13.5/15 (MCS0)	-0.35	30.0	-30.35
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-3.87	30.0	-33.87

Table 7-21. Band 3 Conducted Power Spectral Density Measurements SISO ANT2

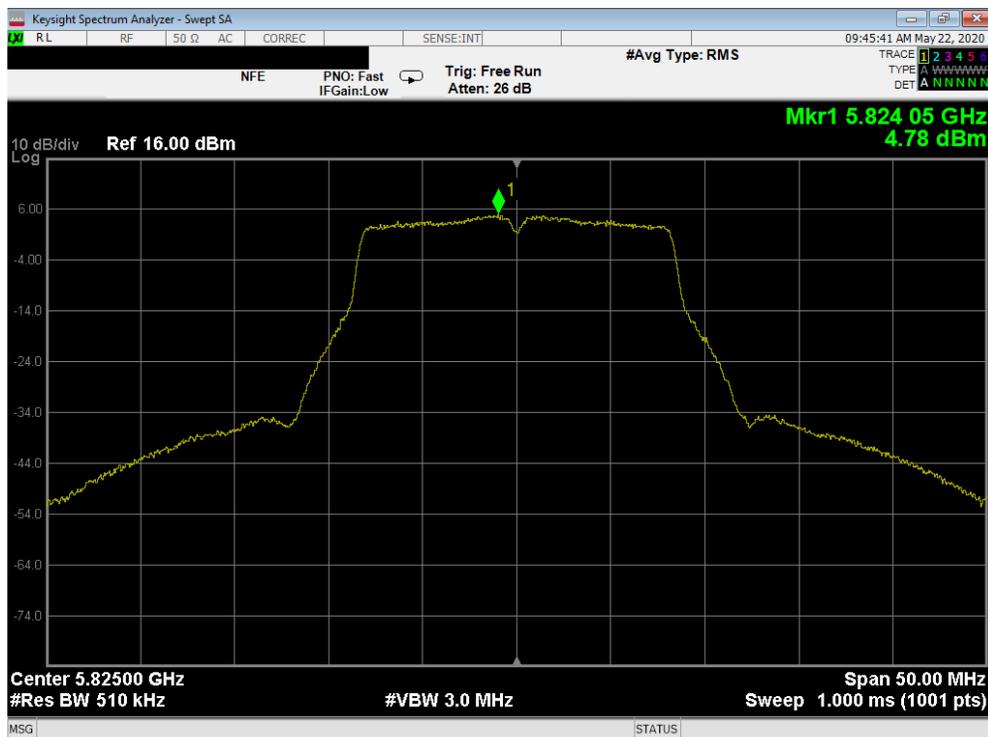


Plot 7-148. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 149)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 103 of 170



Plot 7-149. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 157)

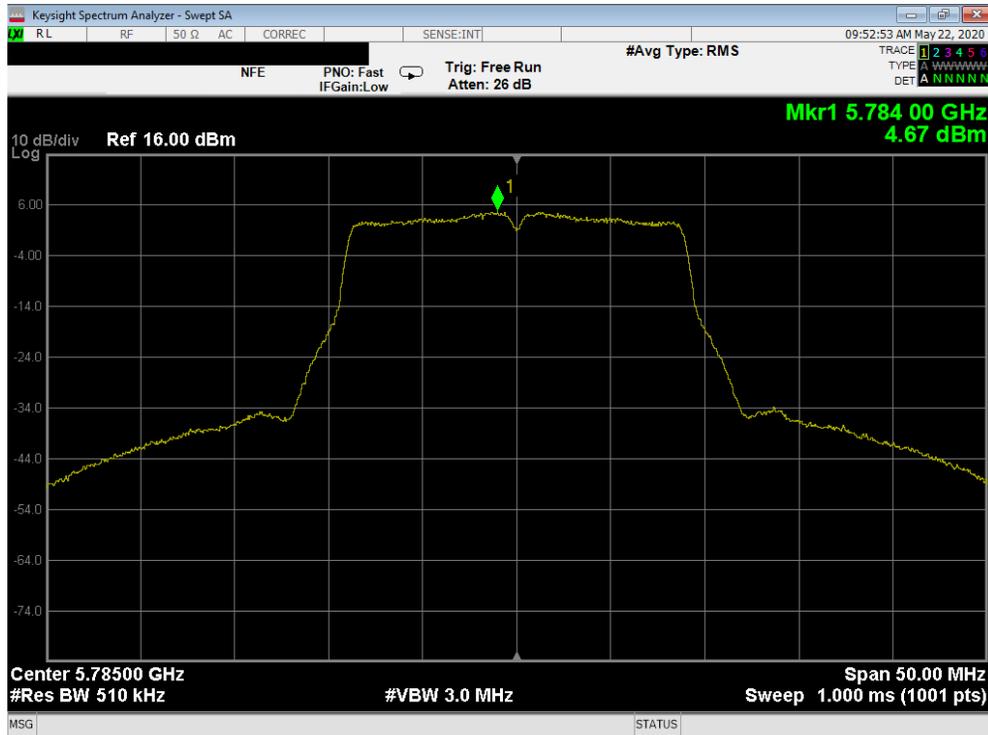


Plot 7-150. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 165)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 104 of 170

