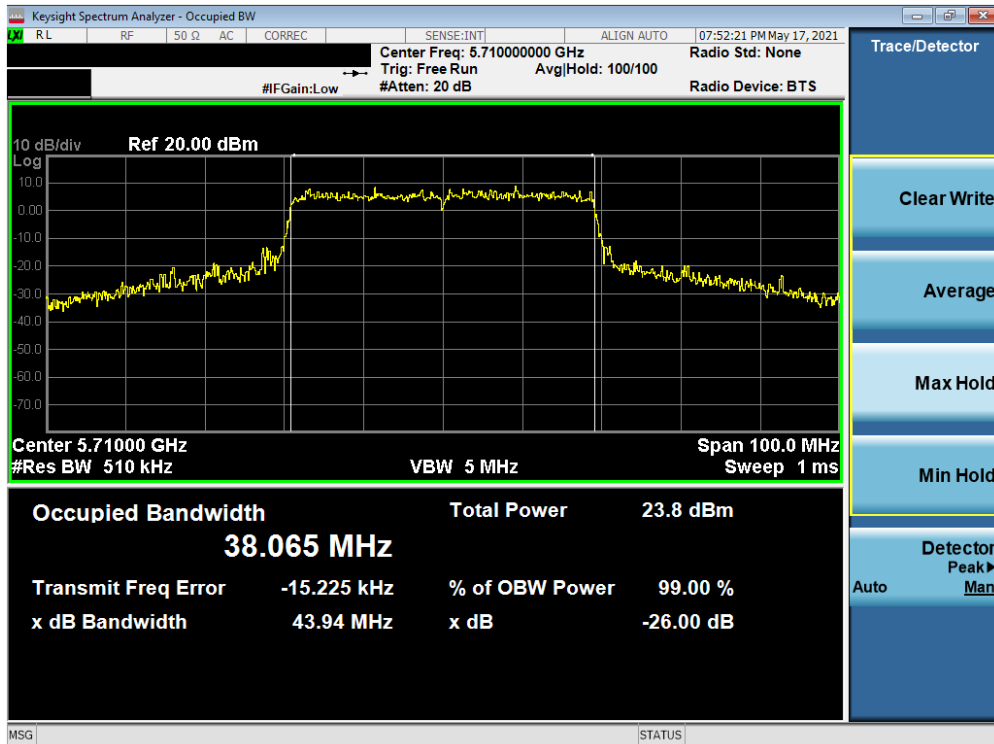
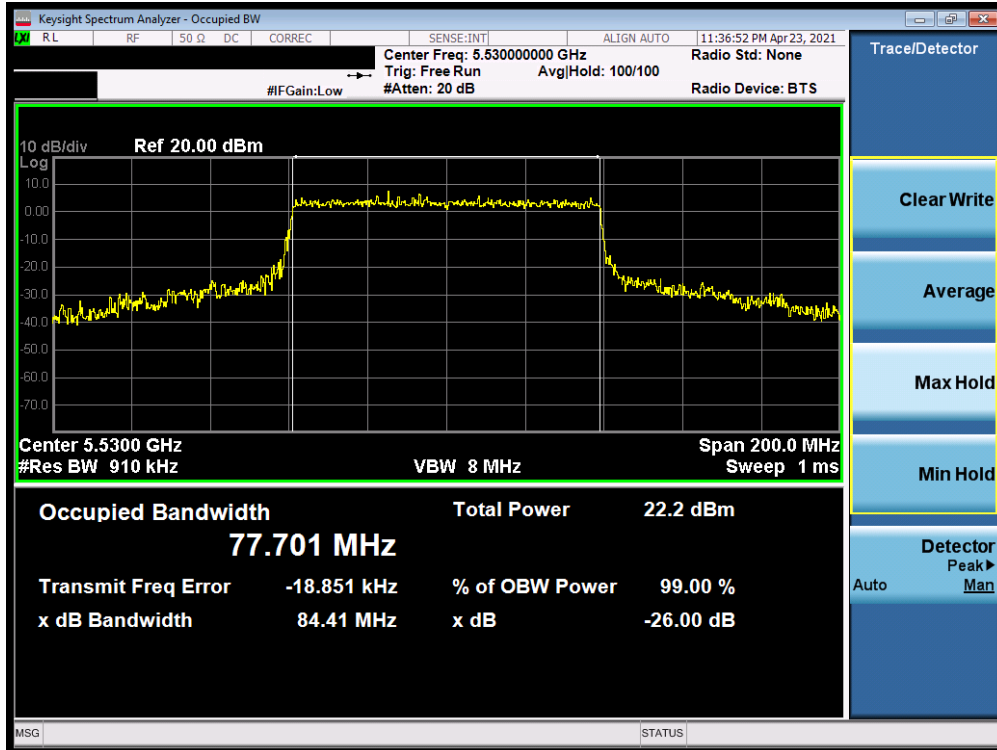


Plot 7-122. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 118)

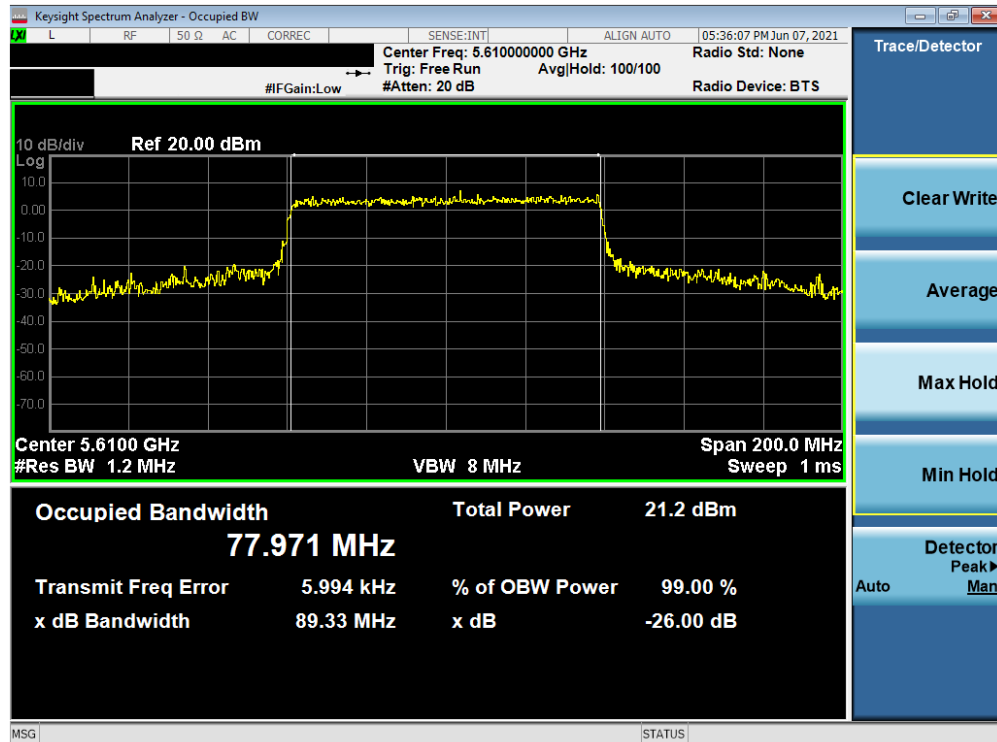


Plot 7-123. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 84 of 413 |

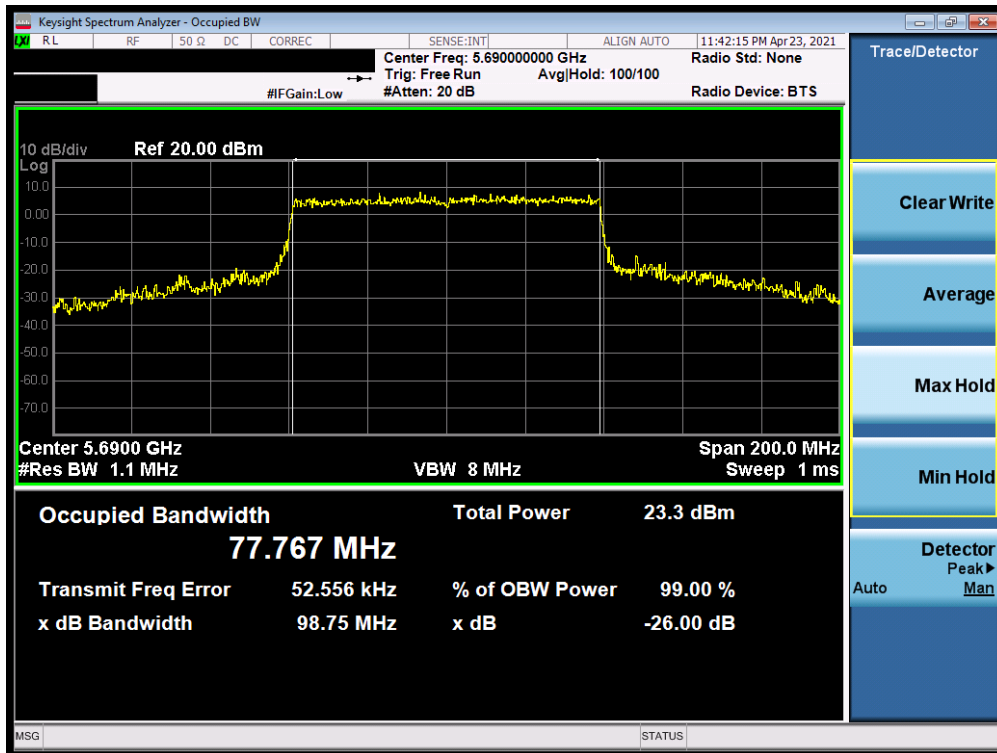


Plot 7-124. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



Plot 7-125. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|--|---------------------------------------|--|-----------------------------------|
| FCC ID: A3LSMF711U | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 85 of 413 |



Plot 7-126. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)

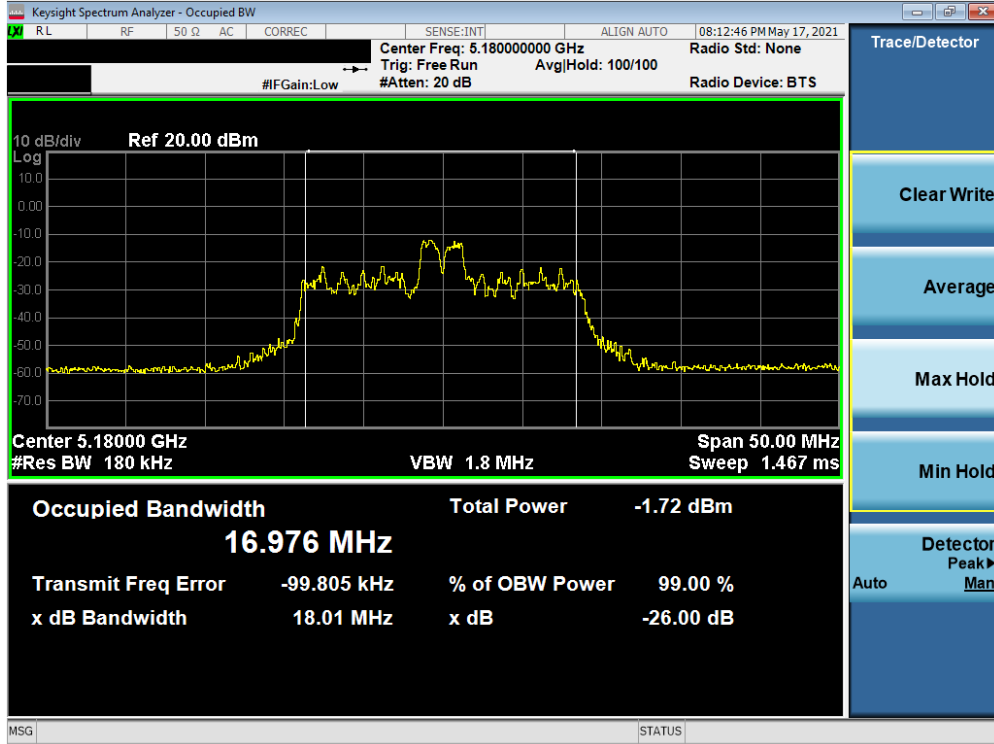
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 86 of 413 |

MIMO 26dB Bandwidth Measurements (26 Tones) – Q

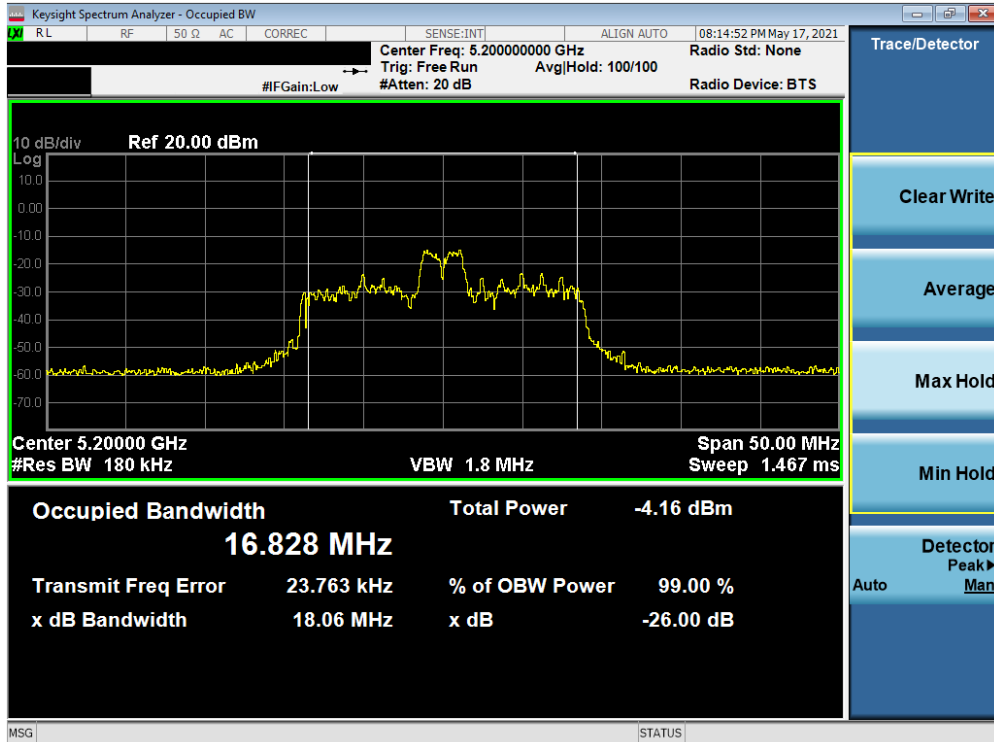
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 26dB Bandwidth [MHz] |
|---------|-----------------|-------------|-------------|-------|------------------|-------------------------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 26T | MCS0 | 18.01 |
| | 5200 | 40 | ax (20MHz) | 26T | MCS0 | 18.06 |
| | 5240 | 48 | ax (20MHz) | 26T | MCS0 | 18.38 |
| | 5190 | 38 | ax (40MHz) | 26T | MCS0 | 38.13 |
| | 5230 | 46 | ax (40MHz) | 26T | MCS0 | 37.89 |
| | 5210 | 42 | ax (80MHz) | 26T | MCS0 | 78.59 |
| Band 2A | 5260 | 52 | ax (20MHz) | 26T | MCS0 | 18.31 |
| | 5280 | 56 | ax (20MHz) | 26T | MCS0 | 18.29 |
| | 5320 | 64 | ax (20MHz) | 26T | MCS0 | 19.43 |
| | 5270 | 54 | ax (40MHz) | 26T | MCS0 | 38.04 |
| | 5310 | 62 | ax (40MHz) | 26T | MCS0 | 38.10 |
| | 5290 | 58 | ax (80MHz) | 26T | MCS0 | 78.41 |
| Band 2C | 5500 | 100 | ax (20MHz) | 26T | MCS0 | 18.16 |
| | 5600 | 120 | ax (20MHz) | 26T | MCS0 | 18.41 |
| | 5720 | 144 | ax (20MHz) | 26T | MCS0 | 19.72 |
| | 5510 | 102 | ax (40MHz) | 26T | MCS0 | 39.65 |
| | 5590 | 118 | ax (40MHz) | 26T | MCS0 | 38.21 |
| | 5710 | 142 | ax (40MHz) | 26T | MCS0 | 39.90 |
| | 5530 | 106 | ax (80MHz) | 26T | MCS0 | 81.99 |
| | 5610 | 122 | ax (80MHz) | 26T | MCS0 | 81.80 |
| | 5690 | 138 | ax (80MHz) | 26T | MCS0 | 78.50 |

Table 7-8. Conducted Bandwidth Measurements MIMO (26 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 87 of 413 |

