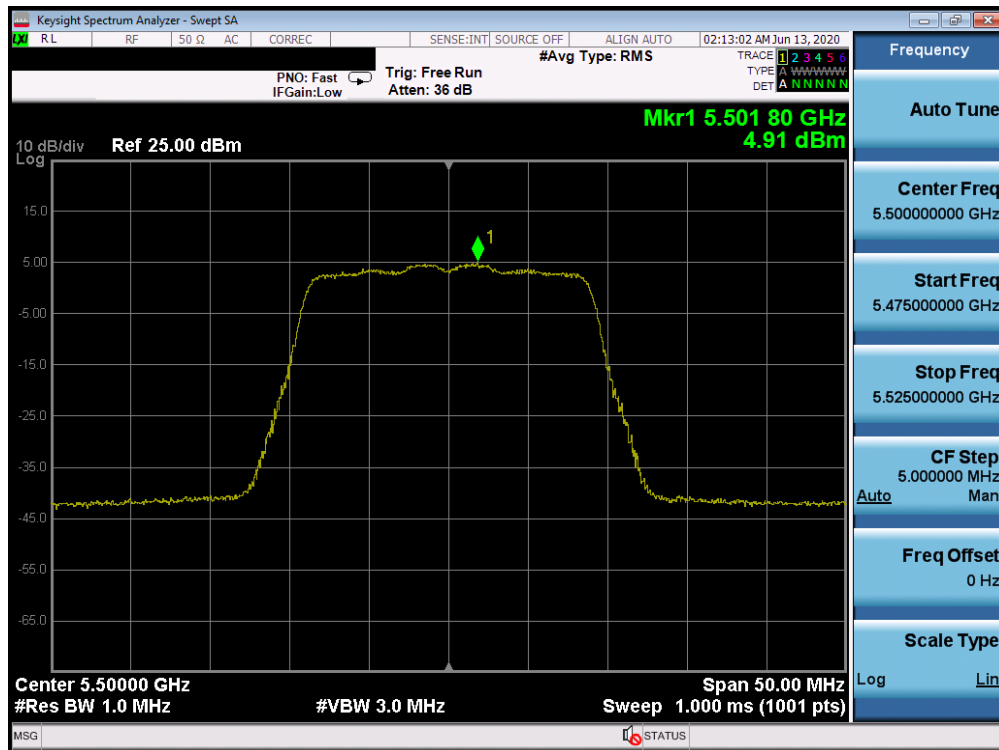
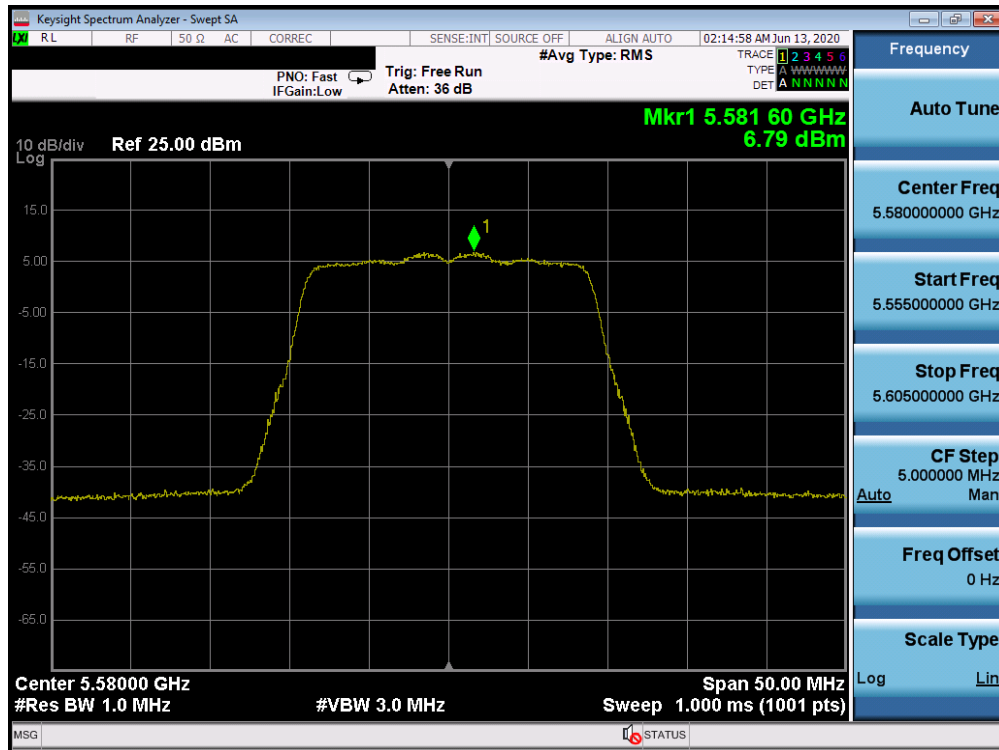


Plot 7-96. Power Spectral Density Plot SISO CORE 1 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

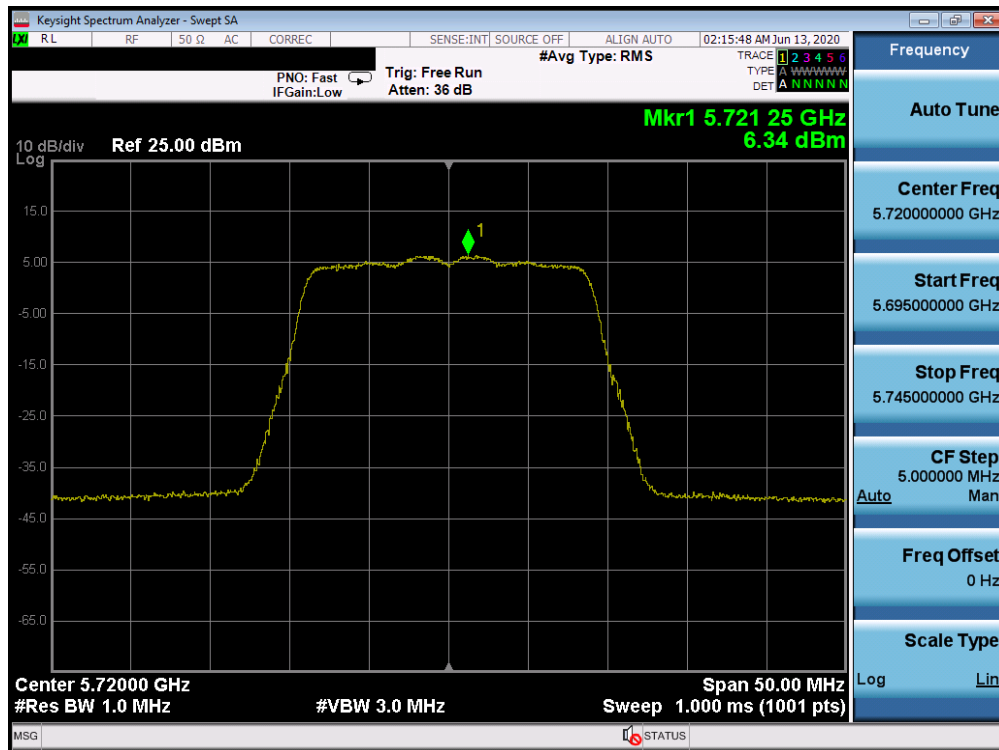


Plot 7-97. Power Spectral Density Plot SISO CORE 1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 81 of 210 |

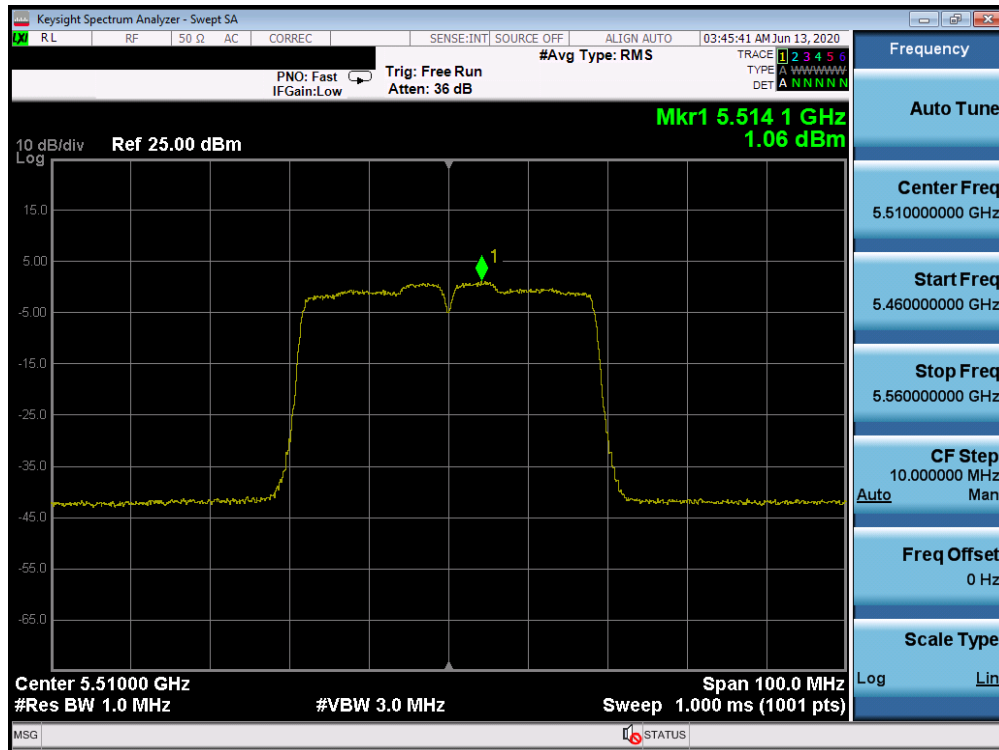


Plot 7-98. Power Spectral Density Plot SISO CORE 1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 116

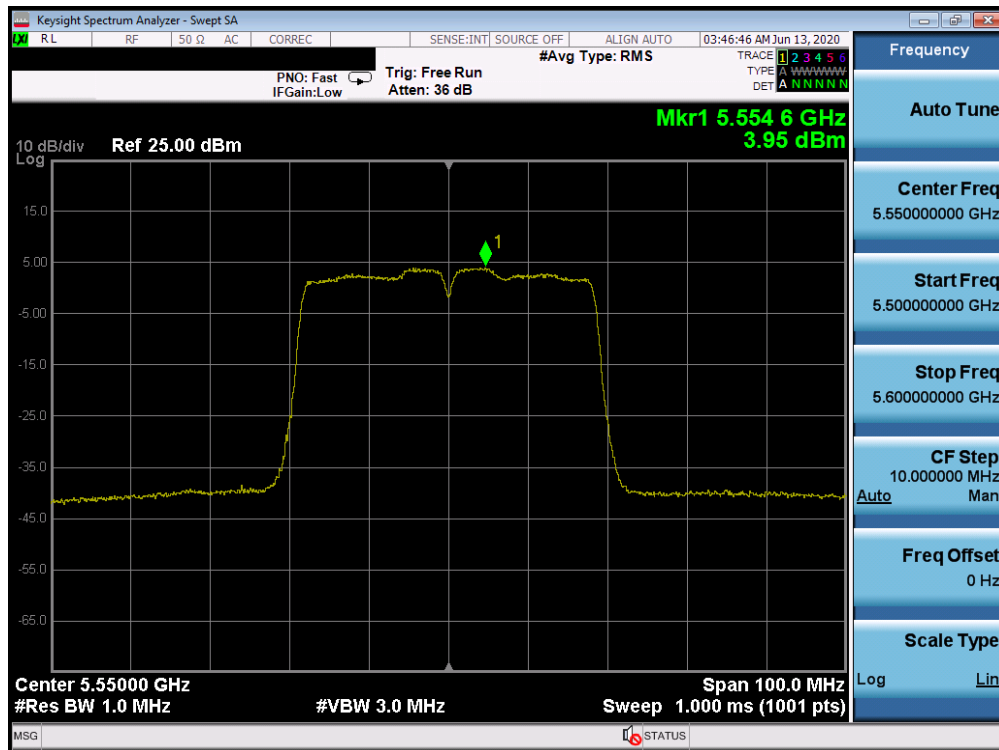


Plot 7-99. Power Spectral Density Plot SISO CORE 1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 44)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 82 of 210 |

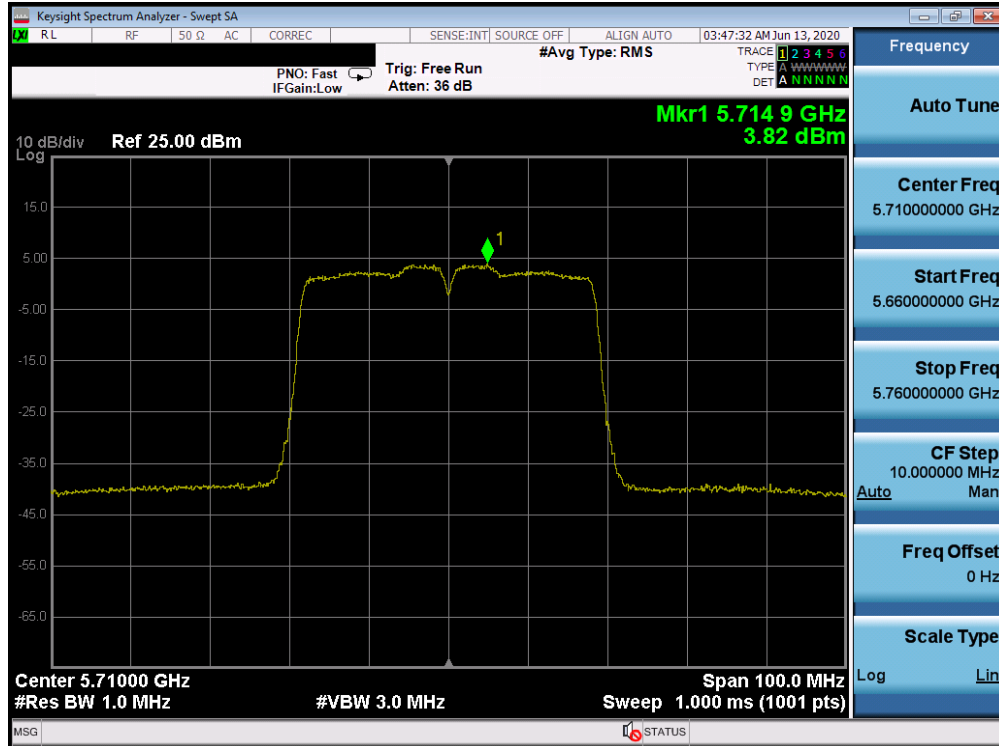


Plot 7-100. Power Spectral Density Plot SISO CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

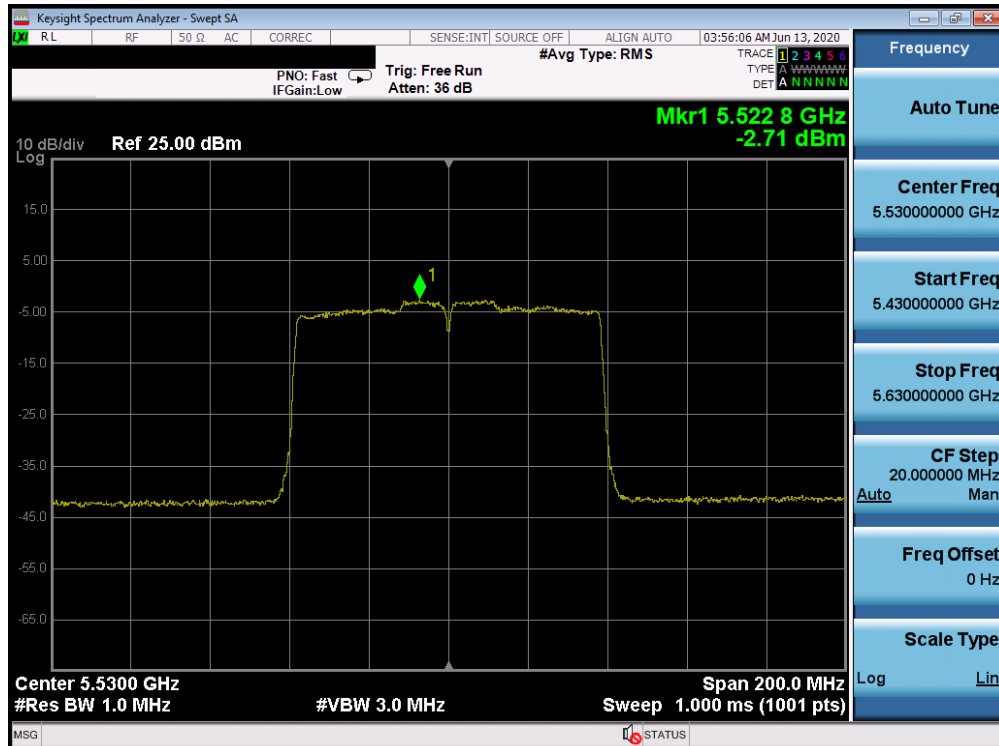


Plot 7-101. Power Spectral Density Plot SISO CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 83 of 210 |

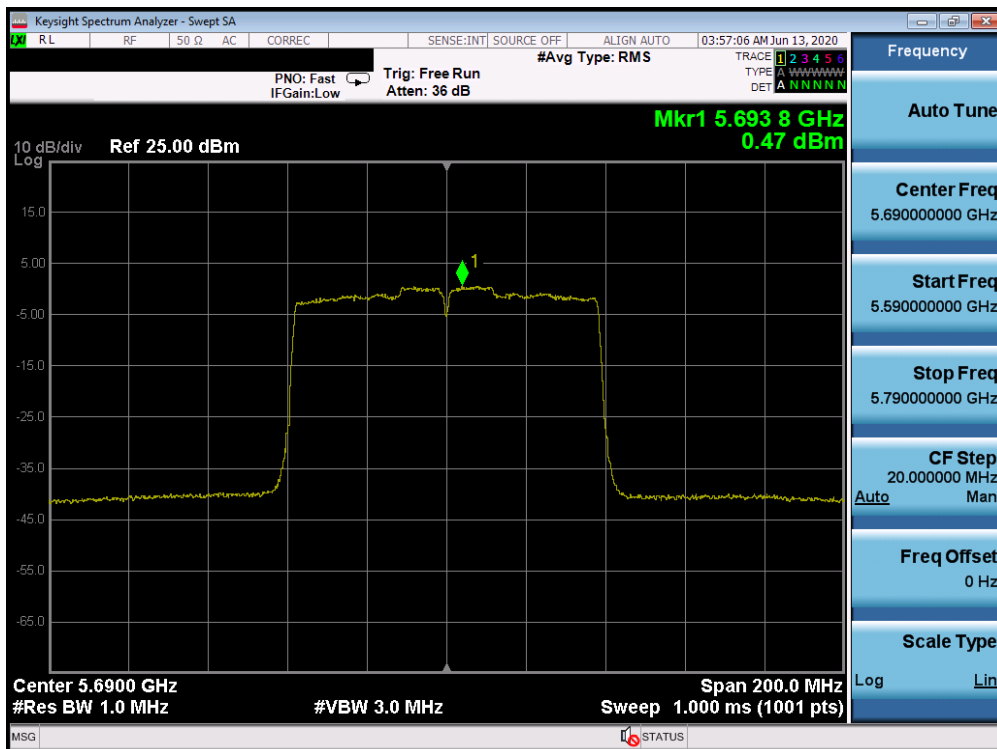


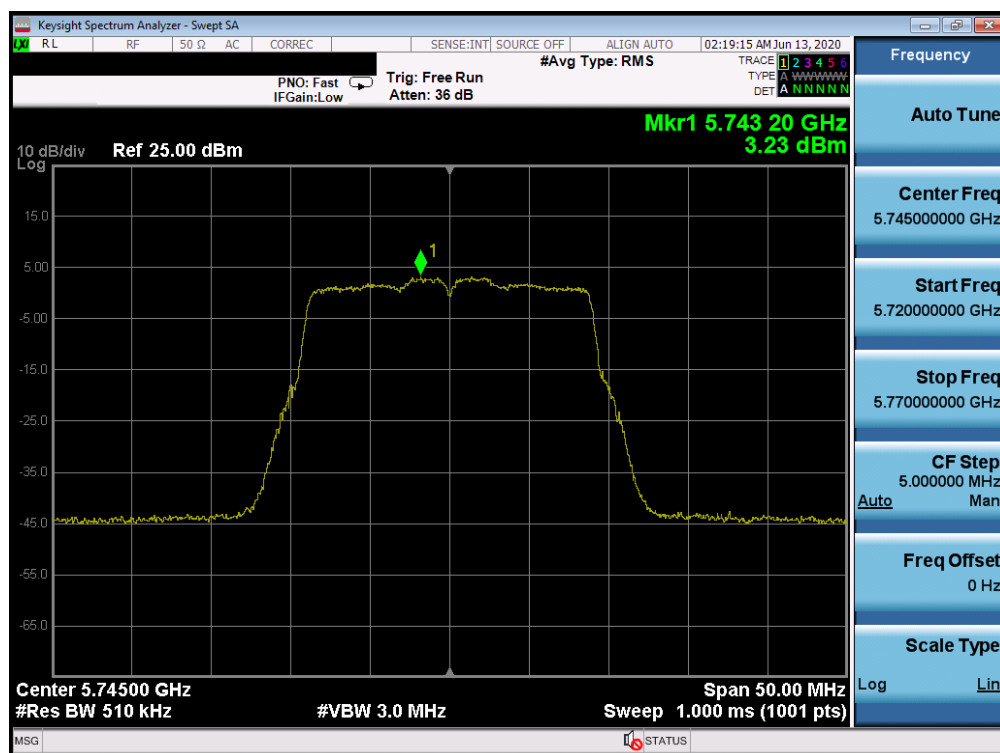
Plot 7-102. Power Spectral Density Plot SISO CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)



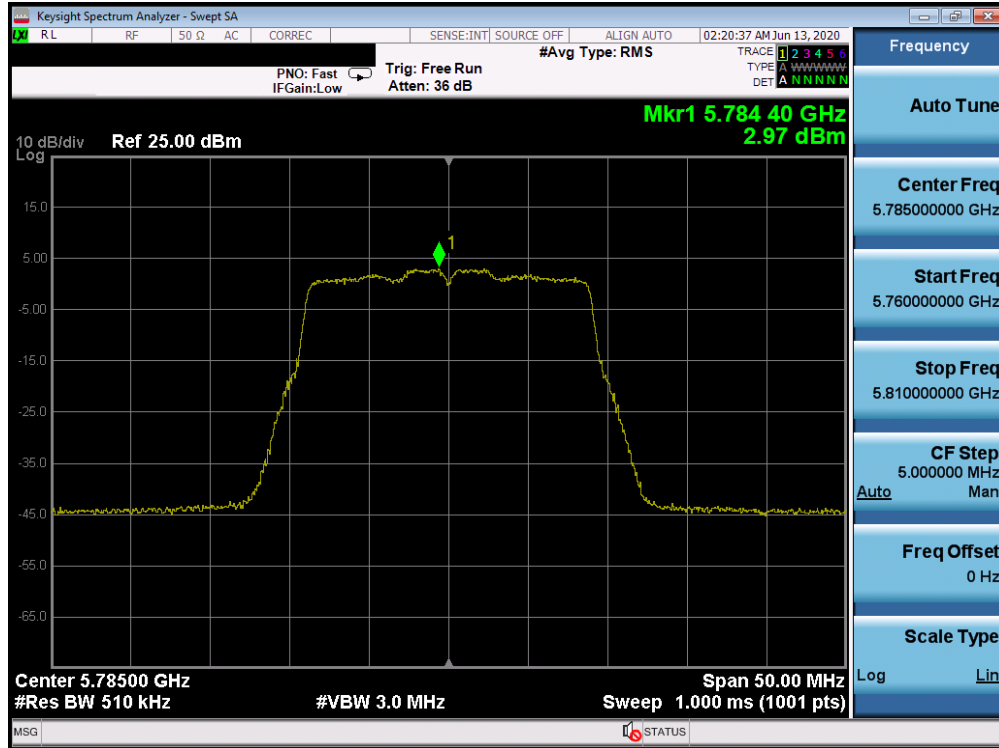
Plot 7-103. Power Spectral Density Plot SISO CORE 1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 84 of 210 |

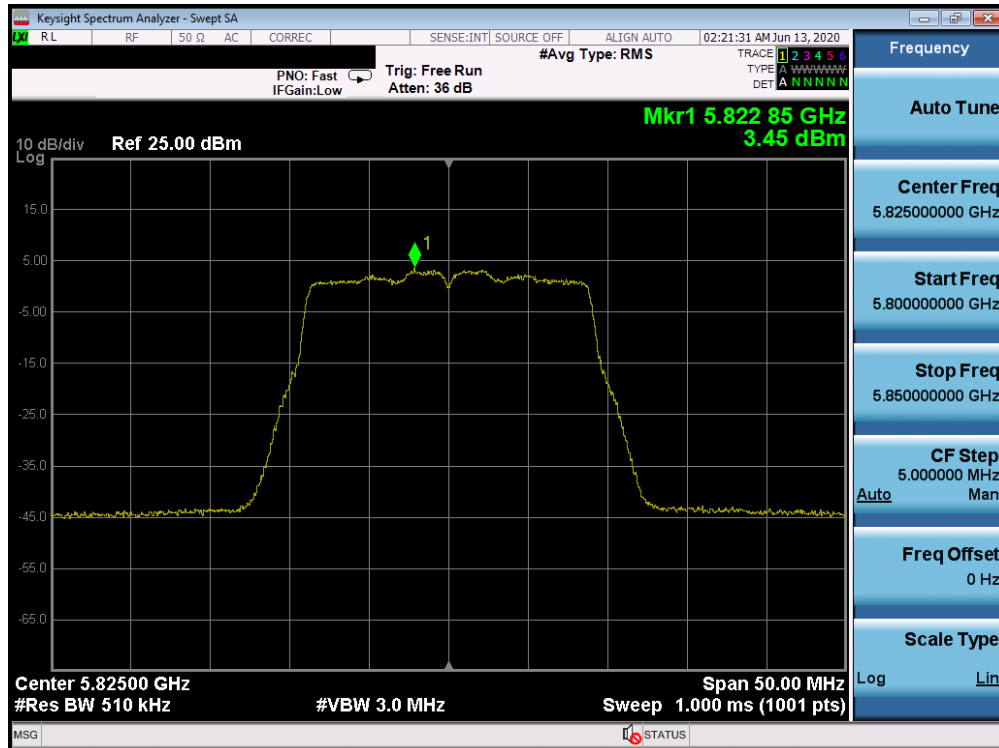




| | | | |
|---|---|-----------------------------------|--|
| FCC ID: BCGA2428 |  MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 86 of 210 |