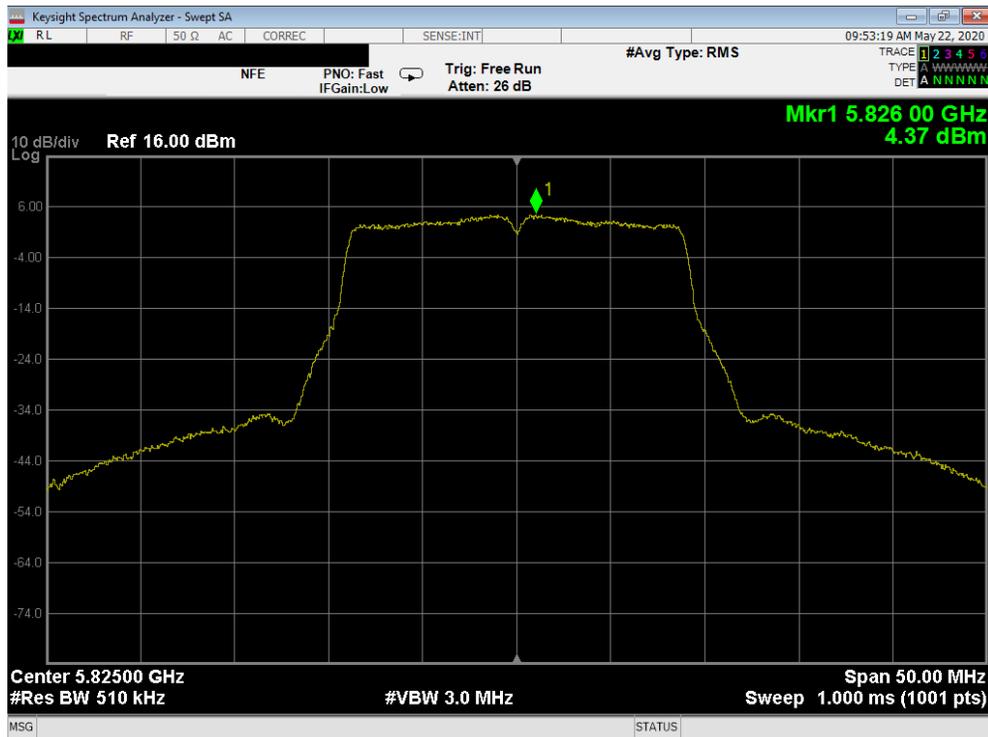


Plot 7-151. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

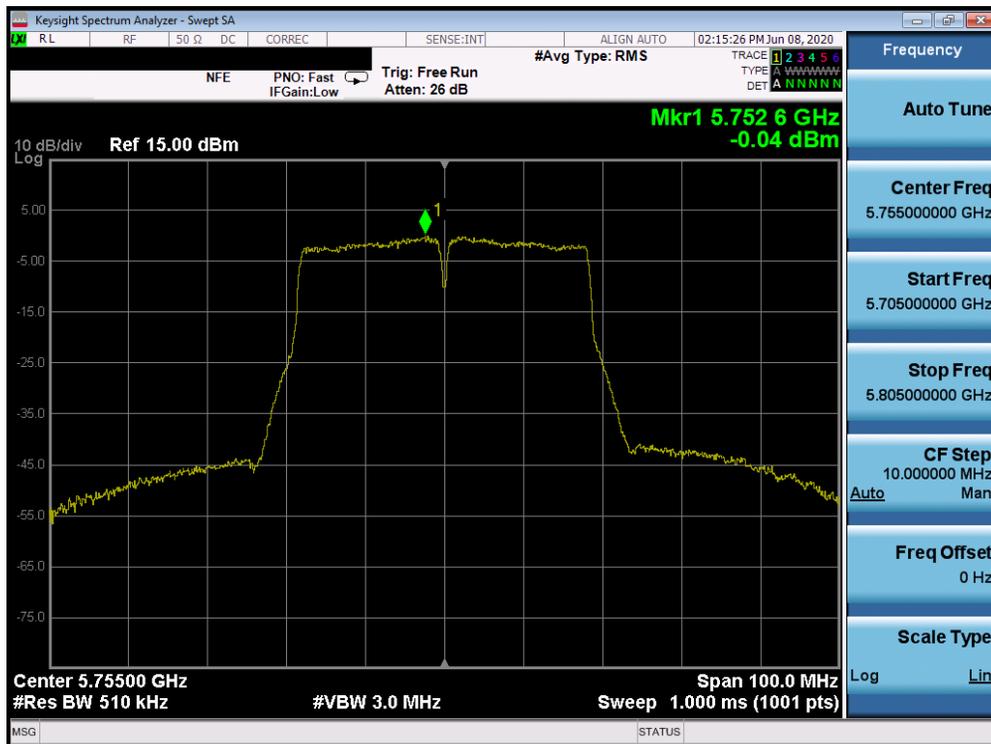


Plot 7-152. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 105 of 170

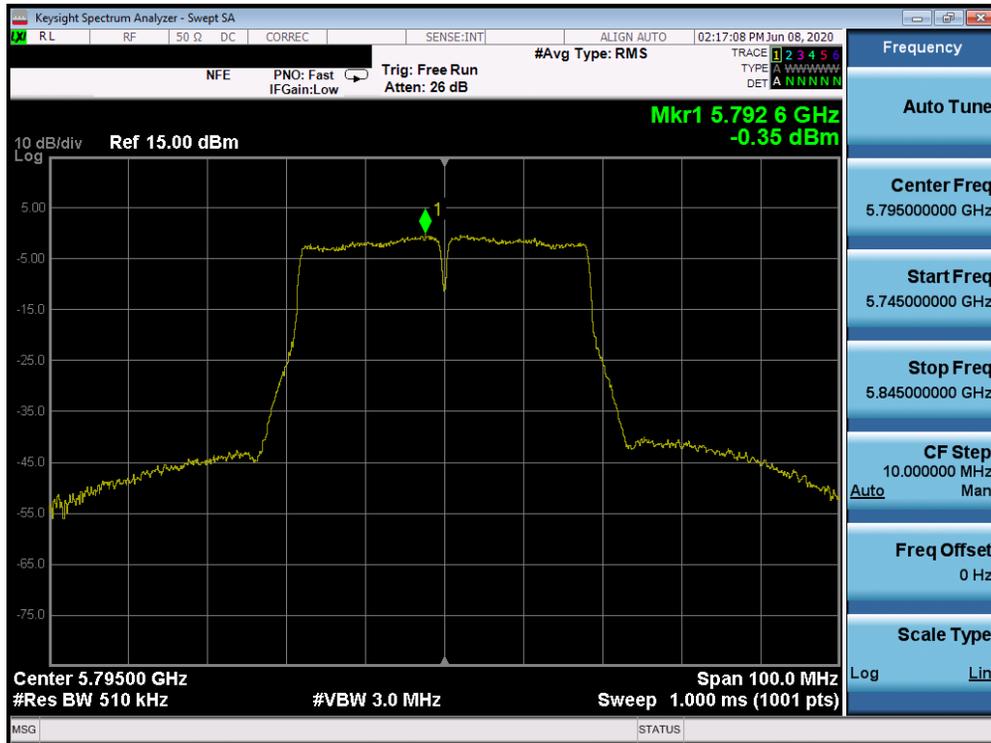


Plot 7-153. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

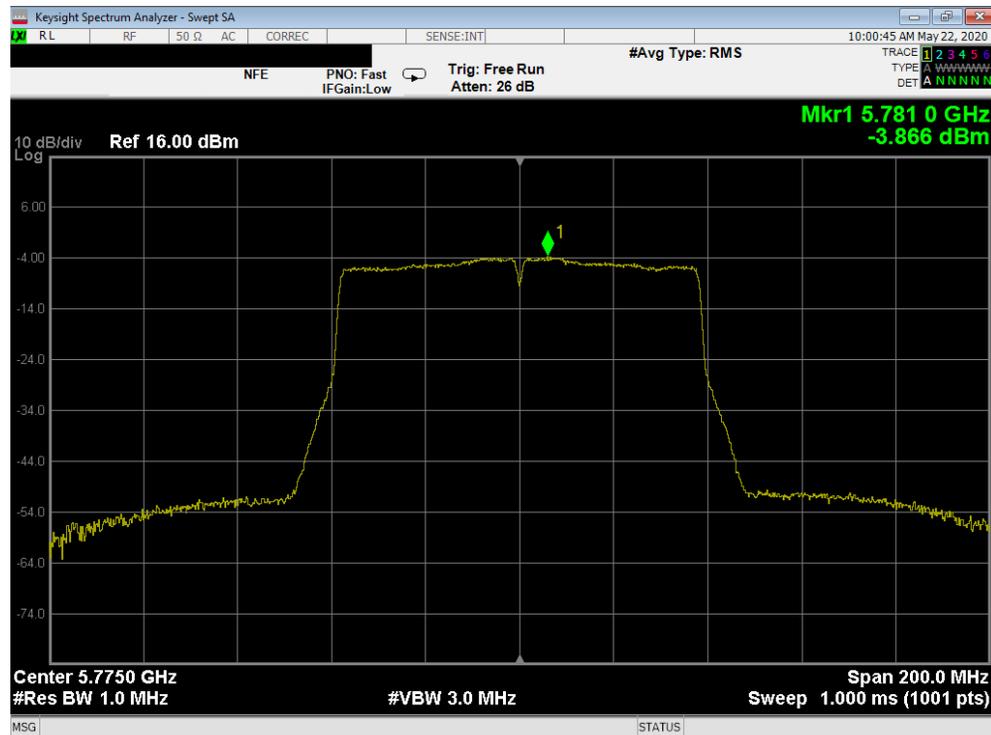


Plot 7-154. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 106 of 170



Plot 7-155. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)



Plot 7-156. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 107 of 170

Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	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	a	6	7.10	5.61	9.43	11.0	-1.57
	5200	40	a	6	6.27	7.89	10.17	11.0	-0.83
	5240	48	a	6	7.41	6.21	9.86	11.0	-1.14
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	7.03	5.27	9.25	11.0	-1.75
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	7.42	7.51	10.48	11.0	-0.52
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.73	5.52	9.18	11.0	-1.82
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.93	3.00	5.51	11.0	-5.49
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.28	2.86	5.59	11.0	-5.41
Band 2A	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-2.03	-3.97	0.12	11.0	-10.88
	5260	52	a	6	7.20	5.89	9.60	11.0	-1.40
	5280	56	a	6	7.57	7.60	10.60	11.0	-0.40
	5320	64	a	6	6.71	5.67	9.23	11.0	-1.77
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.72	5.70	9.25	11.0	-1.75
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	7.48	7.30	10.40	11.0	-0.60
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.54	5.12	8.90	11.0	-2.10
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.22	2.99	5.63	11.0	-5.37
Band 2C	5310	62	n (40MHz)	13.5/15 (MCS0)	2.17	3.19	5.72	11.0	-5.28
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-2.60	-4.47	-0.42	11.0	-11.42
	5500	100	a	6	7.21	5.72	9.54	11.0	-1.46
	5600	120	a	6	6.26	5.46	8.89	11.0	-2.11
	5720	144	a	6	7.05	6.04	9.58	11.0	-1.42
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.86	5.34	9.18	11.0	-1.82
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	6.25	5.18	8.76	11.0	-2.24
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.88	5.66	9.32	11.0	-1.68
	5510	102	n (40MHz)	13.5/15 (MCS0)	1.86	2.94	5.44	11.0	-5.56
	5590	118	n (40MHz)	13.5/15 (MCS0)	0.87	2.27	4.64	11.0	-6.36
5710	142	n (40MHz)	13.5/15 (MCS0)	1.20	2.77	5.06	11.0	-5.94	
5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-2.45	-4.41	-0.31	11.0	-11.31	
5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-2.91	-4.83	-0.75	11.0	-11.75	
5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-5.28	-6.85	-2.98	11.0	-13.98	

Table 7-22. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	4.23	3.27	6.79	30.0	-23.21
	5785	157	a	6	6.04	5.28	8.69	30.0	-21.31
	5825	165	a	6	5.83	4.78	8.35	30.0	-21.65
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	4.11	2.64	6.45	30.0	-23.55
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	5.46	4.67	8.09	30.0	-21.91
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	5.48	4.37	7.97	30.0	-22.03
	5755	151	n (40MHz)	13.5/15 (MCS0)	-1.32	-0.04	2.38	30.0	-27.62
	5795	159	n (40MHz)	13.5/15 (MCS0)	-1.13	-0.35	2.29	30.0	-27.71
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-2.62	-3.87	-0.19	30.0	-30.19

Table 7-23. Band 3 MIMO Conducted Power Spectral Density Measurements

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 7.03 dBm for Antenna-1 and 5.27 dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(7.03 \text{ dBm} + 5.27 \text{ dBm}) = (5.05 \text{ mW} + 3.37 \text{ mW}) = 8.41 \text{ mW} = 9.25 \text{ dBm}$$

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.6 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-24 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-24. Radiated Limits

Test Procedures Used

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

Test Settings

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Peak Measurements below 1GHz

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

Test Setup

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

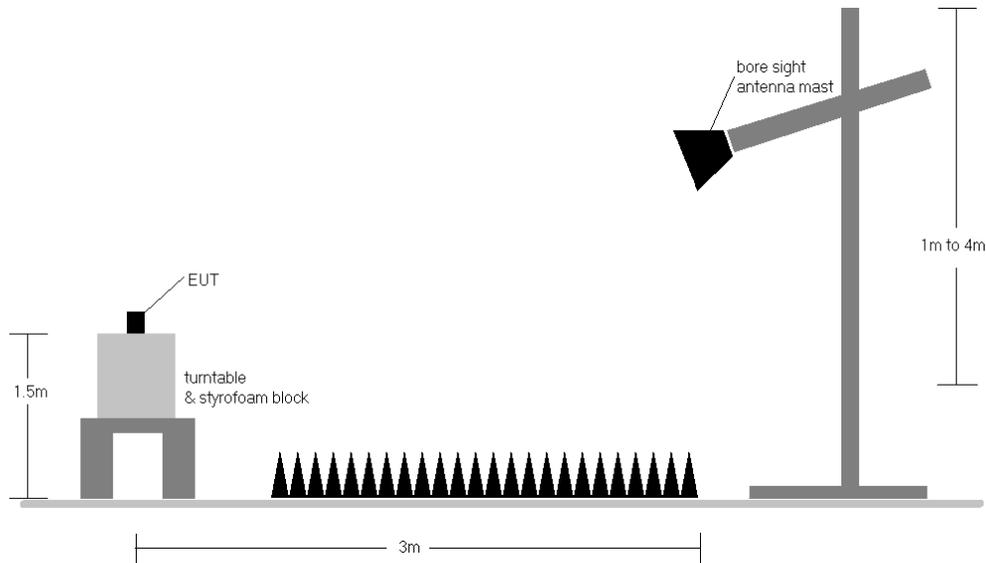


Figure 7-5. Test Instrument & Measurement Setup

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-24.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-24. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

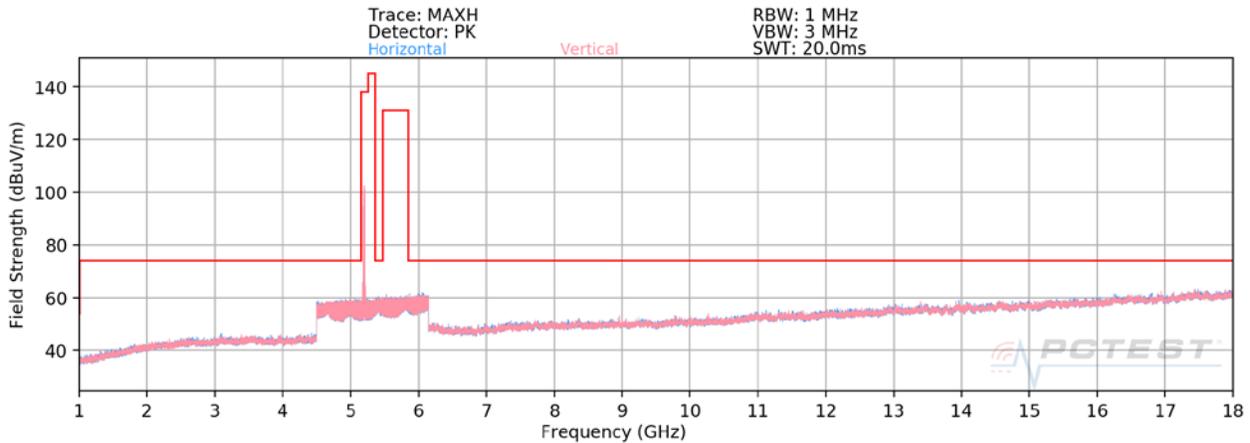
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:

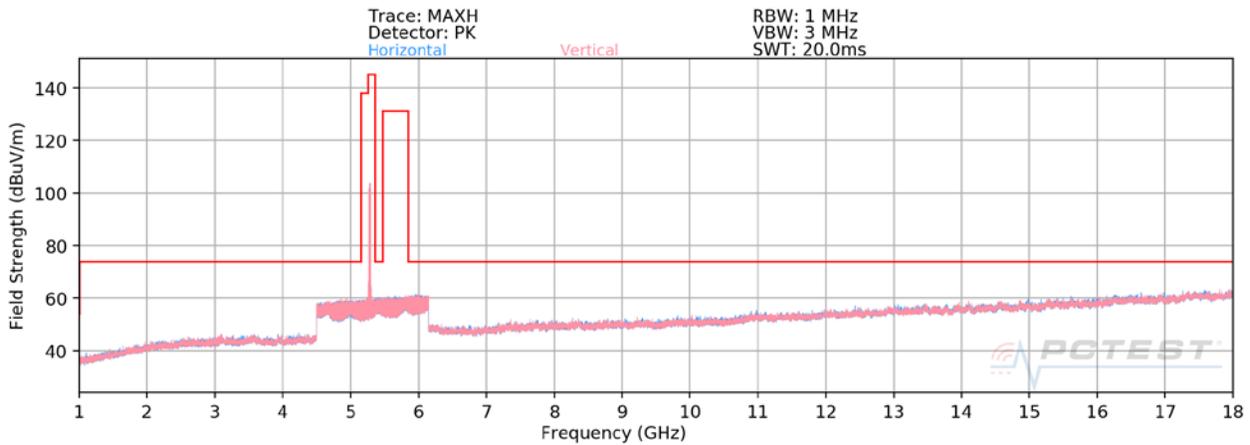
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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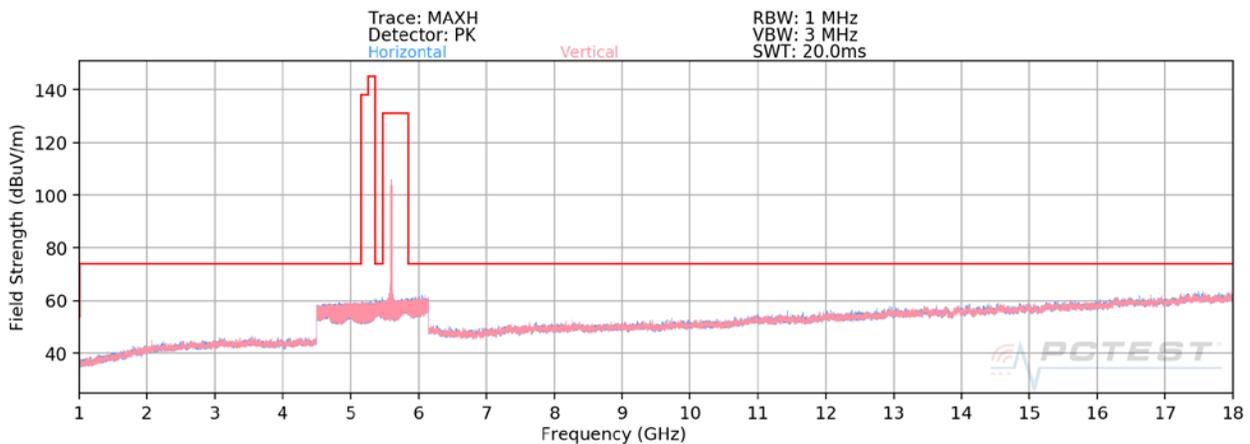
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-157. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 40)