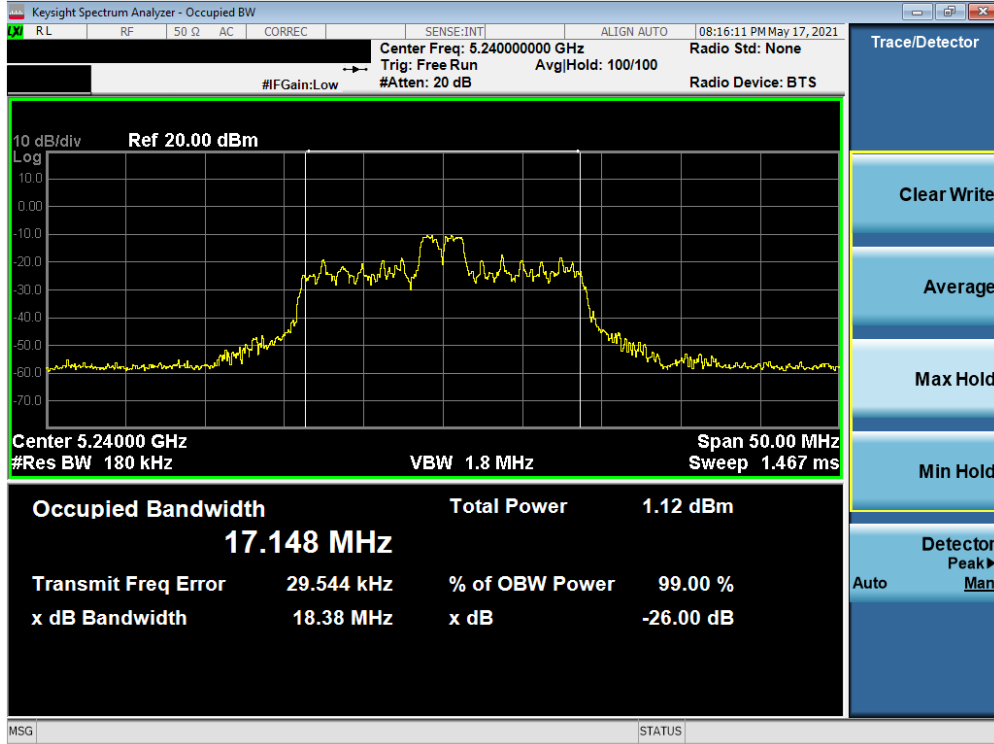


Plot 7-127. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

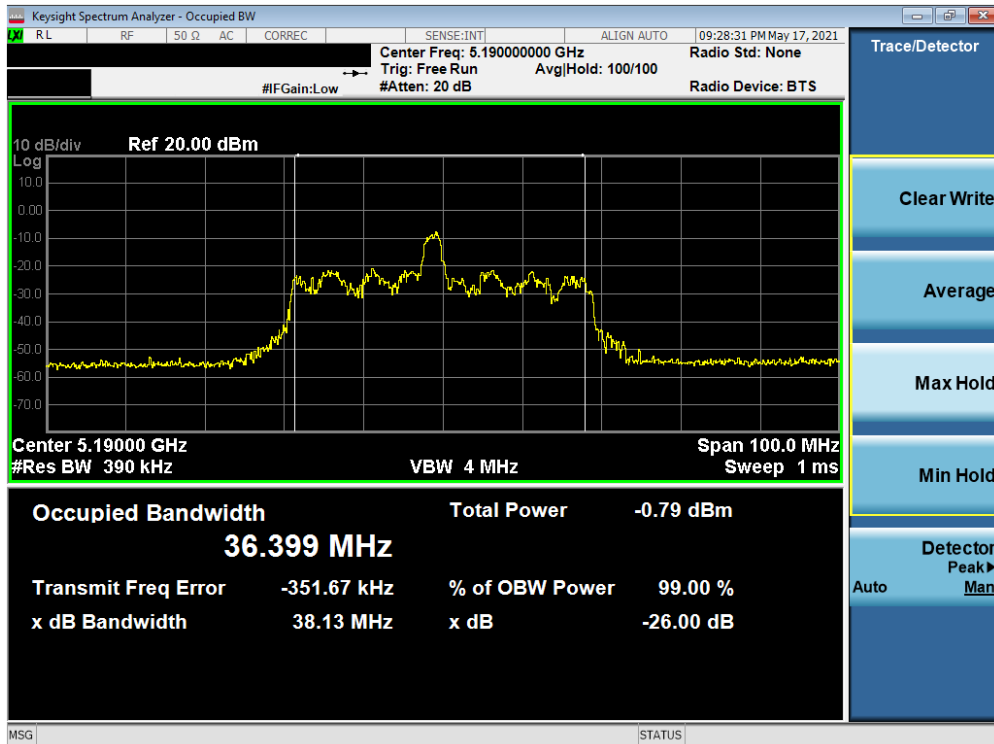


Plot 7-128. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 88 of 413 |

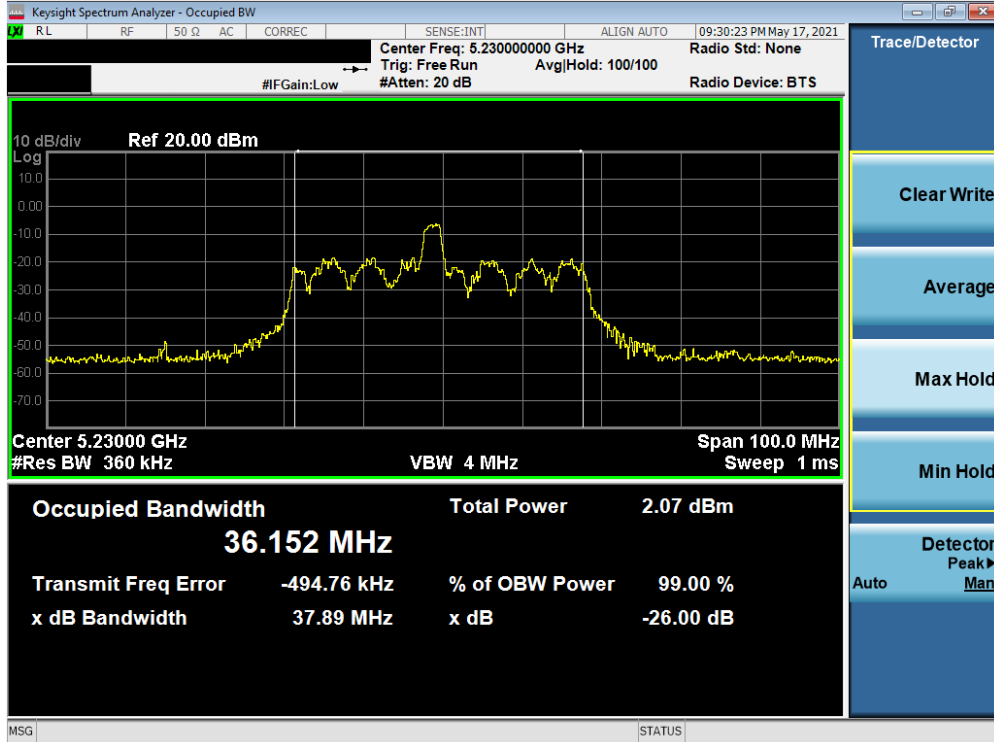


Plot 7-129. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

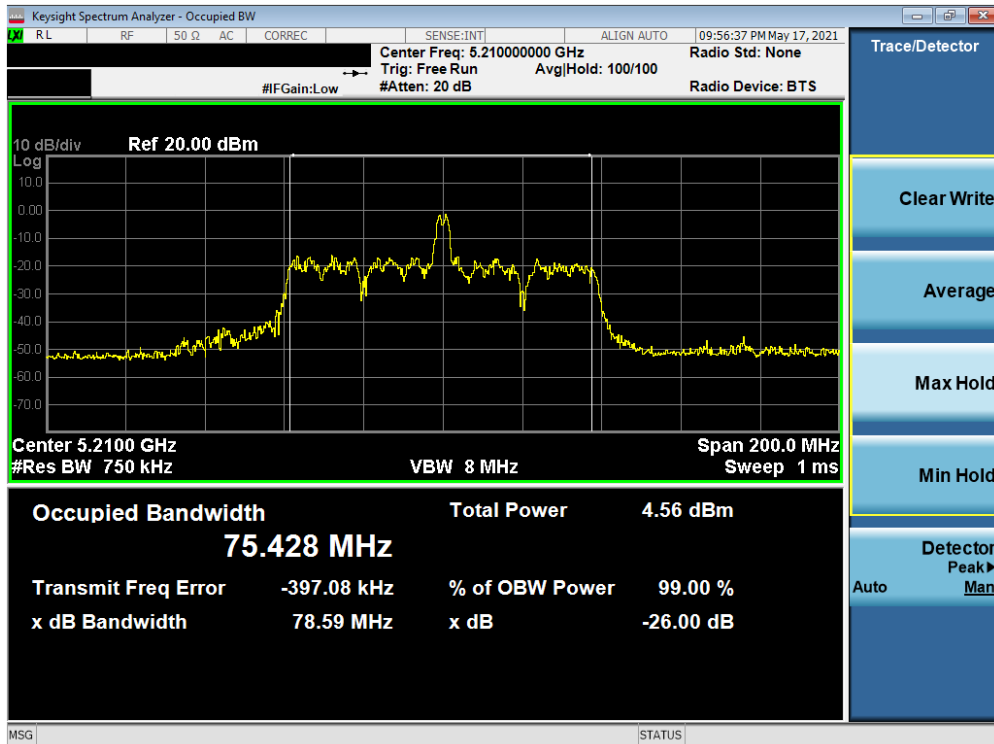


Plot 7-130. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 89 of 413 |

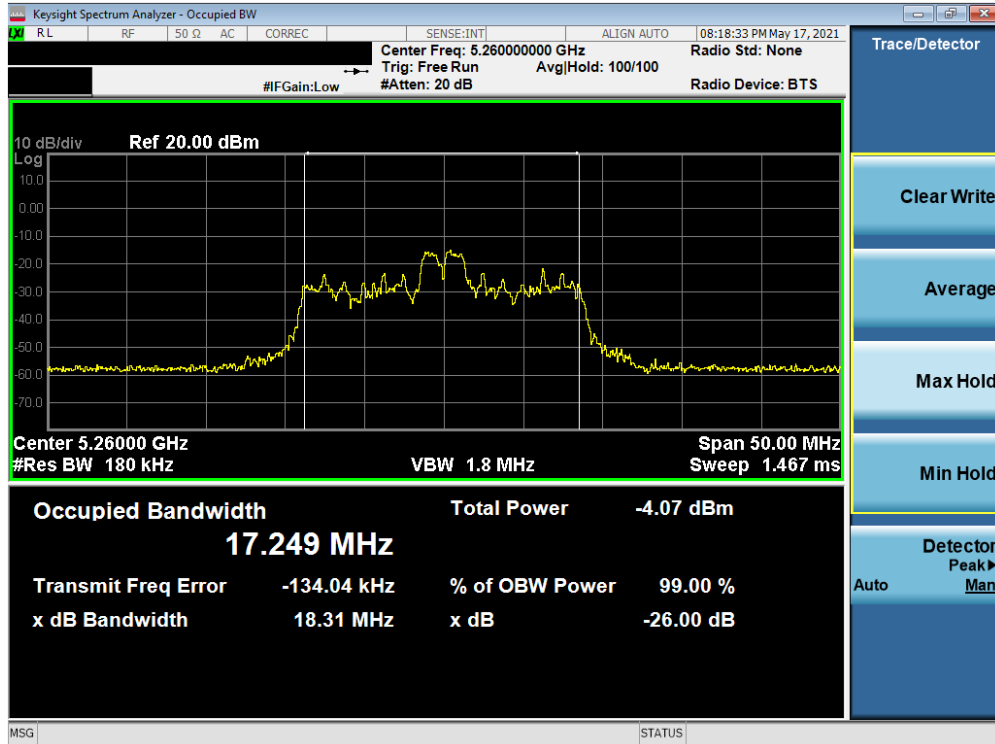


Plot 7-131. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

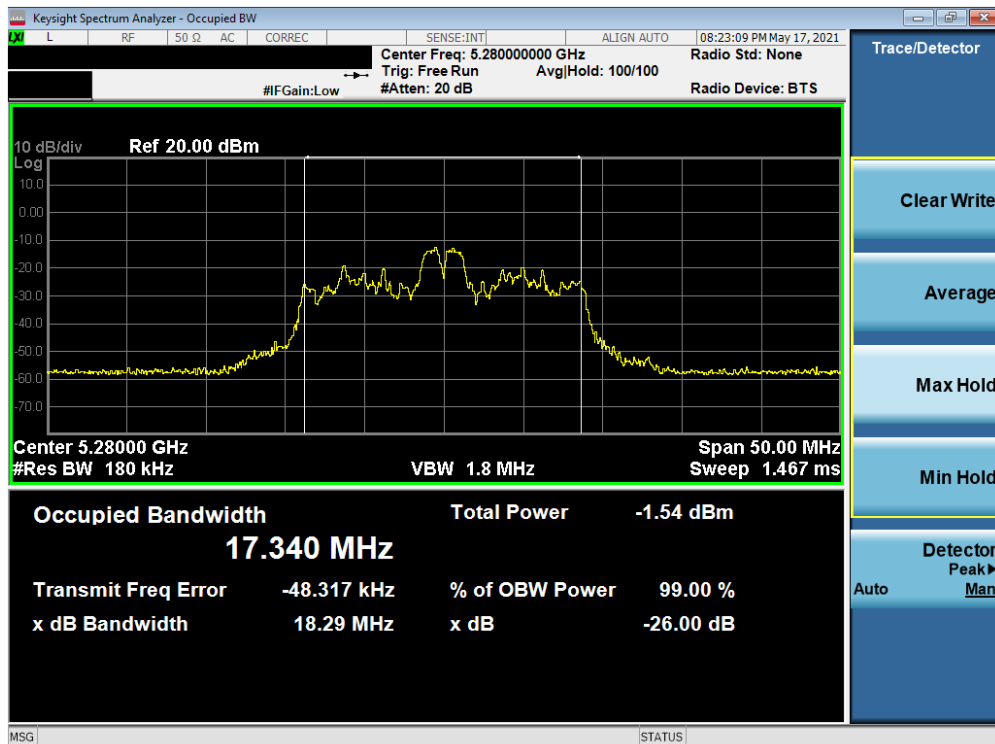


Plot 7-132. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 90 of 413 |

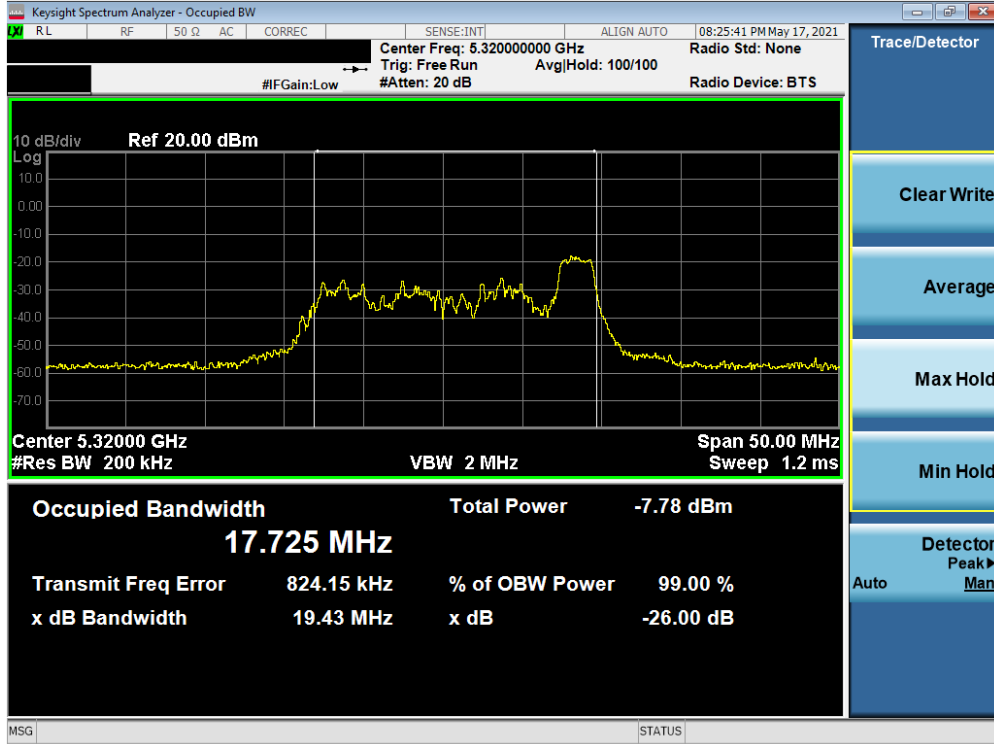


Plot 7-133. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