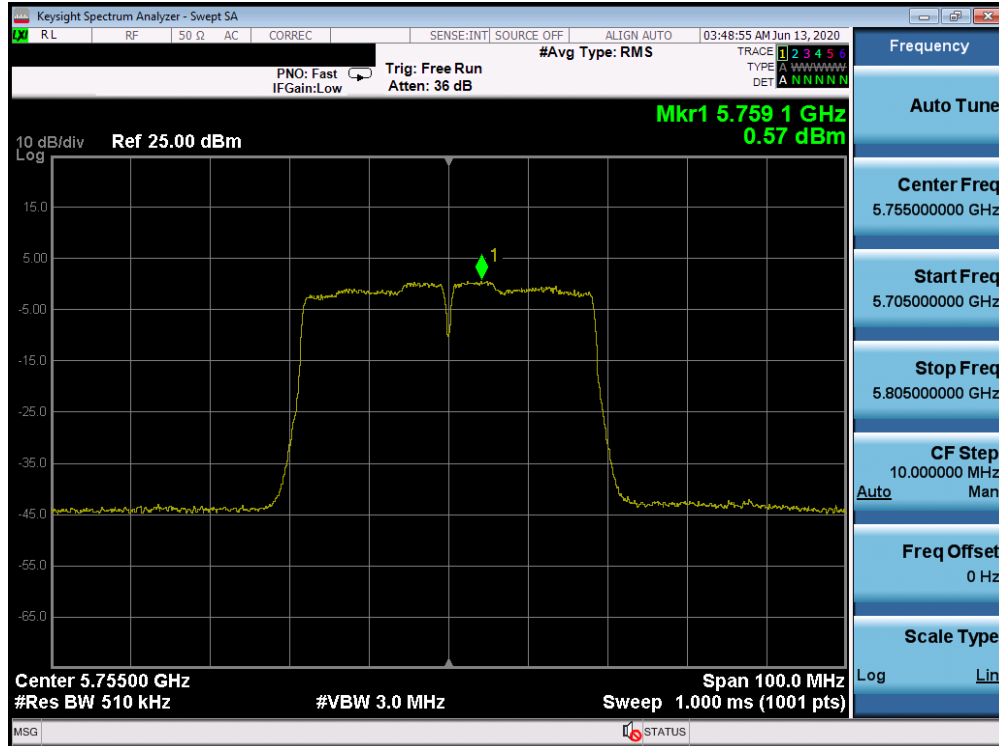


Plot 7-106. Power Spectral Density Plot SISO CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

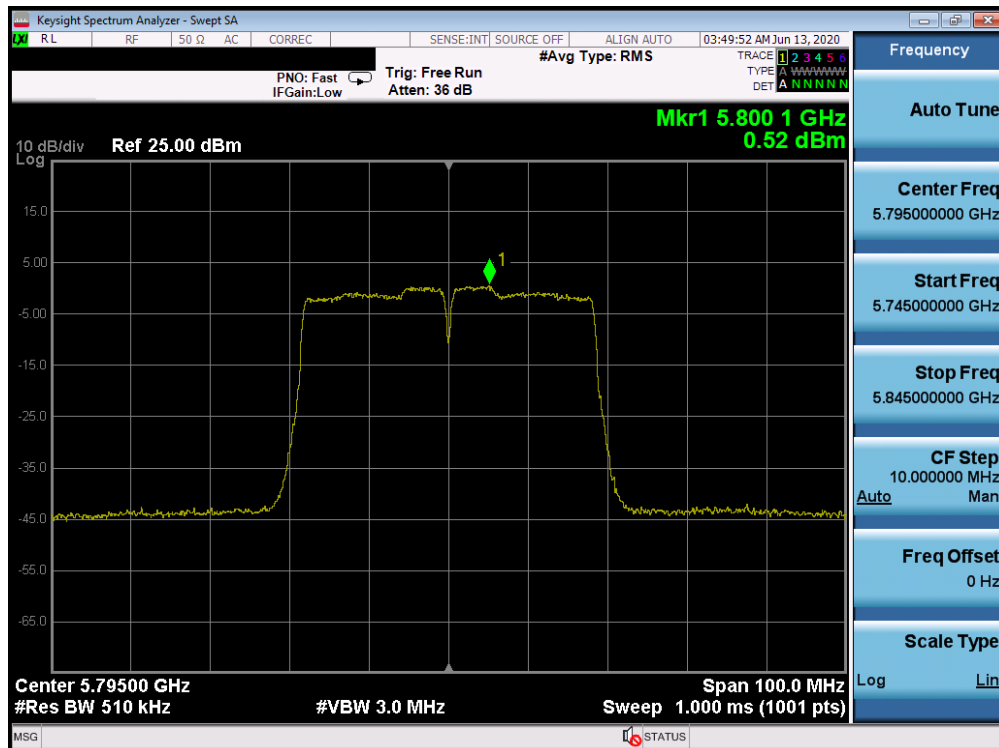


Plot 7-107. Power Spectral Density Plot SISO CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 87 of 210 |

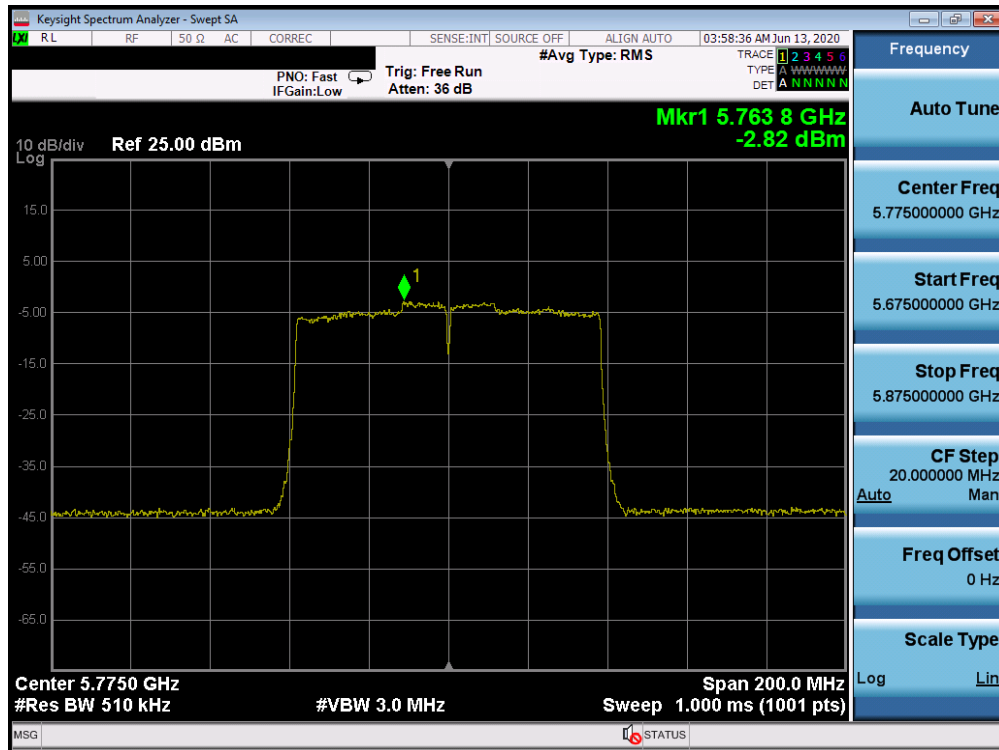


Plot 7-108. Power Spectral Density Plot SISO CORE 1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)



Plot 7-109. Power Spectral Density Plot SISO CORE 1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 88 of 210 |



Plot 7-110. Power Spectral Density Plot SISO CORE 1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 |  PCTEST Proud to be part of  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 89 of 210 |

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Summed CDD/SDM Power Spectral Density Measurements

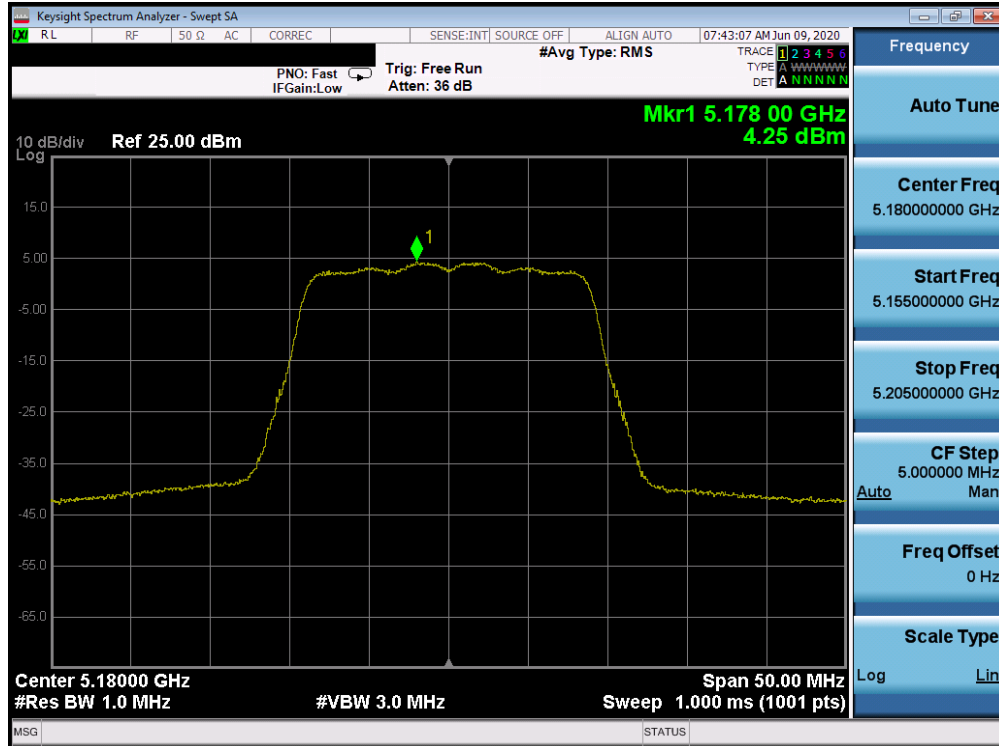
| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Core 0 Power Density [dBm/MHz] | Core 1 Power Density [dBm/MHz] | Summed Power Density [dBm/MHz] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 4.25 | 4.44 | 7.36 | 11.0 | -3.64 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 5.87 | 5.97 | 8.93 | 11.0 | -2.07 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 6.26 | 6.48 | 9.38 | 11.0 | -1.62 |
| | 5190 | 38 | n (40MHz) | 13.5/15 (MCS0) | -0.73 | -0.90 | 2.20 | 11.0 | -8.80 |
| | 5230 | 46 | n (40MHz) | 13.5/15 (MCS0) | 3.41 | 3.39 | 6.41 | 11.0 | -4.59 |
| | 5210 | 42 | ac (80MHz) | 29.3/32.5 (MCS0) | -5.09 | -0.26 | 0.98 | 11.0 | -10.02 |
| Band 2A | 5260 | 52 | n (20MHz) | 6.5/7.2 (MCS8) | 6.84 | 6.88 | 9.87 | 11.0 | -1.13 |
| | 5280 | 56 | n (20MHz) | 6.5/7.2 (MCS8) | 6.90 | 7.08 | 10.00 | 11.0 | -1.00 |
| | 5320 | 64 | n (20MHz) | 6.5/7.2 (MCS0) | 4.38 | 4.30 | 7.35 | 11.0 | -3.65 |
| | 5270 | 54 | n (40MHz) | 13.5/15 (MCS0) | 4.39 | 4.23 | 7.32 | 11.0 | -3.68 |
| | 5310 | 62 | n (40MHz) | 13.5/15 (MCS0) | 0.52 | 0.33 | 3.43 | 11.0 | -7.57 |
| | 5290 | 58 | ac (80MHz) | 29.3/32.5 (MCS0) | -4.52 | -4.59 | -1.54 | 11.0 | -12.54 |
| Band 2C | 5500 | 100 | n (20MHz) | 6.5/7.2 (MCS0) | 4.20 | 4.54 | 7.38 | 11.0 | -3.62 |
| | 5580 | 116 | n (20MHz) | 6.5/7.2 (MCS8) | 7.11 | 7.12 | 10.13 | 11.0 | -0.87 |
| | 5720 | 144 | n (20MHz) | 6.5/7.2 (MCS8) | 6.22 | 6.09 | 9.17 | 11.0 | -1.83 |
| | 5510 | 102 | n (40MHz) | 13.5/15 (MCS0) | -0.15 | -0.23 | 2.82 | 11.0 | -8.18 |
| | 5550 | 110 | n (40MHz) | 13.5/15 (MCS0) | 5.15 | 4.59 | 7.89 | 11.0 | -3.11 |
| | 5710 | 142 | n (40MHz) | 13.5/15 (MCS0) | 4.80 | 4.52 | 7.67 | 11.0 | -3.33 |
| | 5530 | 106 | ac (80MHz) | 29.3/32.5 (MCS0) | -3.59 | -3.35 | -0.46 | 11.0 | -11.46 |
| | 5690 | 138 | ac (80MHz) | 29.3/32.5 (MCS0) | 1.62 | 1.18 | 4.42 | 11.0 | -6.58 |

Table 7-32. Bands 1, 2A, 2C CDD/SDM Conducted Power Spectral Density Measurements

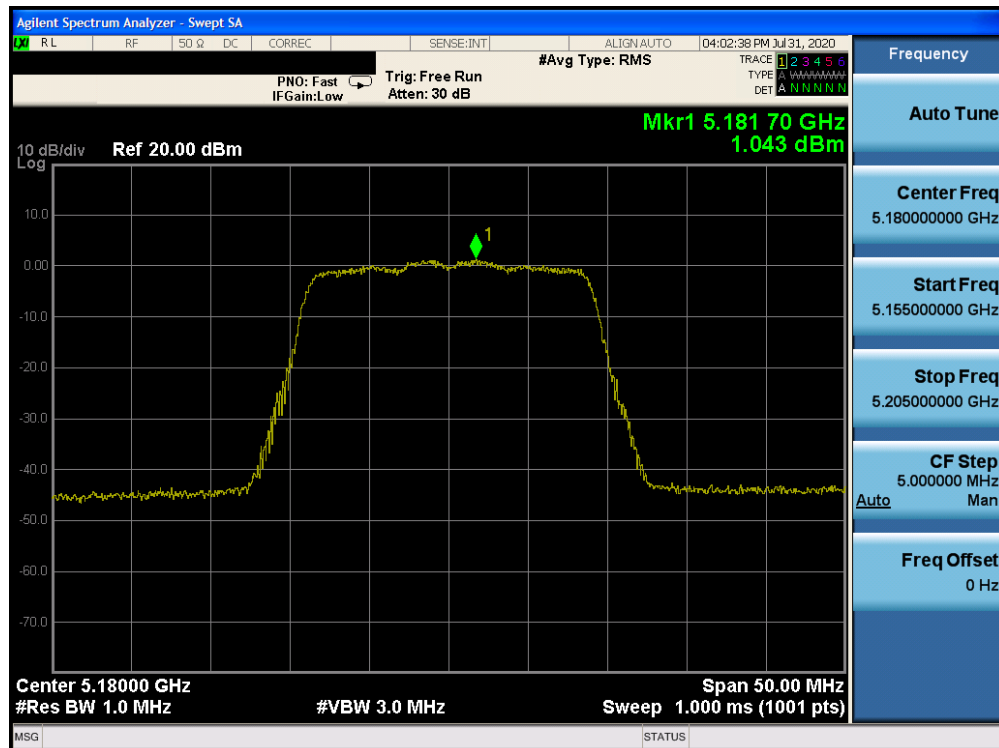
| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Core 0 Power Density [dBm/MHz] | Core 1 Power Density [dBm/MHz] | Summed Power Density [dBm/MHz] | Directional Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------------------|---|-------------|
| Band 1 | 5180 | 36 | n (20MHz) | 6.5/7.2 (MCS0) | 1.04 | 1.29 | 4.18 | 4.99 | 9.17 | 10.0 | -0.83 |
| | 5200 | 40 | n (20MHz) | 6.5/7.2 (MCS0) | 1.05 | 0.97 | 4.02 | 4.99 | 9.01 | 10.0 | -0.99 |
| | 5240 | 48 | n (20MHz) | 6.5/7.2 (MCS0) | 1.33 | 1.41 | 4.38 | 4.99 | 9.37 | 10.0 | -0.63 |

Table 7-33. Band 1 CDD e.i.r.p. Conducted Power Spectral Density Measurements (ISED)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 |  PCTEST Proud to be part of  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 90 of 210 |