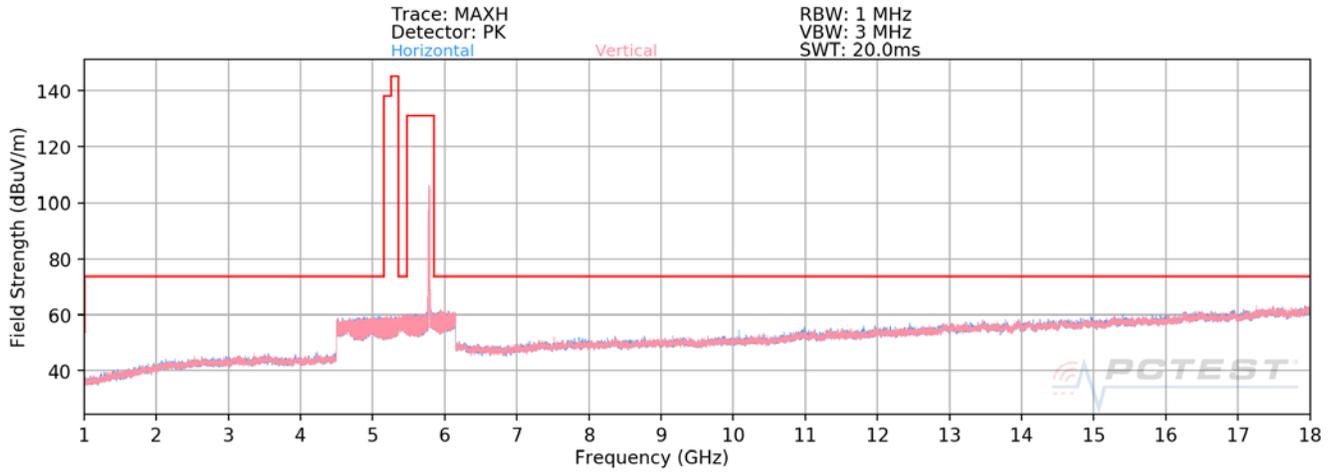


Plot 7-158. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 56)



Plot 7-159. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120)

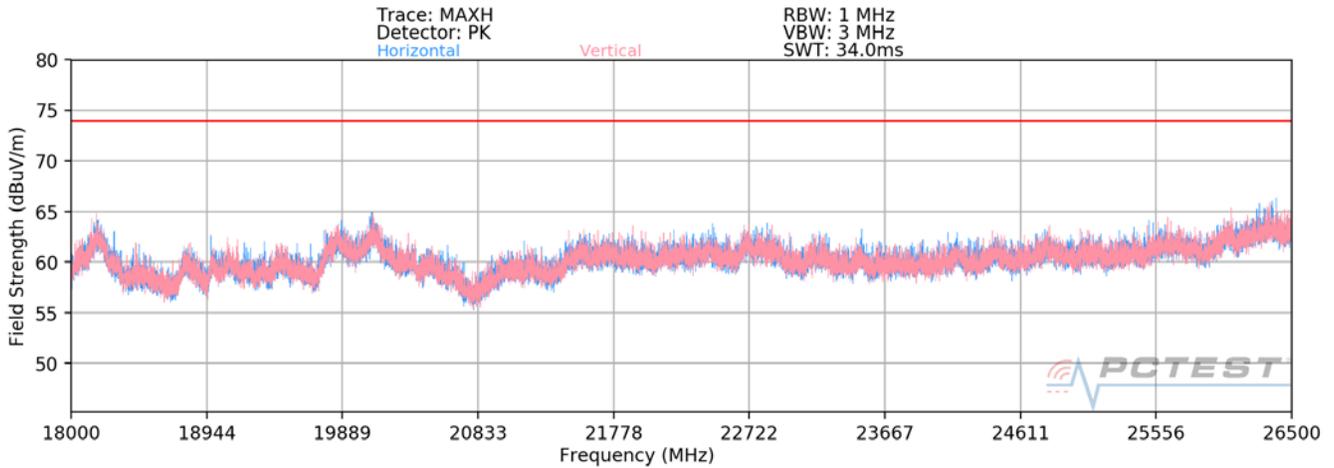
FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 113 of 170



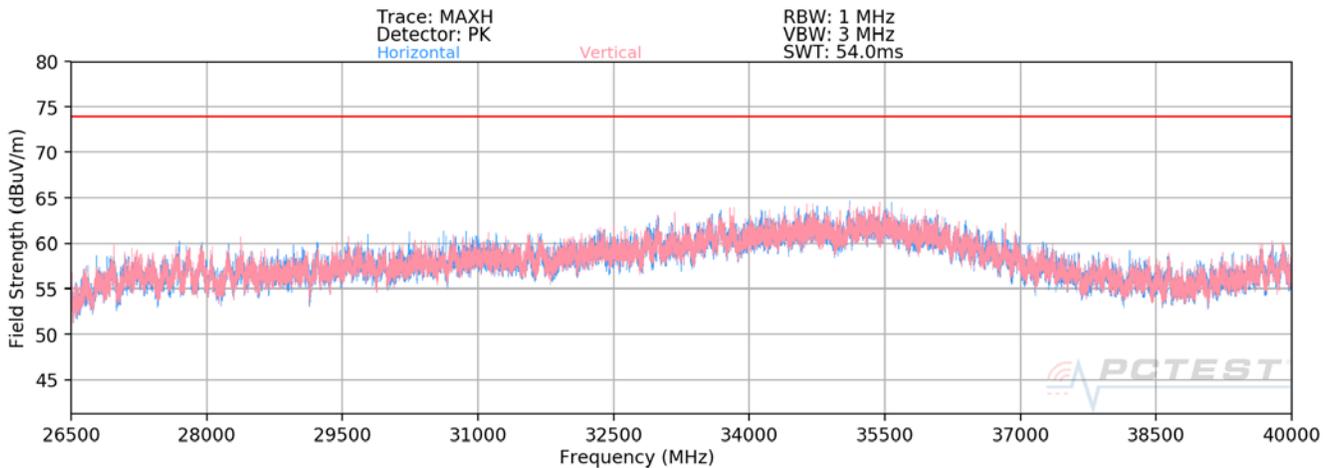
Plot 7-160. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 157)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-161. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a)



Plot 7-162. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 115 of 170

SISO Antenna-1 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	-	-	-71.47	13.05	0.00	48.58	68.20	-19.62
* 15540.00	Average	H	-	-	-82.04	15.13	0.00	40.09	53.98	-13.89
* 15540.00	Peak	H	-	-	-71.77	15.13	0.00	50.36	73.98	-23.62
* 20720.00	Average	H	-	-	-77.98	17.97	-9.54	37.45	53.98	-16.53
* 20720.00	Peak	H	-	-	-65.77	17.97	-9.54	49.66	73.98	-24.32
25900.00	Peak	H	-	-	-65.61	20.19	-9.54	52.04	68.20	-16.16

Table 7-25. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	-	-	-70.76	12.64	0.00	48.88	68.20	-19.32
* 15600.00	Average	H	-	-	-82.12	15.54	0.00	40.42	53.98	-13.56
* 15600.00	Peak	H	-	-	-71.89	15.54	0.00	50.65	73.98	-23.33
* 20800.00	Average	H	-	-	-79.38	18.41	-9.54	36.48	53.98	-17.50
* 20800.00	Peak	H	-	-	-66.51	18.41	-9.54	49.35	73.98	-24.63
26000.00	Peak	H	-	-	-63.50	20.23	-9.54	54.18	68.20	-14.02

Table 7-26. Radiated Measurements SISO ANT1

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 116 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	-	-	-69.78	12.97	0.00	50.19	68.20	-18.01
* 15720.00	Average	H	-	-	-81.79	15.64	0.00	40.85	53.98	-13.13
* 15720.00	Peak	H	-	-	-71.46	15.64	0.00	51.18	73.98	-22.80
* 20960.00	Average	H	-	-	-81.27	18.69	-9.54	34.88	53.98	-19.10
* 20960.00	Peak	H	-	-	-65.68	18.69	-9.54	50.47	73.98	-23.51
26200.00	Peak	H	-	-	-62.60	20.69	-9.54	55.55	68.20	-12.65

Table 7-27. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-70.27	12.68	0.00	49.41	68.20	-18.79
* 15780.00	Average	H	-	-	-82.00	15.83	0.00	40.83	53.98	-13.14
* 15780.00	Peak	H	-	-	-71.44	15.83	0.00	51.39	73.98	-22.58
* 21040.00	Average	H	-	-	-72.30	18.22	-9.54	43.38	53.98	-10.60
* 21040.00	Peak	H	-	-	-64.80	18.22	-9.54	50.88	73.98	-23.10
26300.00	Peak	H	-	-	-63.94	20.72	-9.54	54.24	68.20	-13.96

Table 7-28. Radiated Measurements SISO ANT1

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	-	-	-70.07	13.04	0.00	49.97	68.20	-18.23
* 15840.00	Average	H	-	-	-81.60	16.05	0.00	41.45	53.98	-12.53
* 15840.00	Peak	H	-	-	-71.55	16.05	0.00	51.50	73.98	-22.48
* 21120.00	Average	H	-	-	-80.28	18.40	-9.54	35.58	53.98	-18.40
* 21120.00	Peak	H	-	-	-67.62	18.40	-9.54	48.24	73.98	-25.74
26400.00	Peak	H	-	-	-66.62	20.68	-9.54	51.52	68.20	-16.68

Table 7-29. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-80.90	13.25	0.00	39.35	53.98	-14.63
* 10640.00	Peak	H	-	-	-69.94	13.25	0.00	50.31	73.98	-23.67
* 15960.00	Average	H	-	-	-81.63	15.61	0.00	40.98	53.98	-13.00
* 15960.00	Peak	H	-	-	-70.94	15.61	0.00	51.67	73.98	-22.31
* 21280.00	Average	H	-	-	-80.01	18.32	-9.54	35.77	53.98	-18.21
* 21280.00	Peak	H	-	-	-68.65	18.32	-9.54	47.13	73.98	-26.85
26600.00	Peak	H	-	-	-52.25	3.83	-9.54	49.04	68.20	-19.16

Table 7-30. Radiated Measurements SISO ANT1

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-81.80	13.39	0.00	38.59	53.98	-15.39
* 11000.00	Peak	H	-	-	-71.20	13.39	0.00	49.19	73.98	-24.79
16500.00	Peak	H	-	-	-70.49	15.45	0.00	51.96	68.20	-16.24
22000.00	Peak	V	-	-	-68.17	19.28	-9.54	48.57	68.20	-19.63
27500.00	Peak	V	-	-	-50.80	3.56	-9.54	50.22	68.20	-17.98

Table 7-31. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	Average	H	-	-	-81.54	13.57	0.00	39.03	53.98	-14.95
* 11160.00	Peak	H	-	-	-71.07	13.57	0.00	49.50	73.98	-24.48
16740.00	Peak	H	-	-	-71.54	16.45	0.00	51.91	68.20	-16.29
* 22320.00	Average	V	-	-	-79.77	19.16	-9.54	36.85	53.98	-17.13
* 22320.00	Peak	V	-	-	-68.28	19.16	-9.54	48.34	73.98	-25.64
27900.00	Peak	V	-	-	-51.08	3.81	-9.54	50.19	68.20	-18.01