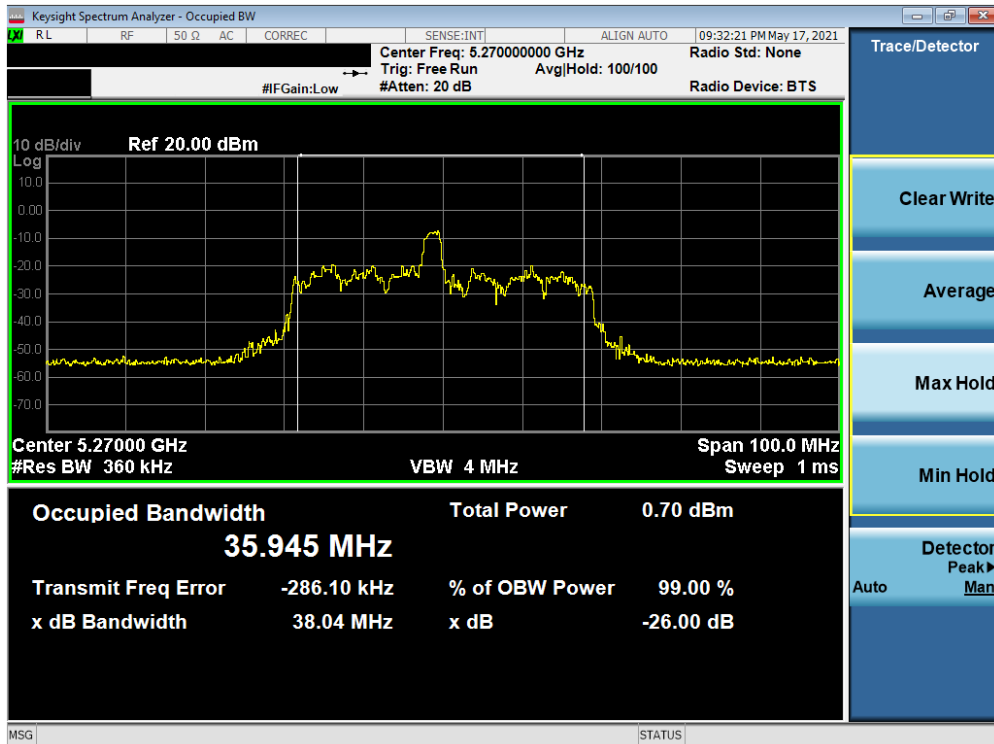


Plot 7-134. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 91 of 413 |

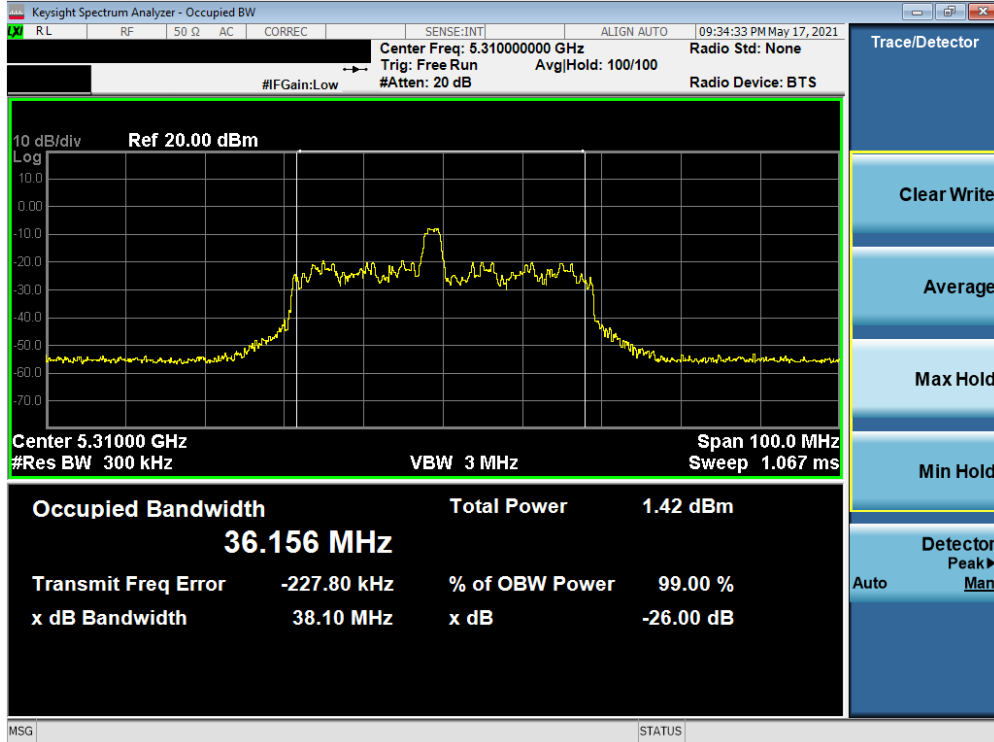


Plot 7-135. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

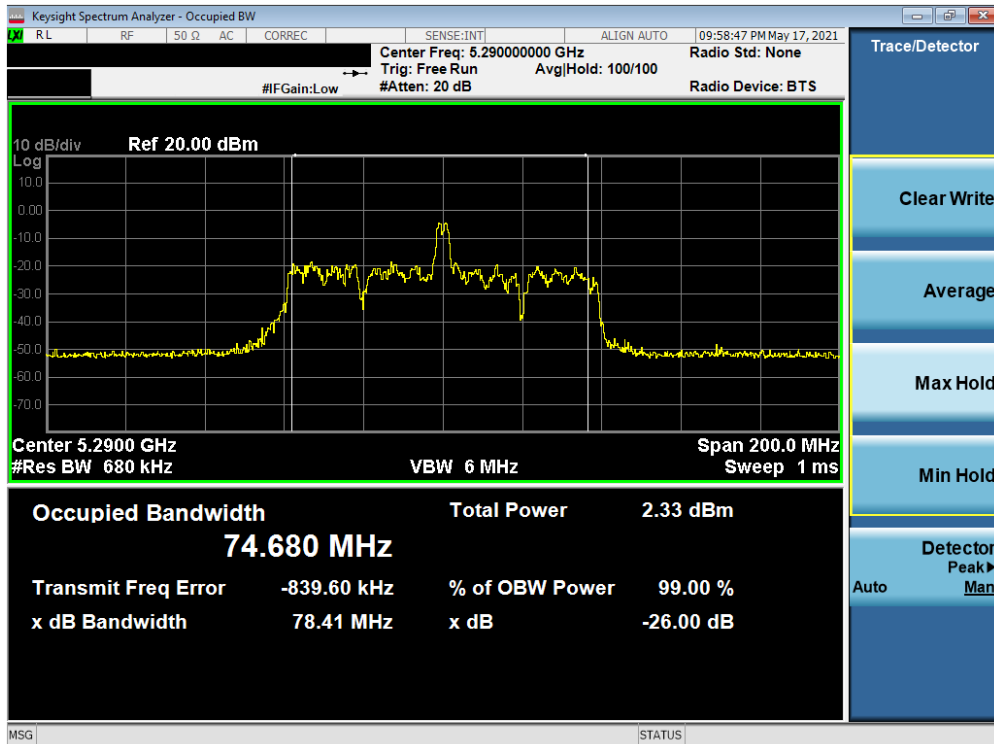


Plot 7-136. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

| | | | | |
|---|--|---|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 92 of 413 |

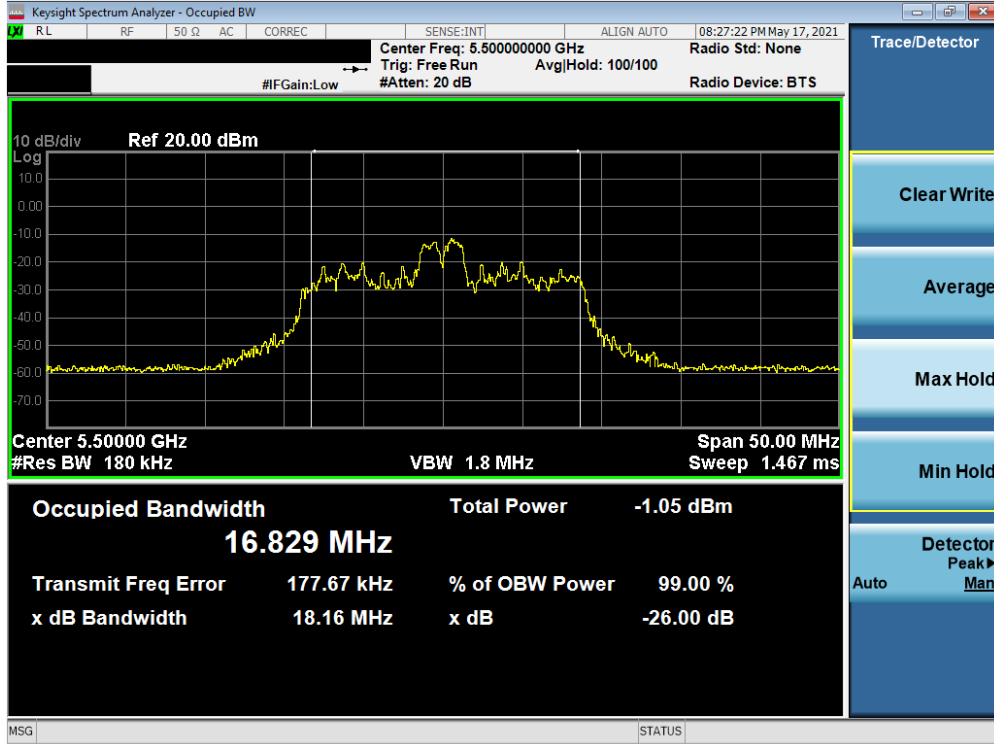


Plot 7-137. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

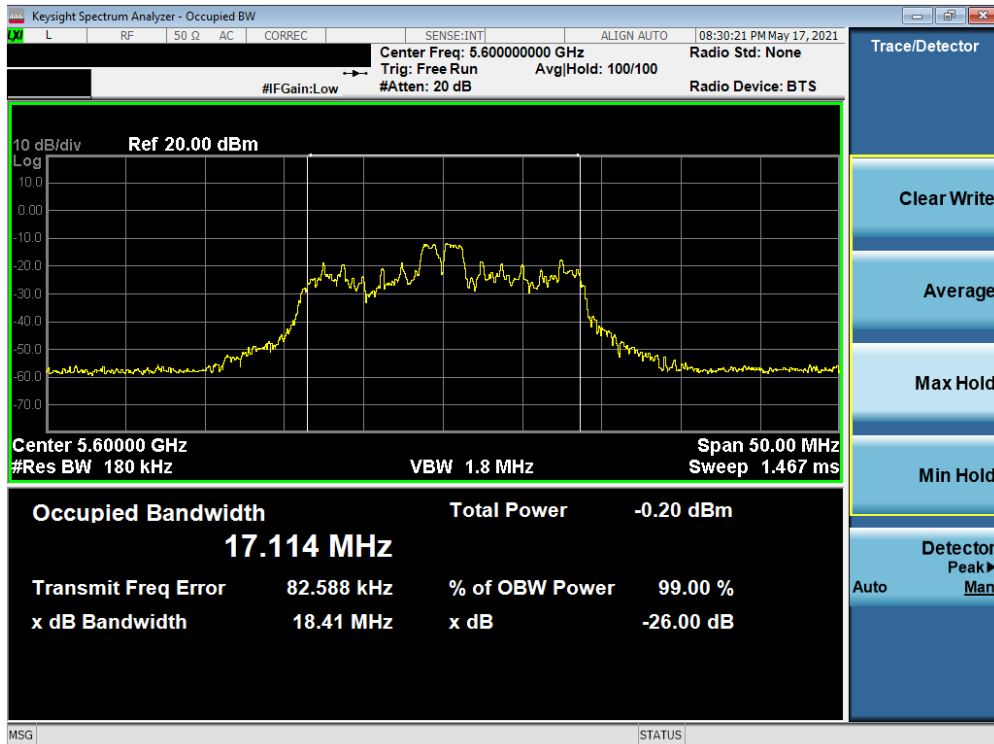


Plot 7-138. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|---|---------------------------------------|--|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 93 of 413 |