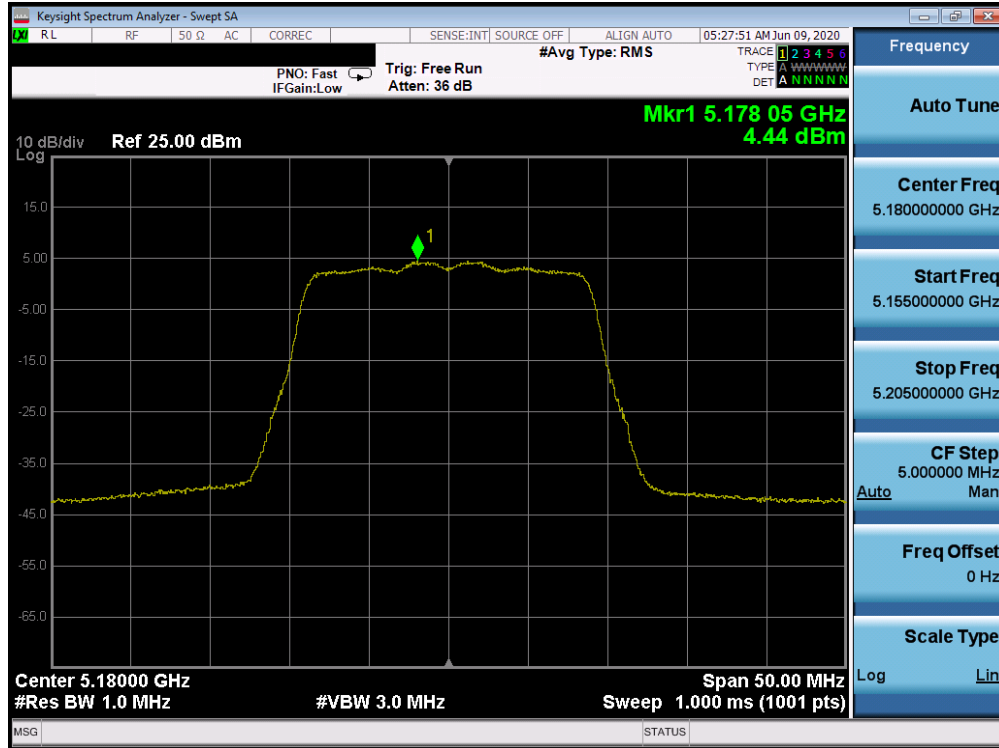


Plot 7-111. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

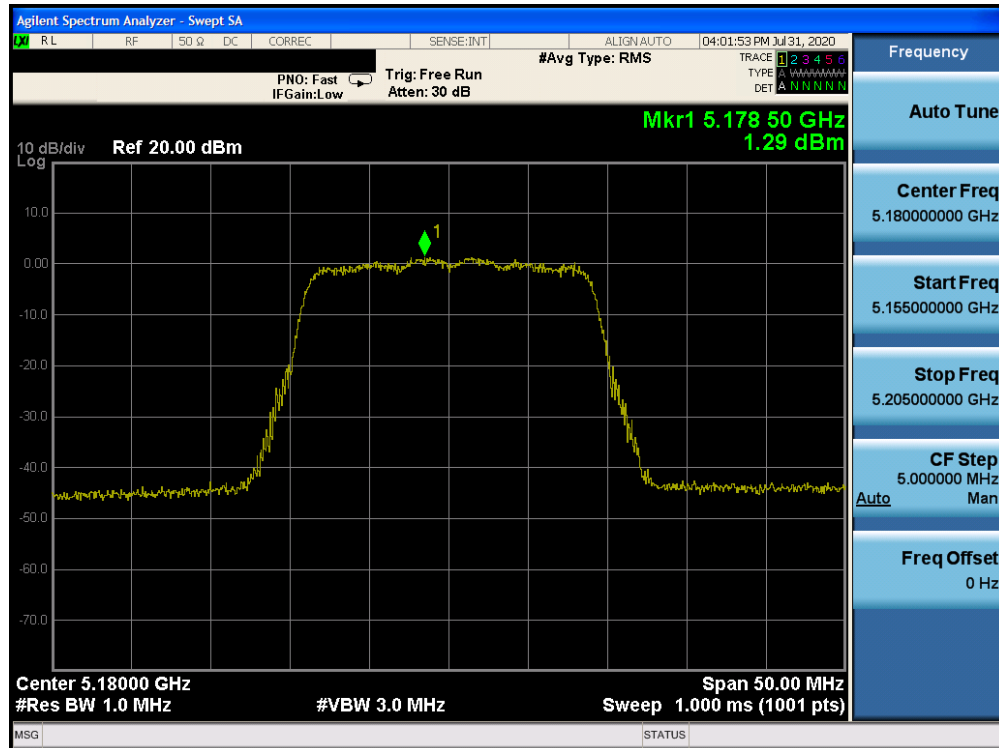


Plot 7-112. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 91 of 210 |

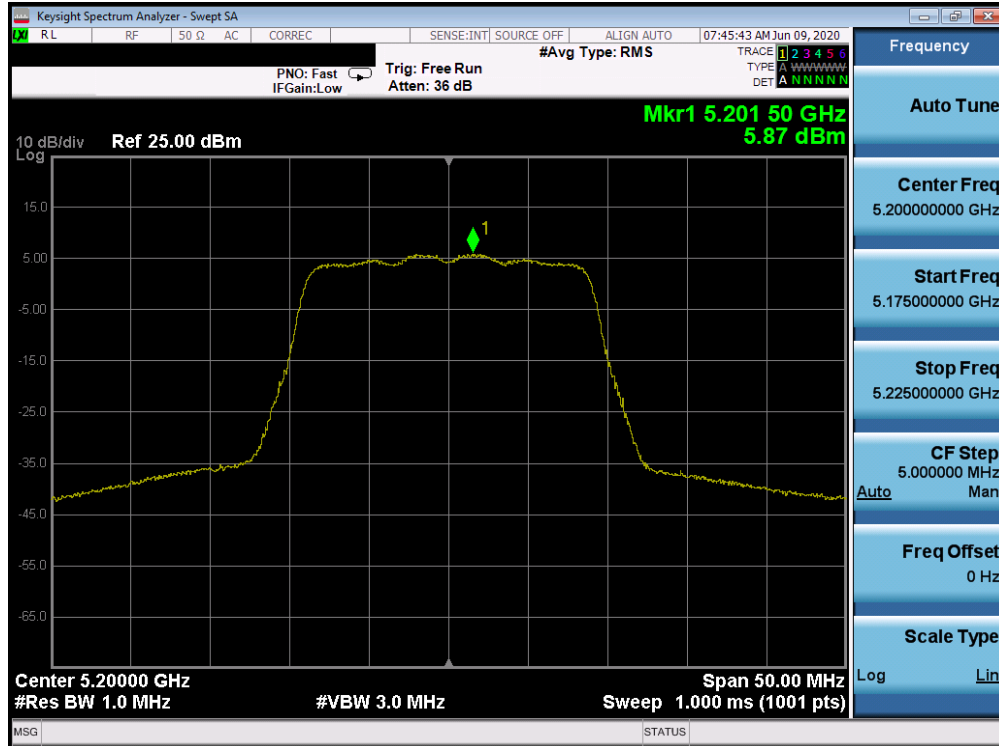


Plot 7-113. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

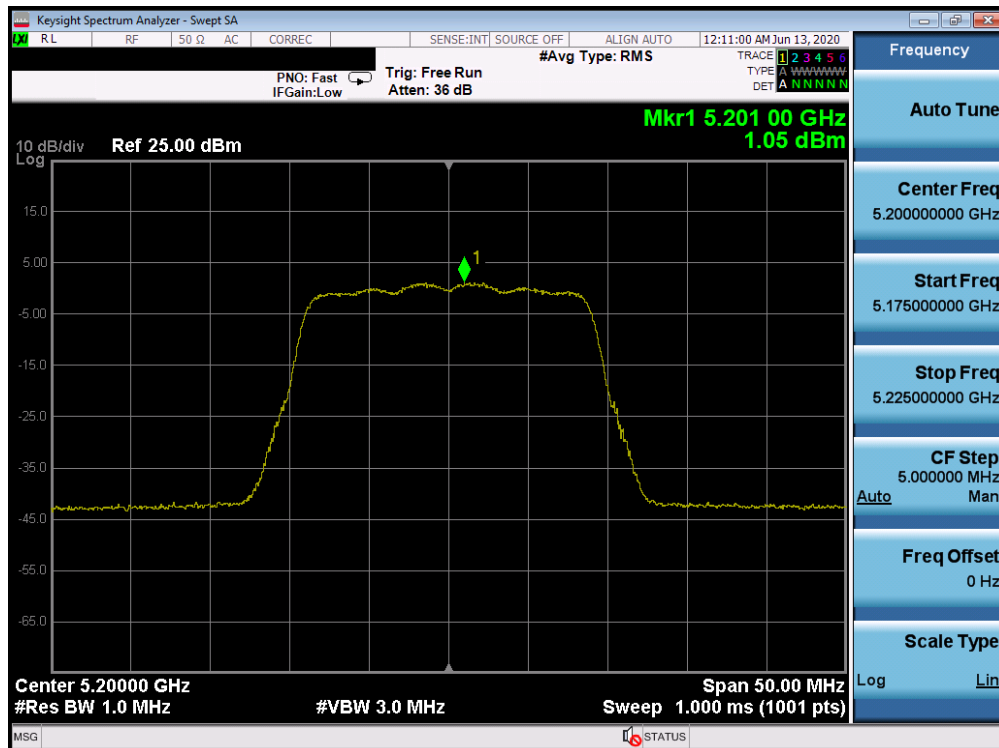


Plot 7-114. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 92 of 210 |

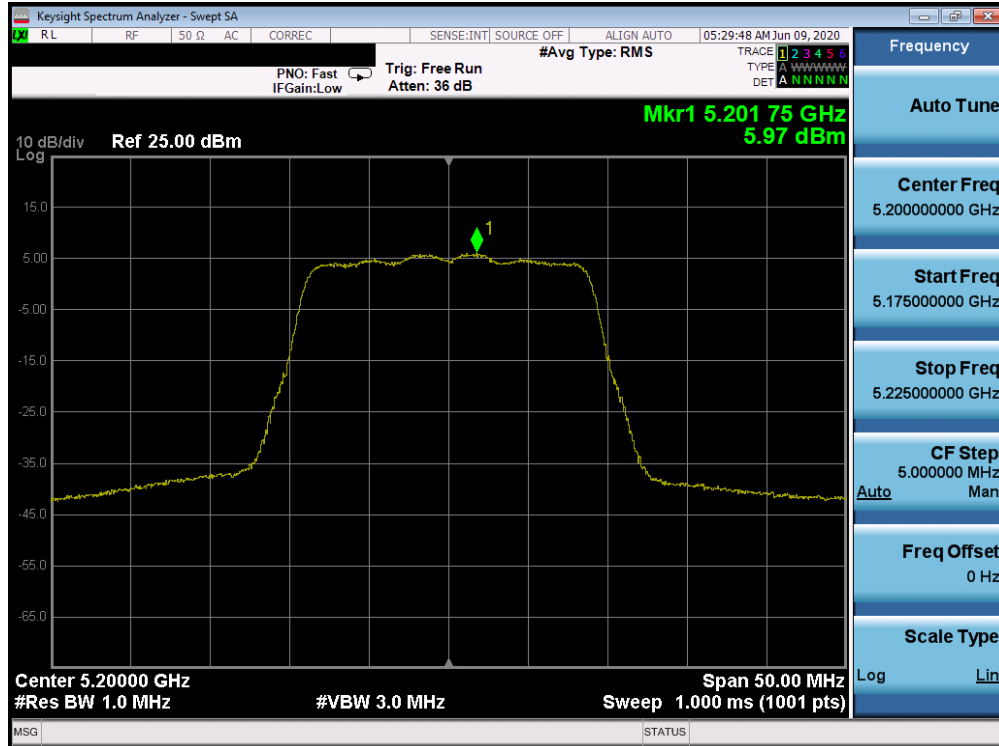


Plot 7-115. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

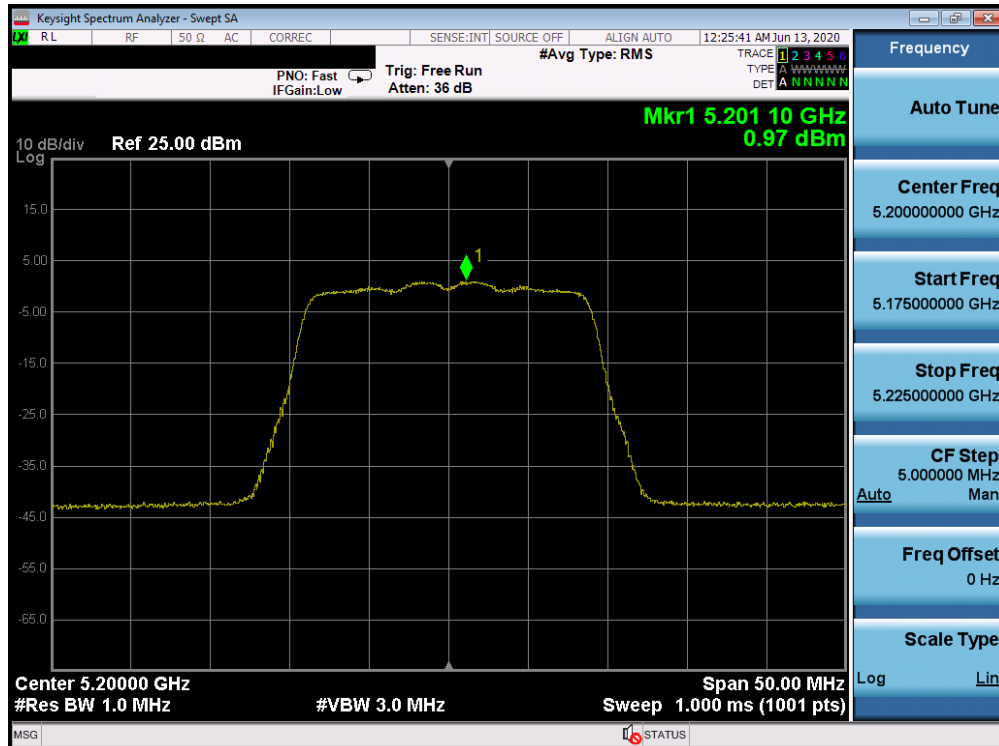


Plot 7-116. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 93 of 210 |

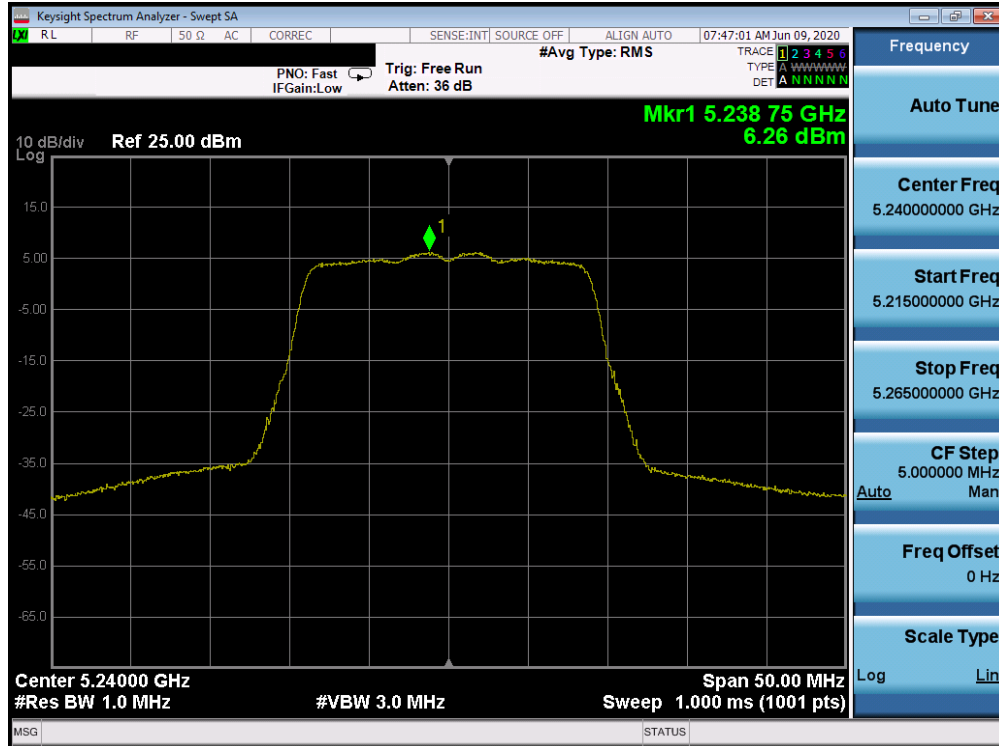


Plot 7-117. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

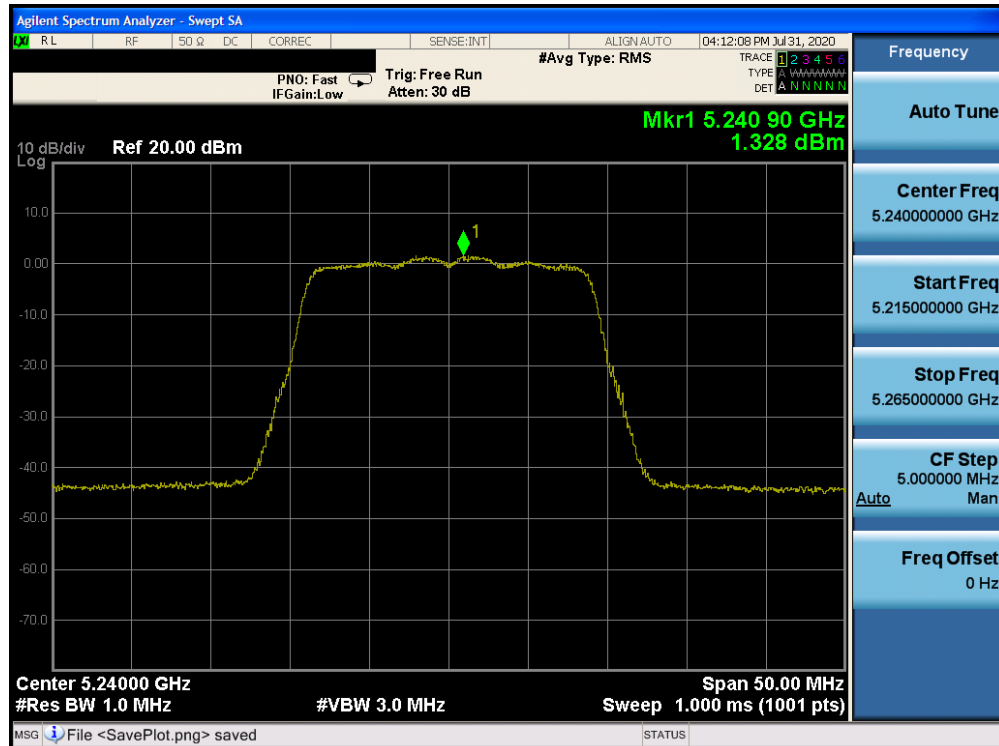


Plot 7-118. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 94 of 210 |

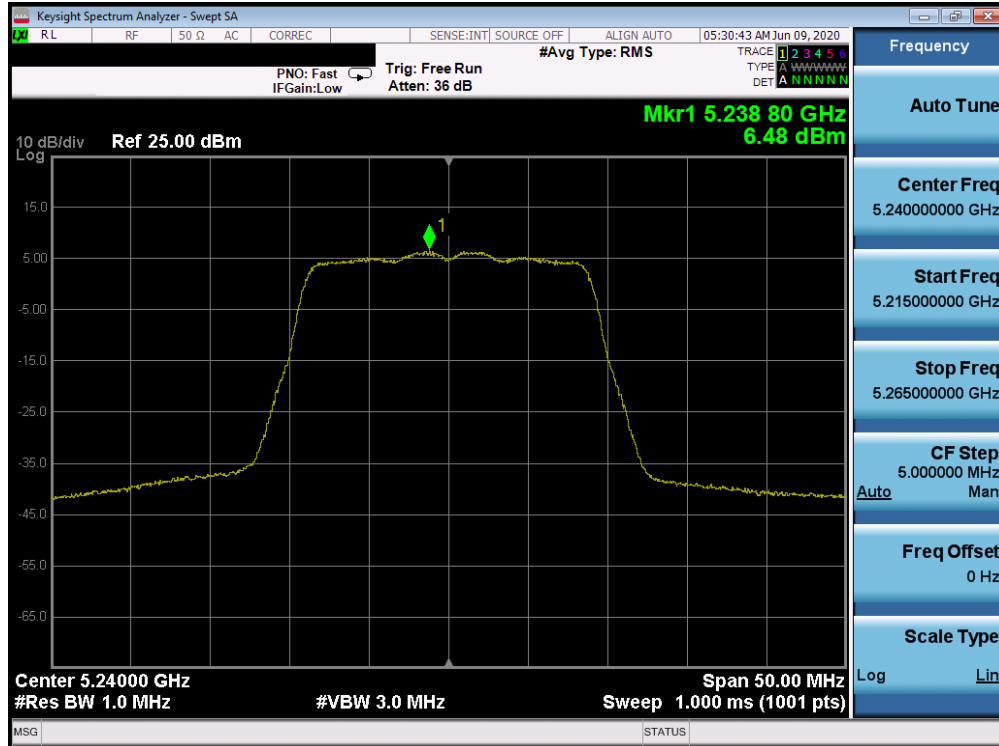


Plot 7-119. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

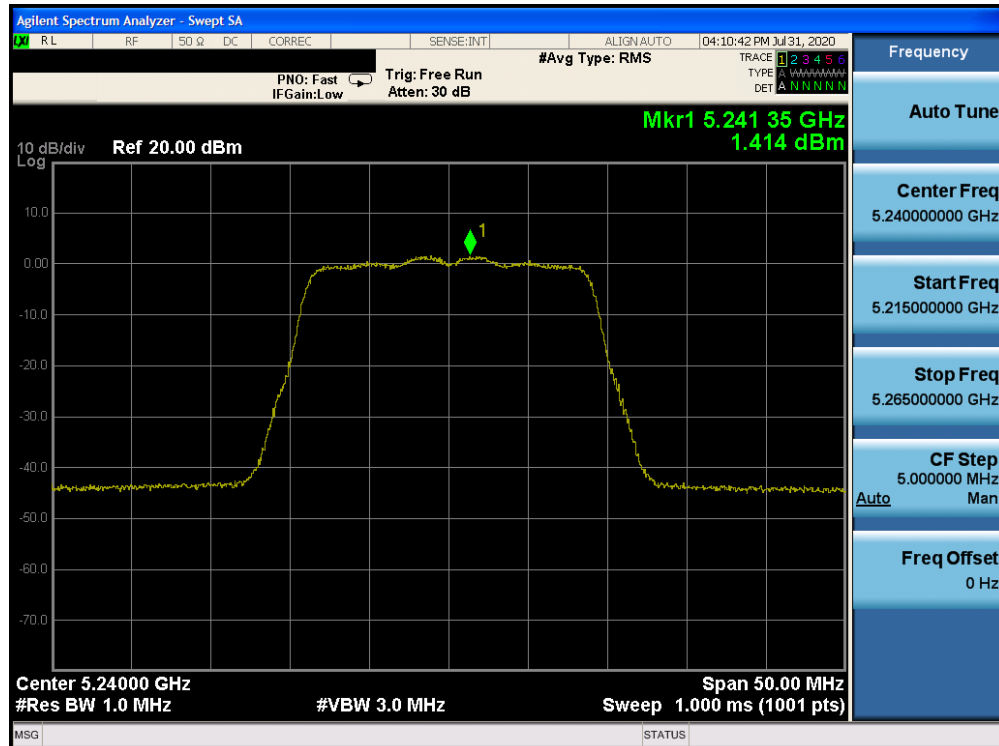


Plot 7-120. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 95 of 210 |

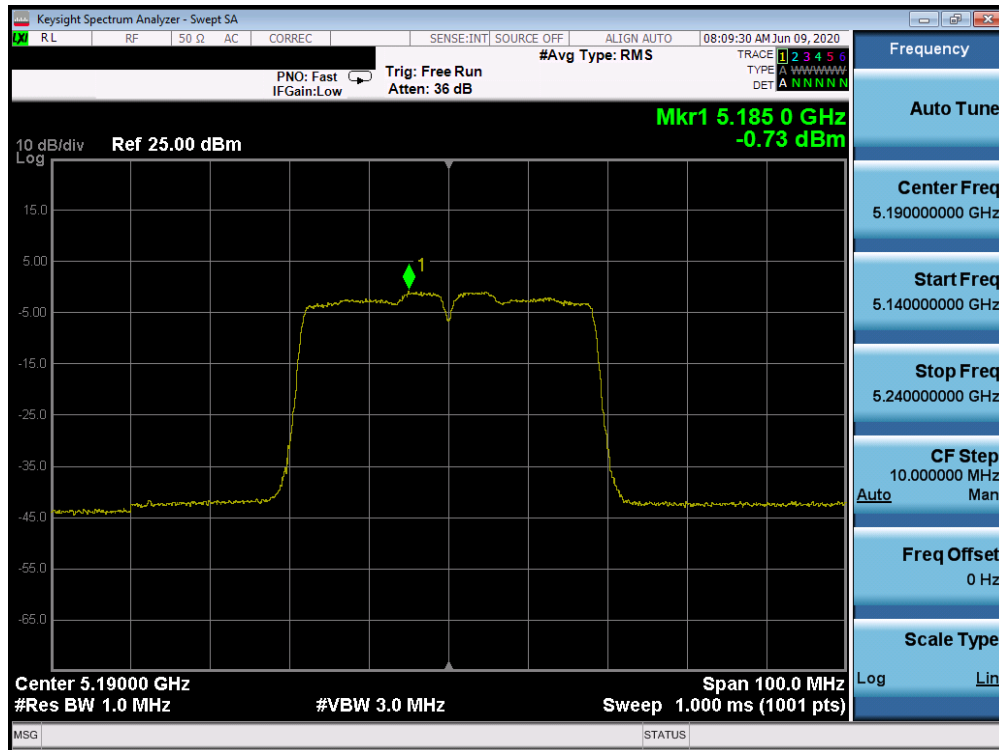


Plot 7-121. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

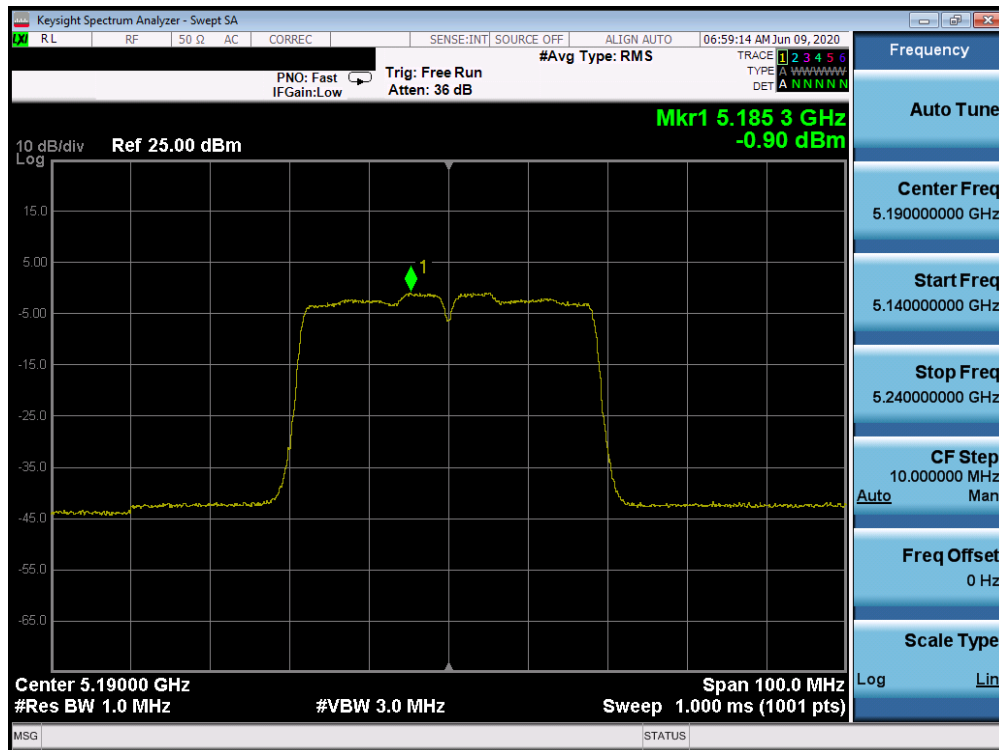


Plot 7-122. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 96 of 210 |

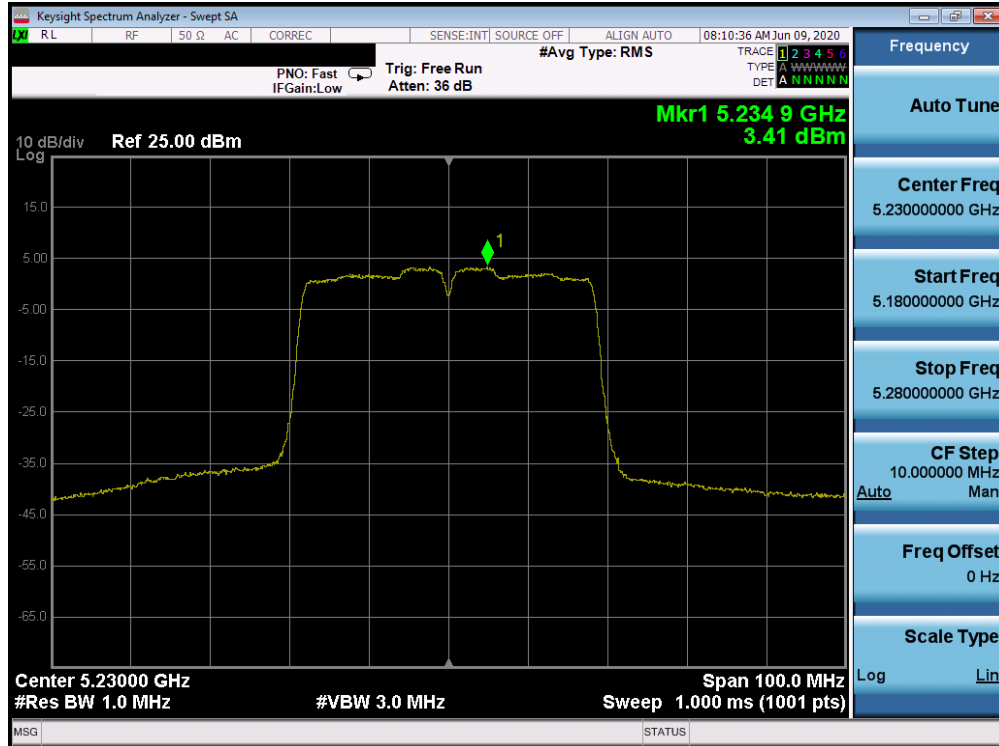


Plot 7-123. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