Table 7-32. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-82.71	14.57	0.00	38.86	53.98	-15.12
* 11440.00	Peak	H	-	-	-72.40	14.57	0.00	49.17	73.98	-24.81
17160.00	Peak	H	-	-	-71.88	17.92	0.00	53.04	68.20	-15.16
* 22880.00	Average	V	-	-	-79.52	19.19	-9.54	37.13	53.98	-16.85
* 22880.00	Peak	V	-	-	-68.23	19.19	-9.54	48.42	73.98	-25.56
28600.00	Peak	V	-	-	-50.00	4.28	-9.54	51.74	68.20	-16.46

Table 7-33. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-81.78	14.29	0.00	39.51	53.98	-14.46
* 11490.00	Peak	H	-	-	-71.16	14.29	0.00	50.13	73.98	-23.84
17235.00	Peak	H	-	-	-71.39	18.54	0.00	54.15	68.20	-14.05
* 22980.00	Average	V	-	-	-79.89	19.49	-9.54	37.06	53.98	-16.92
* 22980.00	Peak	V	-	-	-68.49	19.49	-9.54	48.46	73.98	-25.52
28725.00	Peak	V	-	-	-51.00	3.69	-9.54	50.15	68.20	-18.05

Table 7-34. Radiated Measurements SISO ANT1

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	V	-	-	-81.36	14.11	0.00	39.75	53.98	-14.23
* 11570.00	Peak	V	-	-	-70.95	14.11	0.00	50.16	73.98	-23.82
17355.00	Peak	V	-	-	-71.55	19.82	0.00	55.27	68.20	-12.93
23140.00	Peak	V	-	-	-68.35	19.52	-9.54	48.63	68.20	-19.57
28925.00	Peak	V	-	-	-52.58	4.40	-9.54	49.28	68.20	-18.92

Table 7-35. Radiated Measurements SISO ANT1

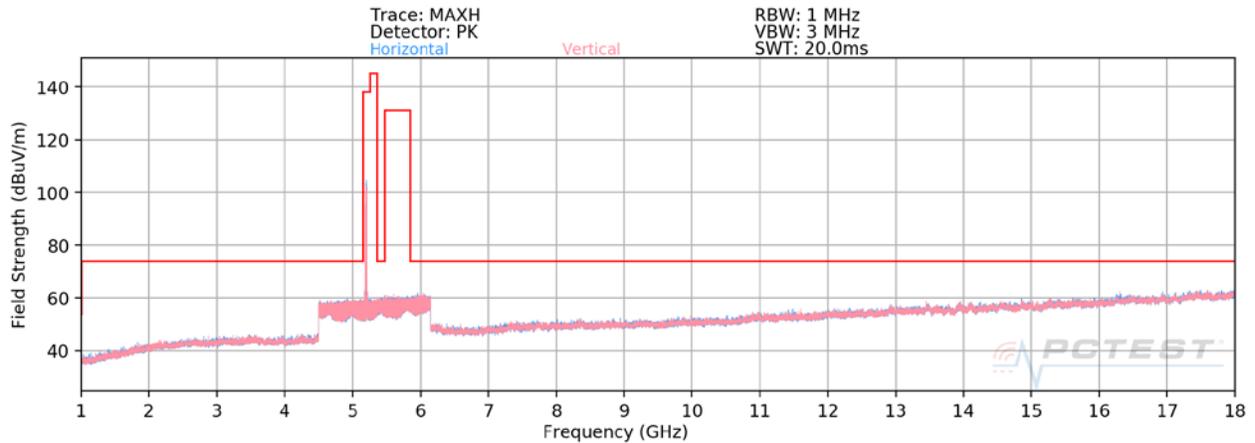
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	V	-	-	-81.50	14.20	0.00	39.70	53.98	-14.28
* 11650.00	Peak	V	-	-	-70.23	14.20	0.00	50.97	73.98	-23.01
17475.00	Peak	V	-	-	-71.41	21.13	0.00	56.72	68.20	-11.48
23300.00	Peak	V	-	-	-67.27	18.97	-9.54	49.16	68.20	-19.04
29125.00	Peak	V	-	-	-49.80	2.90	-9.54	50.56	68.20	-17.64

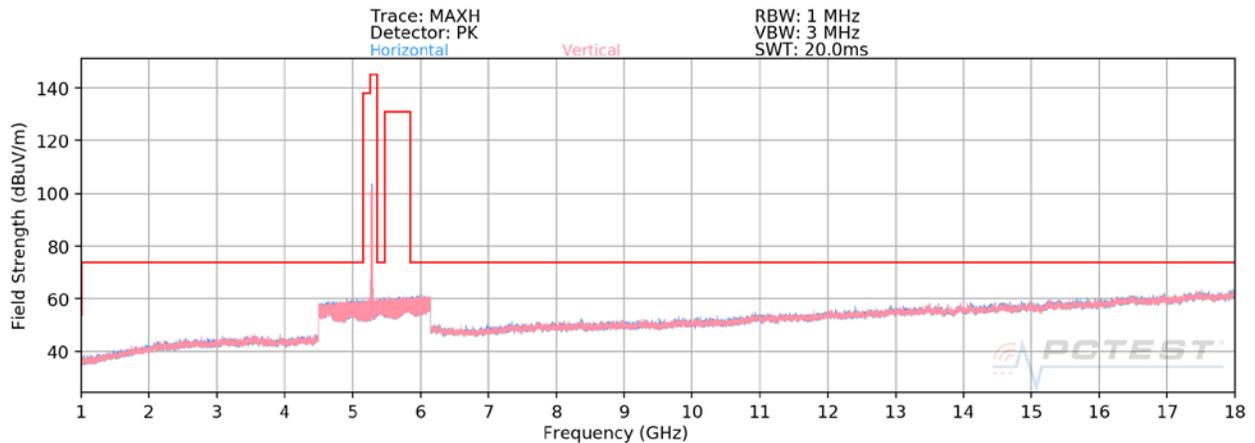
Table 7-36. Radiated Measurements SISO ANT1

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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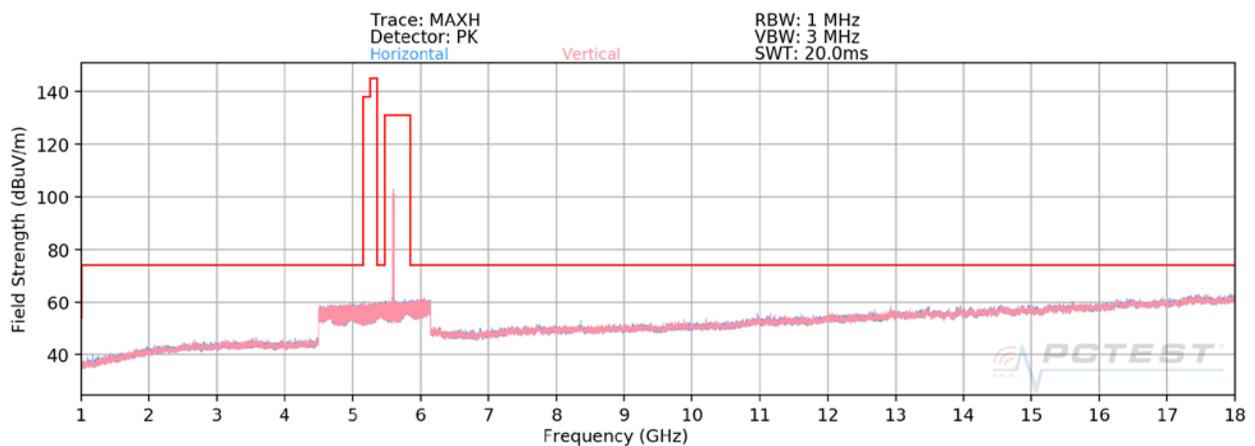
7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements



Plot 7-163. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U1 Ch. 40)

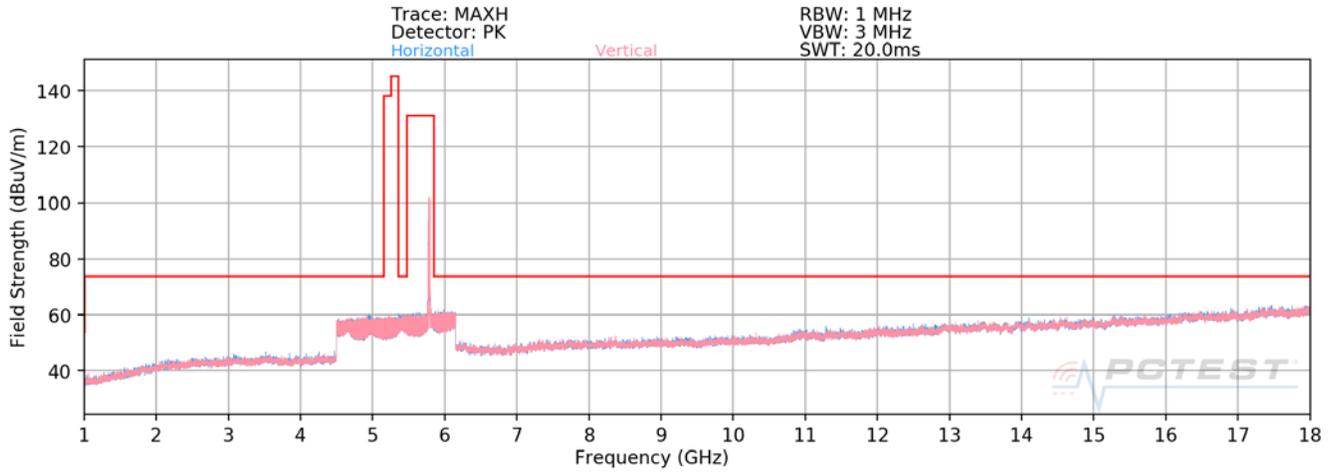


Plot 7-164. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2A Ch. 56)



Plot 7-165. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2C Ch. 120)

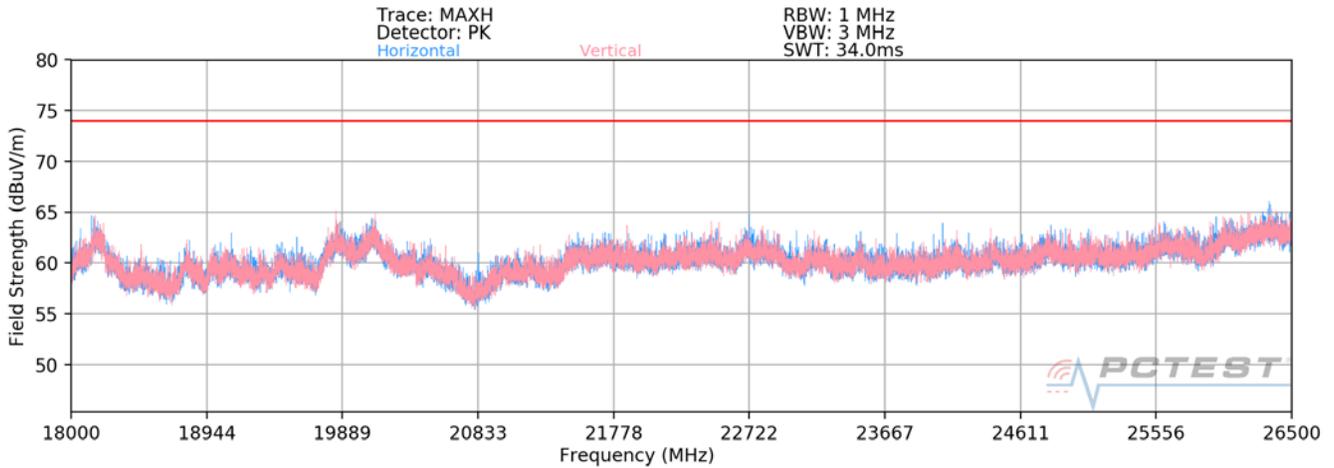
FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 122 of 170