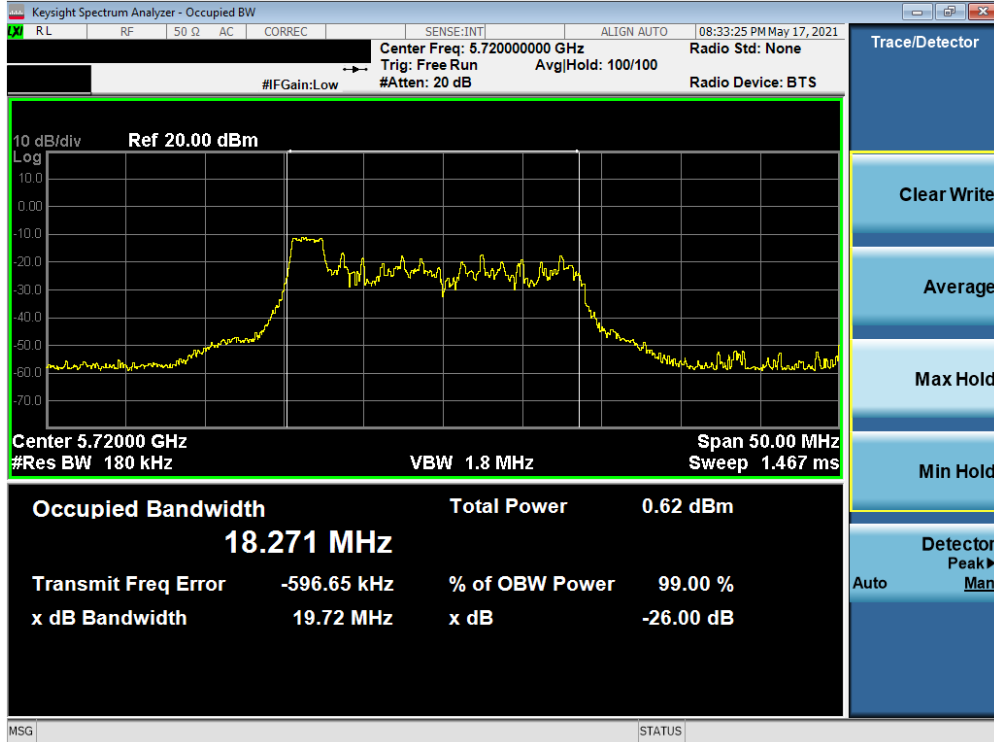


Plot 7-139. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

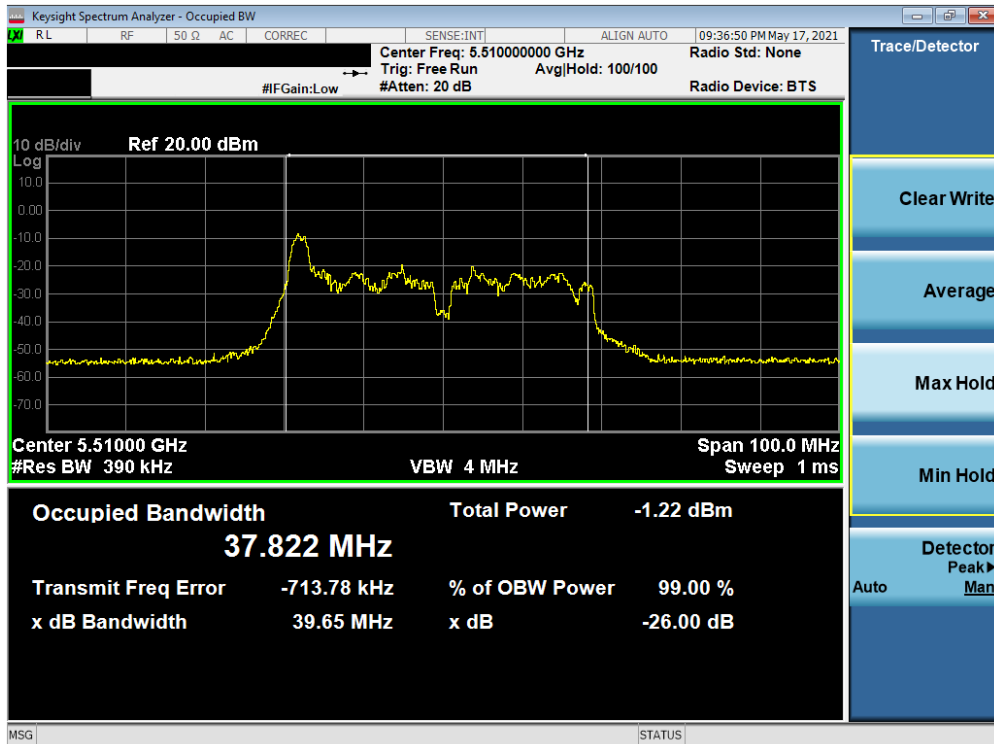


Plot 7-140. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 94 of 413 |

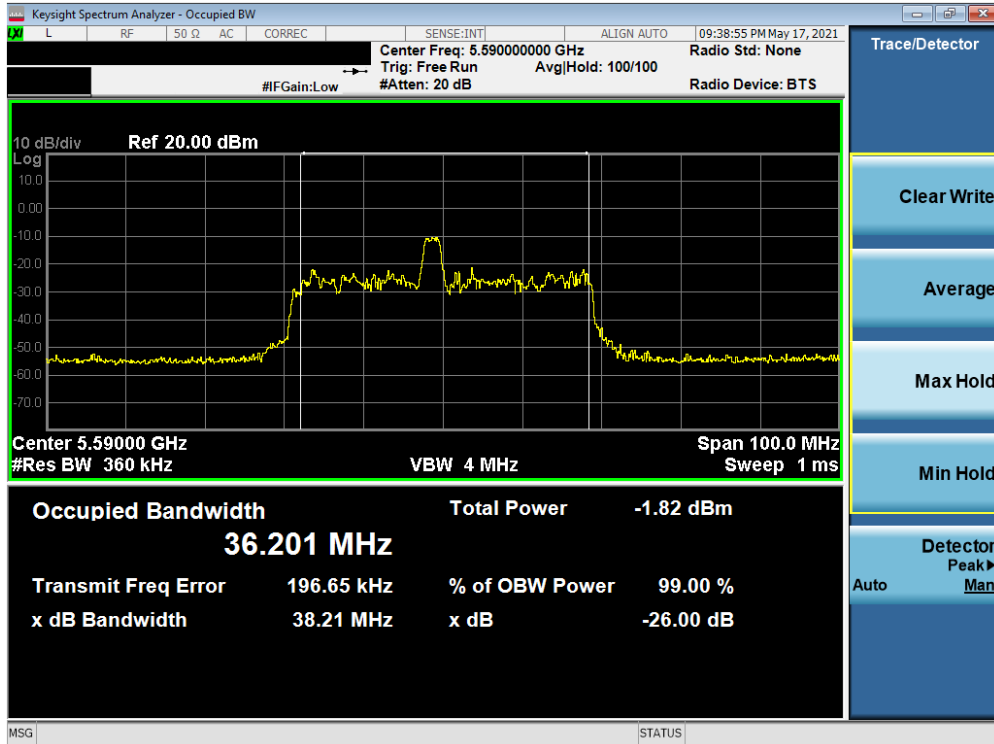


Plot 7-141. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

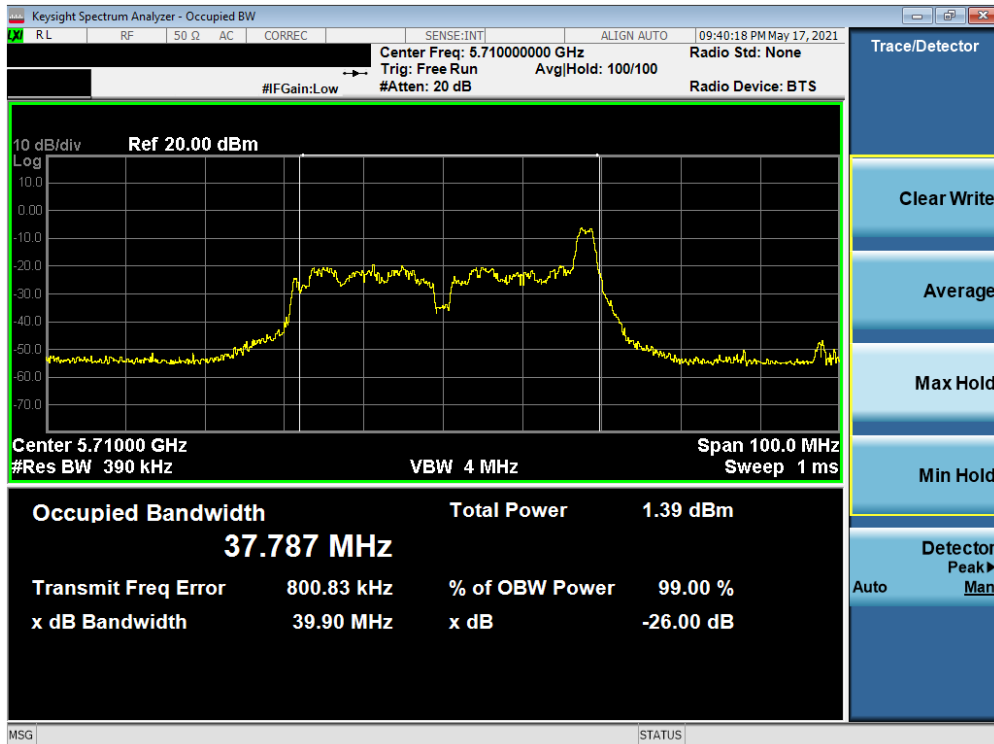


Plot 7-142. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 95 of 413 |

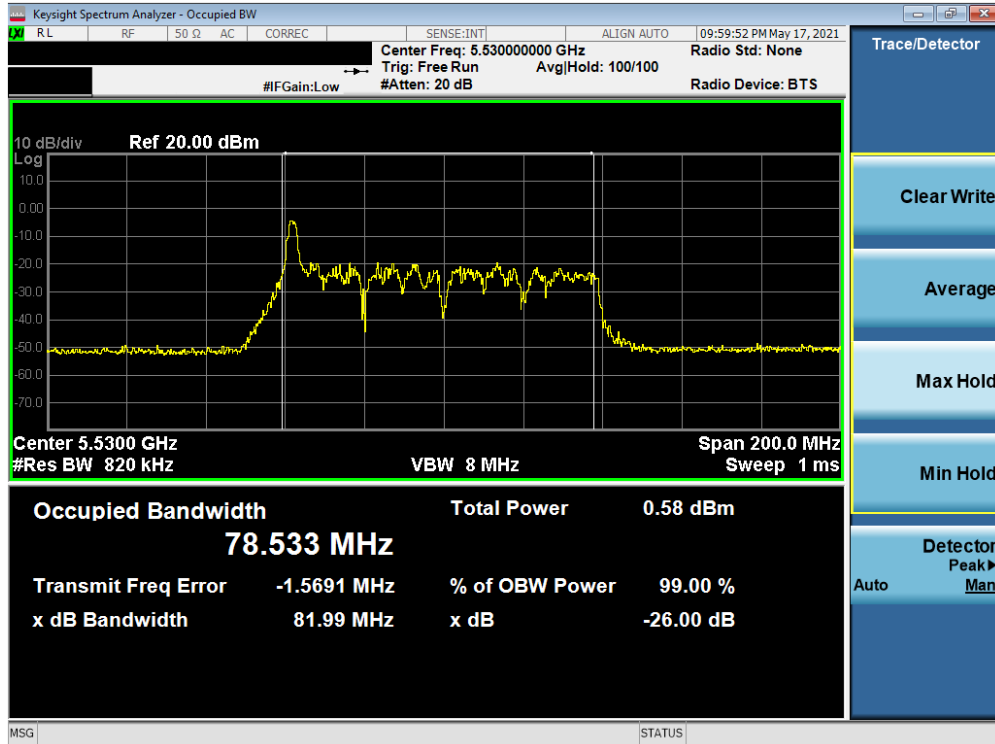


Plot 7-143. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

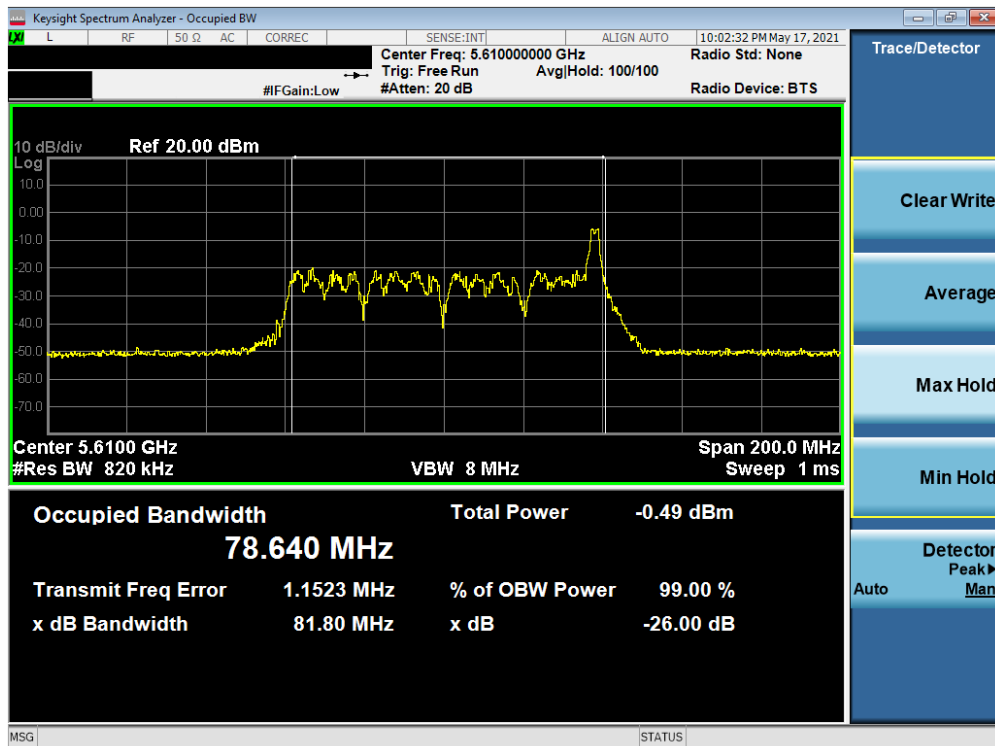


Plot 7-144. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 96 of 413 |

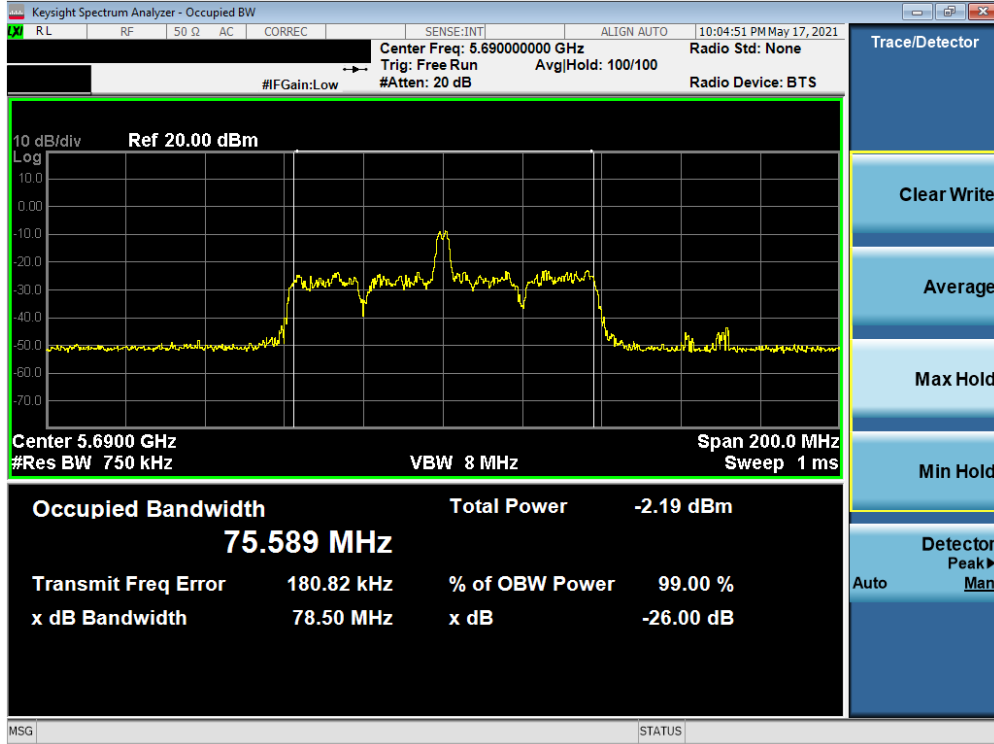


Plot 7-145. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-146. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 97 of 413 |



Plot 7-147. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

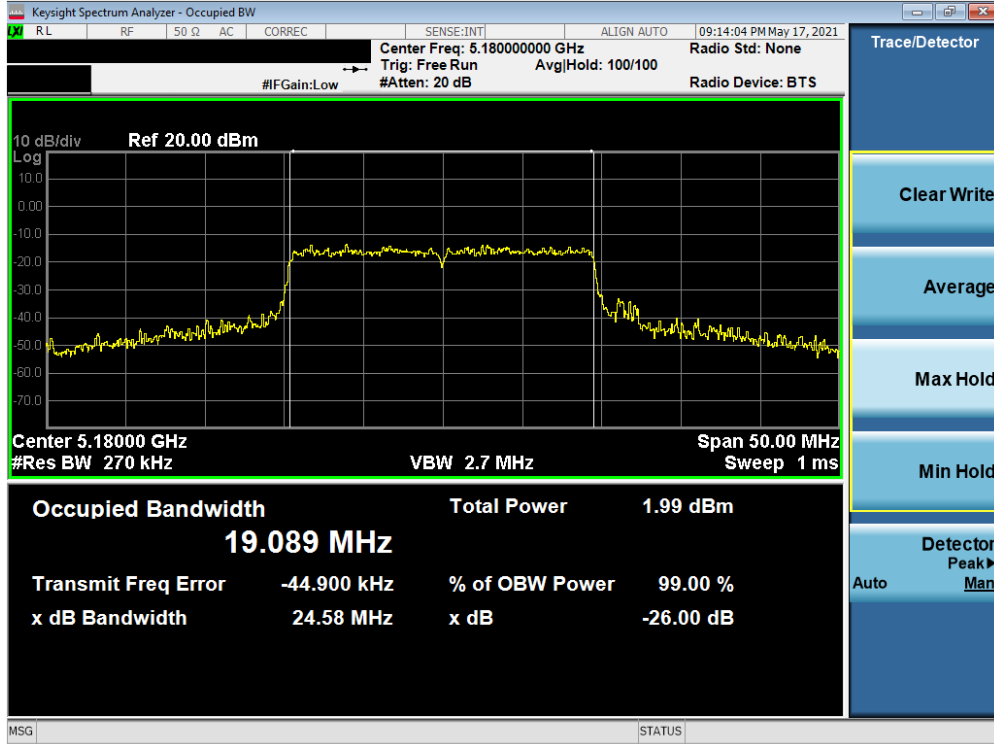
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 98 of 413 |

MIMO 26dB Bandwidth Measurements (Full Tones) – Q

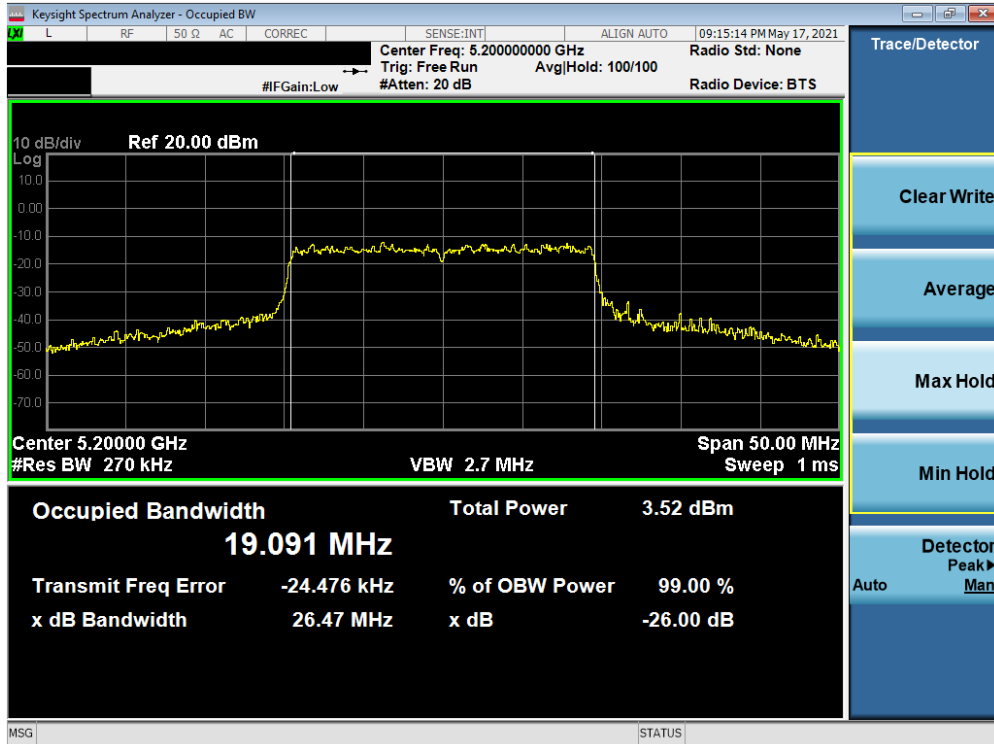
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 26dB Bandwidth [MHz] |
|---------|-----------------|-------------|-------------|-------|------------------|-------------------------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 242T | MCS0 | 24.58 |
| | 5200 | 40 | ax (20MHz) | 242T | MCS0 | 26.47 |
| | 5240 | 48 | ax (20MHz) | 242T | MCS0 | 30.31 |
| | 5190 | 38 | ax (40MHz) | 484T | MCS0 | 66.72 |
| | 5230 | 46 | ax (40MHz) | 484T | MCS0 | 68.13 |
| | 5210 | 42 | ax (80MHz) | 996T | MCS0 | 115.90 |
| Band 2A | 5260 | 52 | ax (20MHz) | 242T | MCS0 | 26.25 |
| | 5280 | 56 | ax (20MHz) | 242T | MCS0 | 23.01 |
| | 5320 | 64 | ax (20MHz) | 242T | MCS0 | 21.42 |
| | 5270 | 54 | ax (40MHz) | 484T | MCS0 | 63.24 |
| | 5310 | 62 | ax (40MHz) | 484T | MCS0 | 54.61 |
| | 5290 | 58 | ax (80MHz) | 996T | MCS0 | 104.10 |
| Band 2C | 5500 | 100 | ax (20MHz) | 242T | MCS0 | 22.58 |
| | 5600 | 120 | ax (20MHz) | 242T | MCS0 | 22.74 |
| | 5720 | 144 | ax (20MHz) | 242T | MCS0 | 21.72 |
| | 5510 | 102 | ax (40MHz) | 484T | MCS0 | 46.30 |
| | 5590 | 118 | ax (40MHz) | 484T | MCS0 | 69.51 |
| | 5710 | 142 | ax (40MHz) | 484T | MCS0 | 62.26 |
| | 5530 | 106 | ax (80MHz) | 996T | MCS0 | 91.83 |
| | 5610 | 122 | ax (80MHz) | 996T | MCS0 | 101.30 |
| | 5690 | 138 | ax (80MHz) | 996T | MCS0 | 100.90 |

Table 7-9. Conducted Bandwidth Measurements MIMO (Full Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 99 of 413 |

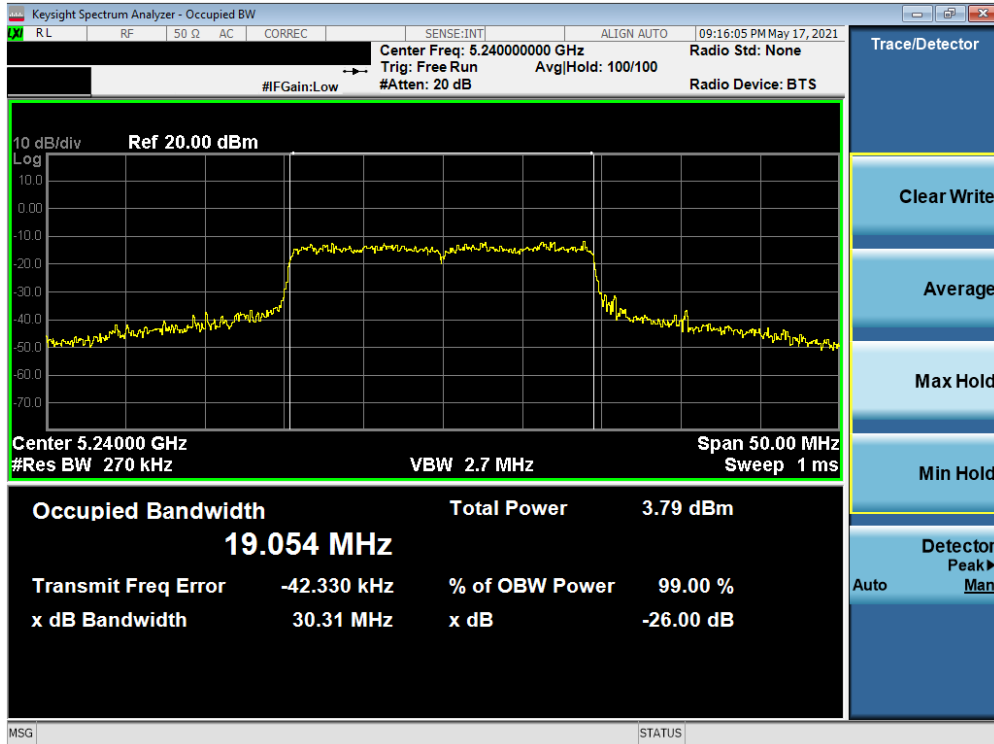


Plot 7-148. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 36)