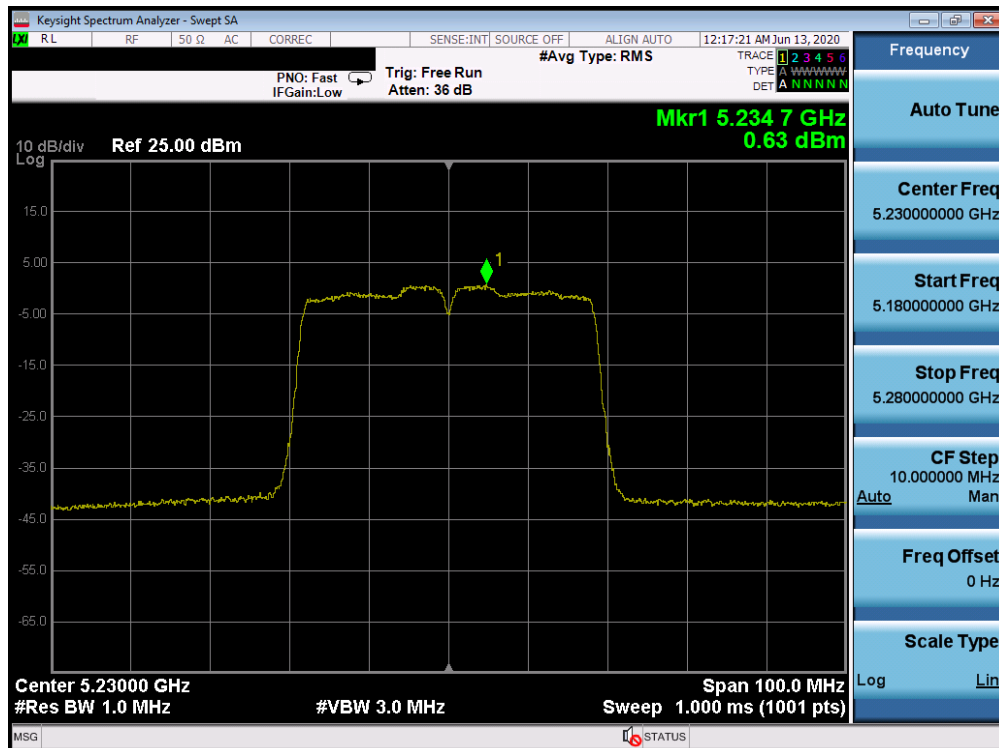


Plot 7-124. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 97 of 210 |

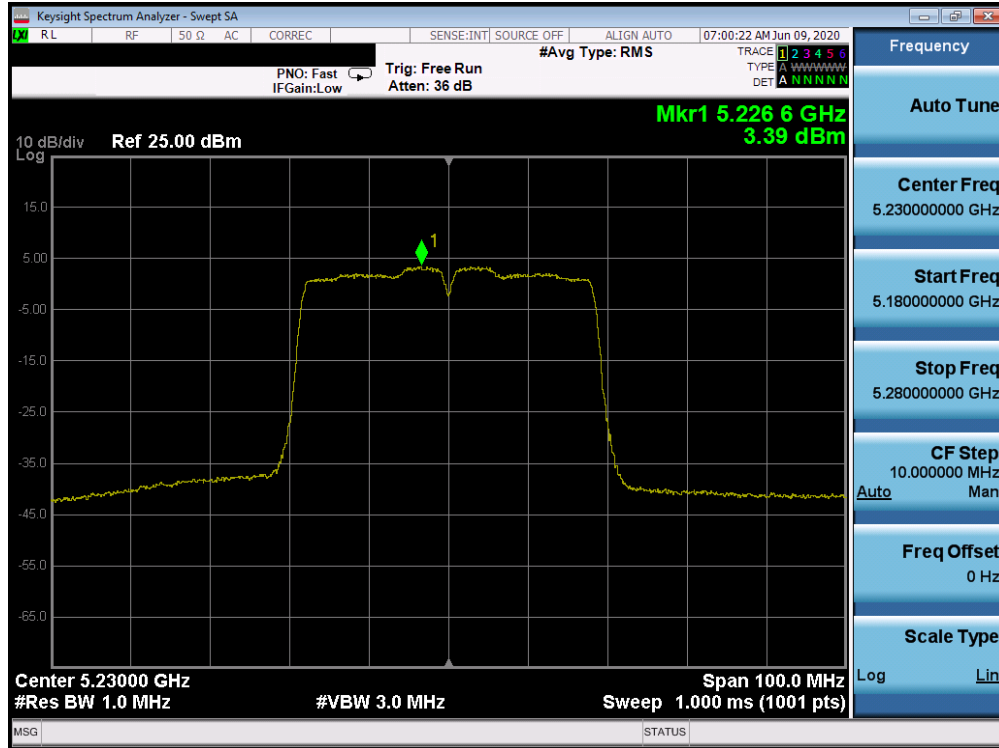


Plot 7-125. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

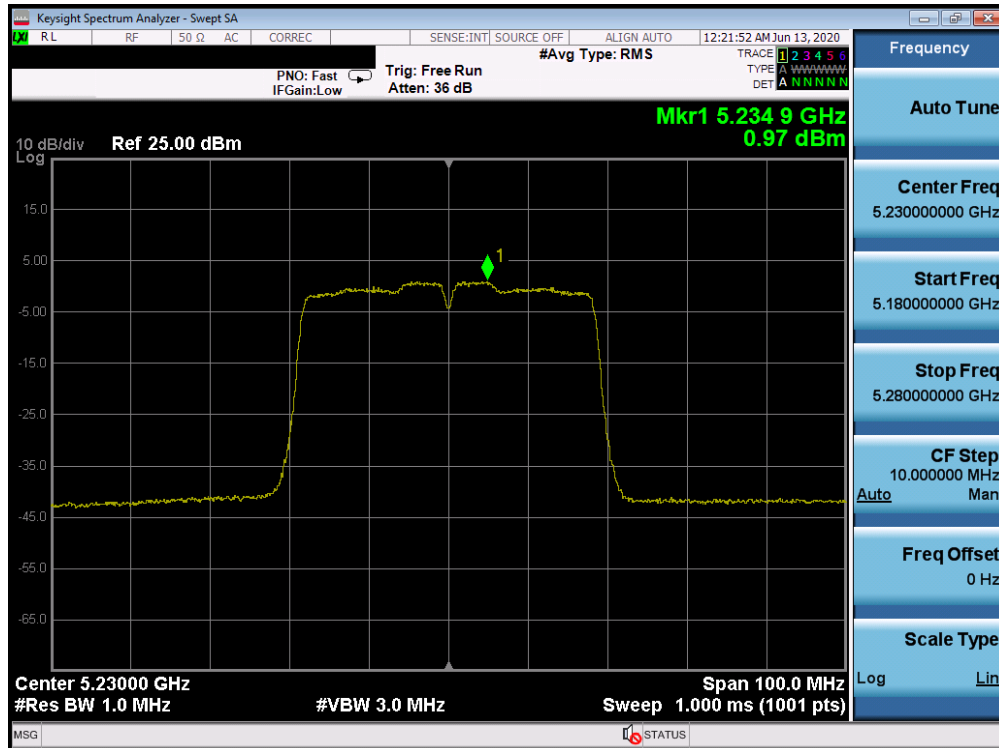


Plot 7-126. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 98 of 210 |

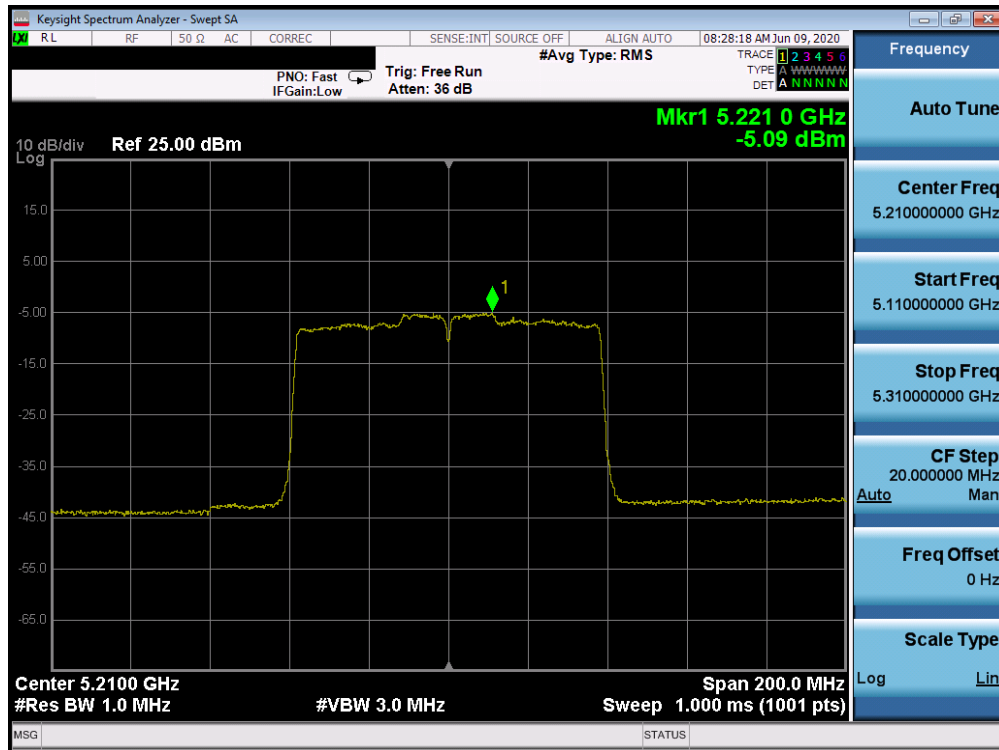


Plot 7-127. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

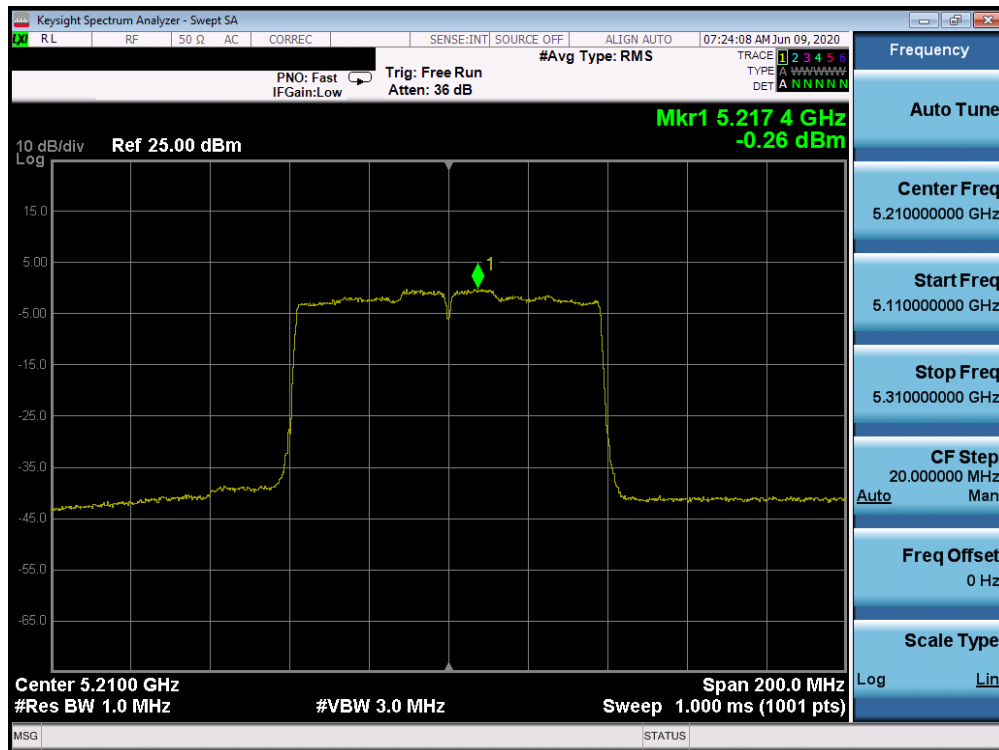


Plot 7-128. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 99 of 210 |

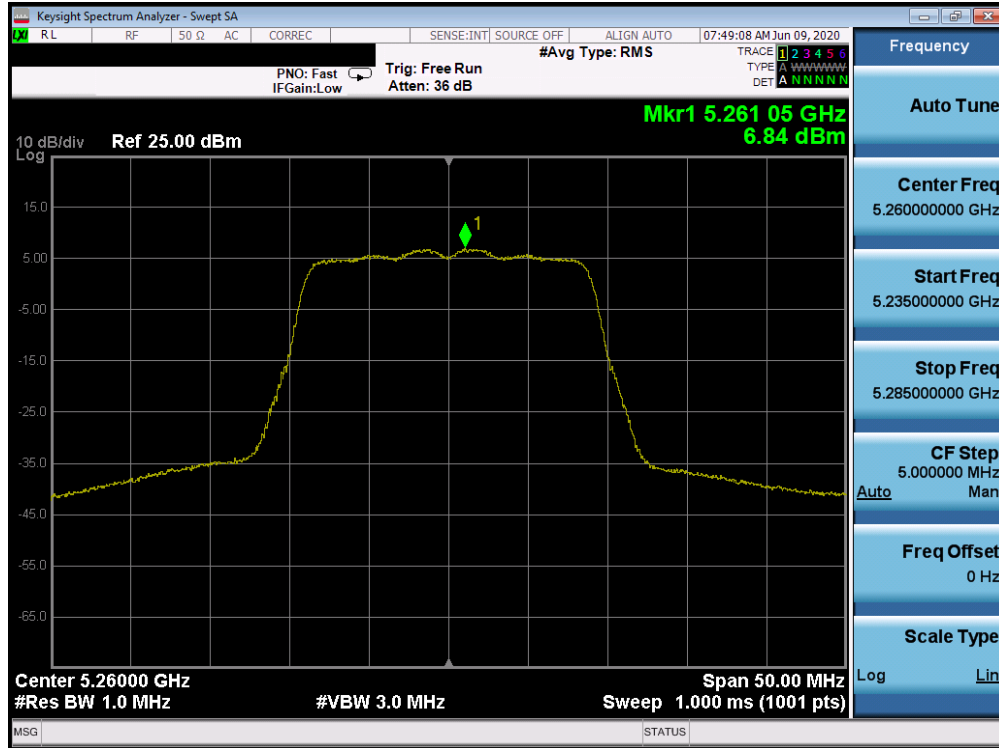


Plot 7-129. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

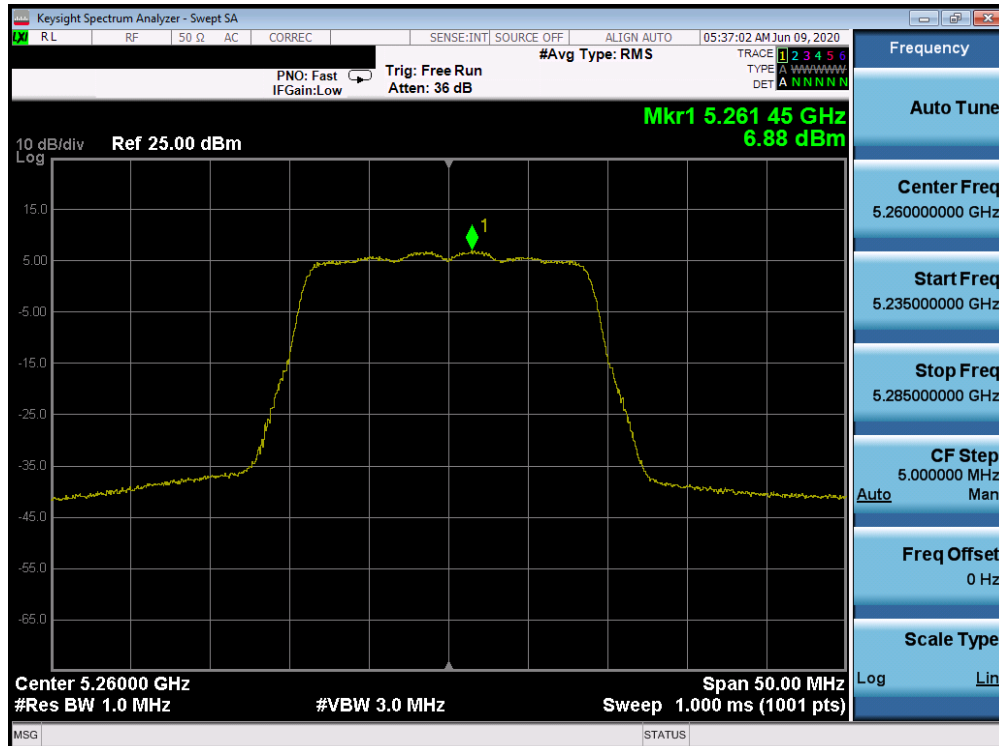


Plot 7-130. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 100 of 210 |

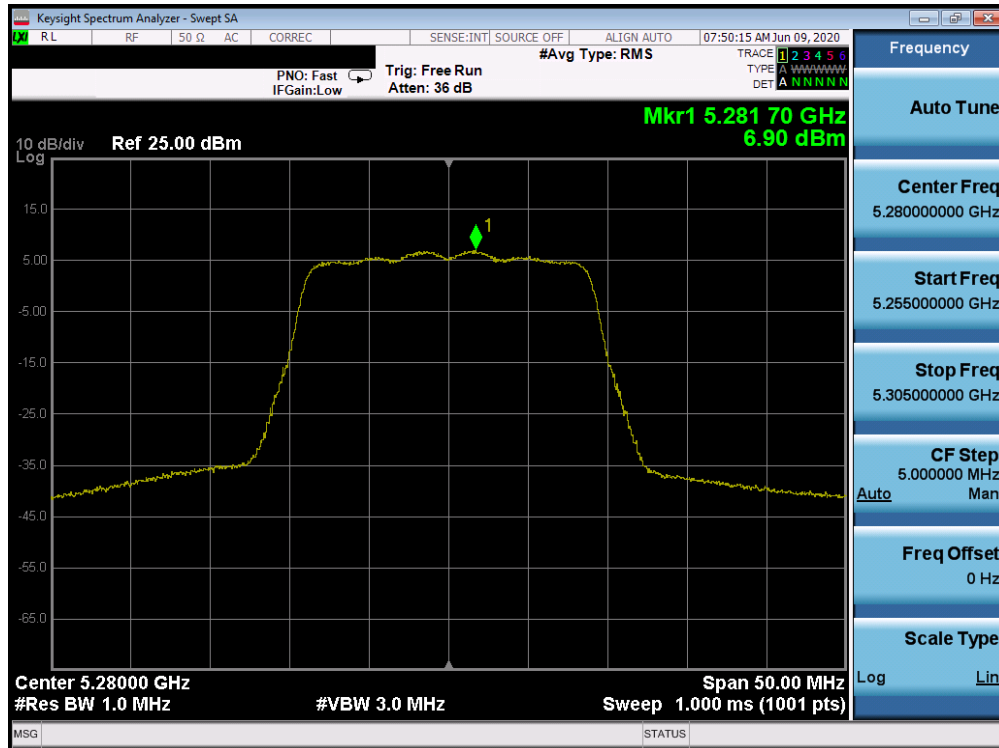


Plot 7-131. Power Spectral Density Plot SDM CORE 0 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

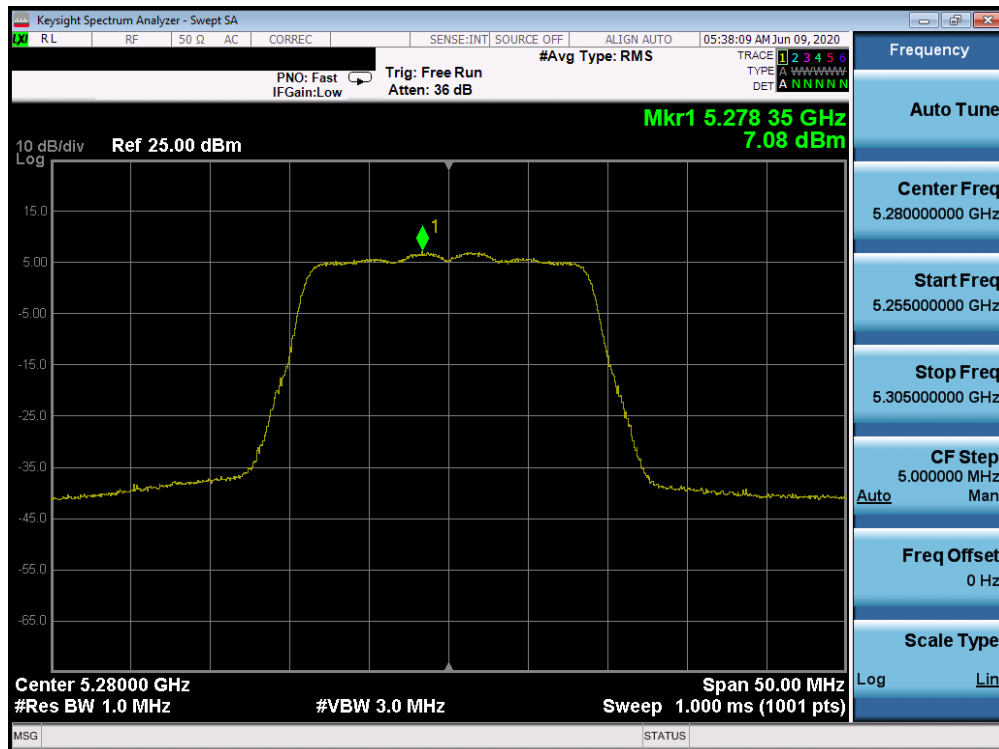


Plot 7-132. Power Spectral Density Plot SDM CORE 1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 101 of 210 |

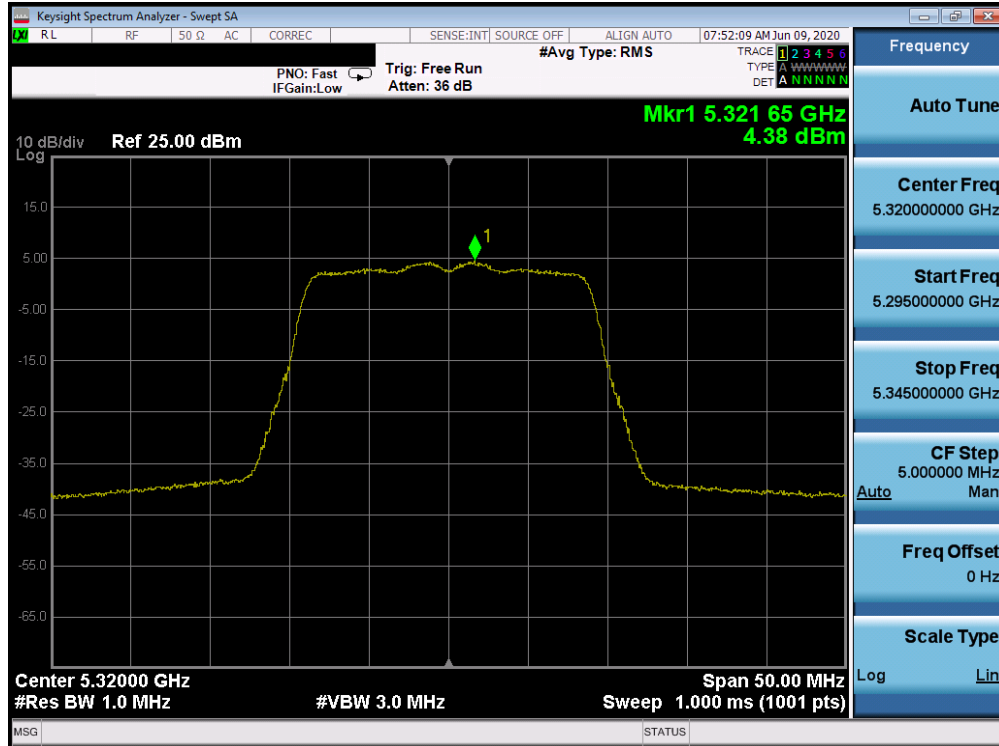


Plot 7-133. Power Spectral Density Plot SDM CORE 0 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

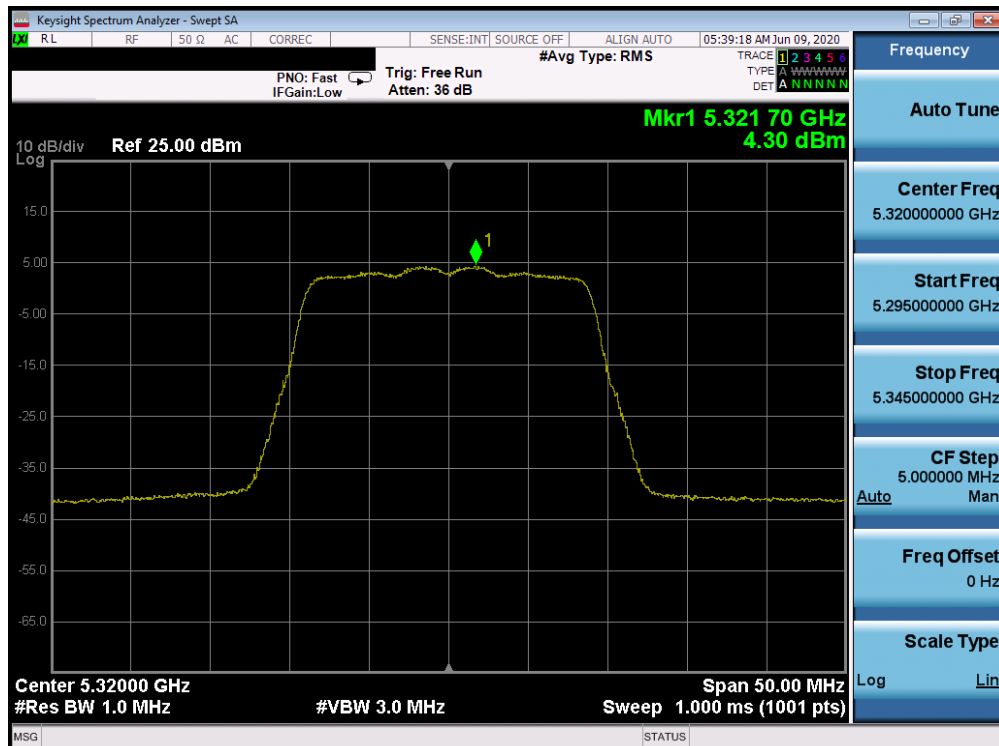


Plot 7-134. Power Spectral Density Plot SDM CORE 1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 102 of 210 |