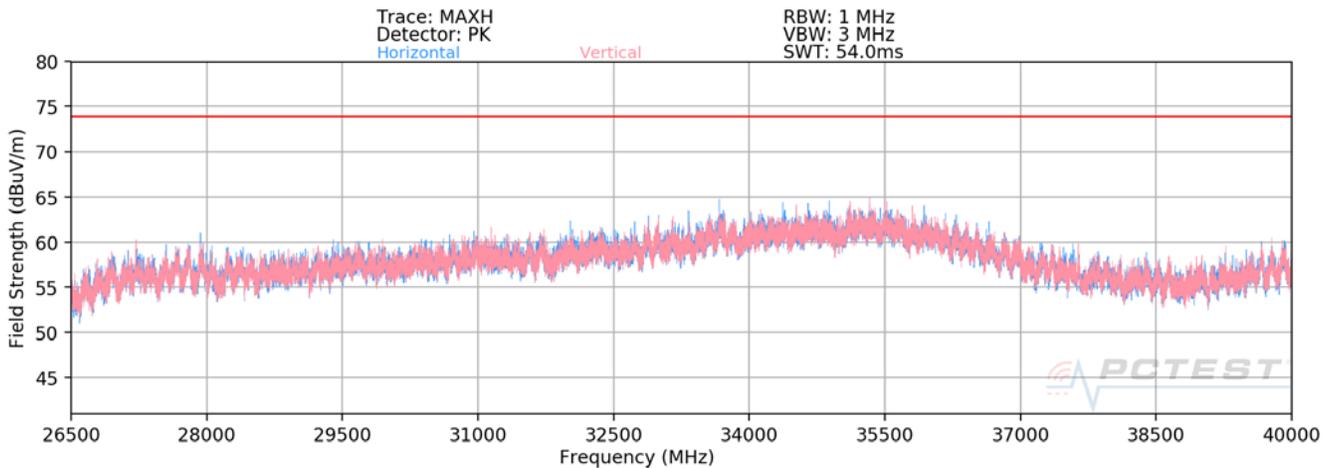
Plot 7-166. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U3 Ch. 157)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 123 of 170

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-167. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)



Plot 7-168. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 124 of 170

SISO Antenna-2 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	-	-	-71.51	13.05	0.00	48.54	68.20	-19.66
* 15540.00	Average	H	-	-	-82.28	15.13	0.00	39.85	53.98	-14.13
* 15540.00	Peak	H	-	-	-71.75	15.13	0.00	50.38	73.98	-23.60
* 20720.00	Average	H	-	-	-76.41	17.69	-9.54	38.73	53.98	-15.24
* 20720.00	Peak	H	-	-	-65.05	17.69	-9.54	50.09	73.98	-23.88
25900.00	Peak	H	-	-	-65.38	19.85	-9.54	51.93	68.20	-16.27

Table 7-37. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	-	-	-70.63	12.64	0.00	49.01	68.20	-19.19
* 15600.00	Average	H	-	-	-82.77	15.54	0.00	39.77	53.98	-14.21
* 15600.00	Peak	H	-	-	-72.13	15.54	0.00	50.41	73.98	-23.57
* 20800.00	Average	H	-	-	-74.13	17.72	-9.54	41.05	53.98	-12.93
* 20800.00	Peak	H	-	-	-66.78	17.72	-9.54	48.40	73.98	-25.58
26000.00	Peak	H	-	-	-63.60	20.06	-9.54	53.92	68.20	-14.28

Table 7-38. Radiated Measurements SISO ANT2

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 125 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	-	-	-70.78	12.97	0.00	49.19	68.20	-19.01
* 15720.00	Average	H	-	-	-81.92	15.64	0.00	40.72	53.98	-13.26
* 15720.00	Peak	H	-	-	-70.74	15.64	0.00	51.90	73.98	-22.08
* 20960.00	Average	H	-	-	-80.39	18.16	-9.54	35.23	53.98	-18.75
* 20960.00	Peak	H	-	-	-64.94	18.16	-9.54	50.68	73.98	-23.30
26200.00	Peak	H	-	-	-62.86	20.48	-9.54	55.08	68.20	-13.12

Table 7-39. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-70.41	12.68	0.00	49.27	68.20	-18.93
* 15780.00	Average	H	-	-	-82.19	15.83	0.00	40.64	53.98	-13.33
* 15780.00	Peak	H	-	-	-72.13	15.83	0.00	50.70	73.98	-23.27
* 21040.00	Average	H	-	-	-76.07	18.22	-9.54	39.61	53.98	-14.37
* 21040.00	Peak	H	-	-	-64.75	18.22	-9.54	50.93	73.98	-23.05
26300.00	Peak	H	-	-	-63.30	20.72	-9.54	54.88	68.20	-13.32

Table 7-40. Radiated Measurements SISO ANT2

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 126 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	H	-	-	-70.58	13.04	0.00	49.46	68.20	-18.74
* 15840.00	Average	H	-	-	-81.62	16.05	0.00	41.43	53.98	-12.55
* 15840.00	Peak	H	-	-	-71.04	16.05	0.00	52.01	73.98	-21.97
* 21120.00	Average	H	-	-	-72.66	18.40	-9.54	43.20	53.98	-10.78
* 21120.00	Peak	H	-	-	-64.35	18.40	-9.54	51.51	73.98	-22.47
26400.00	Peak	H	-	-	-63.06	20.68	-9.54	55.08	68.20	-13.12

Table 7-41. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-81.18	13.25	0.00	39.07	53.98	-14.91
* 10640.00	Peak	H	-	-	-70.59	13.25	0.00	49.66	73.98	-24.32
* 15960.00	Average	H	-	-	-81.79	15.61	0.00	40.82	53.98	-13.16
* 15960.00	Peak	H	-	-	-72.04	15.61	0.00	50.57	73.98	-23.41
* 21280.00	Average	H	-	-	-77.32	18.32	-9.54	38.46	53.98	-15.52
* 21280.00	Peak	H	-	-	-64.88	18.32	-9.54	50.90	73.98	-23.08
26600.00	Peak	H	-	-	-54.38	3.83	-9.54	46.91	68.20	-21.29

Table 7-42. Radiated Measurements SISO ANT2

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 127 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-81.41	13.39	0.00	38.98	53.98	-15.00
* 11000.00	Peak	H	-	-	-71.14	13.39	0.00	49.25	73.98	-24.73
16500.00	Peak	H	-	-	-71.07	15.45	0.00	51.38	68.20	-16.82
22000.00	Peak	H	-	-	-63.65	19.28	-9.54	53.09	68.20	-15.11
27500.00	Peak	H	-	-	-52.68	3.56	-9.54	48.34	68.20	-19.86

Table 7-43. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	Average	H	-	-	-81.51	13.57	0.00	39.06	53.98	-14.92
* 11160.00	Peak	H	-	-	-71.03	13.57	0.00	49.54	73.98	-24.44
16740.00	Peak	H	-	-	-71.95	16.45	0.00	51.50	68.20	-16.70
* 22320.00	Average	H	-	-	-74.98	19.16	-9.54	41.64	53.98	-12.34
* 22320.00	Peak	H	-	-	-63.82	19.16	-9.54	52.80	73.98	-21.18
27900.00	Peak	H	-	-	-53.15	3.81	-9.54	48.12	68.20	-20.08

Table 7-44. Radiated Measurements SISO ANT2

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 128 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-82.01	14.57	0.00	39.56	53.98	-14.42
* 11440.00	Peak	H	-	-	-71.62	14.57	0.00	49.95	73.98	-24.03
17160.00	Peak	H	-	-	-71.75	17.92	0.00	53.17	68.20	-15.03
* 22880.00	Average	H	-	-	-74.66	19.19	-9.54	41.99	53.98	-11.99
* 22880.00	Peak	H	-	-	-63.97	19.19	-9.54	52.68	73.98	-21.30
28600.00	Peak	H	-	-	-53.15	4.28	-9.54	48.59	68.20	-19.61

Table 7-45. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-81.85	14.29	0.00	39.44	53.98	-14.53
* 11490.00	Peak	H	-	-	-71.21	14.29	0.00	50.08	73.98	-23.89
17235.00	Peak	H	-	-	-71.53	18.54	0.00	54.01	68.20	-14.19
* 22980.00	Average	H	-	-	-80.73	19.49	-9.54	36.22	53.98	-17.76
* 22980.00	Peak	H	-	-	-64.56	19.49	-9.54	52.39	73.98	-21.59
28725.00	Peak	H	-	-	-51.82	3.69	-9.54	49.33	68.20	-18.87

Table 7-46. Radiated Measurements SISO ANT2

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-81.43	14.11	0.00	39.68	53.98	-14.30
* 11570.00	Peak	H	-	-	-71.55	14.11	0.00	49.56	73.98	-24.42
17355.00	Peak	H	-	-	-70.85	19.82	0.00	55.97	68.20	-12.23
23140.00	Peak	H	-	-	-64.69	19.52	-9.54	52.29	68.20	-15.91
28925.00	Peak	H	-	-	-52.80	4.40	-9.54	49.06	68.20	-19.14

Table 7-47. Radiated Measurements SISO ANT2

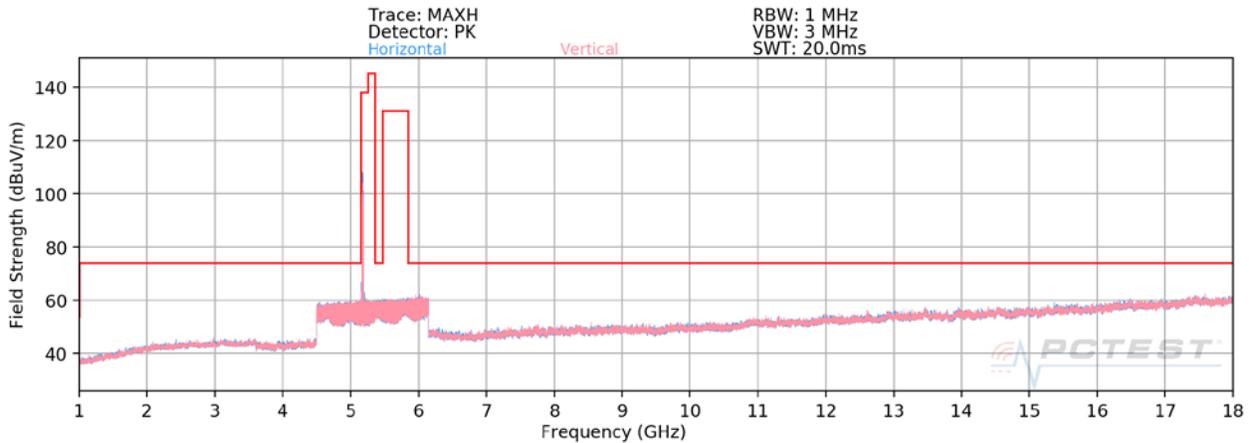
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-81.31	14.20	0.00	39.89	53.98	-14.09
* 11650.00	Peak	H	-	-	-70.95	14.20	0.00	50.25	73.98	-23.73
17475.00	Peak	H	-	-	-71.09	21.13	0.00	57.04	68.20	-11.16
23300.00	Peak	H	-	-	-64.92	18.97	-9.54	51.51	68.20	-16.69
29125.00	Peak	H	-	-	-52.12	2.90	-9.54	48.24	68.20	-19.96

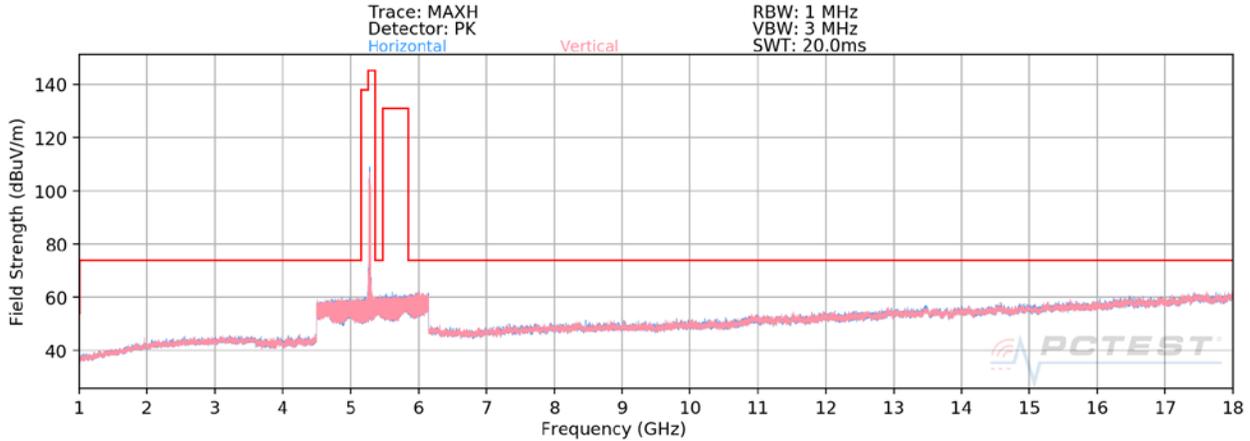
Table 7-48. Radiated Measurements SISO ANT2