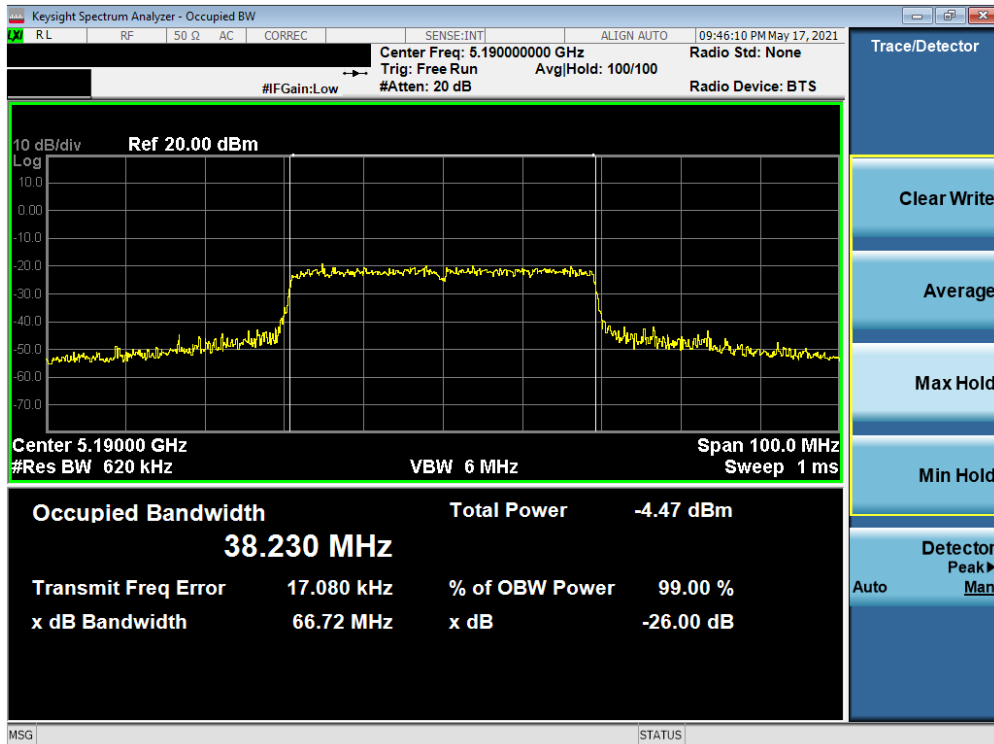


Plot 7-149. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 100 of 413 |

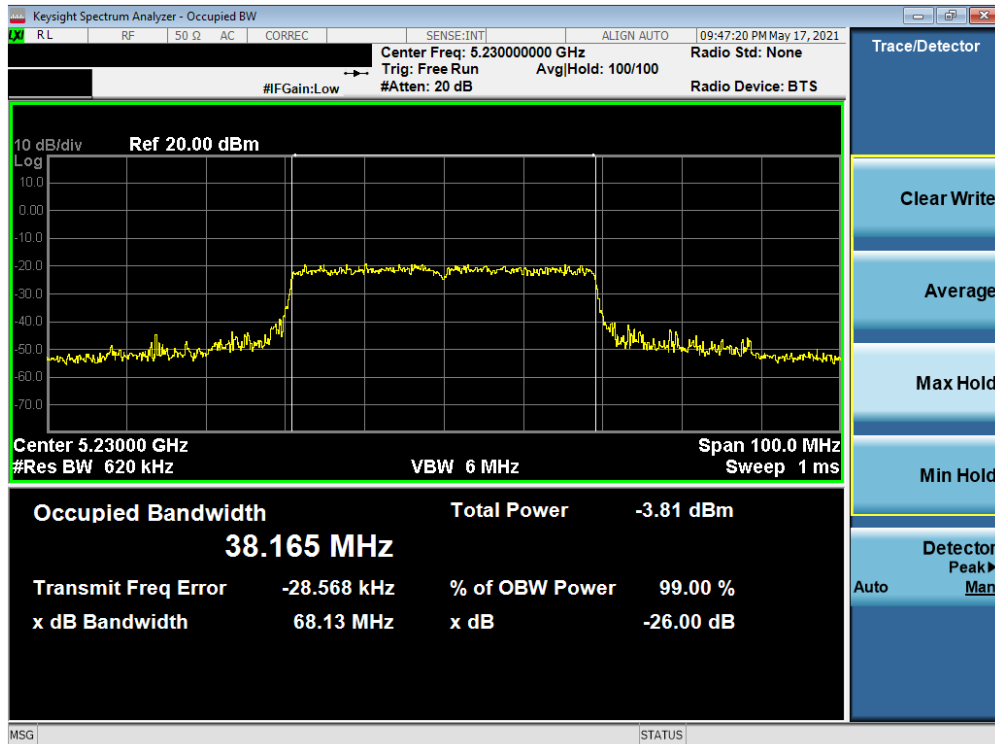


Plot 7-150. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 48)

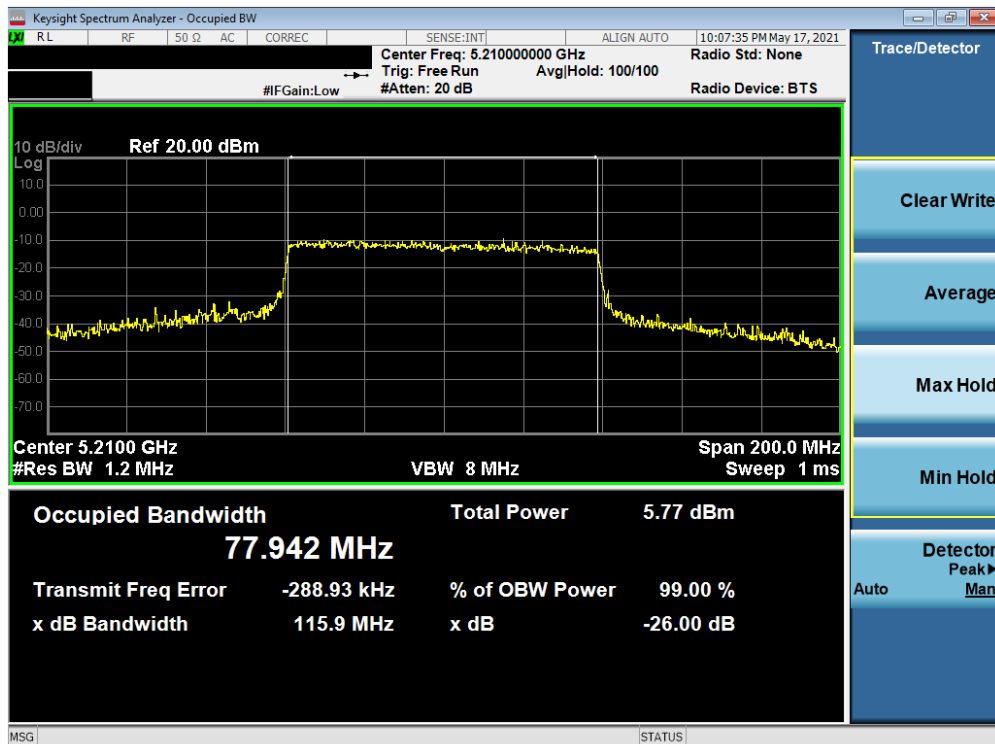


Plot 7-151. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 101 of 413 |

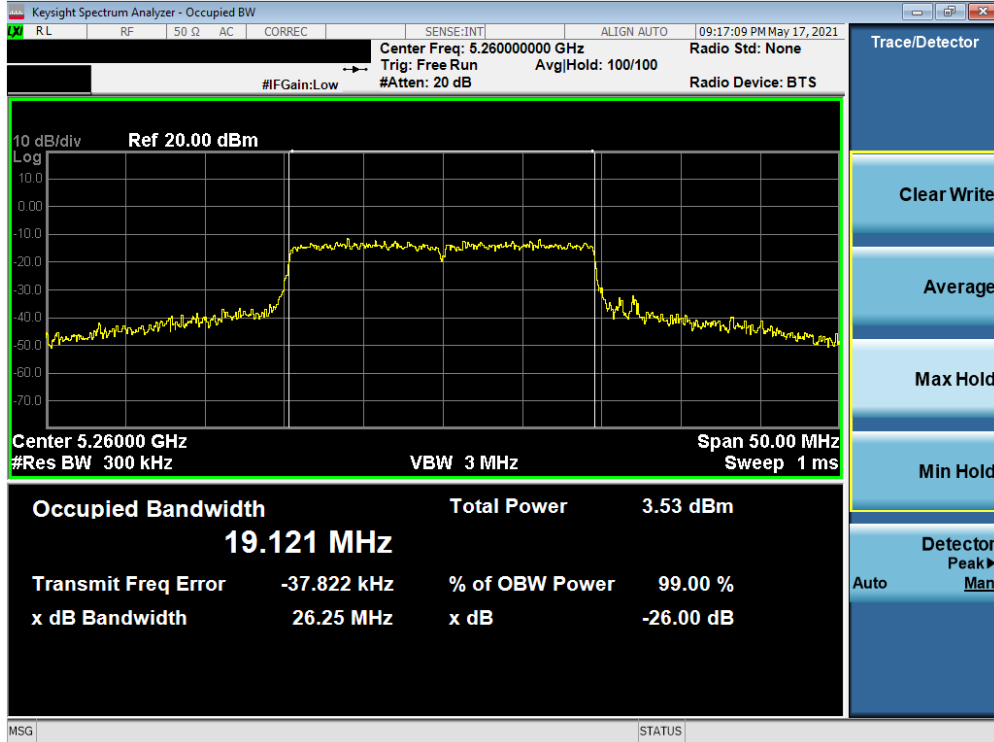


Plot 7-152. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 46)

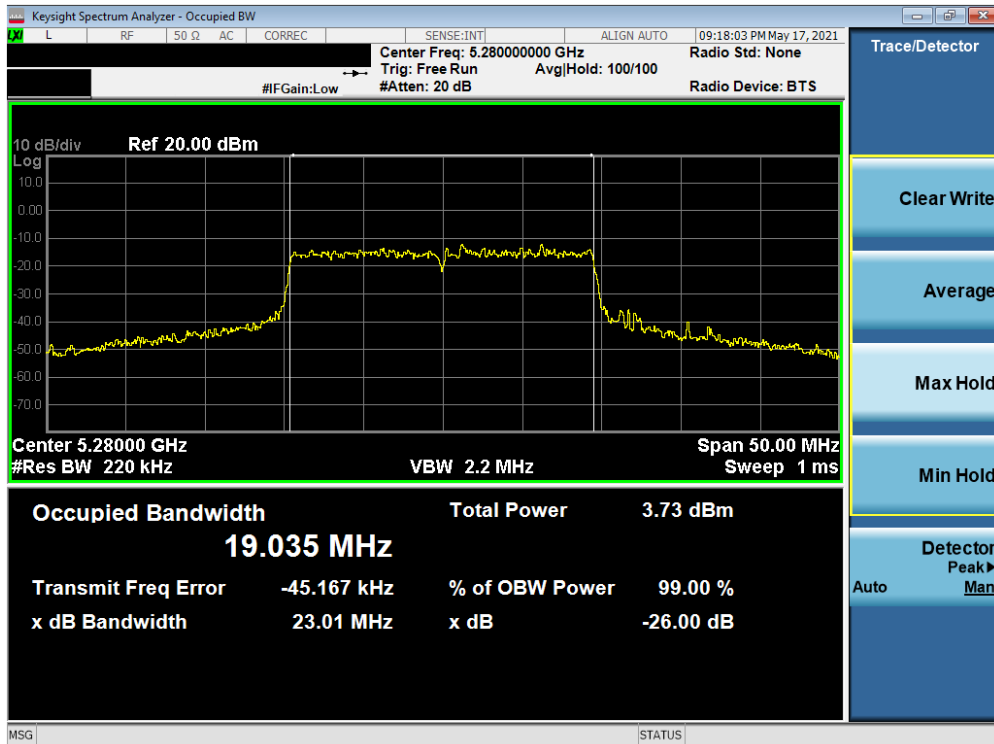


Plot 7-153. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)

| | | | | |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 102 of 413 |

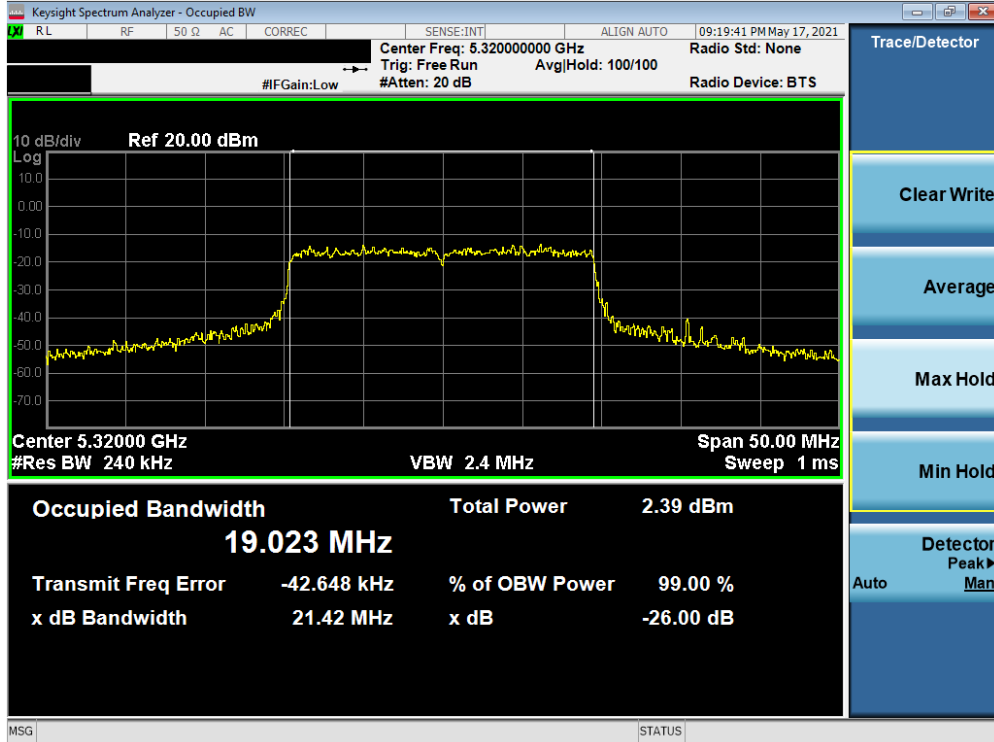


Plot 7-154. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 52)

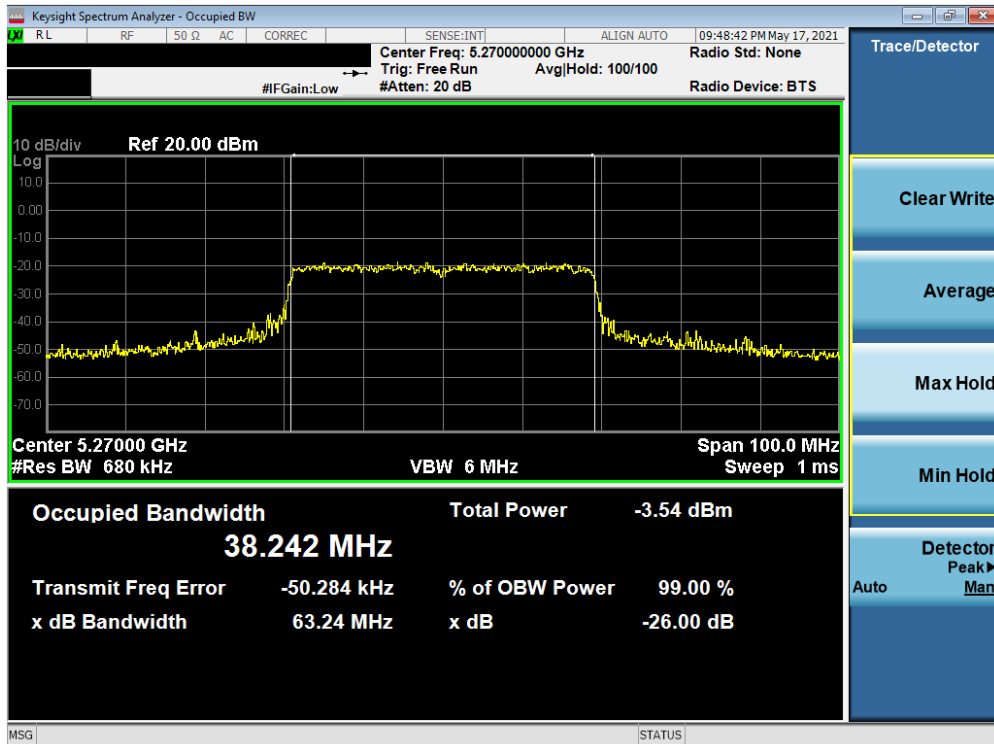


Plot 7-155. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)

| | | | | |
|---|---|---|--|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 103 of 413 |

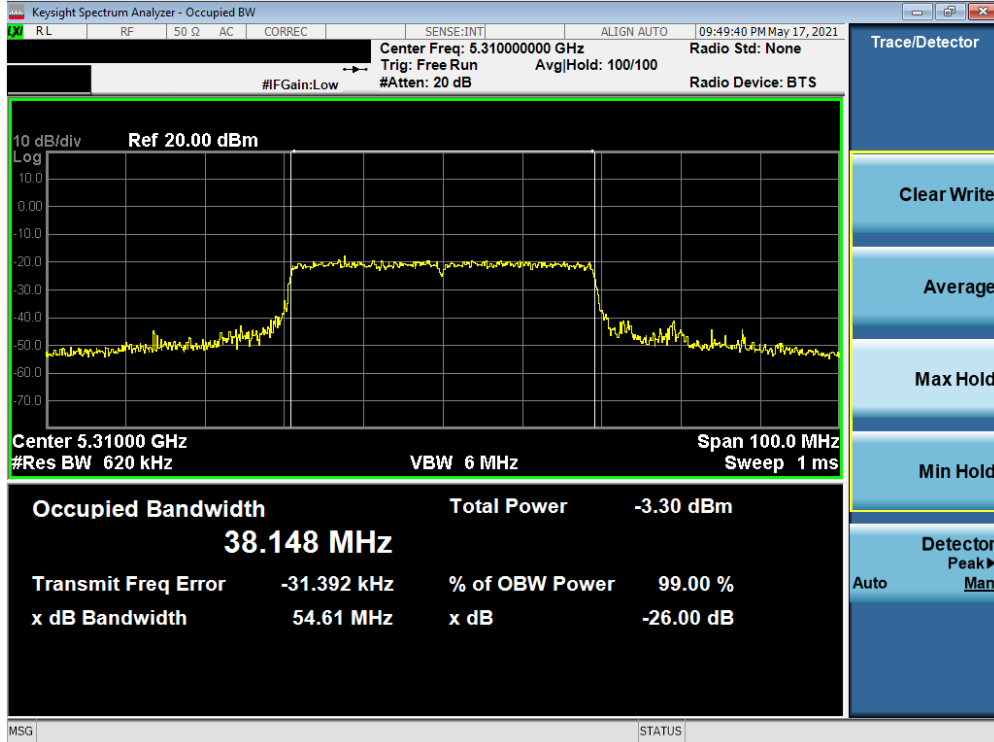


Plot 7-156. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 64)