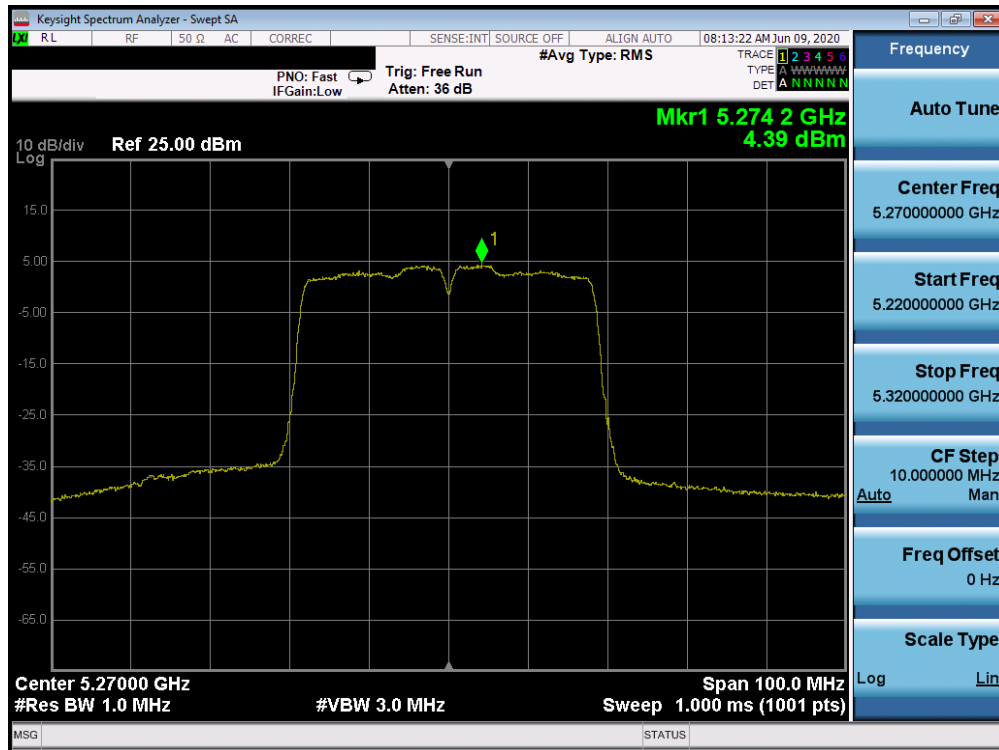


Plot 7-135. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

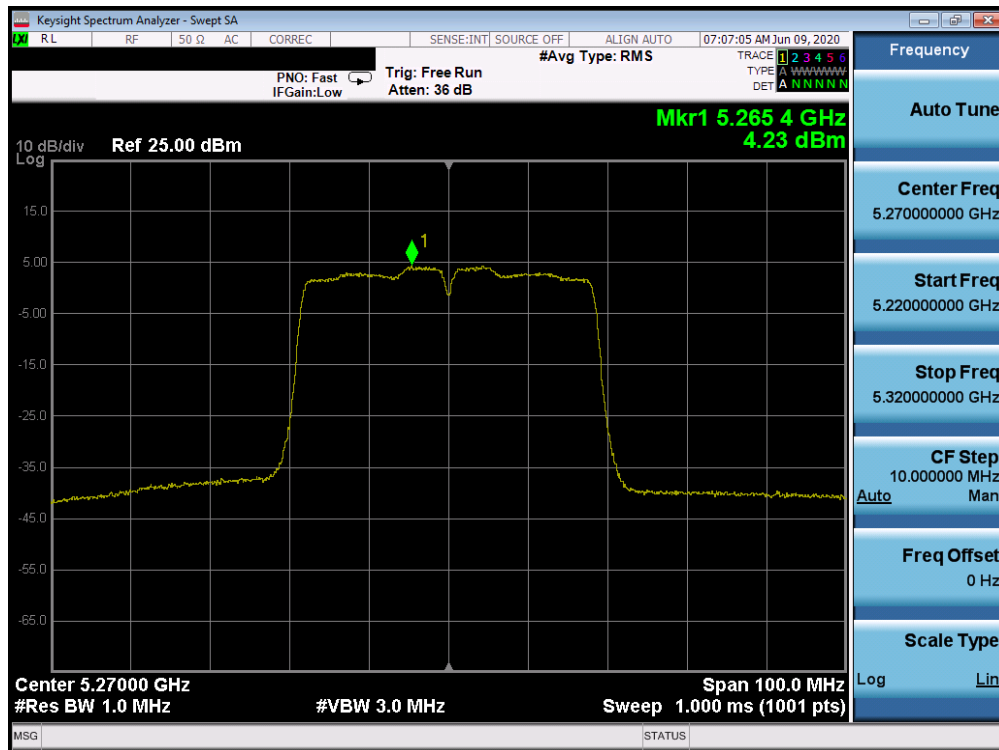


Plot 7-136. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 103 of 210 |

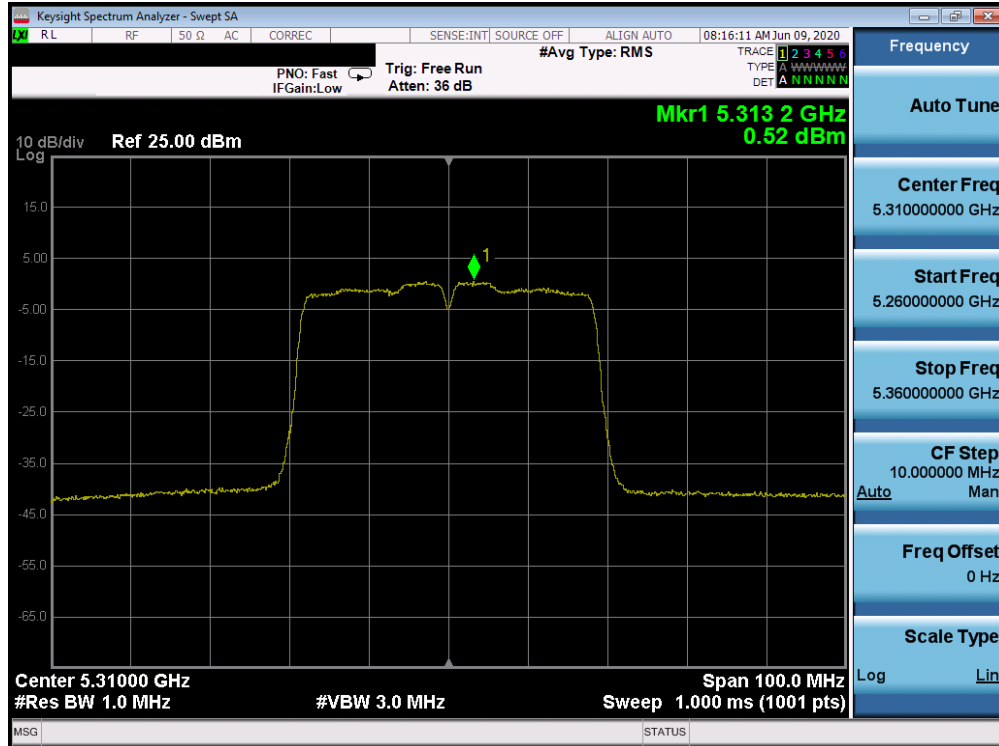


Plot 7-137. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

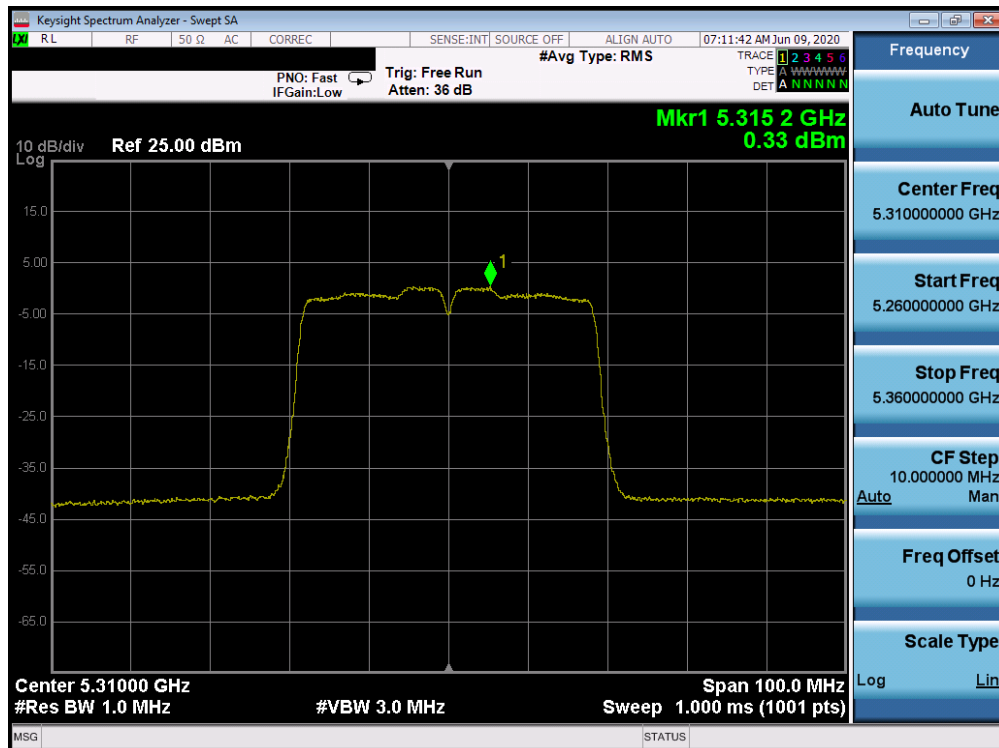


Plot 7-138. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 104 of 210 |

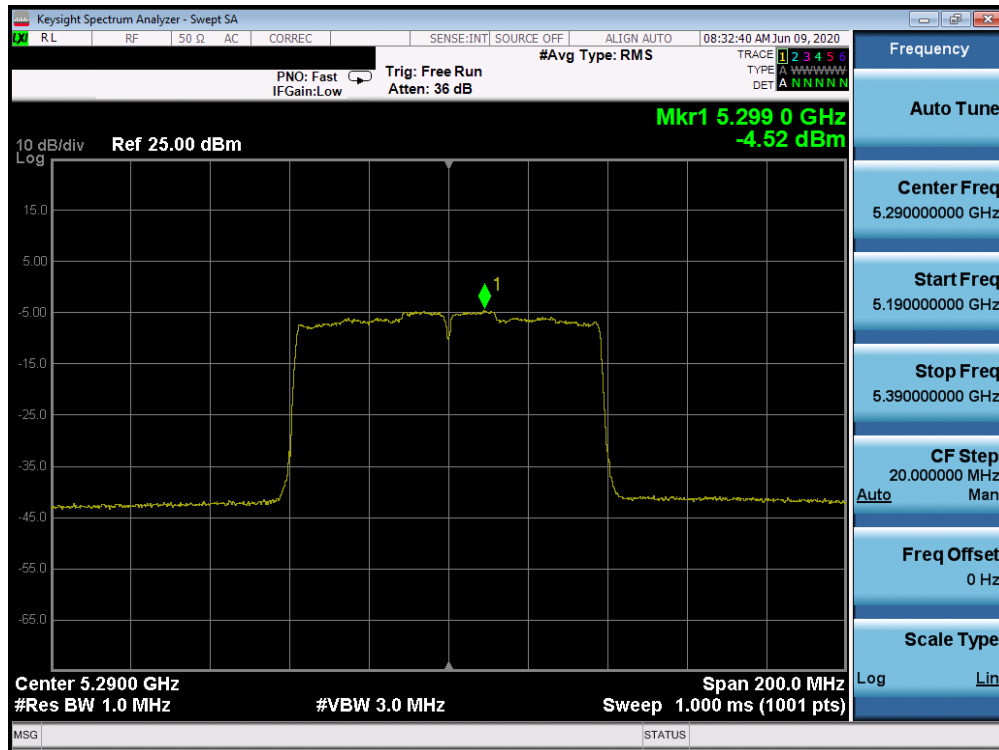


Plot 7-139. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

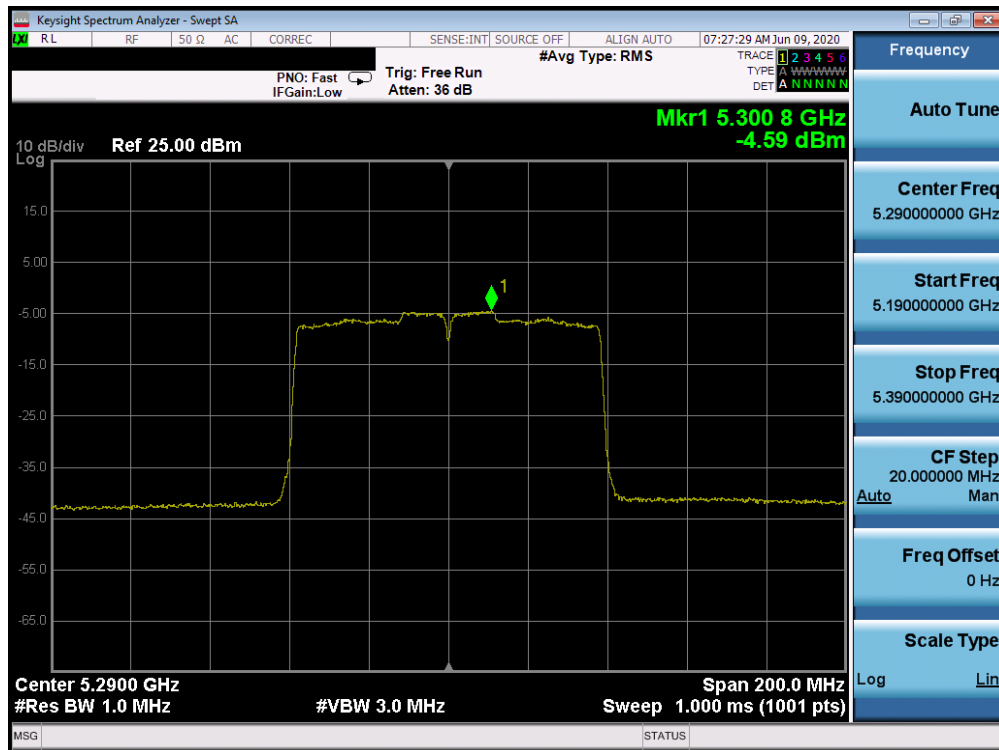


Plot 7-140. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 105 of 210 |

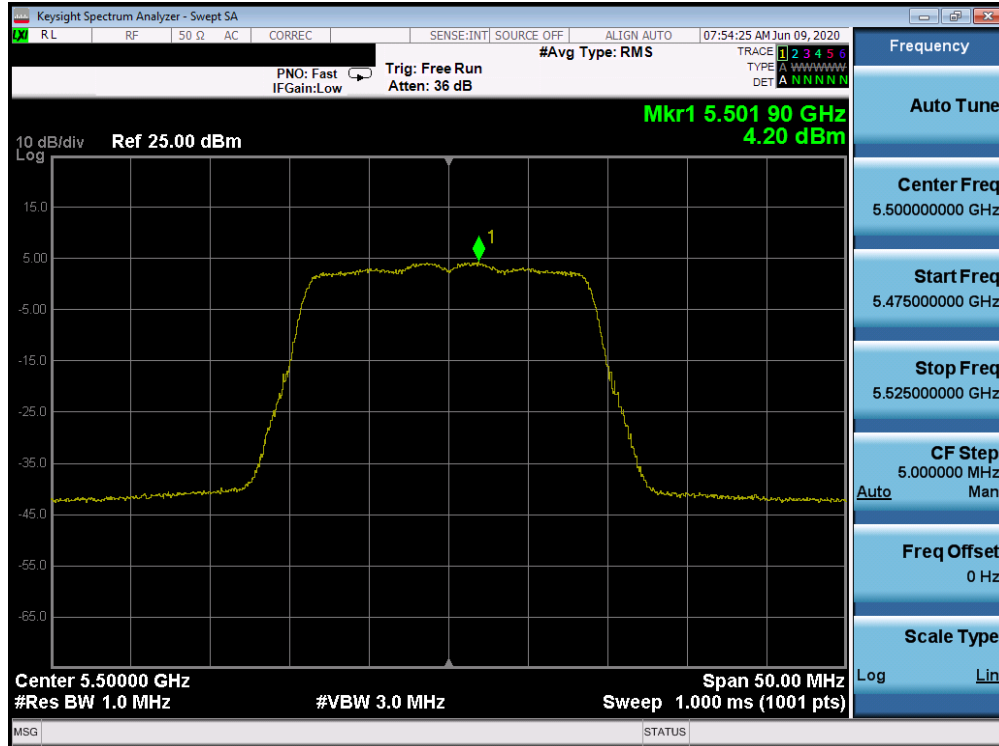


Plot 7-141. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

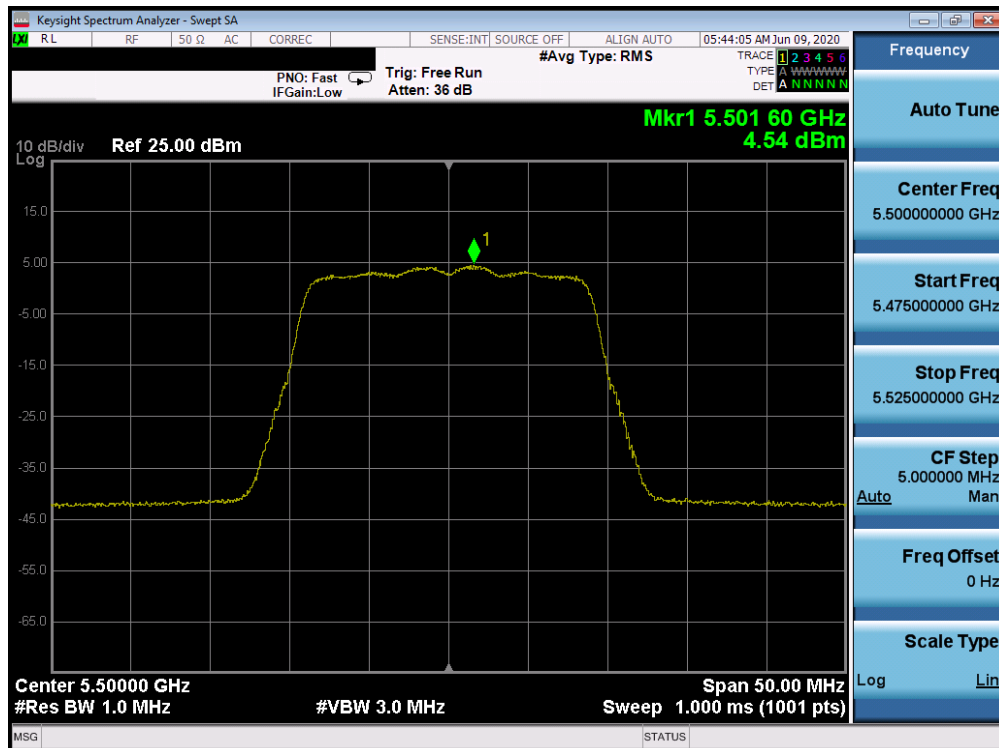


Plot 7-142. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 106 of 210 |

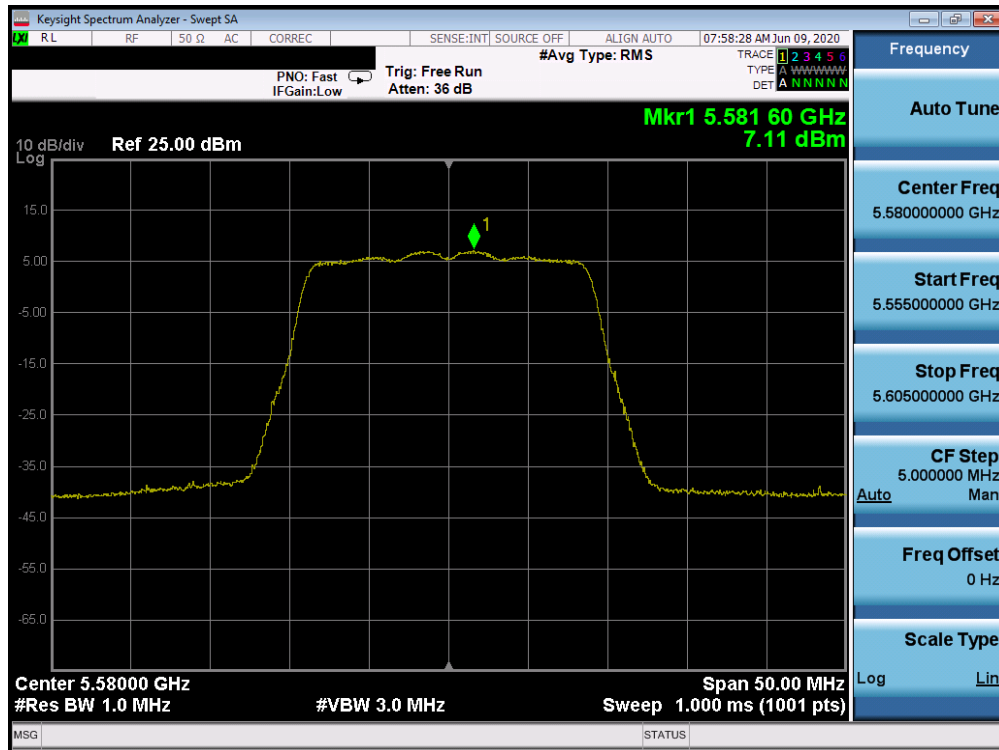


Plot 7-143. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

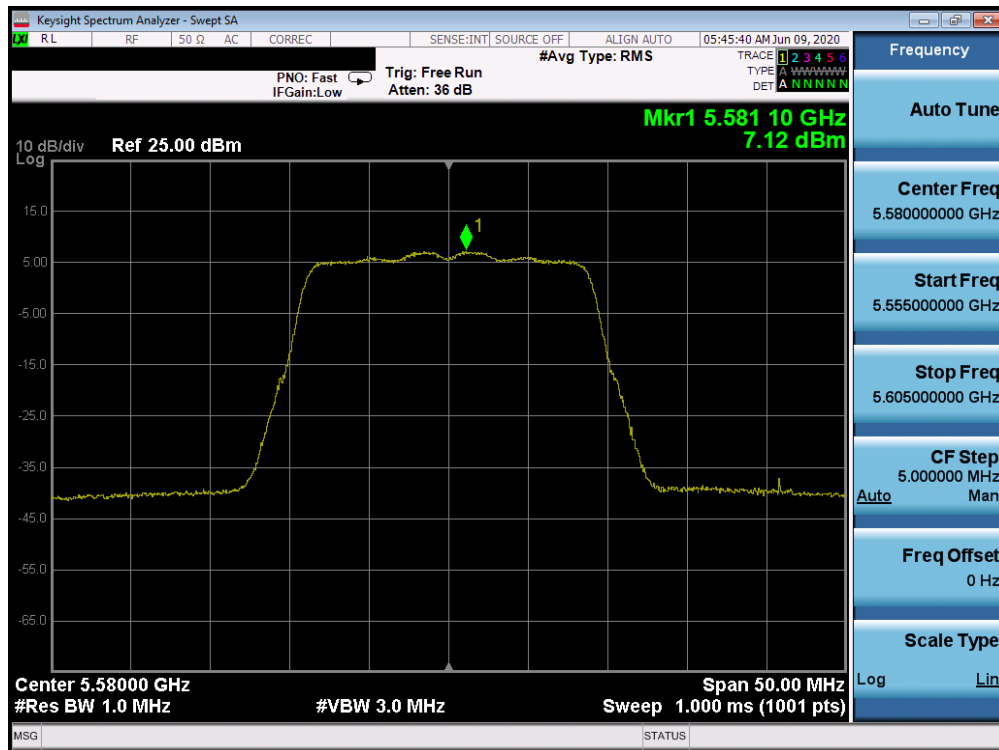


Plot 7-144. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 107 of 210 |



Plot 7-145. Power Spectral Density Plot SDM CORE 0 (20MHz BW 802.11n (UNII Band 2C) – Ch. 116

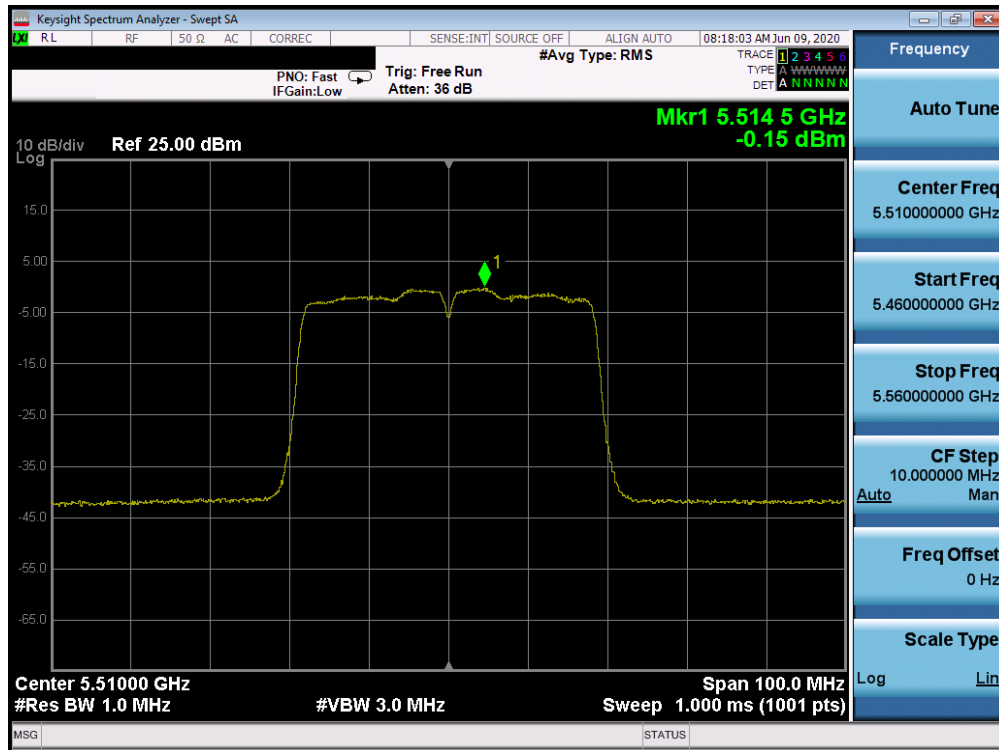


Plot 7-146. Power Spectral Density Plot SDM CORE 1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

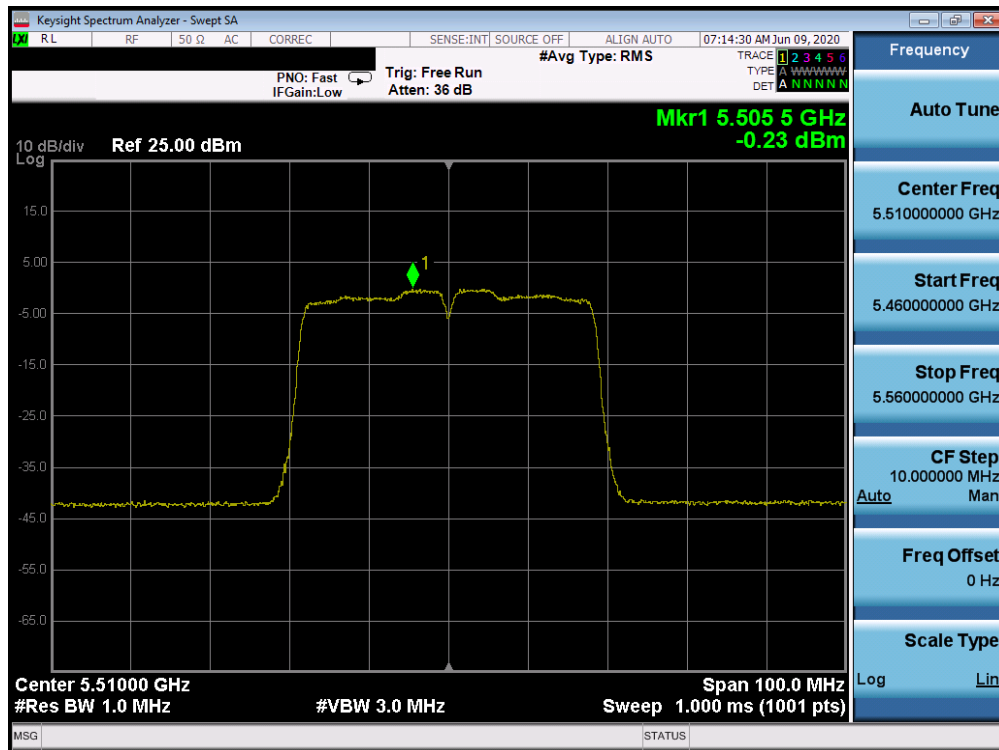
| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 108 of 210 |



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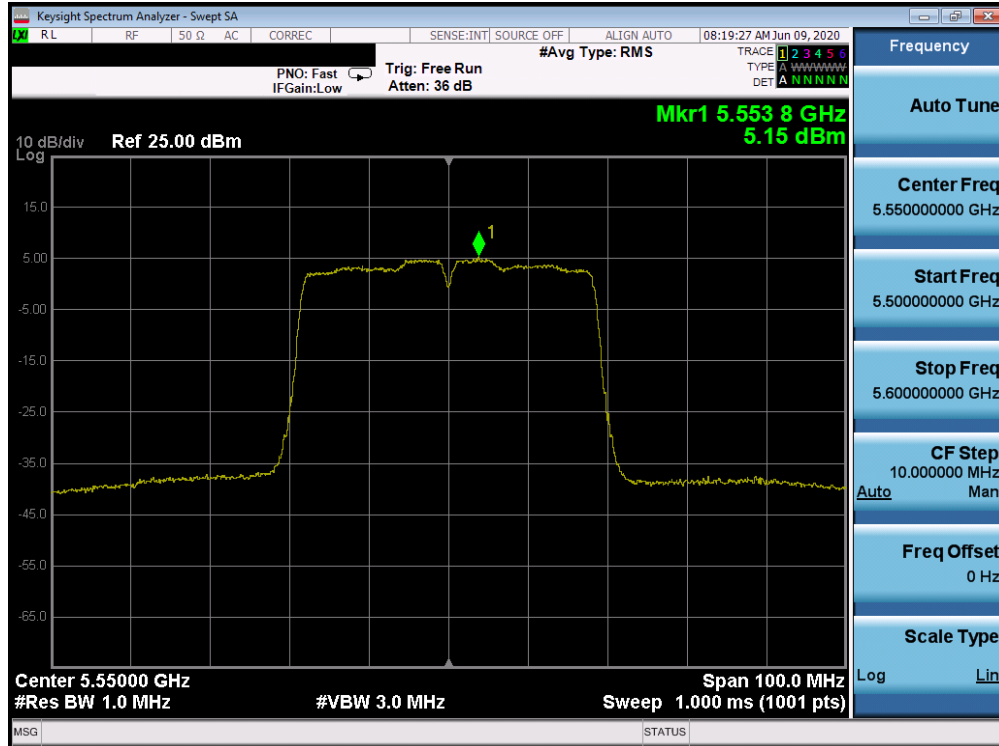