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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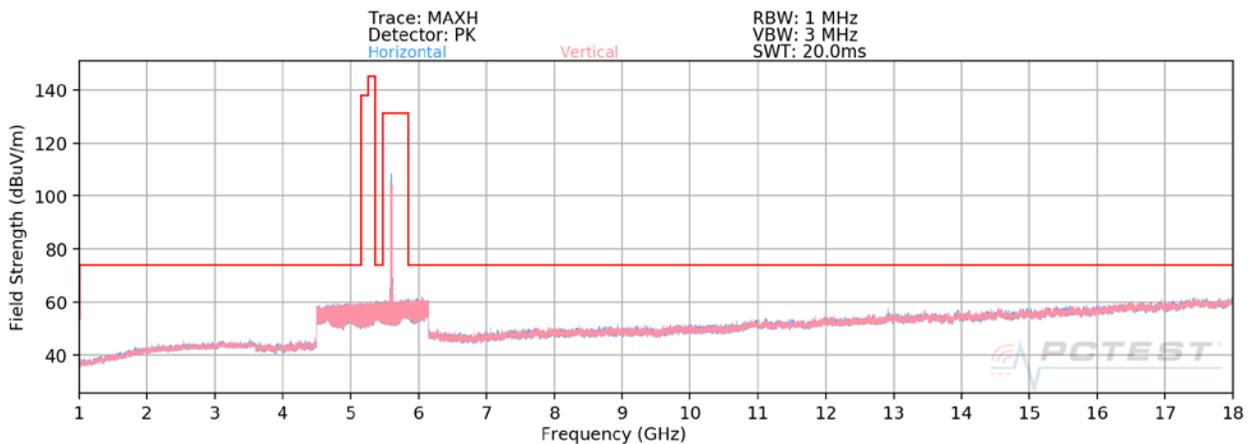
7.6.3 MIMO Radiated Spurious Emission Measurements



Plot 7-169. Radiated Spurious Plot above 1GHz MIMO (802.11a – U1 Ch. 40)

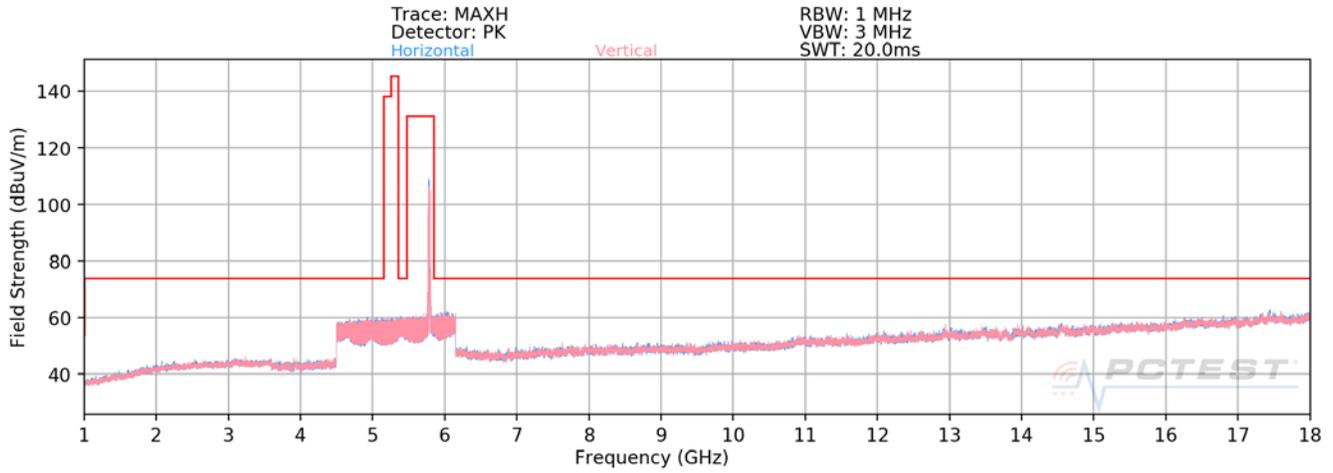


Plot 7-170. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2A Ch. 56)



Plot 7-171. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 120)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 131 of 170



Plot 7-172. Radiated Spurious Plot above 1GHz MIMO (802.11a – U3 Ch. 157)

FCC ID: ZNFG900VM	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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MIMO Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	Peak	H	-	-	-71.34	13.05	0.00	48.71	68.20	-19.49
* 15540.00	Average	H	-	-	-82.16	15.13	0.00	39.97	53.98	-14.01
* 15540.00	Peak	H	-	-	-71.59	15.13	0.00	50.54	73.98	-23.44
* 20720.00	Average	H	-	-	-80.23	17.69	-9.54	34.91	53.98	-19.06
* 20720.00	Peak	H	-	-	-68.29	17.69	-9.54	46.85	73.98	-27.12
25900.00	Peak	H	-	-	-67.73	19.85	-9.54	49.58	68.20	-18.62

Table 7-49. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	Peak	H	-	-	-70.54	12.64	0.00	49.10	68.20	-19.10
* 15600.00	Average	H	-	-	-82.21	15.54	0.00	40.33	53.98	-13.65
* 15600.00	Peak	H	-	-	-71.83	15.54	0.00	50.71	73.98	-23.27
* 20800.00	Average	H	-	-	-80.30	17.72	-9.54	34.88	53.98	-19.10
* 20800.00	Peak	H	-	-	-68.94	17.72	-9.54	46.24	73.98	-27.74
26000.00	Peak	H	-	-	-66.86	20.06	-9.54	50.66	68.20	-17.54

Table 7-50. Radiated Measurements MIMO

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	-	-	-71.08	12.97	0.00	48.89	68.20	-19.31
* 15720.00	Average	H	-	-	-82.05	15.64	0.00	40.59	53.98	-13.39
* 15720.00	Peak	H	-	-	-70.64	15.64	0.00	52.00	73.98	-21.98
* 20960.00	Average	H	-	-	-80.04	18.16	-9.54	35.58	53.98	-18.40
* 20960.00	Peak	H	-	-	-68.14	18.16	-9.54	47.48	73.98	-26.50
26200.00	Peak	H	-	-	-67.47	20.48	-9.54	50.47	68.20	-17.73

Table 7-51. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-70.88	12.68	0.00	48.80	68.20	-19.40
* 15780.00	Average	H	-	-	-82.21	15.83	0.00	40.62	53.98	-13.35
* 15780.00	Peak	H	-	-	-72.03	15.83	0.00	50.80	73.98	-23.17
* 21040.00	Average	V	-	-	-80.02	18.22	-9.54	35.66	53.98	-18.32
* 21040.00	Peak	V	-	-	-67.98	18.22	-9.54	47.70	73.98	-26.28
26300.00	Peak	V	-	-	-67.09	20.72	-9.54	51.09	68.20	-17.11

Table 7-52. Radiated Measurements MIMO

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 134 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	H	-	-	-70.56	13.04	0.00	49.48	68.20	-18.72
* 15840.00	Average	H	-	-	-81.74	16.05	0.00	41.31	53.98	-12.67
* 15840.00	Peak	H	-	-	-71.48	16.05	0.00	51.57	73.98	-22.41
* 21120.00	Average	V	-	-	-80.18	18.40	-9.54	35.68	53.98	-18.30
* 21120.00	Peak	V	-	-	-68.72	18.40	-9.54	47.14	73.98	-26.84
26400.00	Peak	V	-	-	-66.75	20.68	-9.54	51.39	68.20	-16.81

Table 7-53. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-81.00	13.25	0.00	39.25	53.98	-14.73
* 10640.00	Peak	H	-	-	-70.50	13.25	0.00	49.75	73.98	-24.23
* 15960.00	Average	H	-	-	-81.54	15.61	0.00	41.07	53.98	-12.91
* 15960.00	Peak	H	-	-	-71.75	15.61	0.00	50.86	73.98	-23.12
* 21280.00	Average	V	-	-	-79.95	18.32	-9.54	35.83	53.98	-18.15
* 21280.00	Peak	V	-	-	-68.40	18.32	-9.54	47.38	73.98	-26.60
26600.00	Peak	V	-	-	-51.95	3.83	-9.54	49.34	68.20	-18.86

Table 7-54. Radiated Measurements MIMO

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 135 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-81.09	13.39	0.00	39.30	53.98	-14.68
* 11000.00	Peak	H	-	-	-70.77	13.39	0.00	49.62	73.98	-24.36
16500.00	Peak	H	-	-	-71.29	15.45	0.00	51.16	68.20	-17.04
22000.00	Peak	V	-	-	-68.42	19.28	-9.54	48.32	68.20	-19.88
27500.00	Peak	V	-	-	-51.03	3.56	-9.54	49.99	68.20	-18.21

Table 7-55. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	Average	H	-	-	-81.53	13.57	0.00	39.04	53.98	-14.94
* 11160.00	Peak	H	-	-	-71.26	13.57	0.00	49.31	73.98	-24.67
16740.00	Peak	H	-	-	-72.19	16.45	0.00	51.26	68.20	-16.94
* 22320.00	Average	V	-	-	-79.62	19.16	-9.54	37.00	53.98	-16.98
* 22320.00	Peak	V	-	-	-68.02	19.16	-9.54	48.60	73.98	-25.38
27900.00	Peak	V	-	-	-51.12	3.81	-9.54	50.15	68.20	-18.05

Table 7-56. Radiated Measurements MIMO

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 136 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-82.07	14.57	0.00	39.50	53.98	-14.48
* 11440.00	Peak	H	-	-	-70.33	14.57	0.00	51.24	73.98	-22.74
17160.00	Peak	H	-	-	-72.01	17.92	0.00	52.91	68.20	-15.29
* 22880.00	Average	V	-	-	-79.61	19.19	-9.54	37.04	53.98	-16.94
* 22880.00	Peak	V	-	-	-68.20	19.19	-9.54	48.45	73.98	-25.53
28600.00	Peak	V	-	-	-50.85	4.28	-9.54	50.89	68.20	-17.31

Table 7-57. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-81.89	14.29	0.00	39.40	53.98	-14.57
* 11490.00	Peak	H	-	-	-71.64	14.29	0.00	49.65	73.98	-24.32
17235.00	Peak	H	-	-	-71.08	18.54	0.00	54.46	68.20	-13.74
* 22980.00	Average	V	-	-	-79.83	19.49	-9.54	37.12	53.98	-16.86
* 22980.00	Peak	V	-	-	-68.71	19.49	-9.54	48.24	73.98	-25.74
28725.00	Peak	V	-	-	-51.17	3.69	-9.54	49.98	69.20	-19.22

Table 7-58. Radiated Measurements MIMO

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 137 of 170	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	V	-	-	-81.20	14.11	0.00	39.91	53.98	-14.07
* 11570.00	Peak	V	-	-	-70.76	14.11	0.00	50.35	73.98	-23.63
17355.00	Peak	V	-	-	-71.12	19.82	0.00	55.70	68.20	-12.50
23140.00	Peak	V	-	-	-67.76	19.52	-9.54	49.22	68.20	-18.98
28925.00	Peak	V	-	-	-54.47	4.40	-9.54	47.39	68.20	-20.81

Table 7-59. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	V	-	-	-81.34	14.20	0.00	39.86	53.98	-14.12
* 11650.00	Peak	V	-	-	-70.67	14.20	0.00	50.53	73.98	-23.45
17475.00	Peak	V	-	-	-70.62	21.13	0.00	57.51	68.20	-10.69
23300.00	Peak	V	-	-	-68.52	18.97	-9.54	47.91	68.20	-20.29
29125.00	Peak	V	-	-	-49.62	2.90	-9.54	50.74	68.20	-17.46