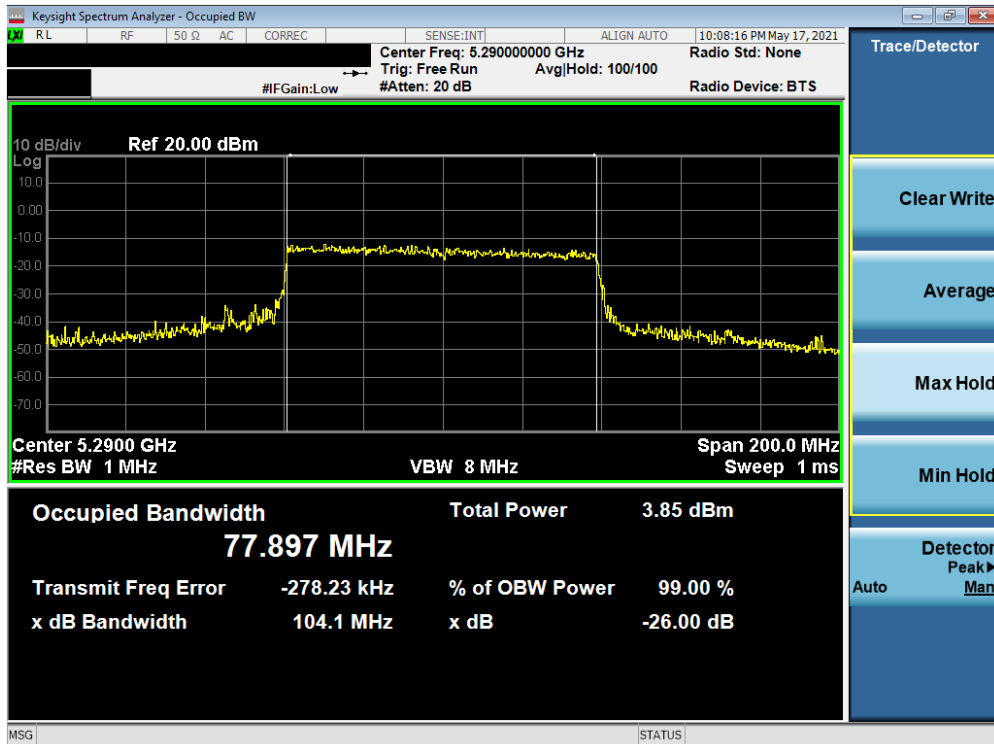


Plot 7-157. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 54)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 104 of 413 |

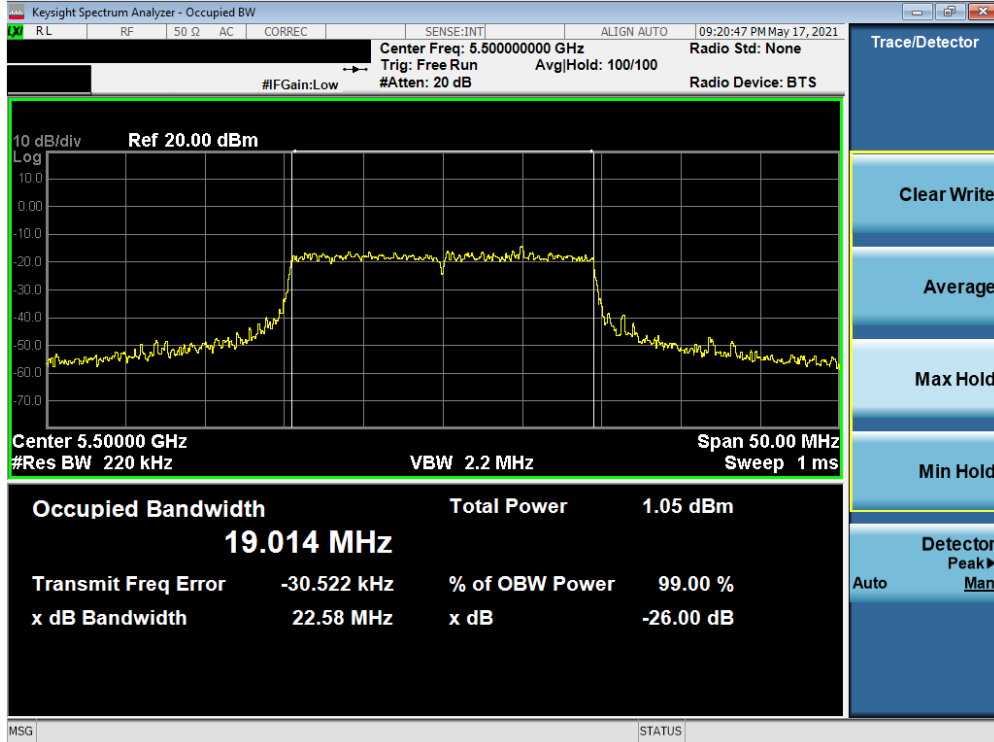


Plot 7-158. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 62)

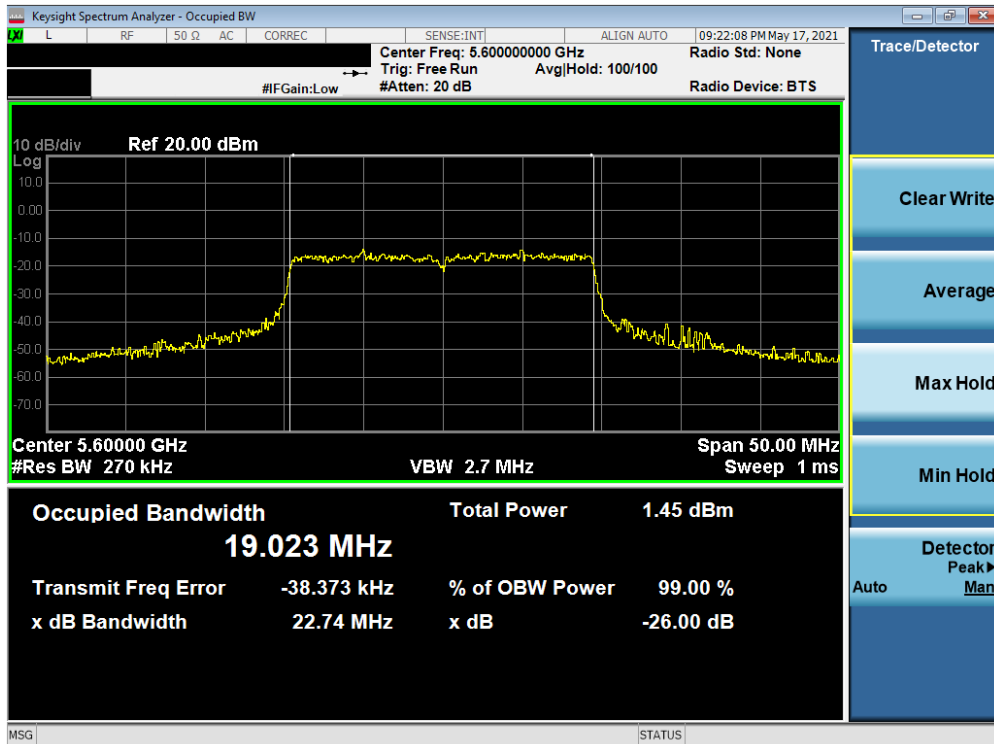


Plot 7-159. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 105 of 413 |

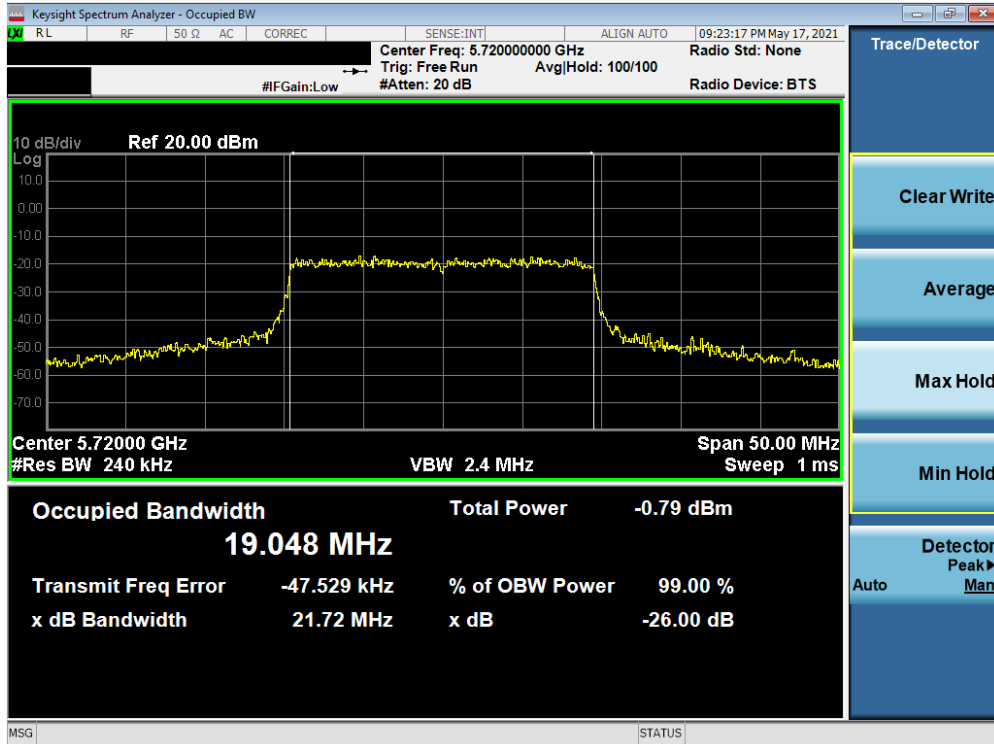


Plot 7-160. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)

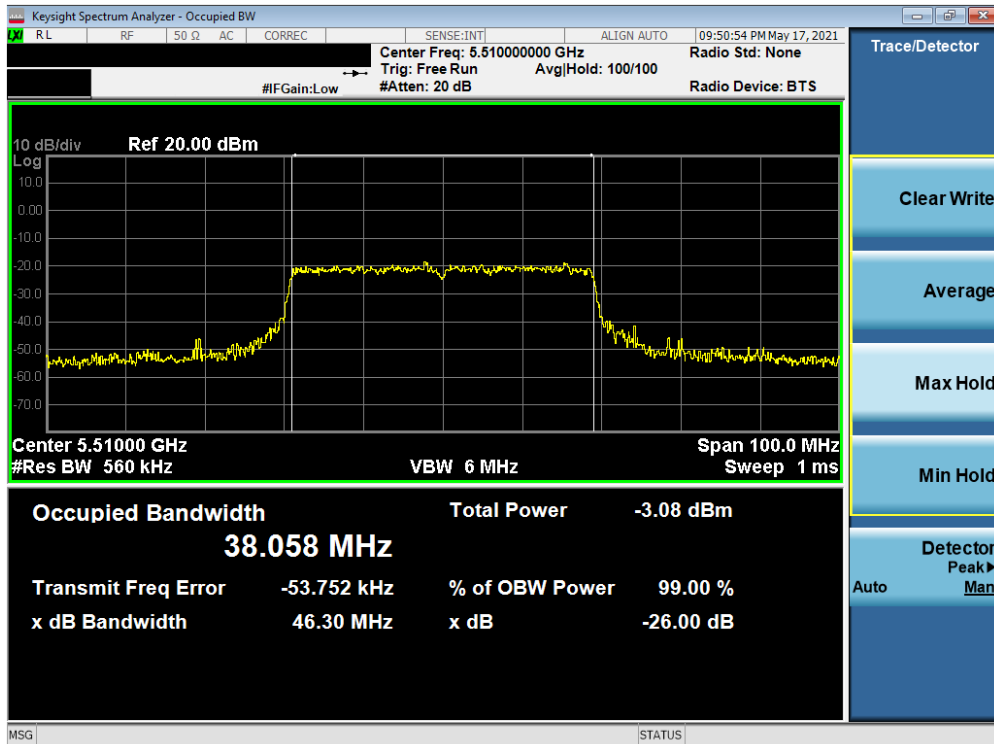


Plot 7-161. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 106 of 413 |

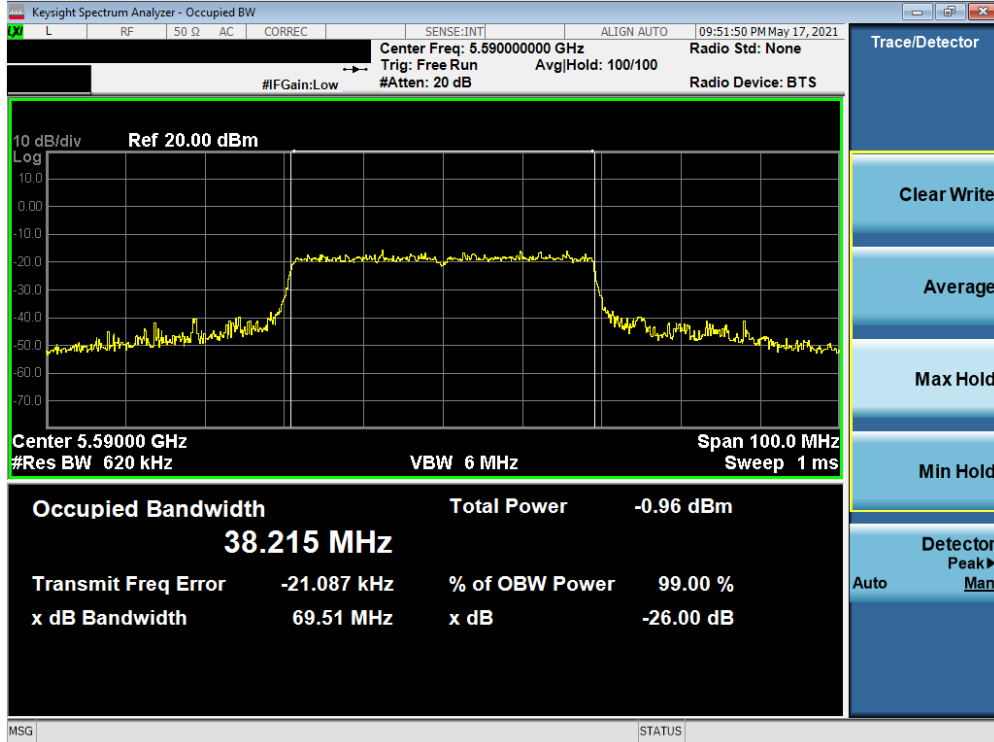


Plot 7-162. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 144)

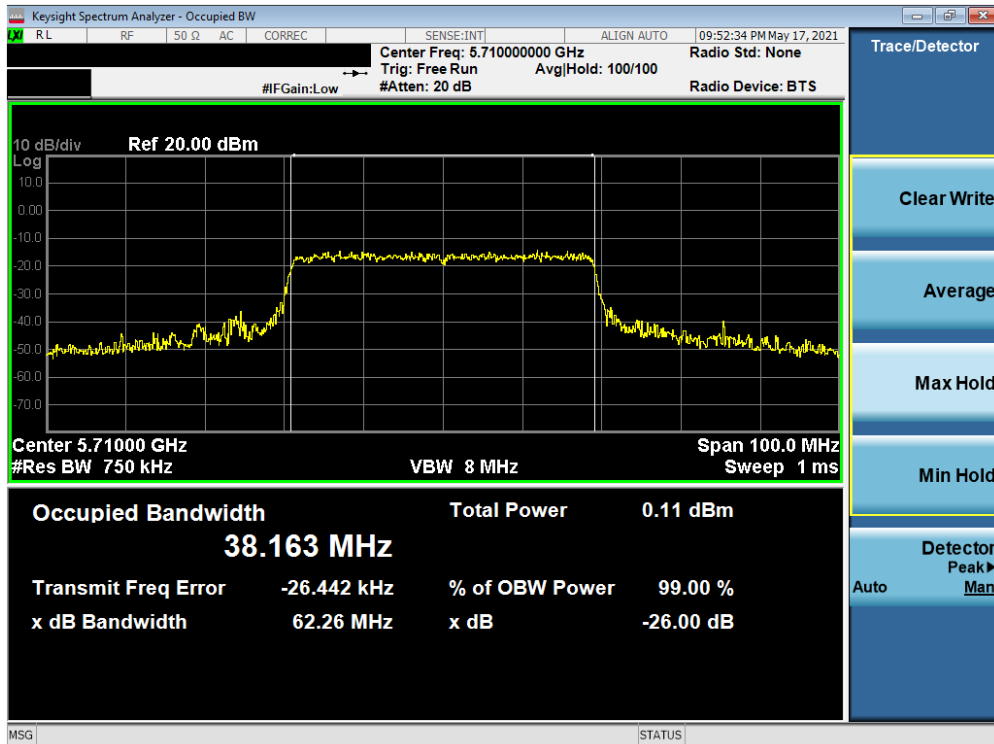


Plot 7-163. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 107 of 413 |

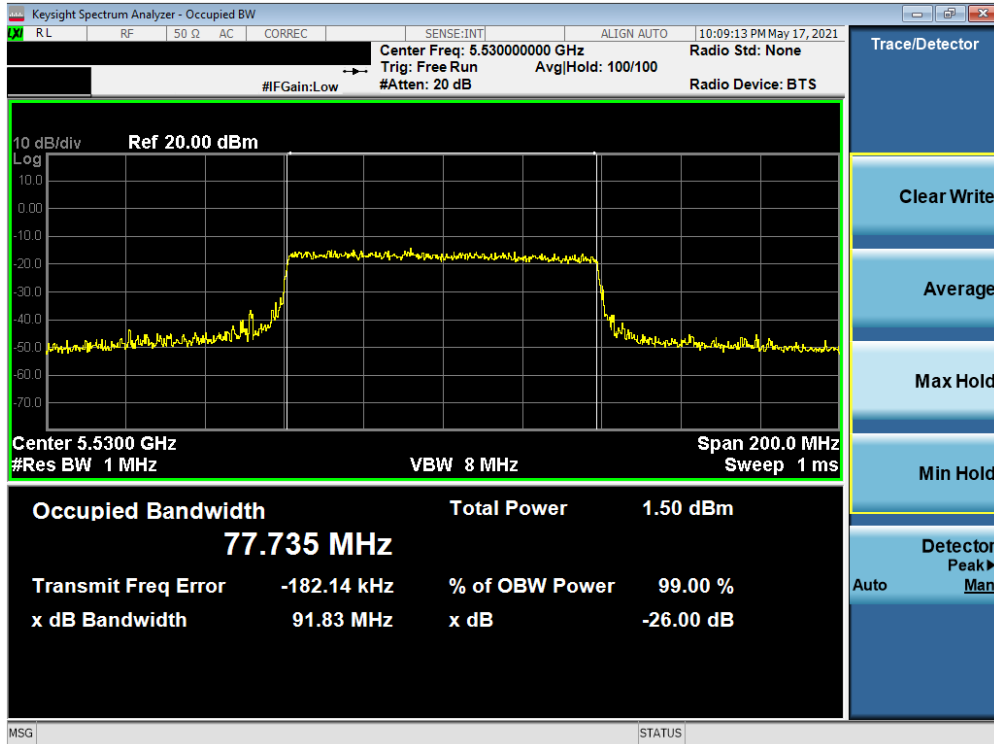


Plot 7-164. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 118)