Plot 7-149. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

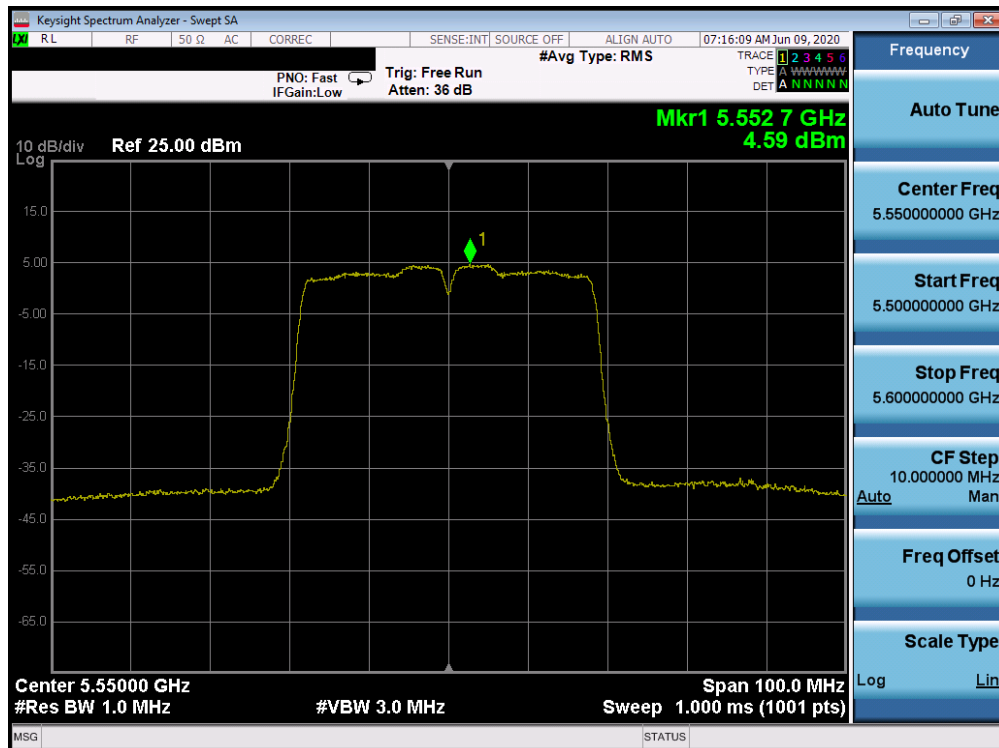


Plot 7-150. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 110 of 210 |

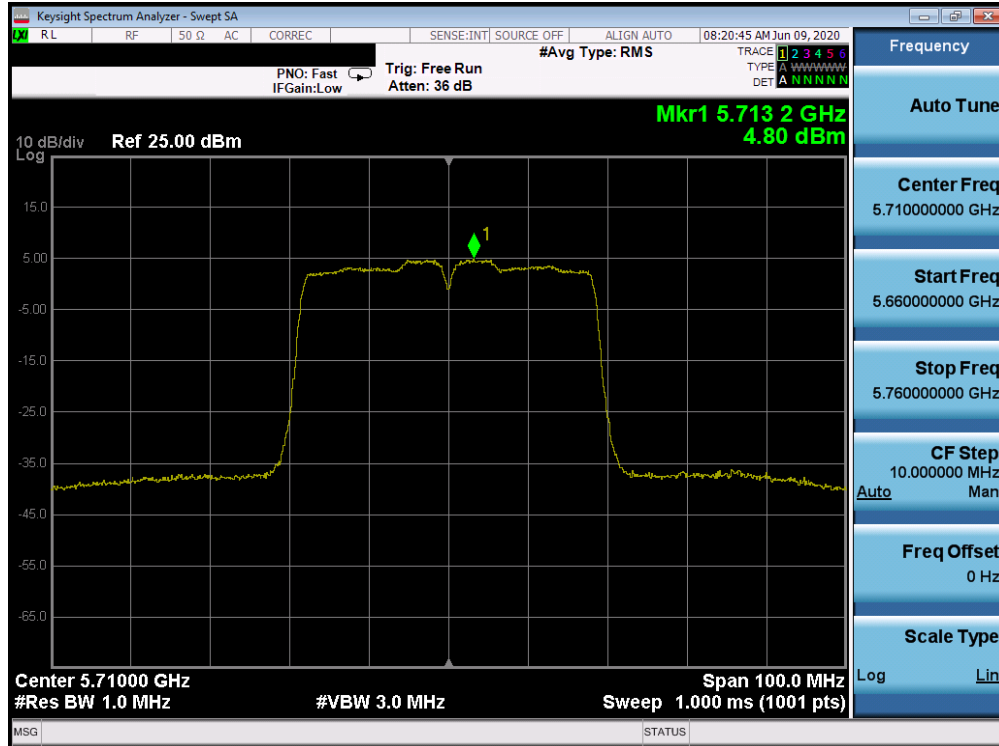


Plot 7-151. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

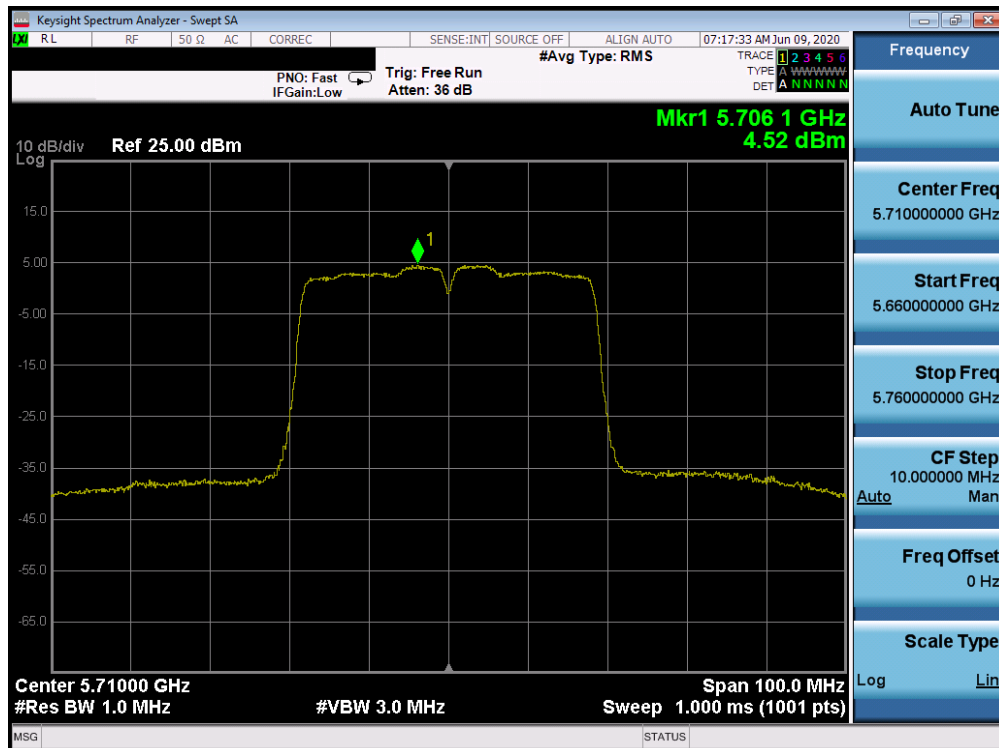


Plot 7-152. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 111 of 210 |



Plot 7-153. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

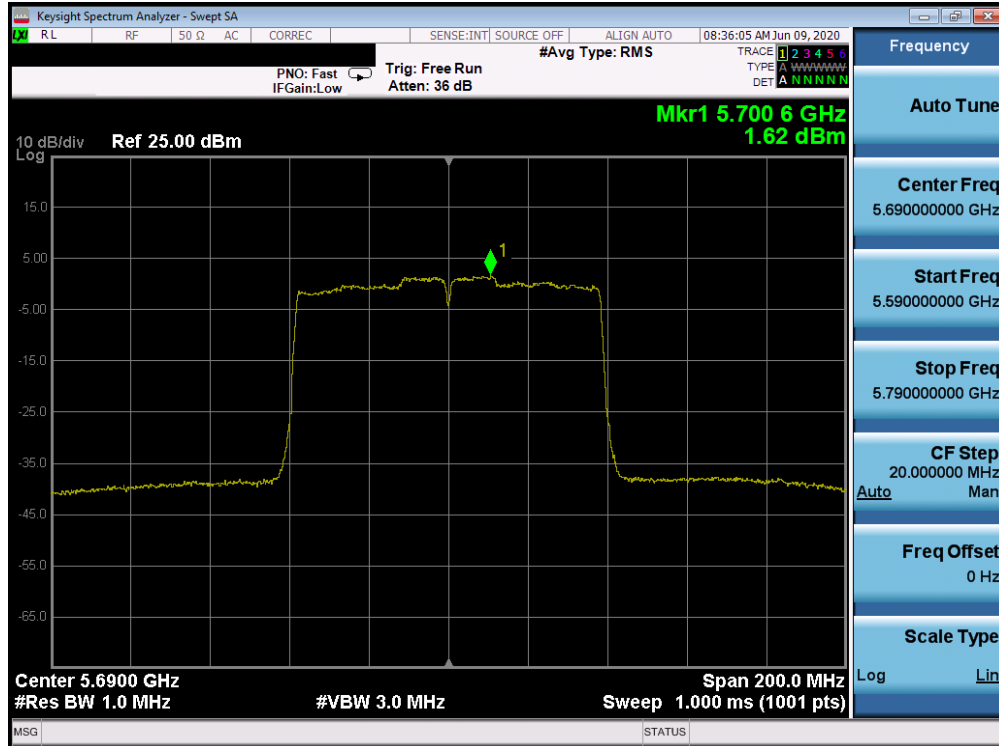


Plot 7-154. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

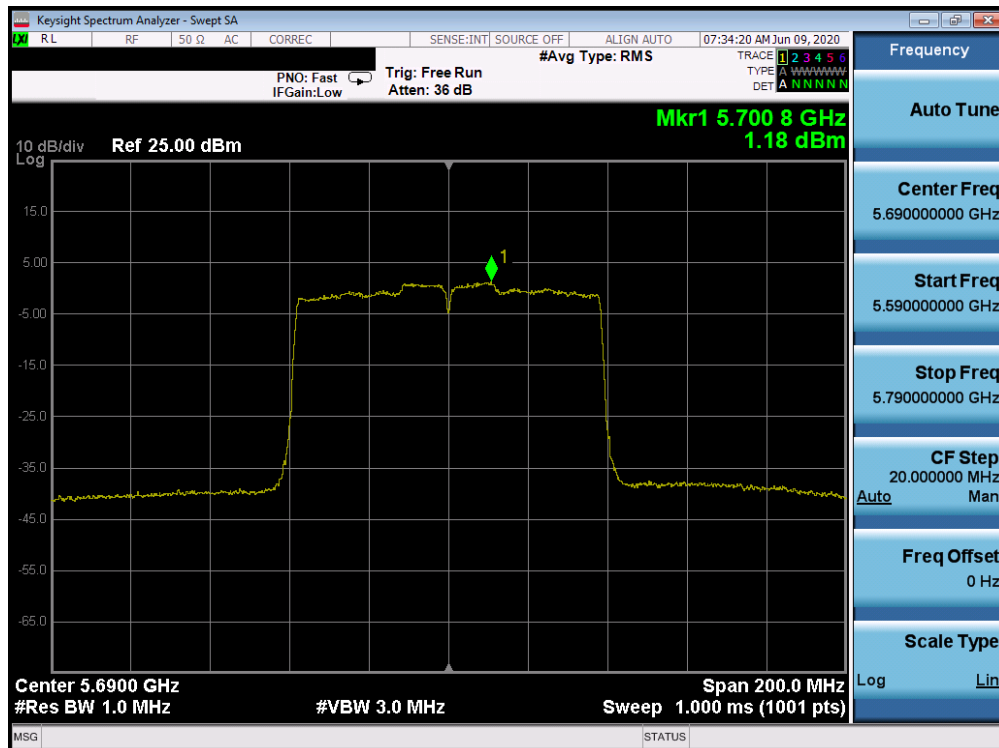
| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 112 of 210 |



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Plot 7-157. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)



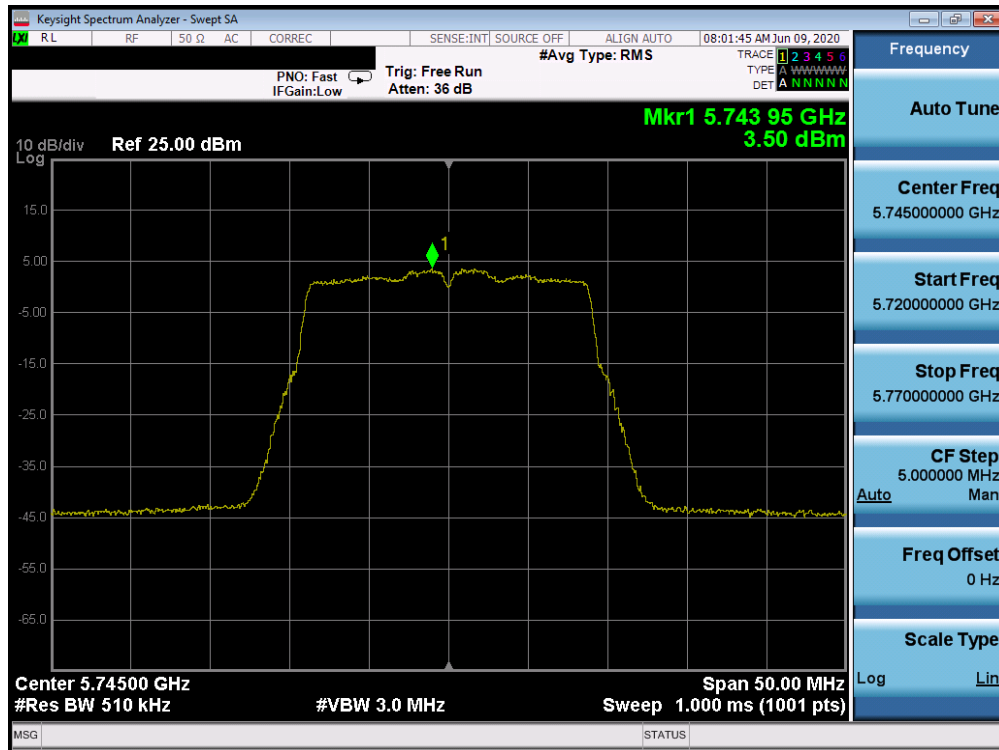
Plot 7-158. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 114 of 210 |

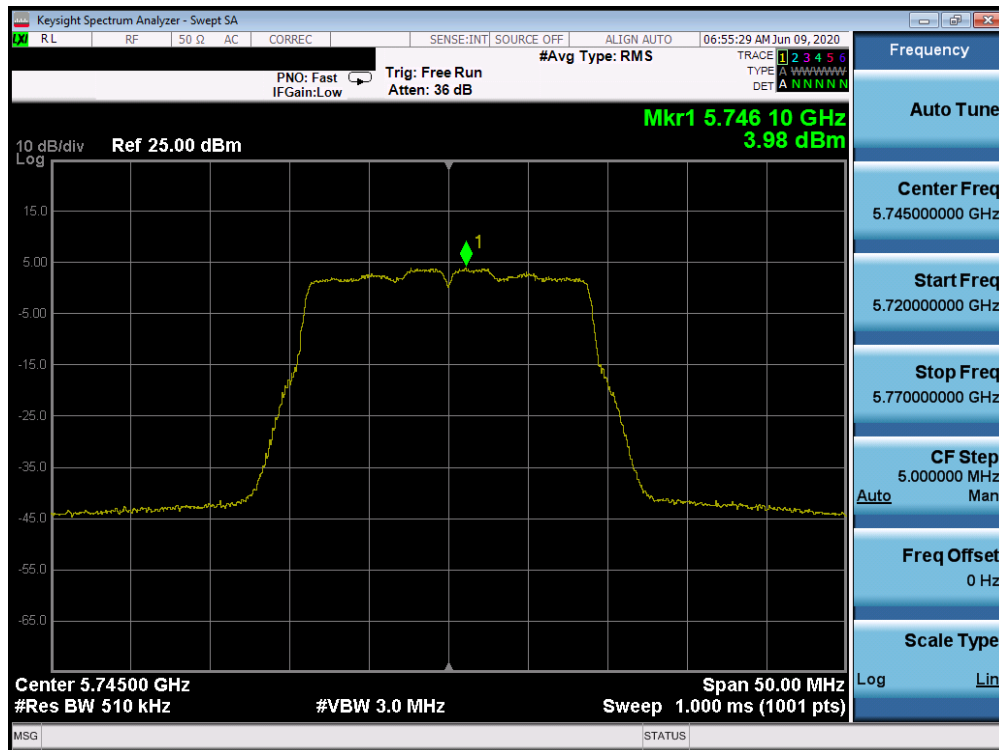
| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Core 0 Power Density [dBm/500kHz] | Core 1 Power Density [dBm/500kHz] | Summed Power Density [dBm/500kHz] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|-------------|
| Band 3 | 5745 | 149 | n (20MHz) | 6.5/7.2 (MCS0) | 3.50 | 3.98 | 6.76 | 30.0 | -23.24 |
| | 5785 | 157 | n (20MHz) | 6.5/7.2 (MCS0) | 3.42 | 3.53 | 6.49 | 30.0 | -23.51 |
| | 5825 | 165 | n (20MHz) | 6.5/7.2 (MCS0) | 3.63 | 3.89 | 6.77 | 30.0 | -23.23 |
| | 5755 | 151 | n (40MHz) | 13.5/15 (MCS0) | 0.77 | 1.20 | 4.00 | 30.0 | -26.00 |
| | 5795 | 159 | n (40MHz) | 13.5/15 (MCS0) | 0.52 | 0.85 | 3.70 | 30.0 | -26.30 |
| | 5775 | 155 | ac (80MHz) | 29.3/32.5 (MCS0) | -3.00 | -2.92 | 0.05 | 30.0 | -29.95 |

Table 7-34. Band 3 CDD Conducted Power Spectral Density Measurements

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 |  PCTEST Proud to be part of  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 115 of 210 |