Table 7-60. Radiated Measurements MIMO

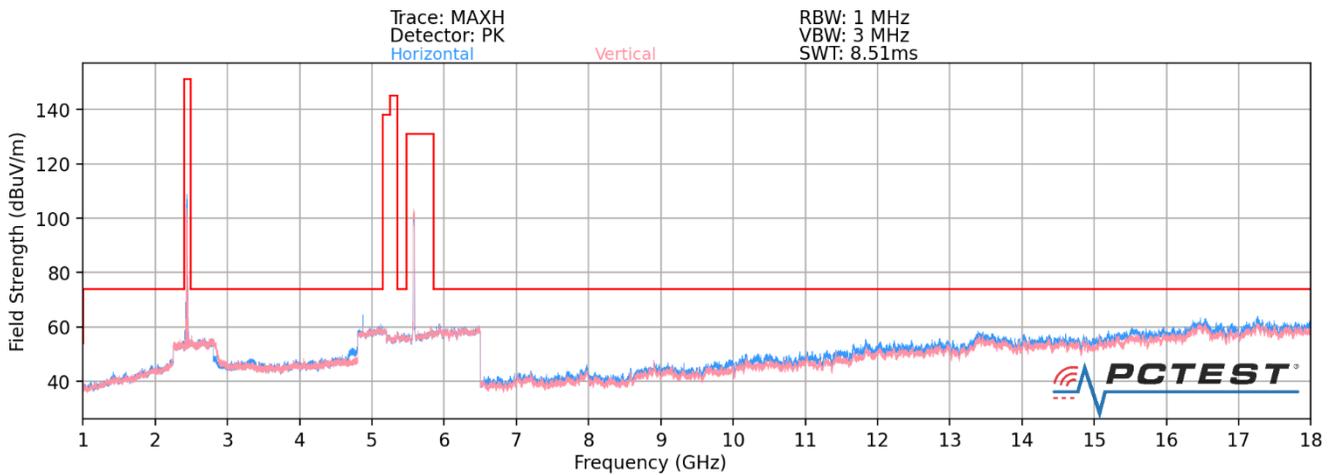
FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 138 of 170	

7.6.4 Simultaneous Tx Radiated Spurious Emissions Measurements

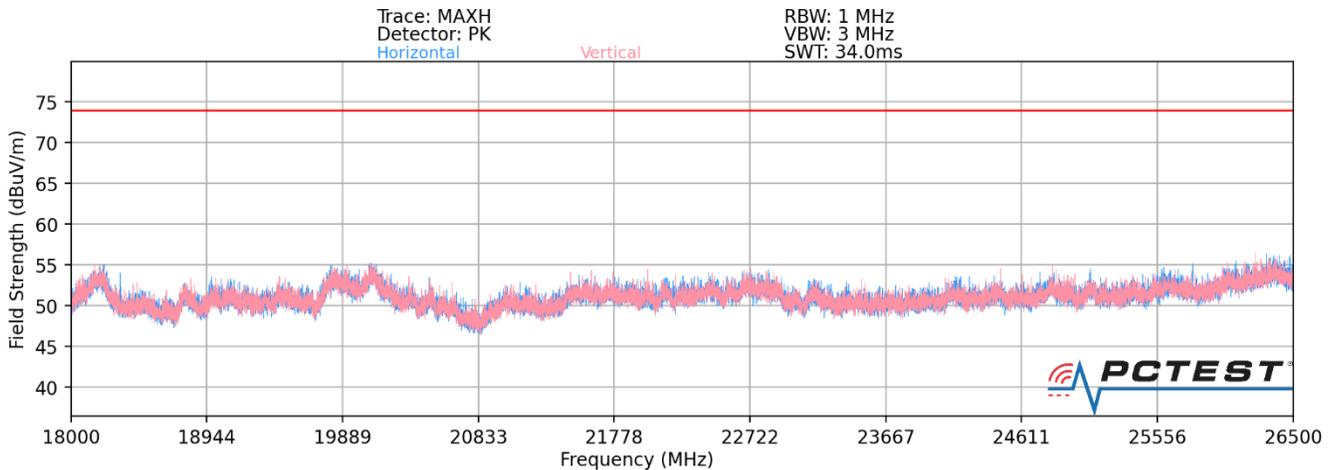
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	1	149
Operating Frequency (MHz)	2412	5745
Data Rate (Mbps)	1Mbps	6Mbps
Mode	b	a

Table 7-61. Simultaneous Transmission Config-1

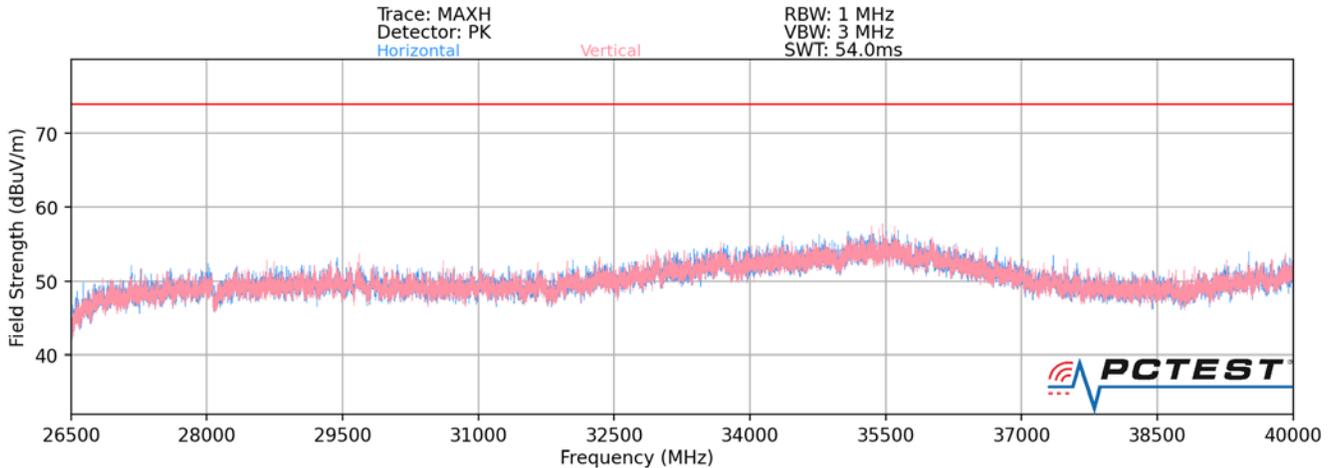


Plot 7-173. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)



Plot 7-174. Radiated Spurious Plot above 18GHz (2.4GHz – 5GHz)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 139 of 170



Plot 7-175. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)

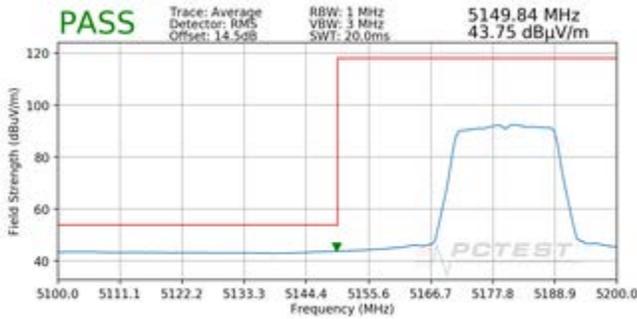
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
921.00	Peak	V	-	-	-97.18	25.89	35.71	46.02	-10.31
* 4254.00	Average	V	-	-	-79.40	2.67	30.27	53.98	-23.71
* 4254.00	Peak	V	-	-	-66.34	2.67	43.33	73.98	-30.65
7587.00	Peak	V	-	-	-68.28	8.78	47.50	68.20	-20.70
* 9078.00	Average	V	-	-	-81.15	12.33	38.18	53.98	-15.80
* 9078.00	Peak	V	-	-	-69.15	12.33	50.18	73.98	-23.80
* 12411.00	Average	V	-	-	-82.63	13.66	38.03	53.98	-15.95
* 12411.00	Peak	V	-	-	-70.39	13.66	50.27	73.98	-23.71
* 15744.00	Average	V	-	-	-83.15	14.27	38.12	53.98	-15.86
* 15744.00	Peak	V	-	-	-70.87	14.27	50.40	73.98	-23.58

Table 7-62. Radiated Measurements (ANT1 2.4GHz – ANT2 5GHz)

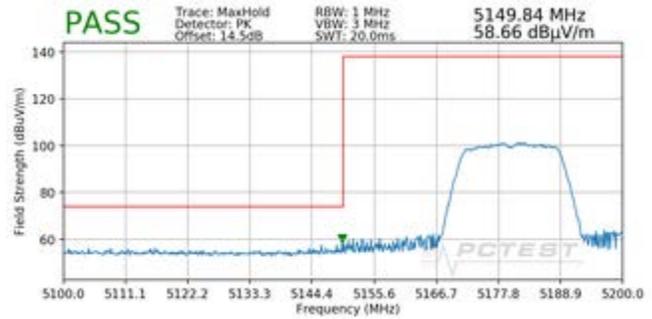
FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset	Page 140 of 170	

7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36



Plot 7-176. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

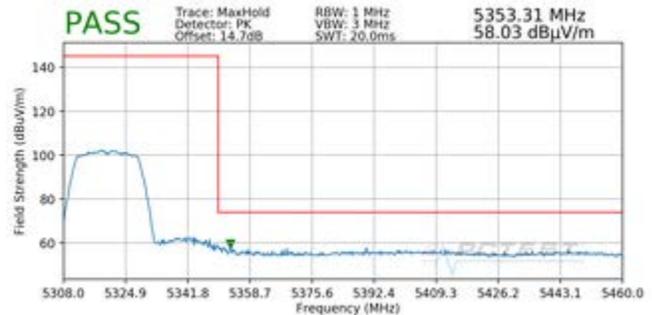


Plot 7-177. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



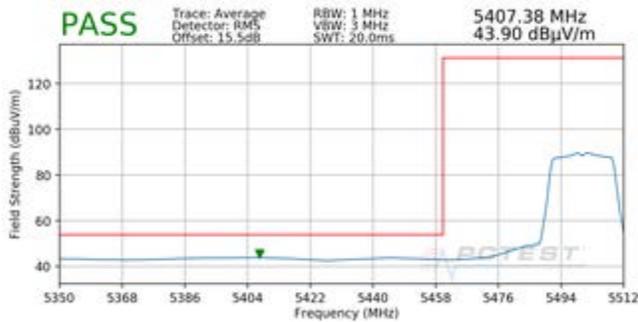
Plot 7-178. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



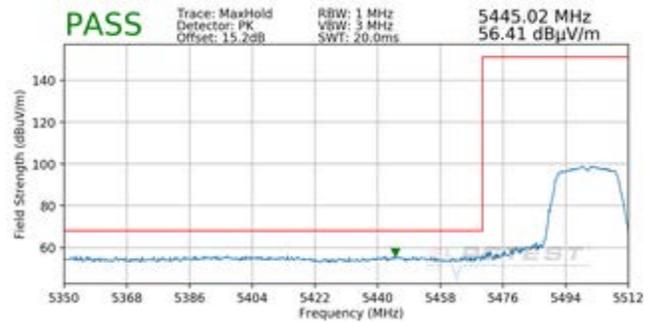
Plot 7-179. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 141 of 170

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

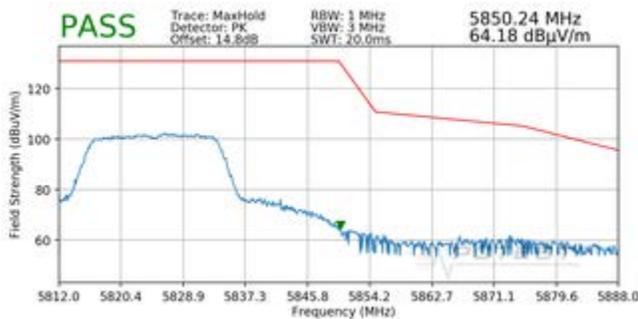


Plot 7-180. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-181. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-182. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

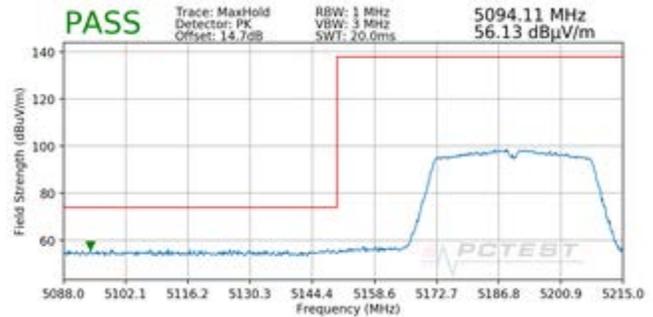
FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 142 of 170