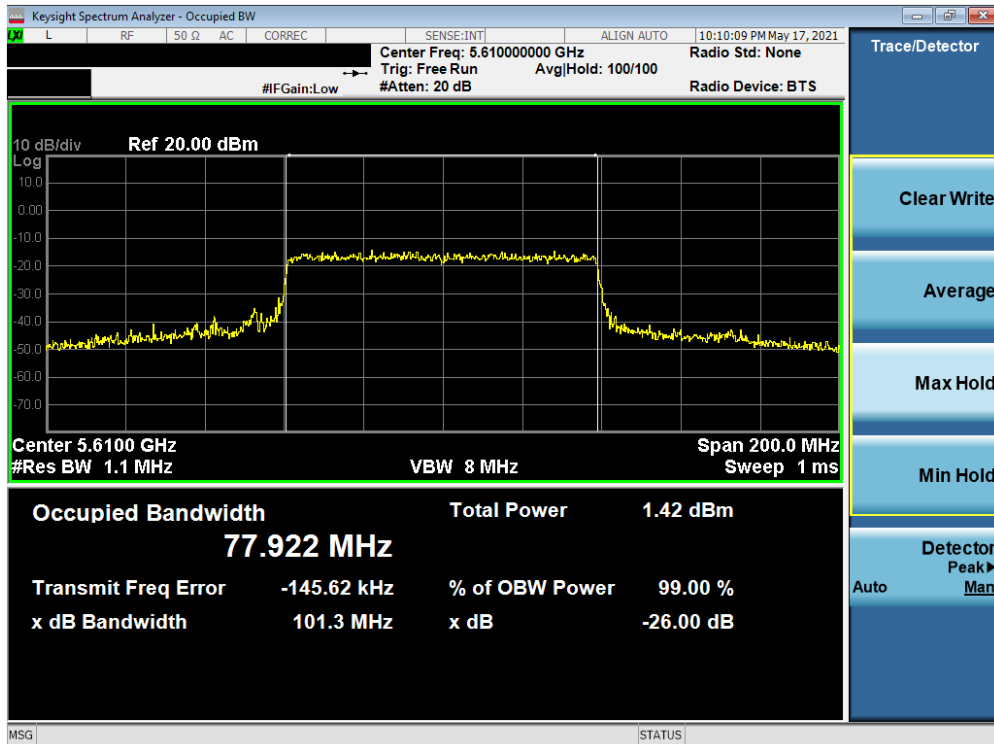


Plot 7-165. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 108 of 413 |

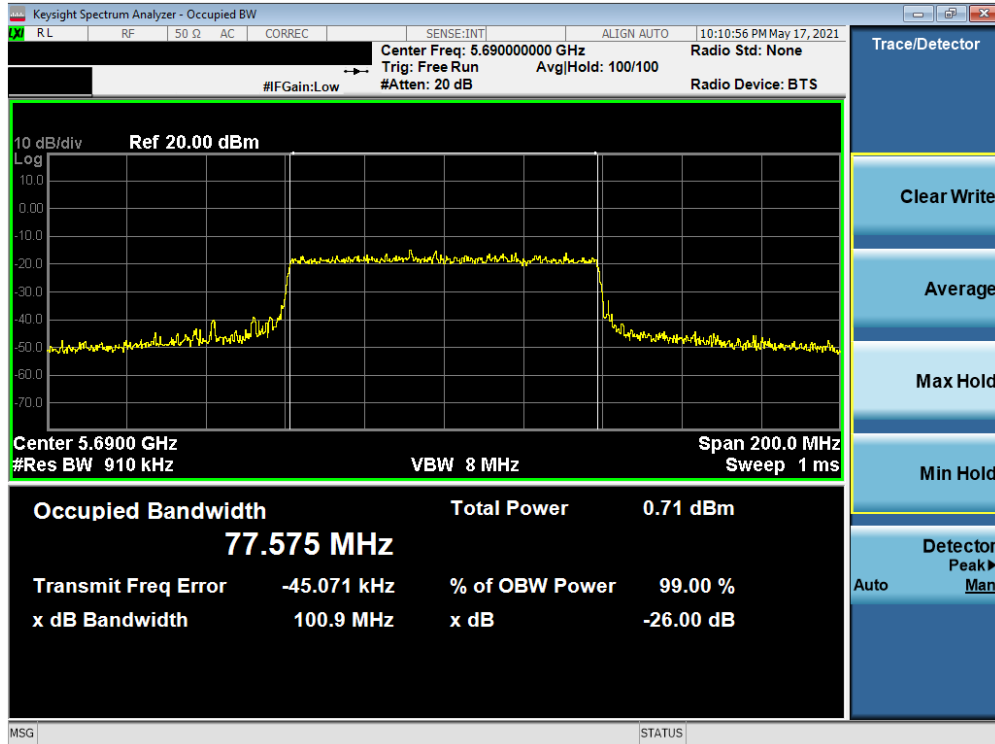


Plot 7-166. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



Plot 7-167. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 109 of 413 |



Plot 7-168. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)

| | | | | |
|---|--|---|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 110 of 413 |

7.3 6dB Bandwidth Measurement – 802.11ax OFDMA §15.407 (e); RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal 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. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 – 5.850GHz band, the 6dB bandwidth must be \geq 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 6.9.2
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

The 6dB Bandwidth measurement for each channel was measured with the RU index showing the highest conducted power.

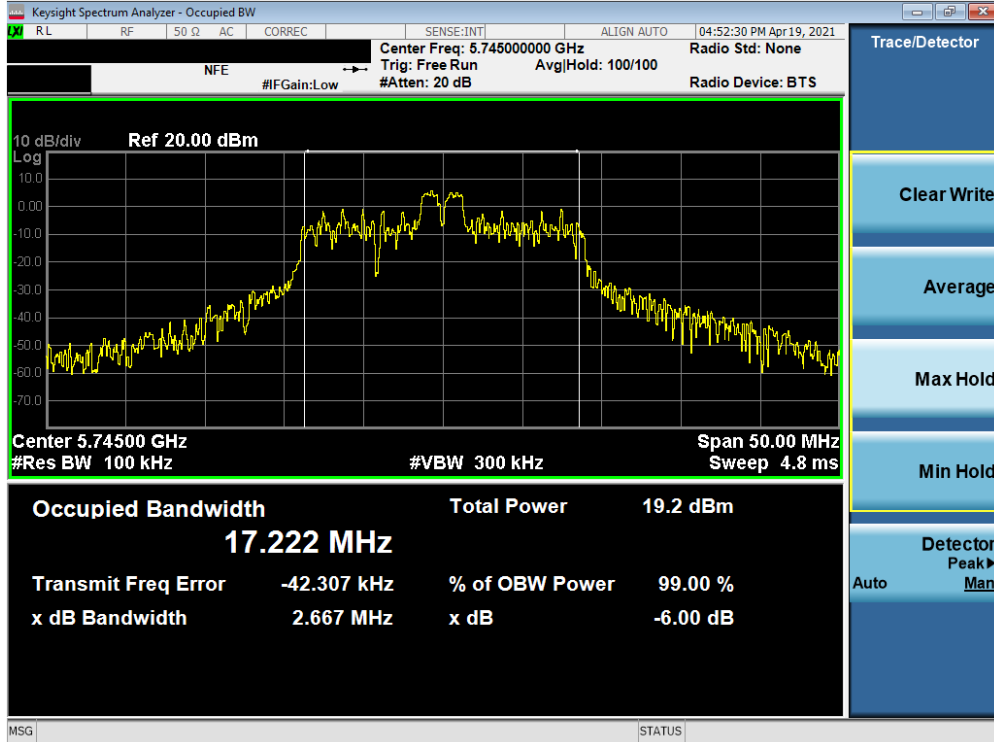
| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 111 of 413 |

SISO Antenna-1 6 dB Bandwidth Measurements (26 Tones) – N

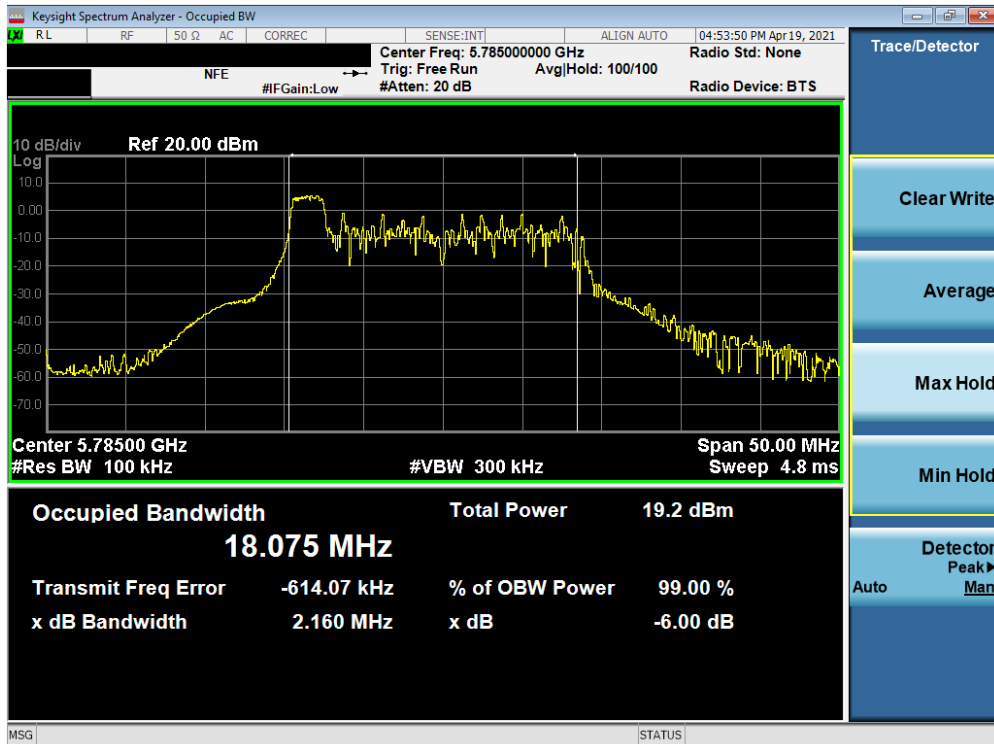
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 26T | MCS0 | 2.67 |
| | 5785 | 157 | ax (20MHz) | 26T | MCS0 | 2.16 |
| | 5825 | 165 | ax (20MHz) | 26T | MCS0 | 2.68 |
| | 5755 | 151 | ax (40MHz) | 26T | MCS0 | 2.20 |
| | 5795 | 159 | ax (40MHz) | 26T | MCS0 | 2.16 |
| | 5775 | 155 | ax (80MHz) | 26T | MCS0 | 2.88 |

Table 7-10. Conducted Bandwidth Measurements SISO ANT1 (26 Tones)

| | | | | |
|--|--|---|---|--|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 112 of 413 |