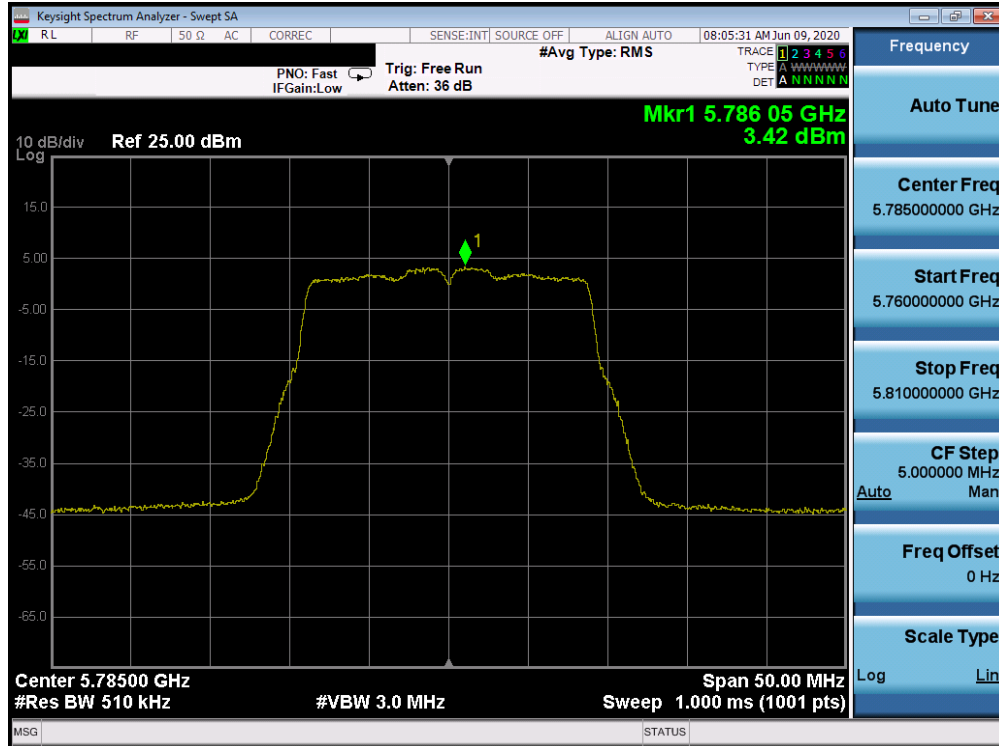


Plot 7-159. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

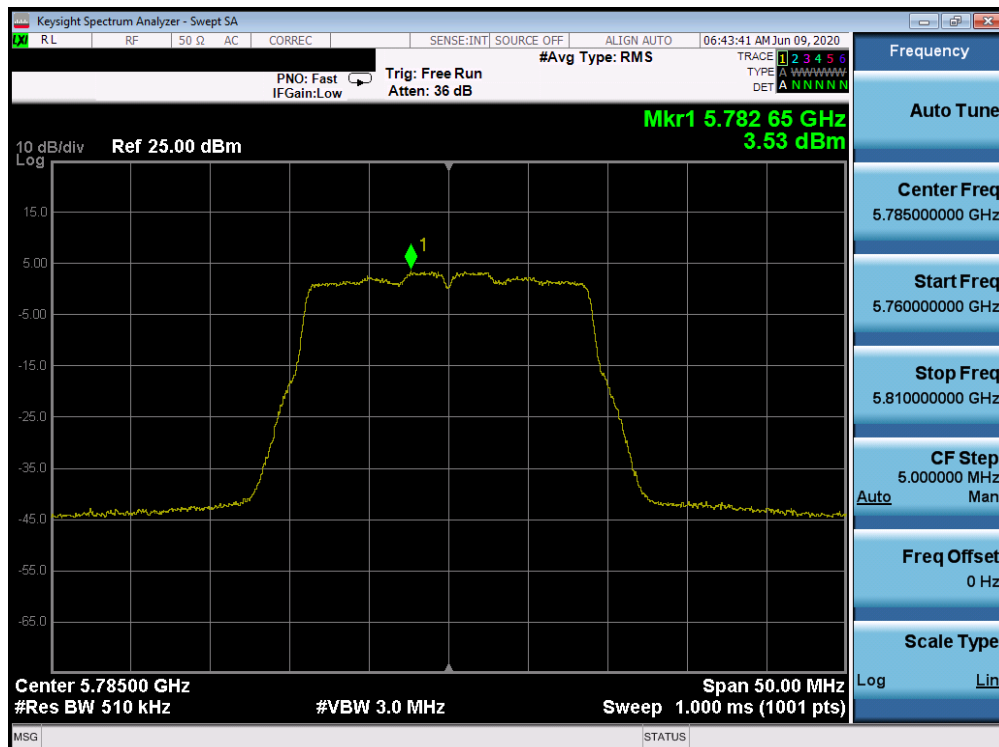


Plot 7-160. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 116 of 210 |

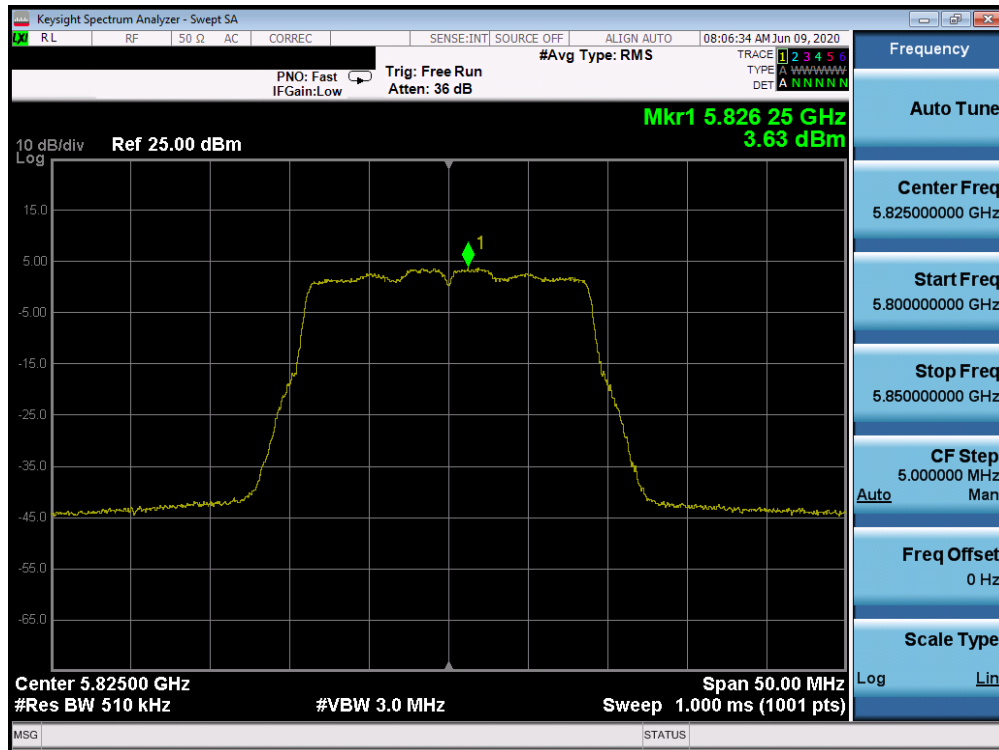


Plot 7-161. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

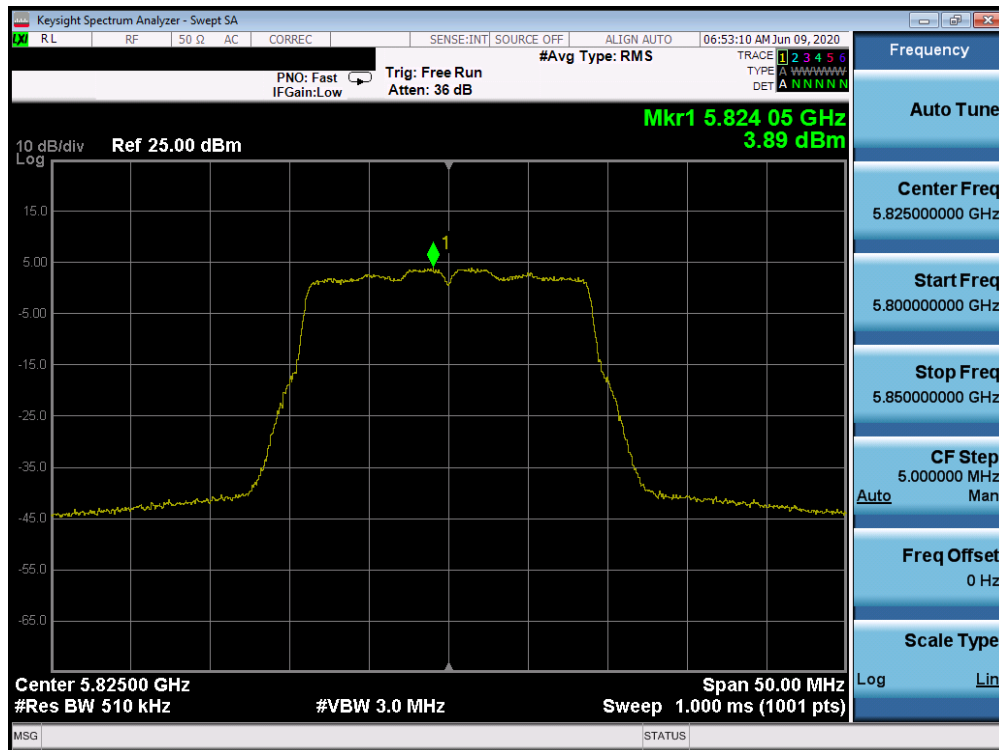


Plot 7-162. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 117 of 210 |

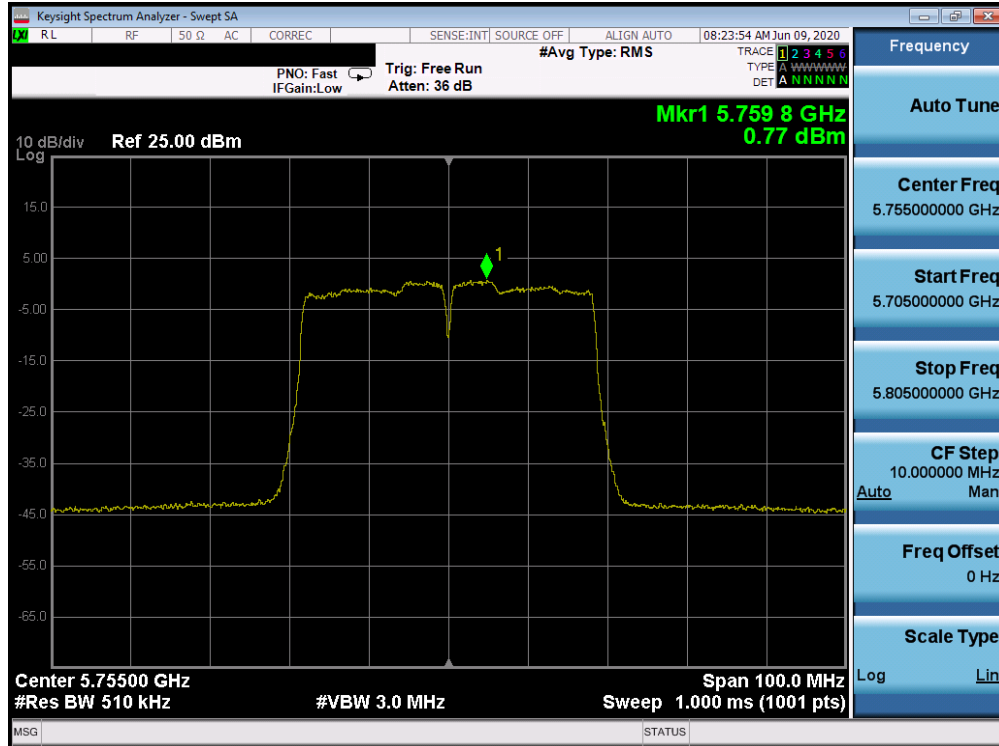


Plot 7-163. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

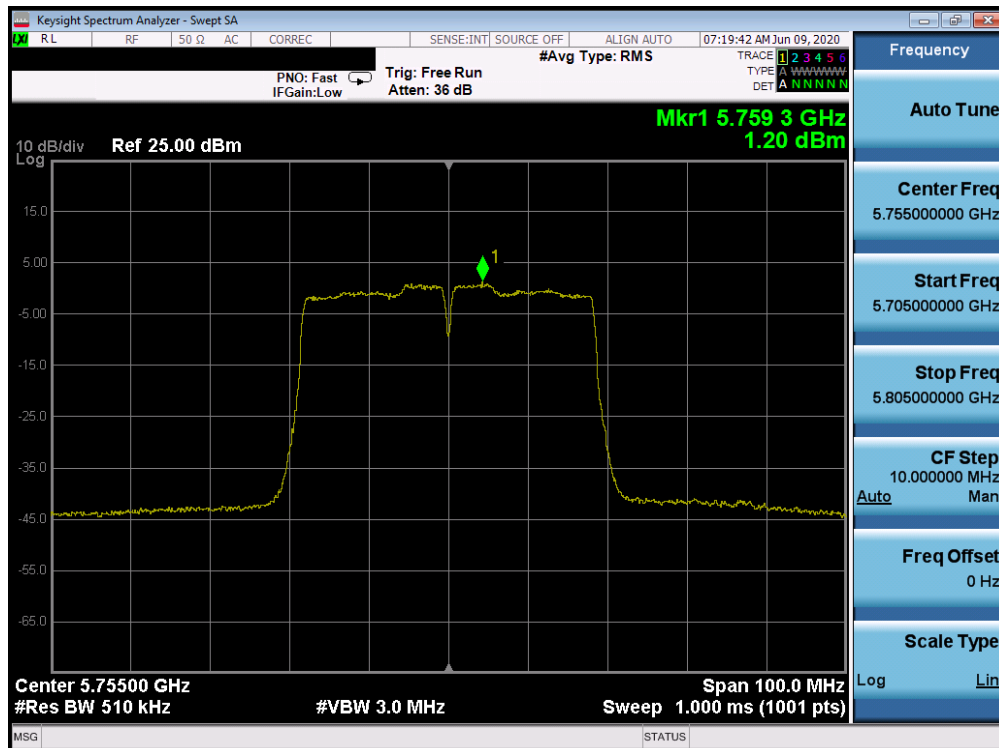


Plot 7-164. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 118 of 210 |

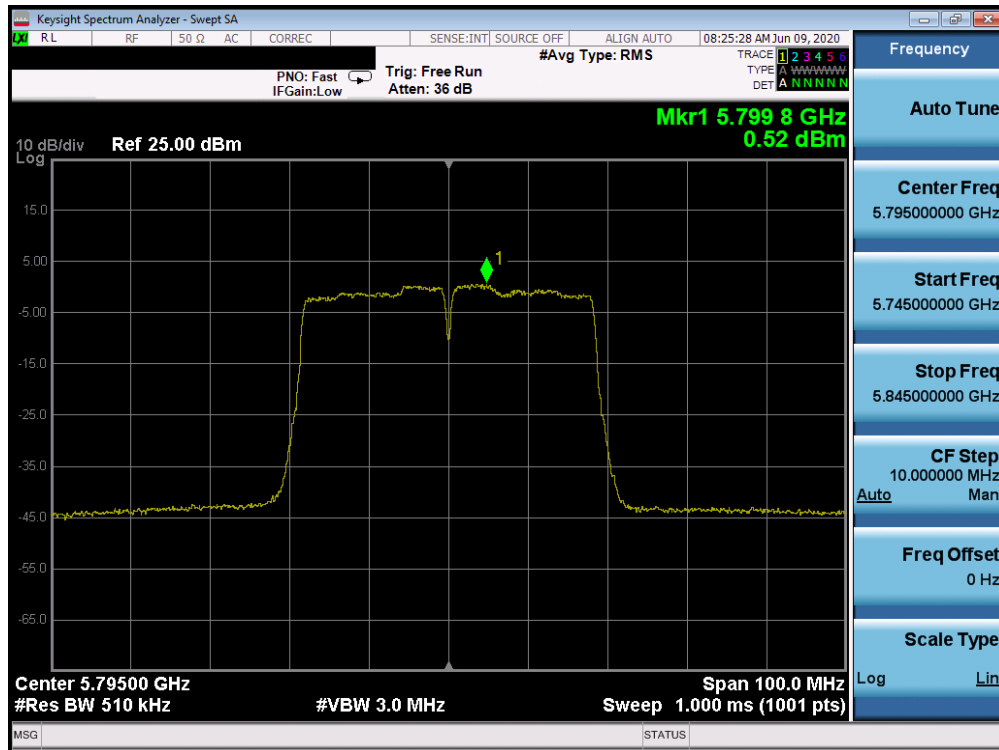


Plot 7-165. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

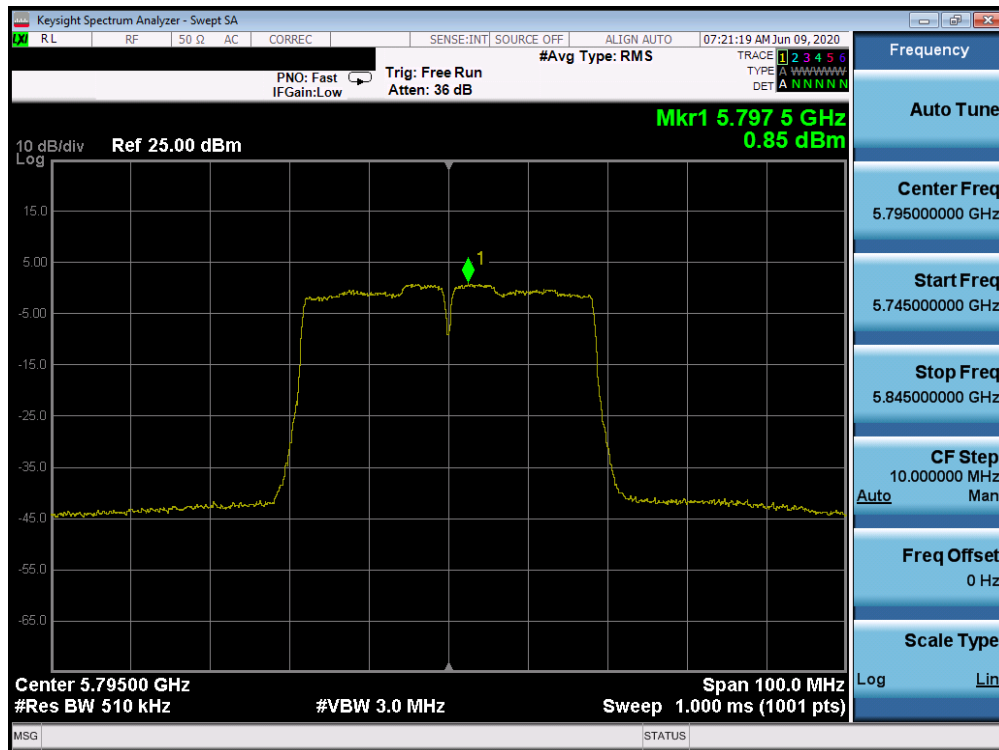


Plot 7-166. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 119 of 210 |

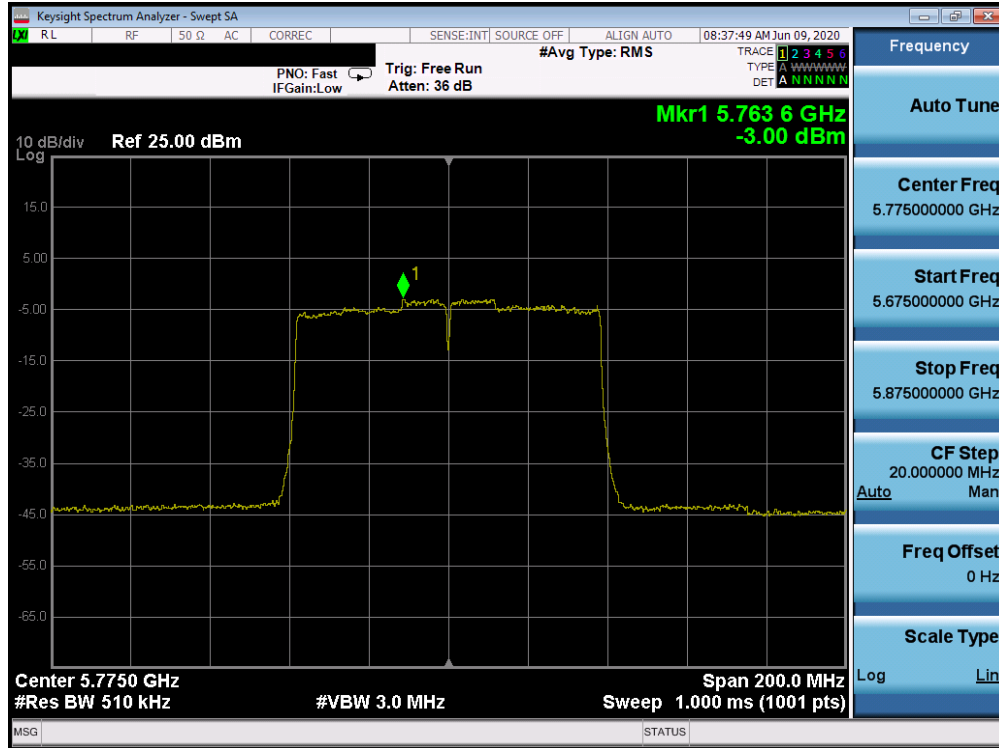


Plot 7-167. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

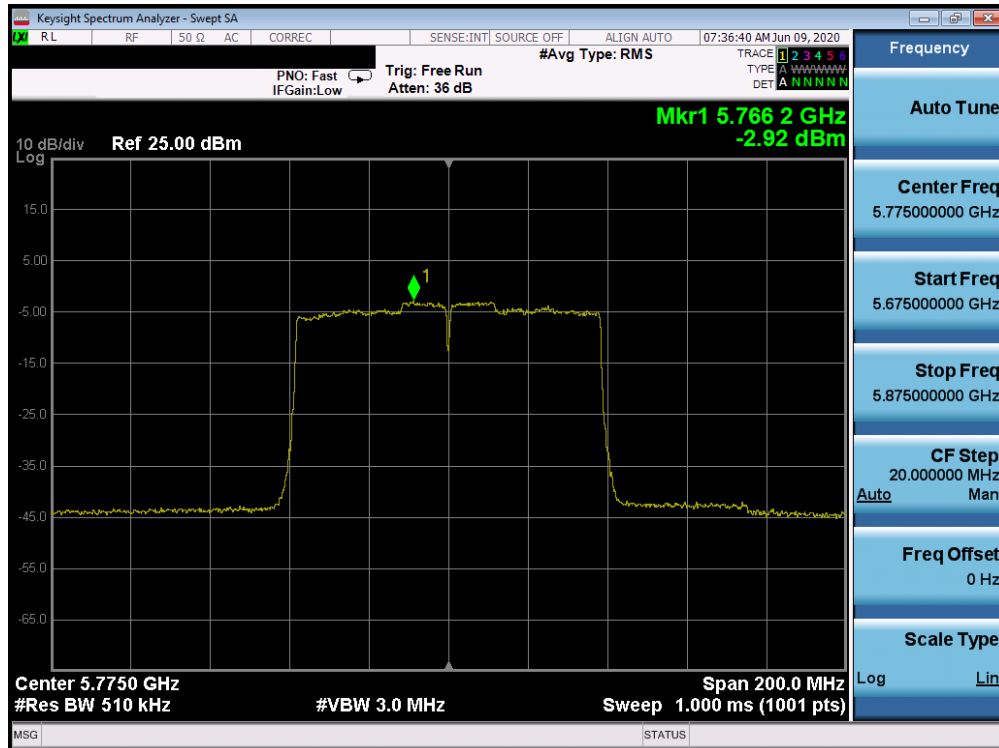


Plot 7-168. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 120 of 210 |



Plot 7-169. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-170. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

| | | | |
|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 121 of 210 |

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 CDD/SDM Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 4.25 dBm for Core-0 and 4.44 dBm for Core-1.

$$\text{Antenna 1} + \text{Antenna 2} = \text{CDD/SDM}$$

$$(4.25 \text{ dBm} + 4.44 \text{ dBm}) = (2.66 \text{ mW} + 2.78 \text{ mW}) = 5.44 \text{ mW} = 7.36 \text{ dBm}$$

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

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 7.36 dBm with directional gain of 4.99 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$7.36 \text{ dBm} + 4.99 \text{ dBi} = 9.17 \text{ dBm}$$

| | | | |
|---|--|---|--|
| FCC ID: BCGA2428 |  PCTEST Proud to be part of  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 122 of 210 |

7.6 Radiated Spurious Emissions – 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 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-35 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 7-35. 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: BCGA2428 |  PCTEST Proud to be part of  | 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

Test Setup

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

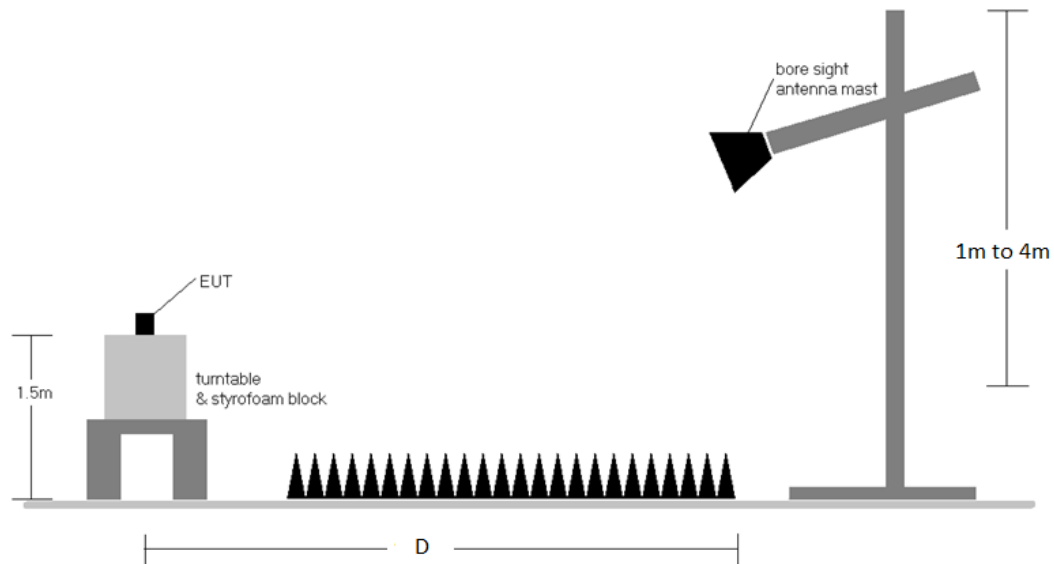


Figure 7-5. Test Instrument & Measurement Setup

| | | | |
|---|--|---|--|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | 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 7-35.
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 7-35. 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. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. 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.
8. 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] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

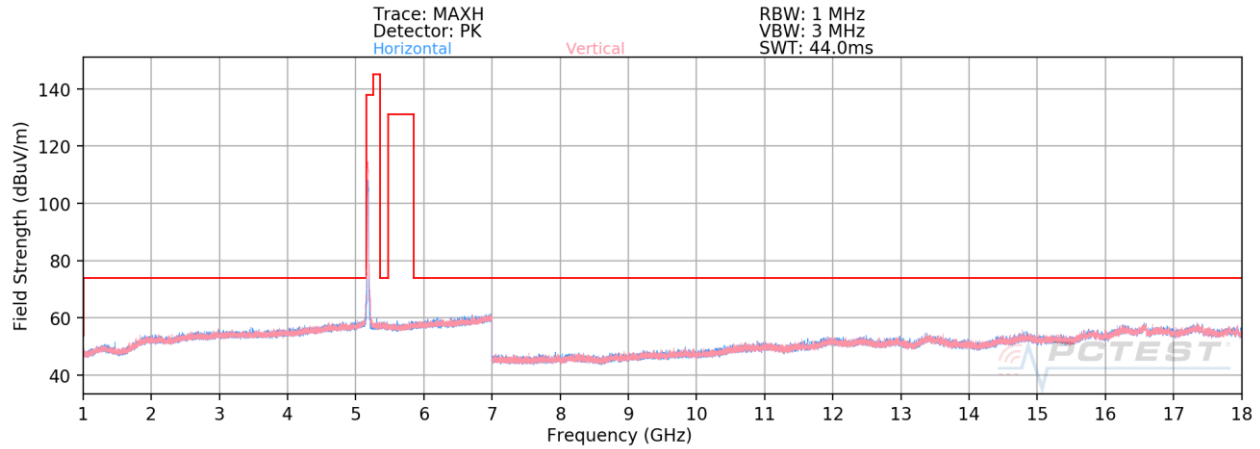
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:

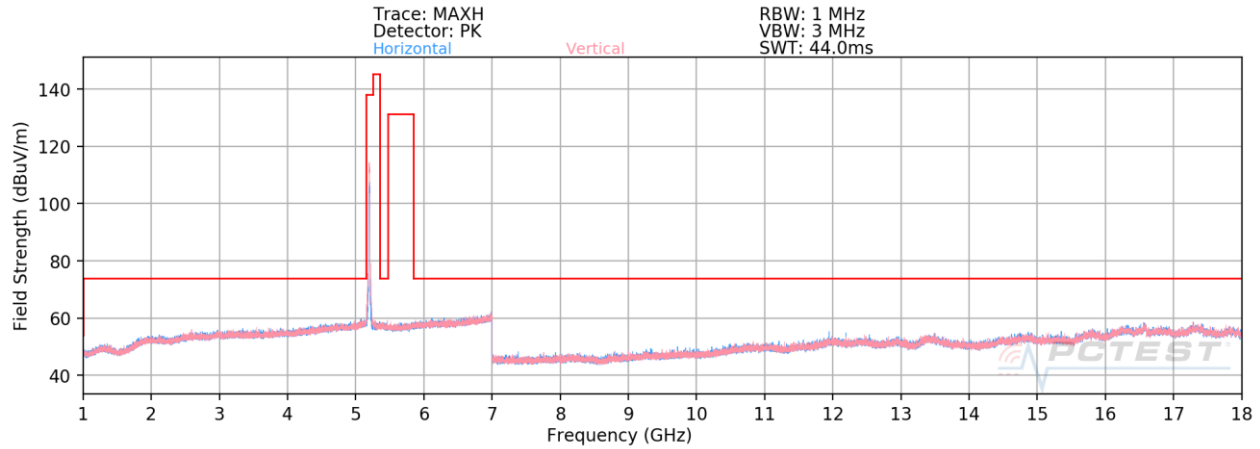
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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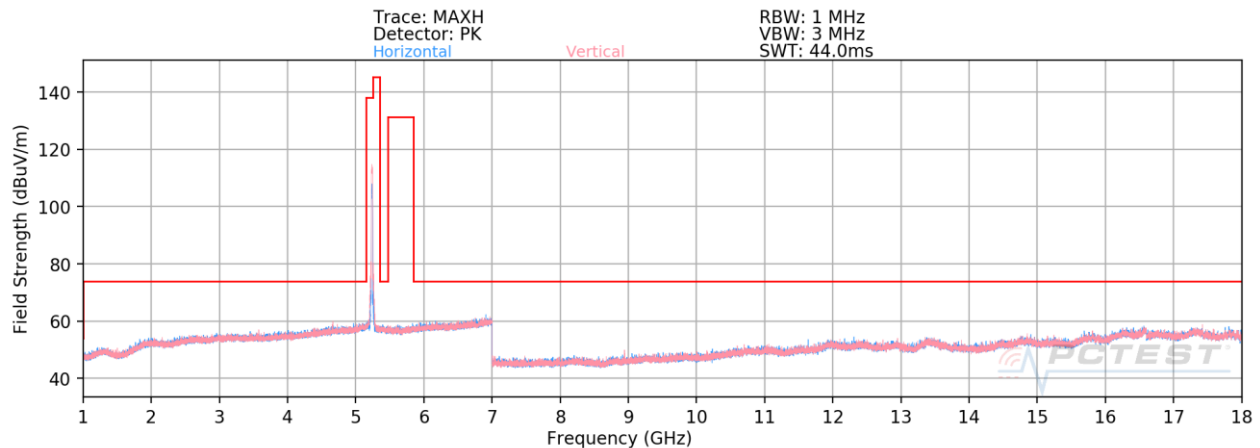
7.6.1 SISO Core-0 Radiated Spurious Emission Measurements



Plot 7-171. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U1 Ch. 36)

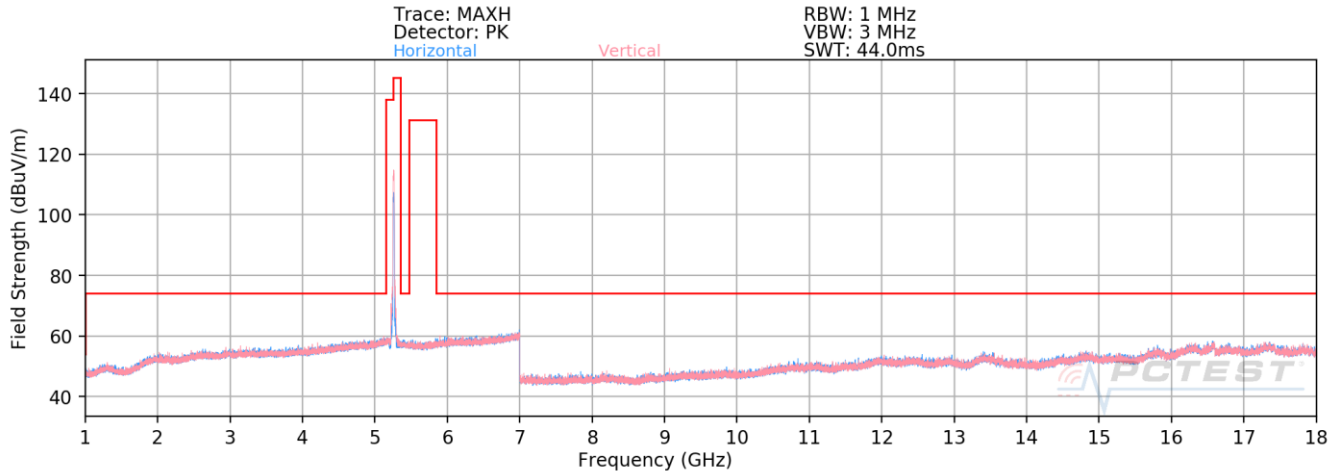


Plot 7-172. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U1 Ch. 40)

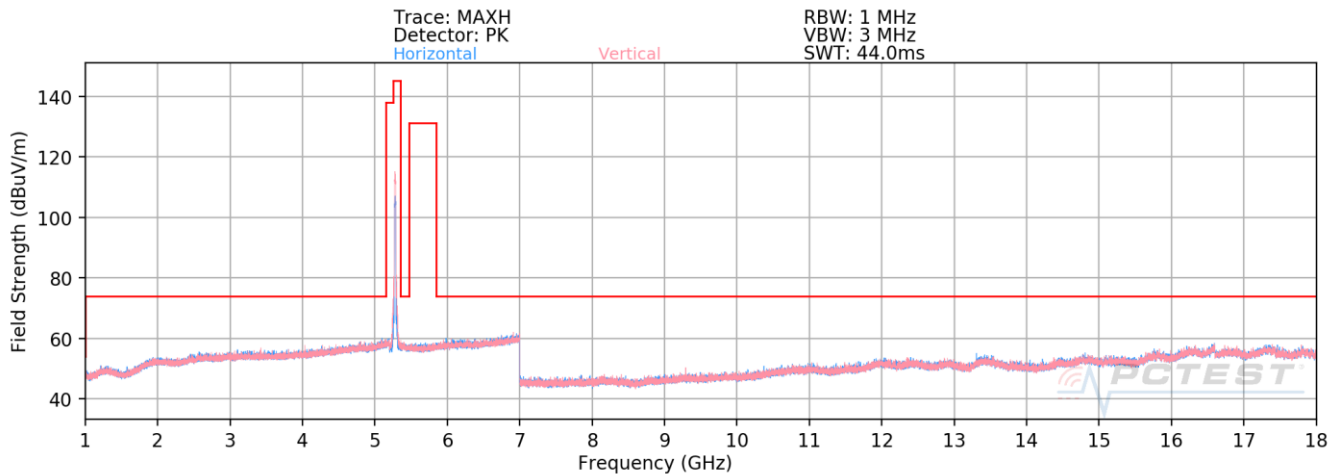


Plot 7-173. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U1 Ch. 48)