7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



Plot 7-183. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

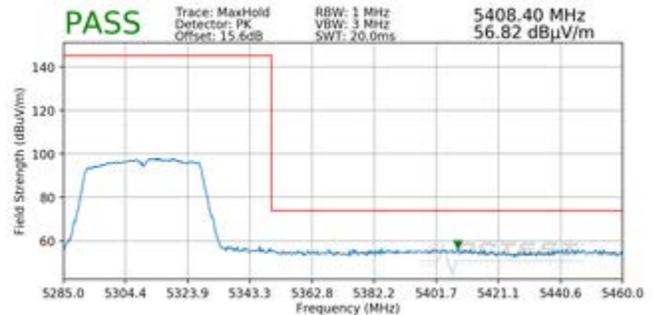


Plot 7-184. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-185. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



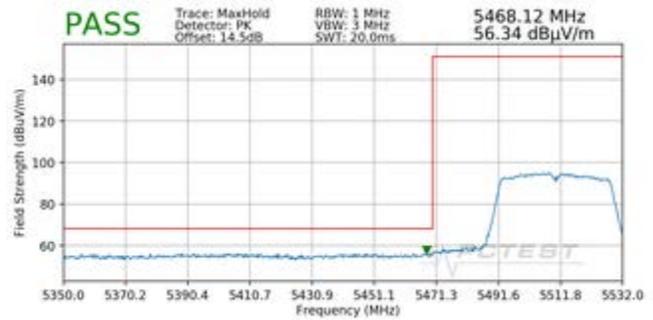
Plot 7-186. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 143 of 170

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

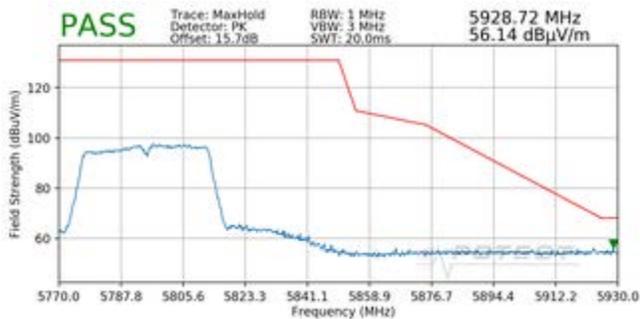


Plot 7-187. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-188. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159

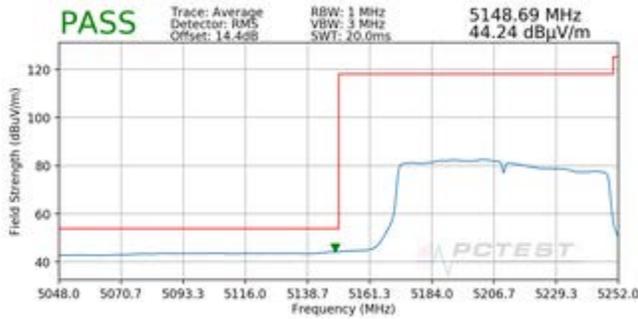


Plot 7-189. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 144 of 170

7.6.7 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

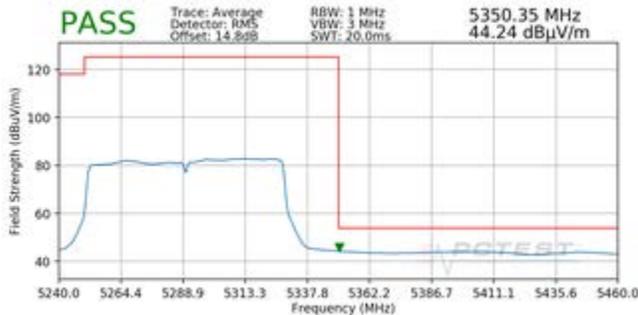


Plot 7-190. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

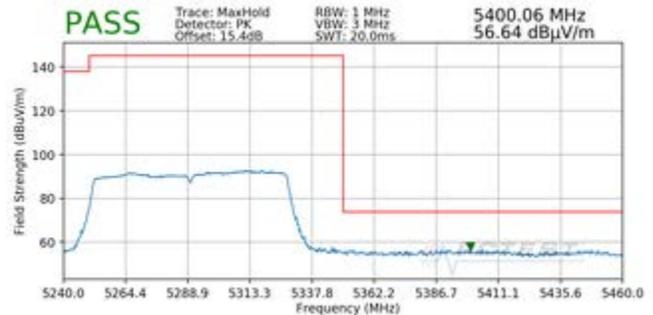


Plot 7-191. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-192. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



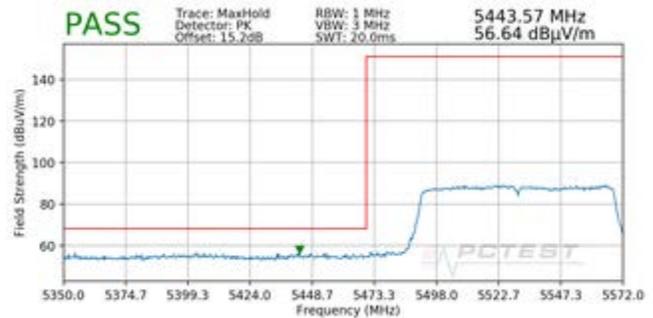
Plot 7-193. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 145 of 170

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

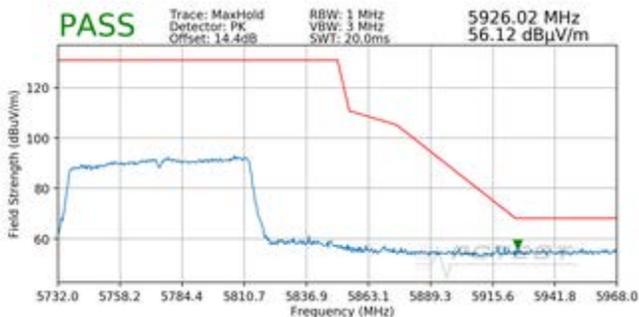


Plot 7-194. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-195. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155

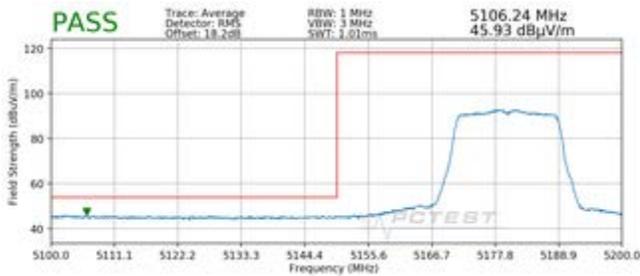


Plot 7-196. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

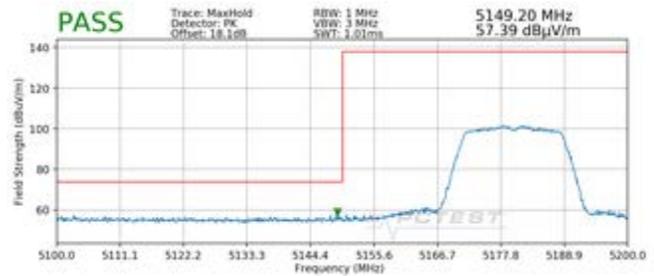
FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09-ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 146 of 170

7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

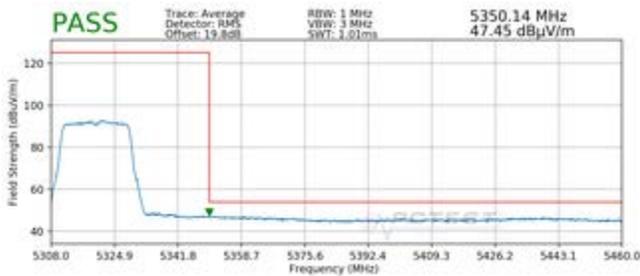


Plot 7-197. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

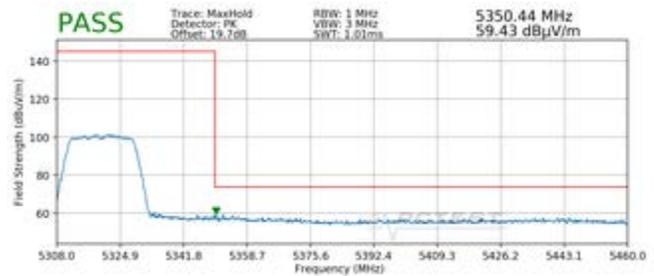


Plot 7-198. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



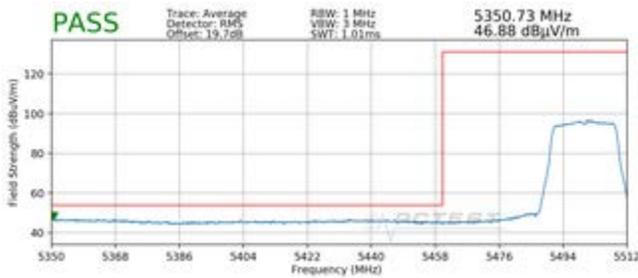
Plot 7-199. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



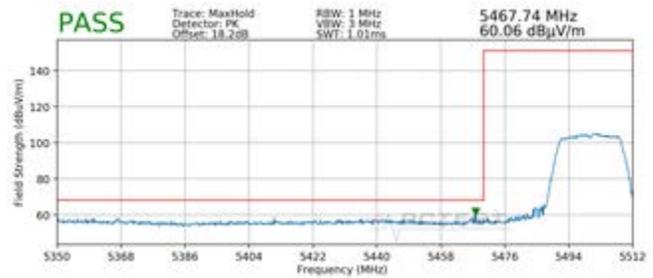
Plot 7-200. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: ZNFG900VM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2004230076-09.ZNF	Test Dates: 4/27 - 6/30/2020	EUT Type: Portable Handset		Page 147 of 170

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

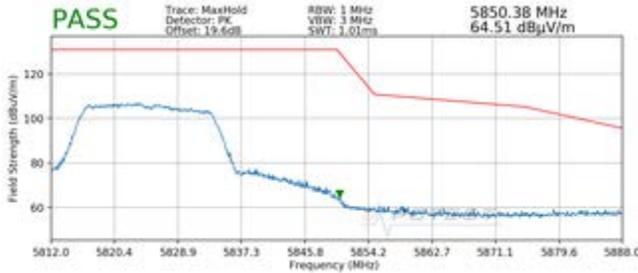


Plot 7-201. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-202. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

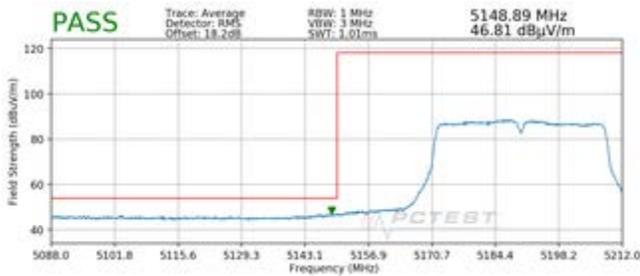


Plot 7-203. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

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7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

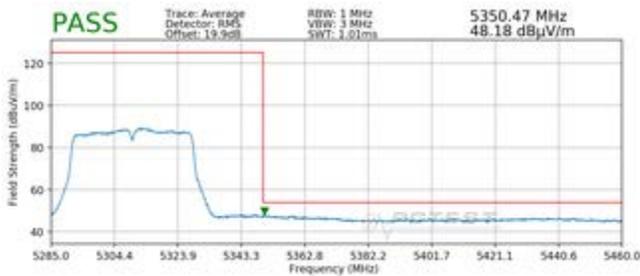


Plot 7-204. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

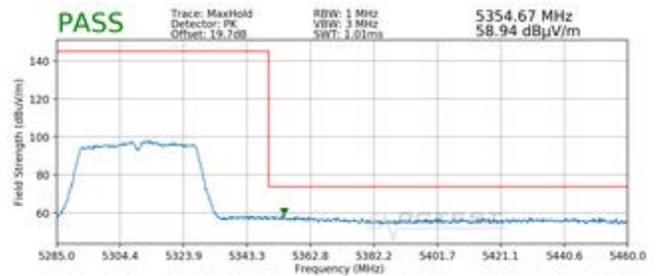


Plot 7-205. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-206. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



Plot 7-207. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

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