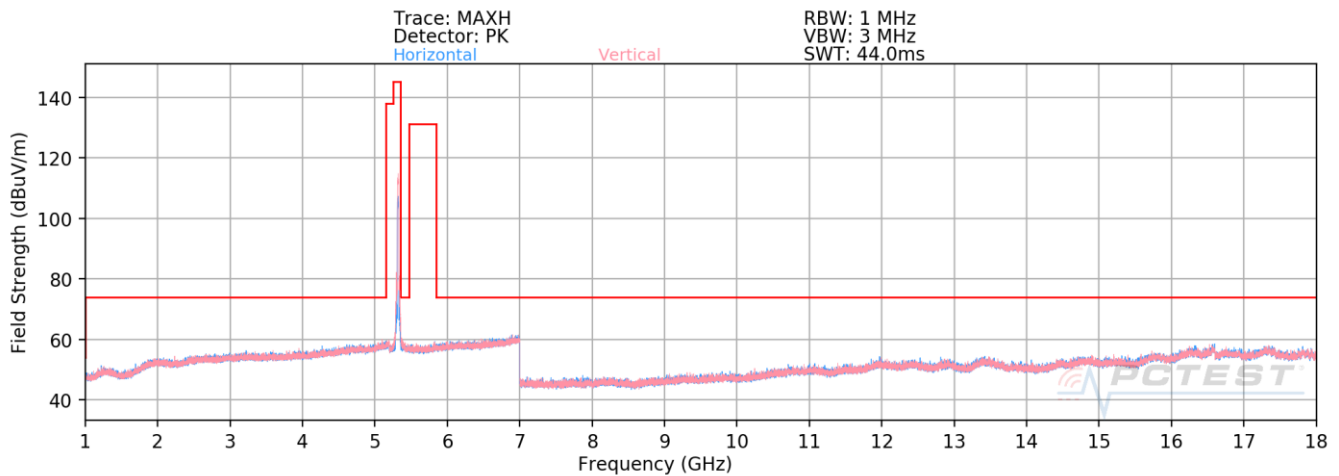
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Plot 7-174. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U2A Ch. 52)

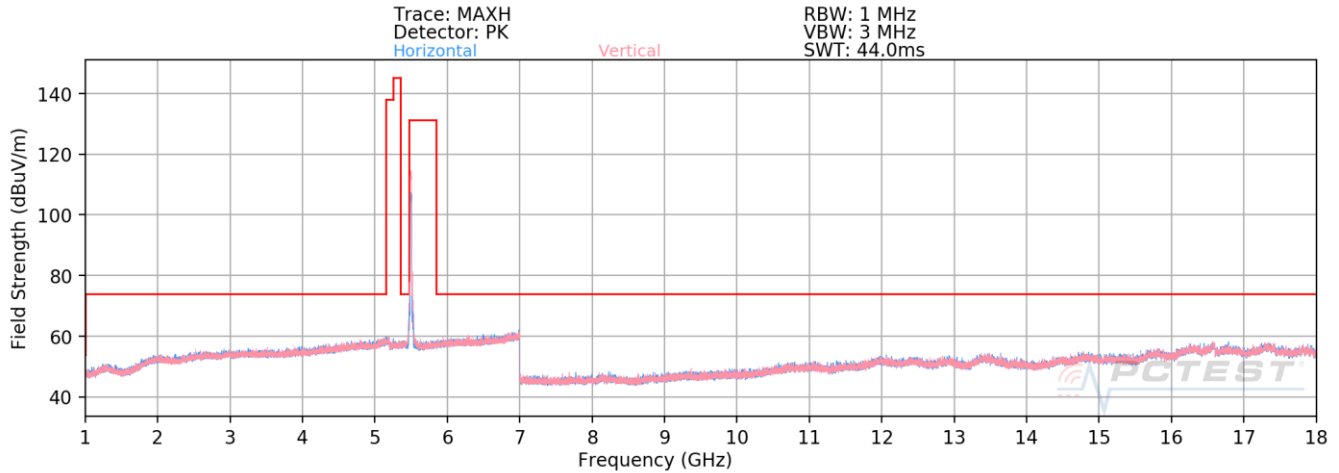


Plot 7-175. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U2A Ch. 56)

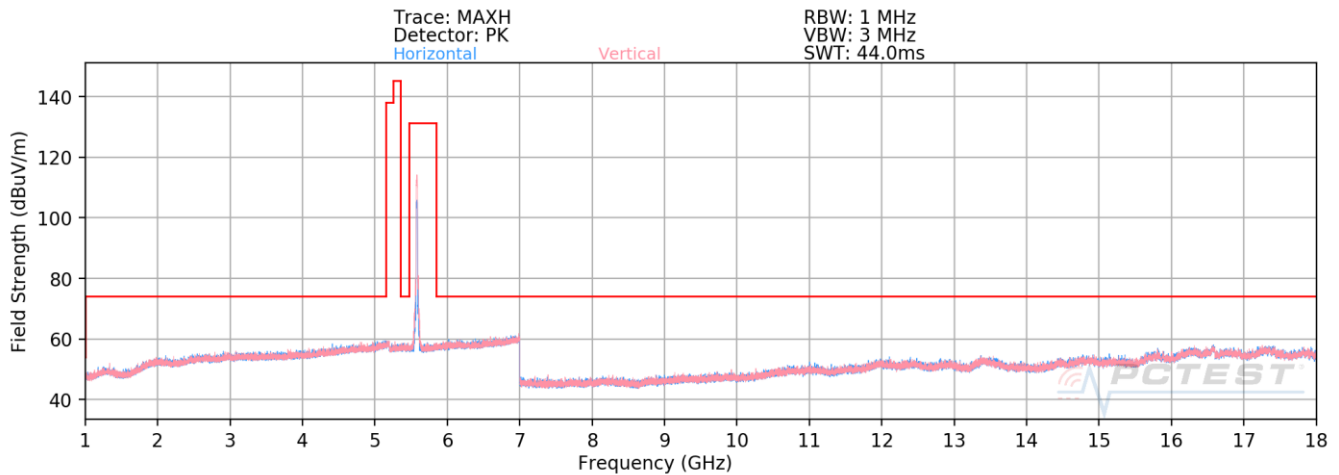


Plot 7-176. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U2A Ch. 64)

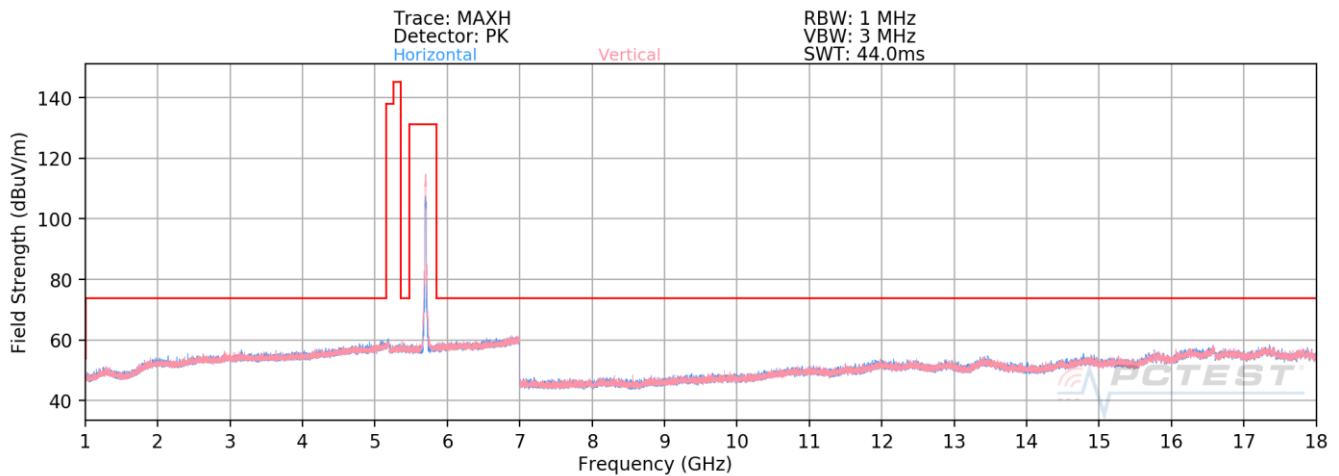
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| FCC ID: BCGA2428 |  | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 127 of 210 |



Plot 7-177. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U2C Ch. 100)

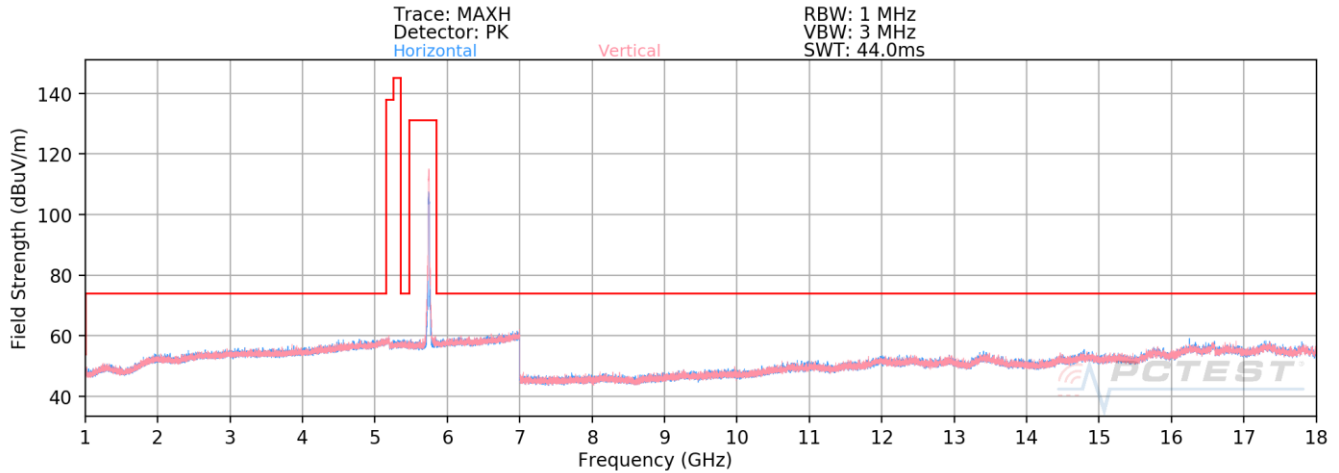


Plot 7-178. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U2C Ch. 116)

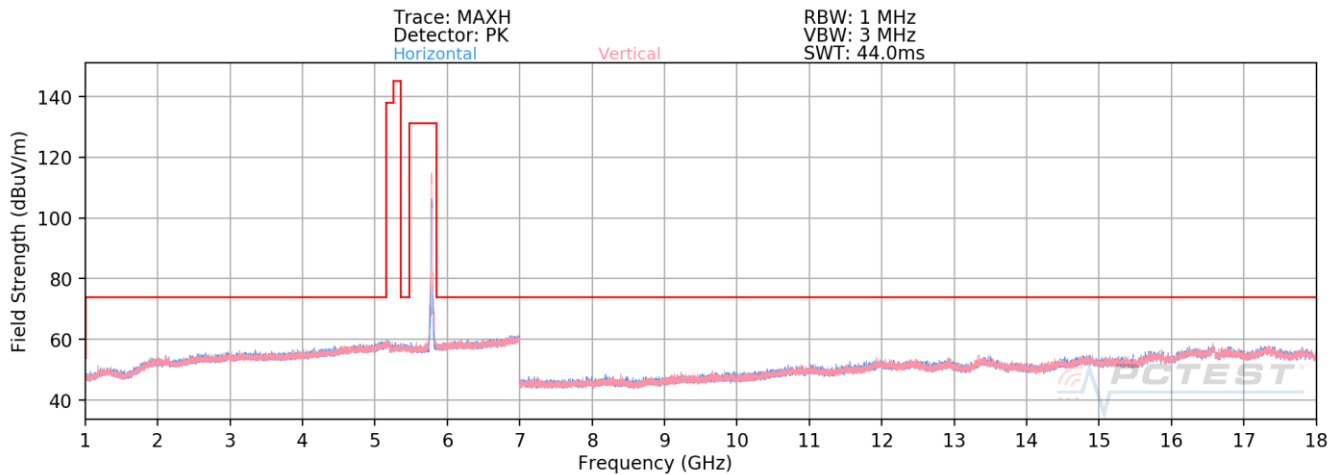


Plot 7-179. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U2C Ch. 144)

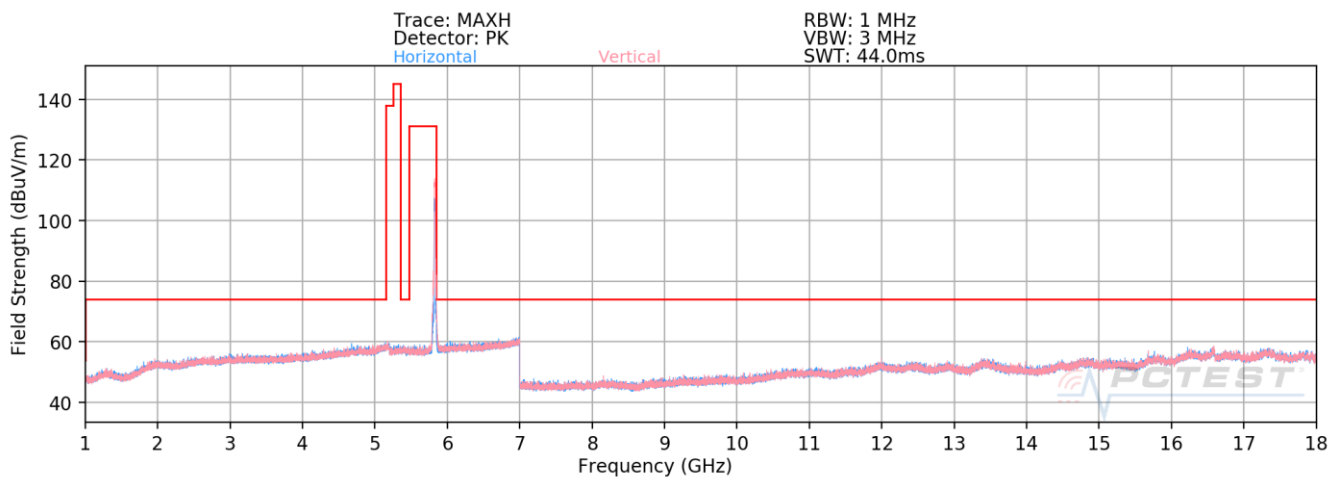
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| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 128 of 210 |



Plot 7-180. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U3 Ch. 149)



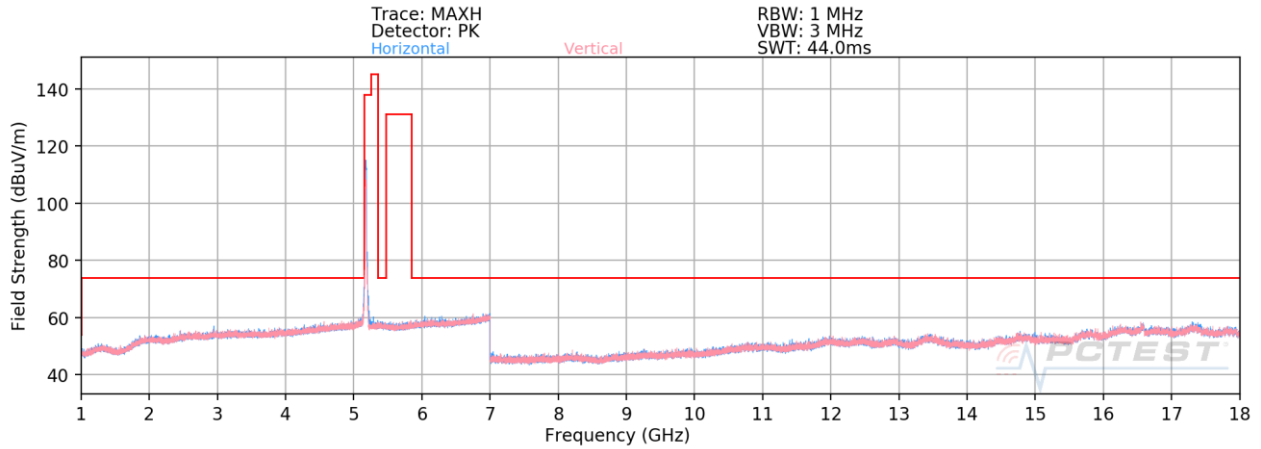
Plot 7-181. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U3 Ch. 157)



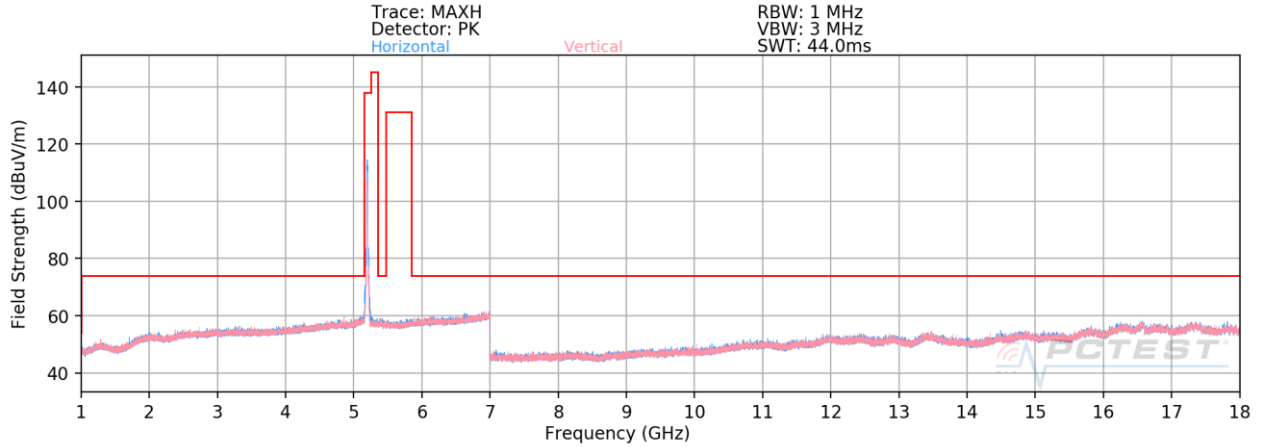
Plot 7-182. Radiated Spurious Emissions above 1GHz SISO CORE 0 (802.11n – U3 Ch. 165)

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| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 129 of 210 |

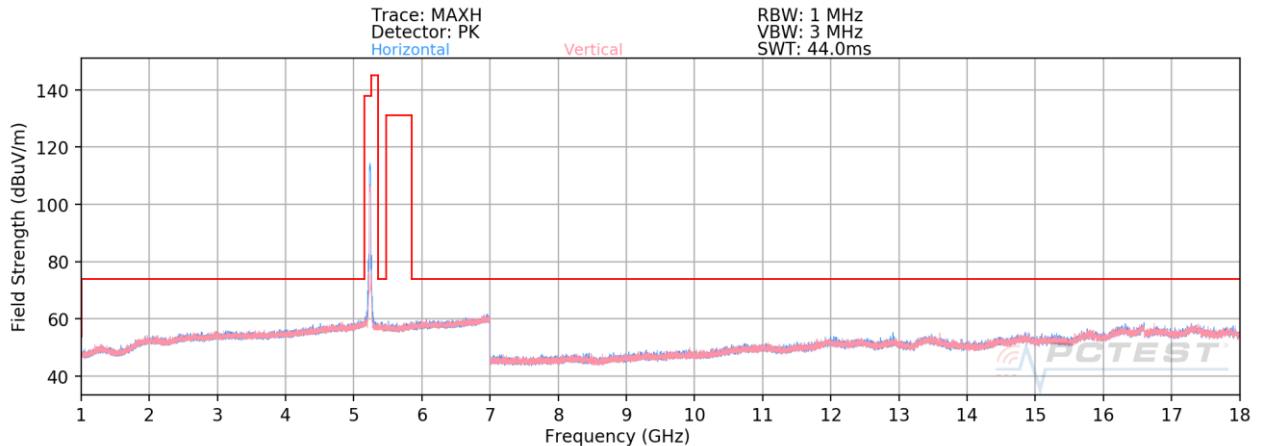
7.6.2 SISO Core-1 Radiated Spurious Emission Measurements



Plot 7-183. Radiated Spurious Emissions above 1GHz SISO CORE 1 (802.11n – U1 Ch. 36)

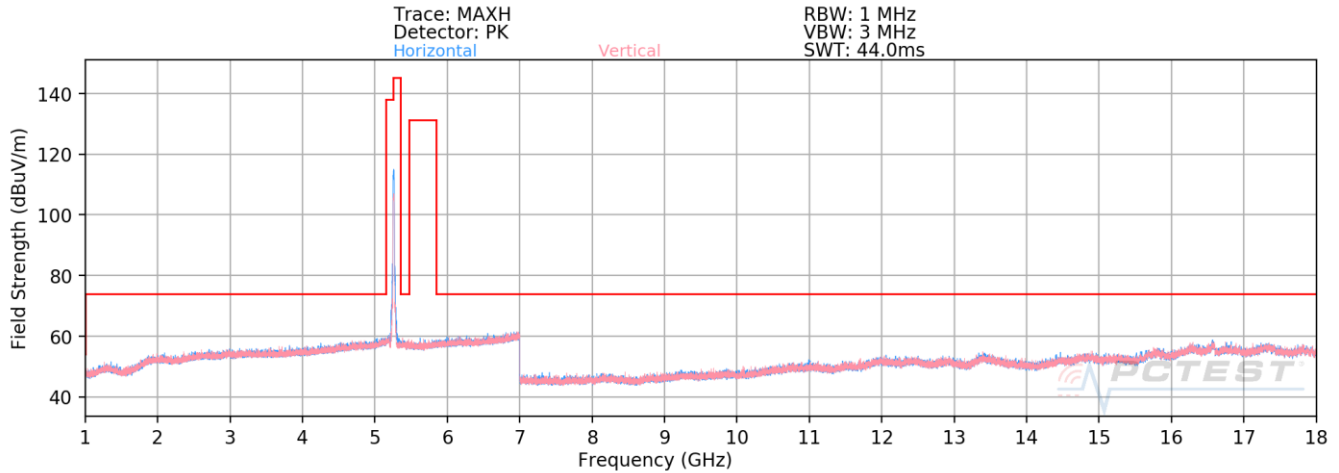


Plot 7-184. Radiated Spurious Emissions above 1GHz SISO CORE 1 (802.11n – U1 Ch. 40)

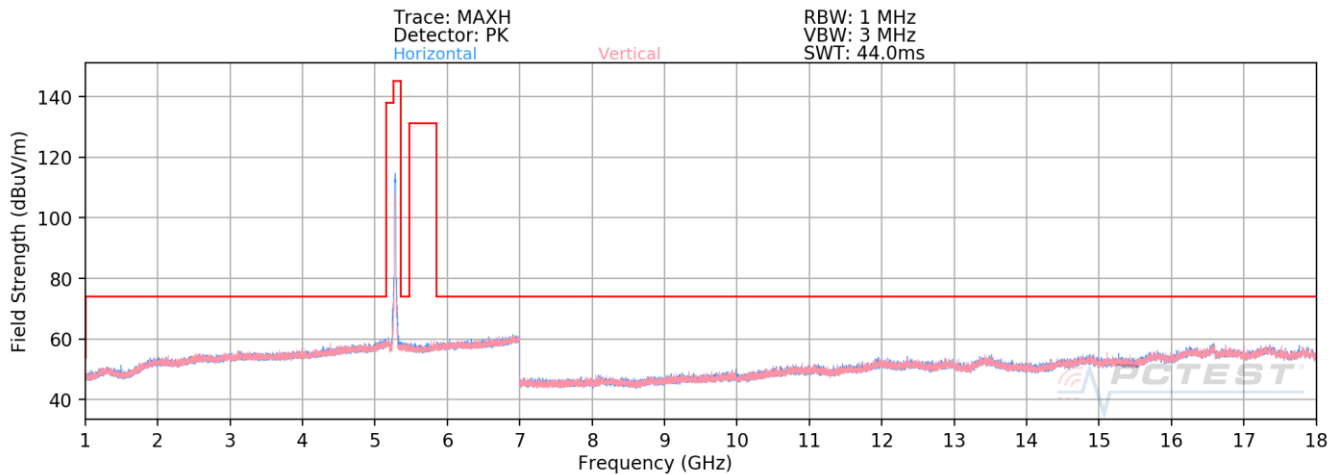


Plot 7-185. Radiated Spurious Emissions above 1GHz SISO CORE 1 (802.11n – U1 Ch. 48)

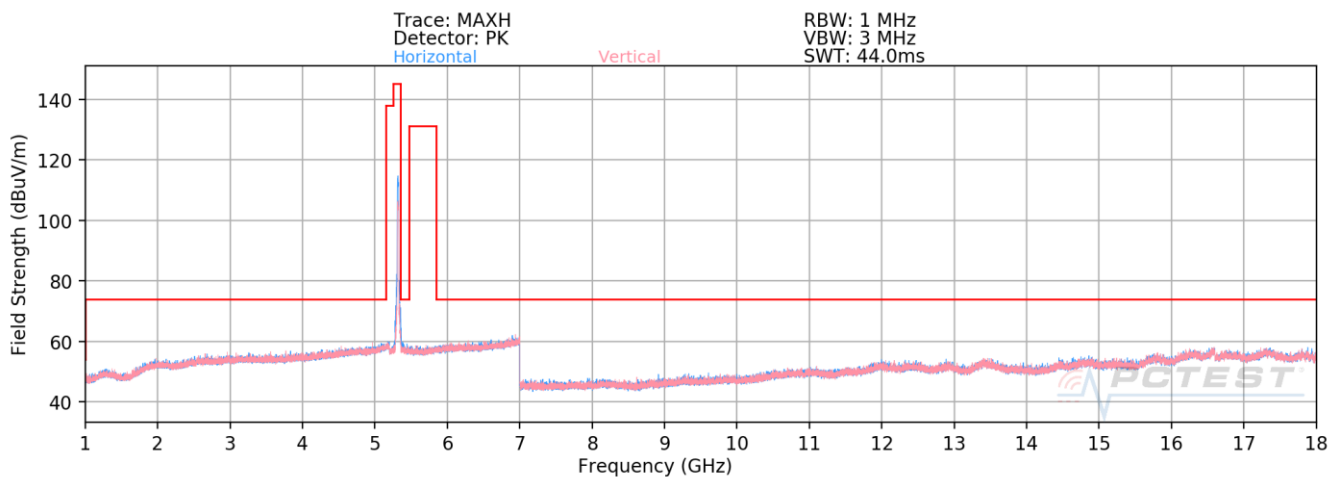
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| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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Plot 7-186. Radiated Spurious Emissions above 1GHz SISO CORE 1 (802.11n – U2A Ch. 52)



Plot 7-187. Radiated Spurious Emissions above 1GHz SISO CORE 1 (802.11n – U2A Ch. 56)



Plot 7-188. Radiated Spurious Emissions above 1GHz SISO CORE 1 (802.11n – U2A Ch. 64)

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|--|--|---------------------------------------|---------------------------------|
| FCC ID: BCGA2428 | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C2004270033-09-R1.BCG | Test Dates: 05/01/2020-07/22/2020 | EUT Type: Tablet Device | Page 131 of 210 |