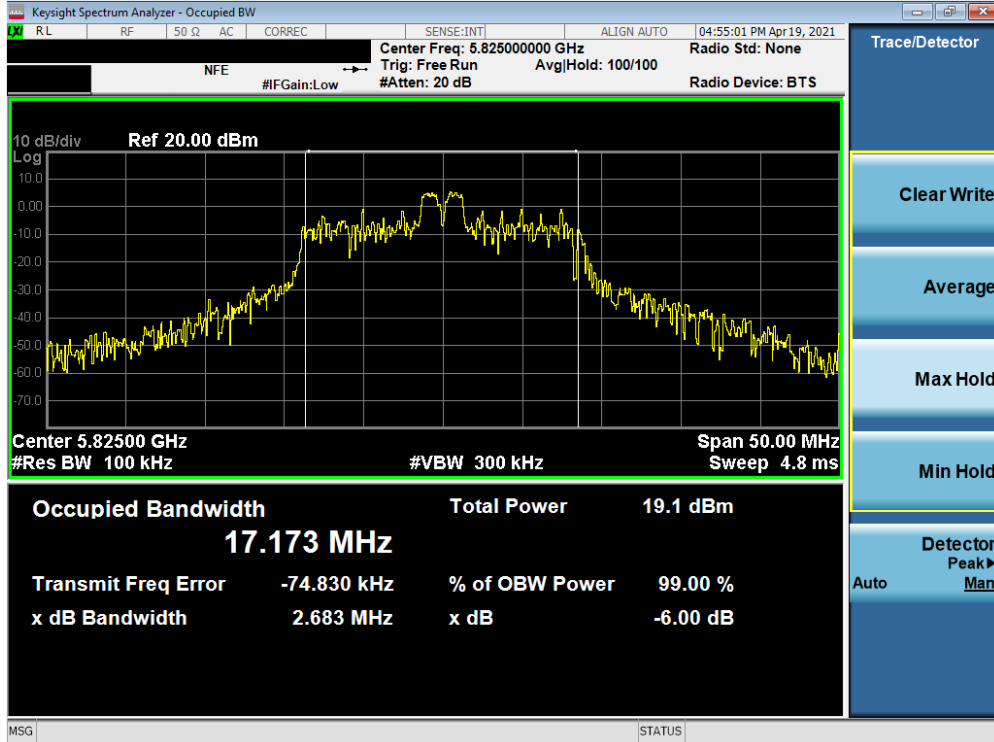


Plot 7-169. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

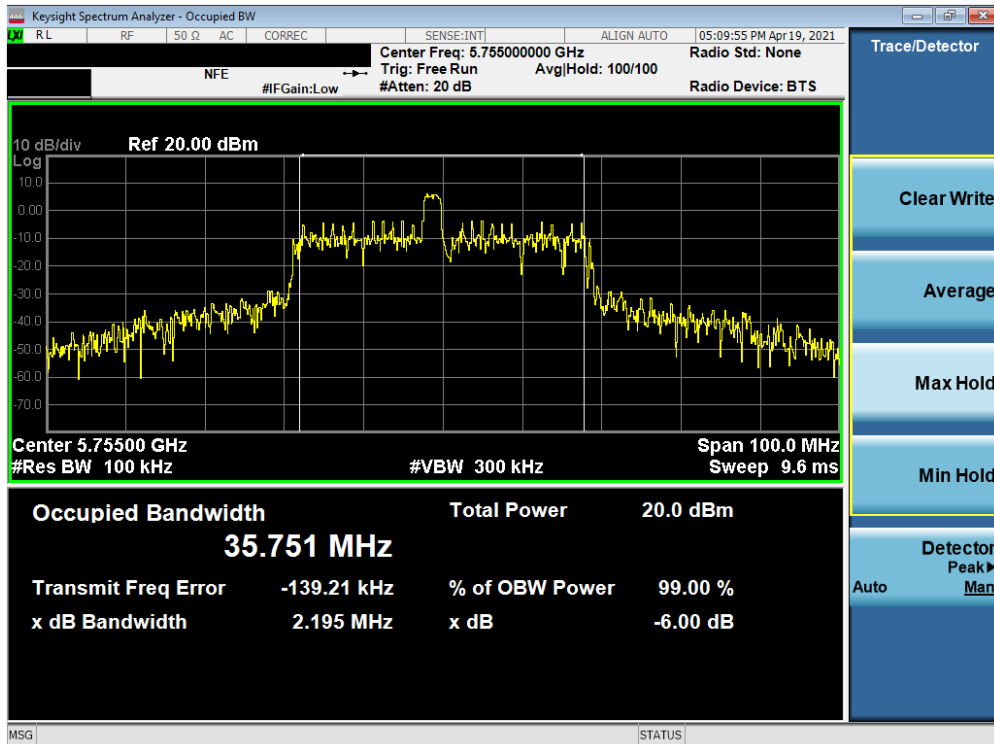


Plot 7-170. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 113 of 413 |

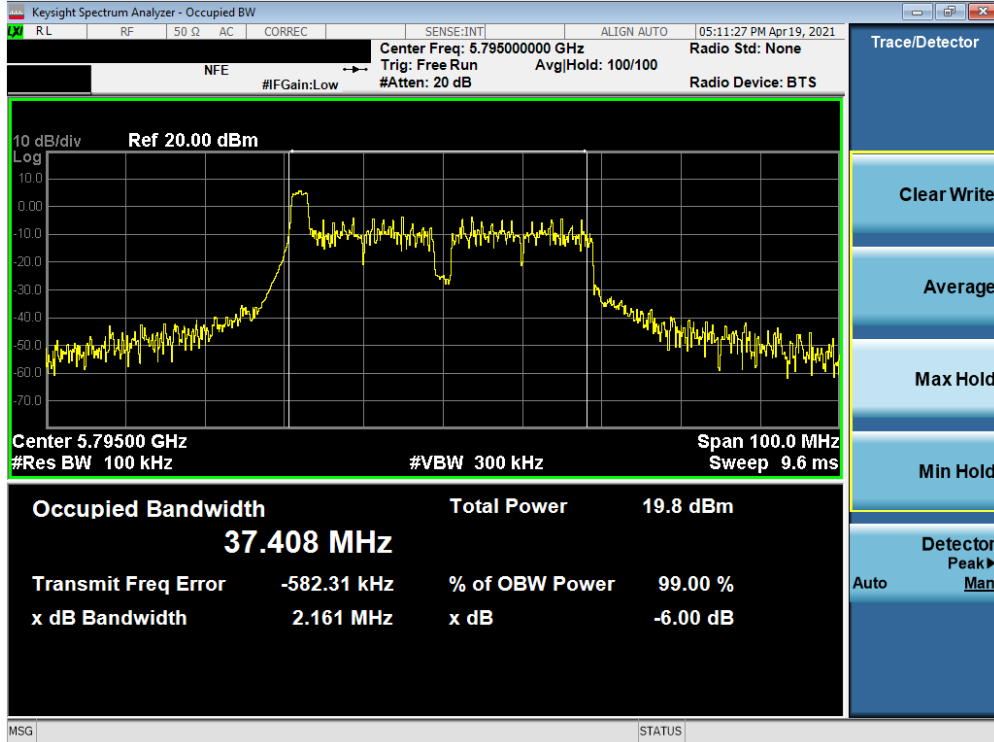


Plot 7-171. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

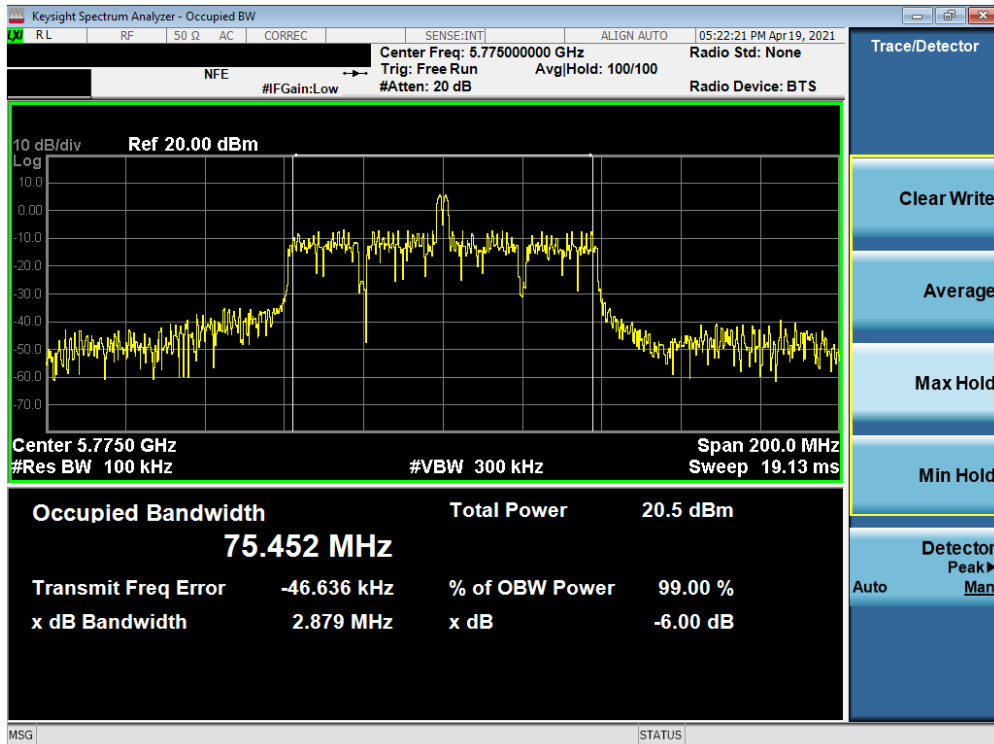


Plot 7-172. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 114 of 413 |



Plot 7-173. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-174. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

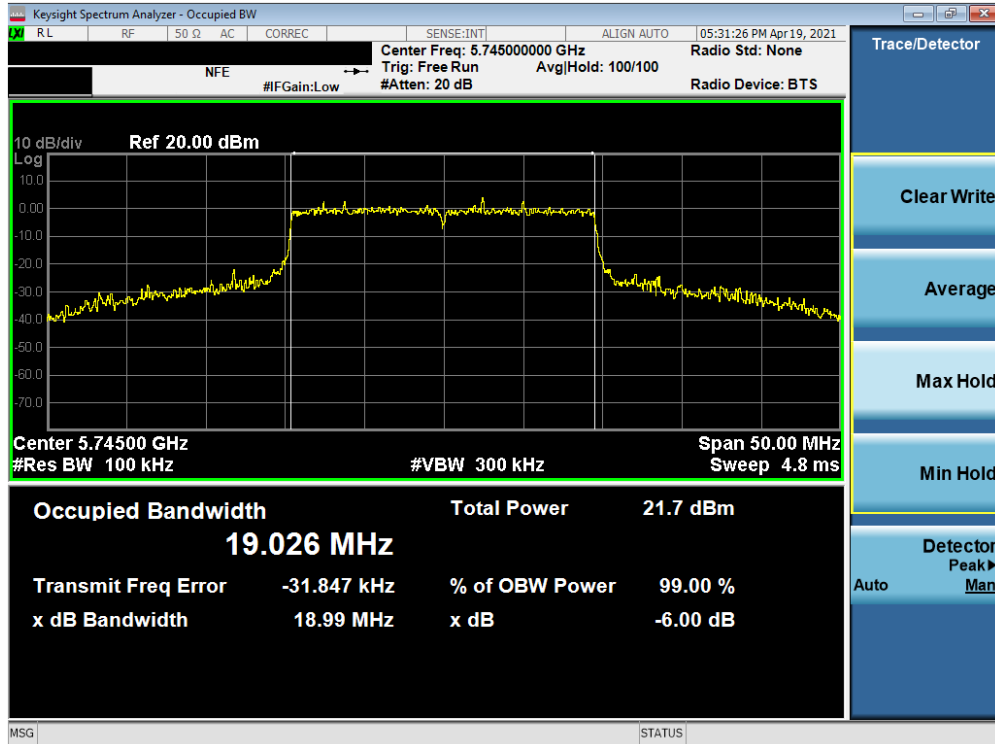
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 115 of 413 |

SISO Antenna-1 6 dB Bandwidth Measurements (Full Tones) – N

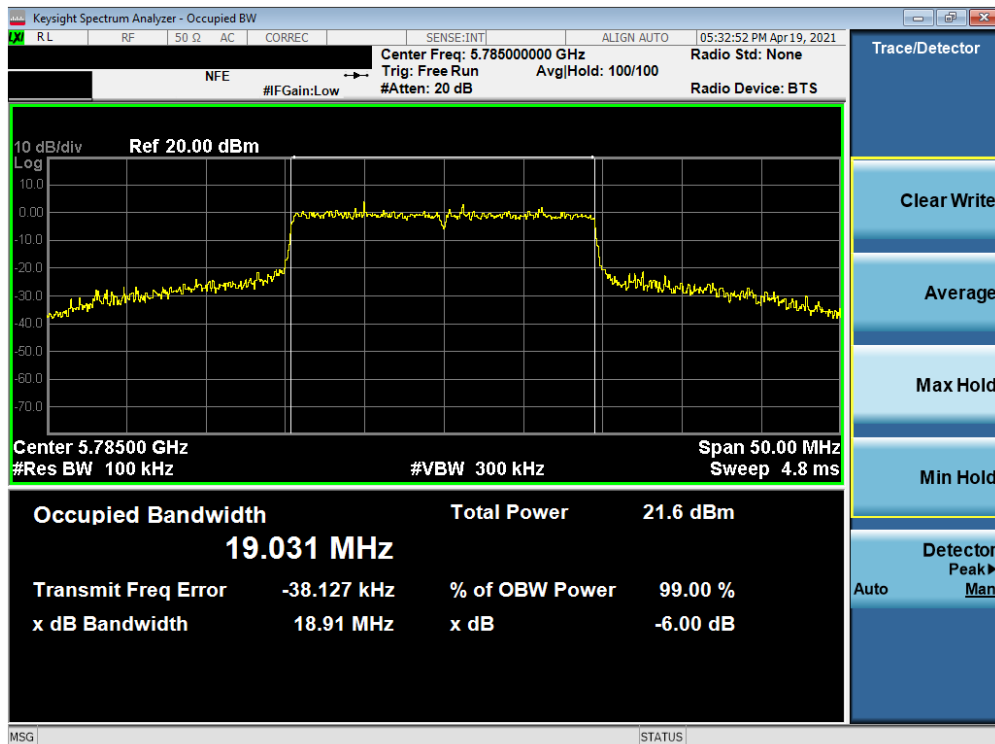
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 242T | MCS0 | 18.99 |
| | 5785 | 157 | ax (20MHz) | 242T | MCS0 | 18.91 |
| | 5825 | 165 | ax (20MHz) | 242T | MCS0 | 19.04 |
| | 5755 | 151 | ax (40MHz) | 484T | MCS0 | 37.98 |
| | 5795 | 159 | ax (40MHz) | 484T | MCS0 | 38.01 |
| | 5775 | 155 | ax (80MHz) | 996T | MCS0 | 77.91 |

Table 7-11. Conducted Bandwidth Measurements SISO ANT1 (Full Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 116 of 413 |

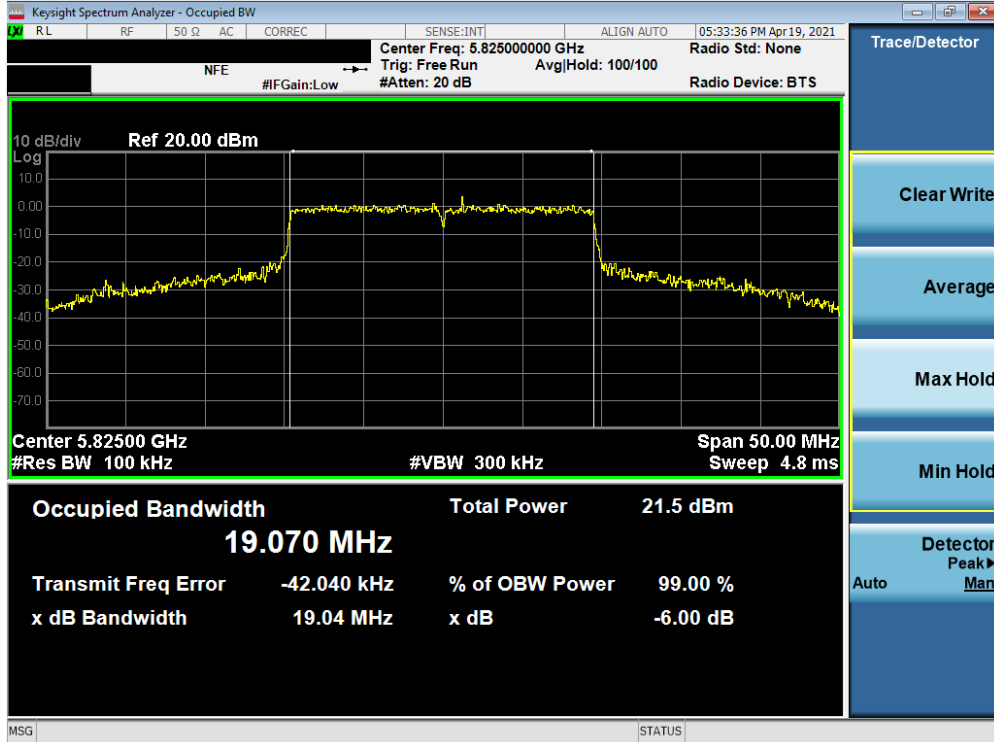


Plot 7-175. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

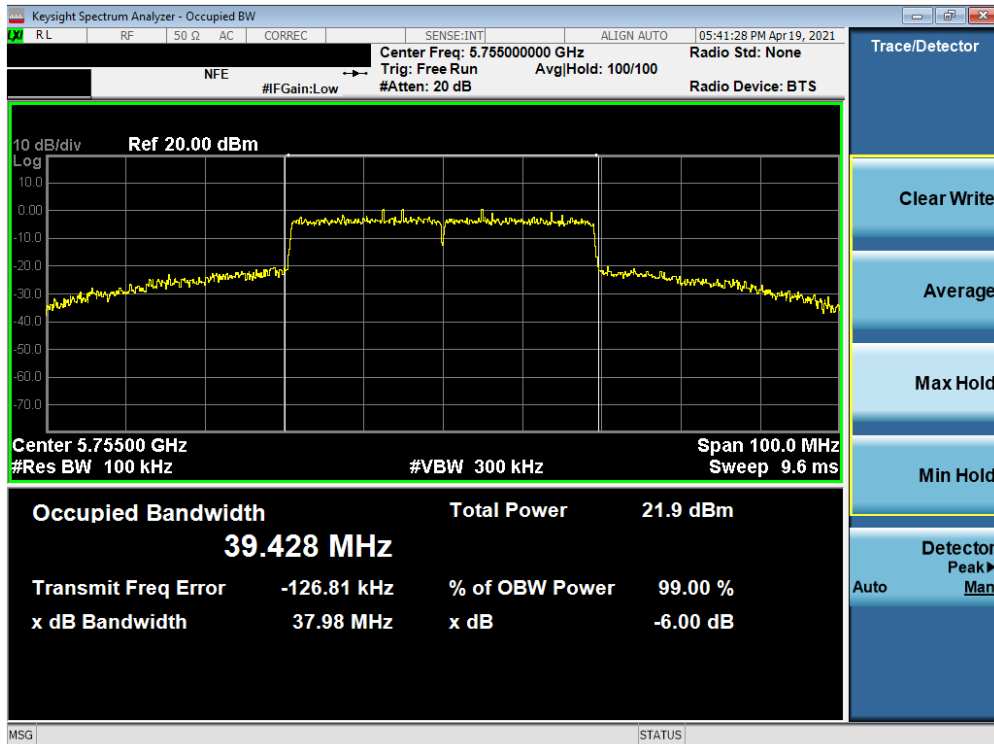


Plot 7-176. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 117 of 413 |

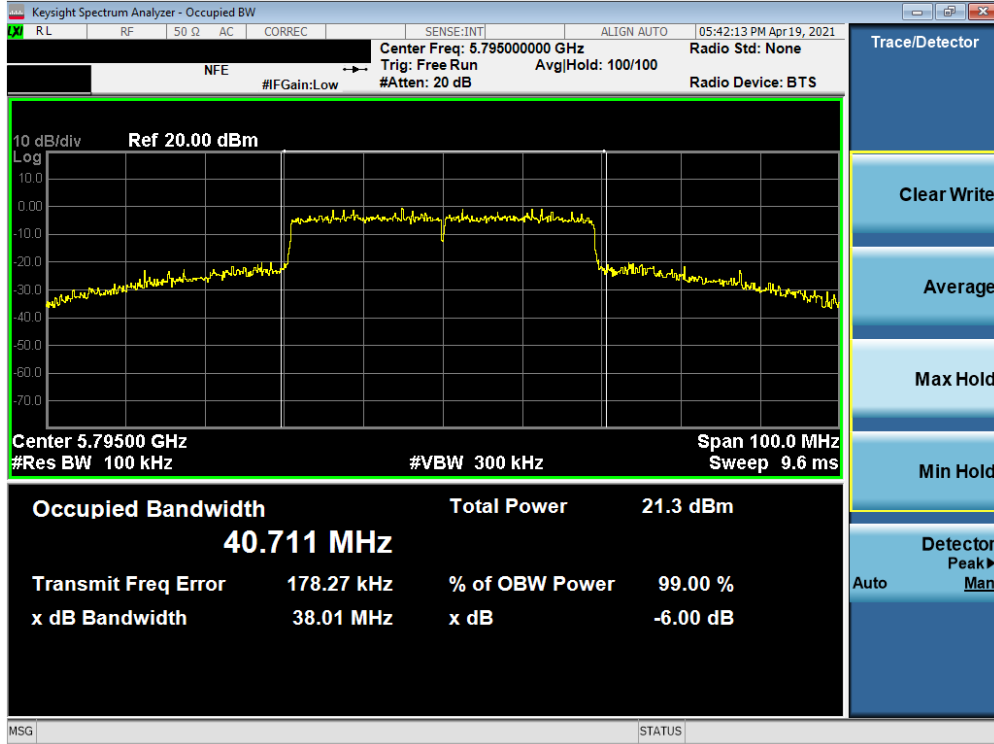


Plot 7-177. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

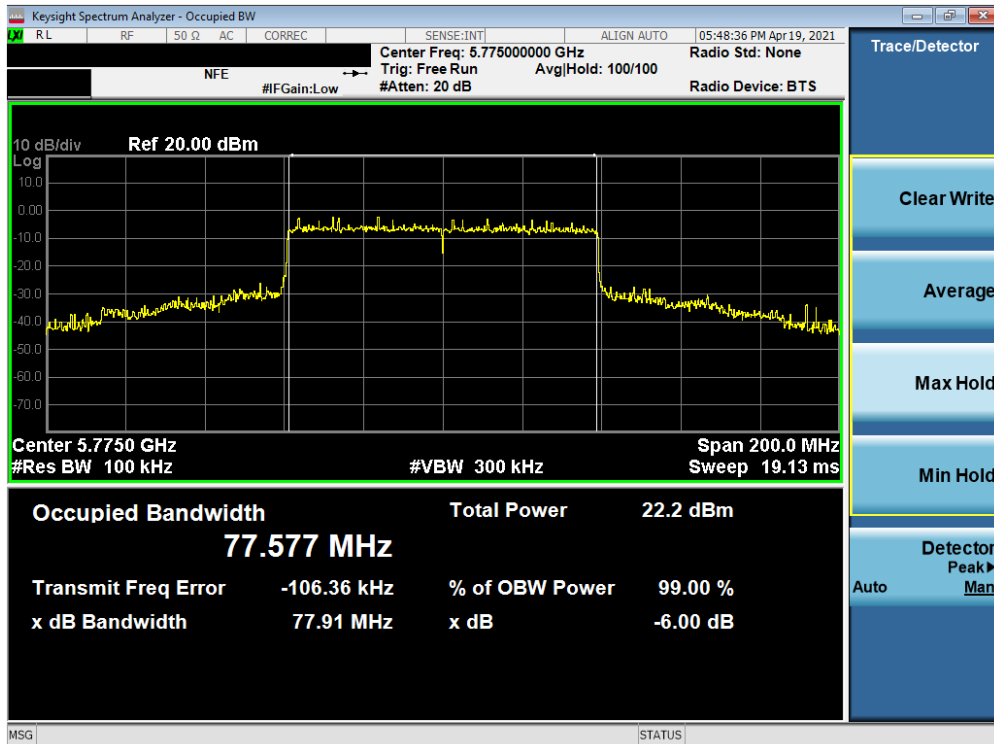


Plot 7-178. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 118 of 413 |



Plot 7-179. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-180. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

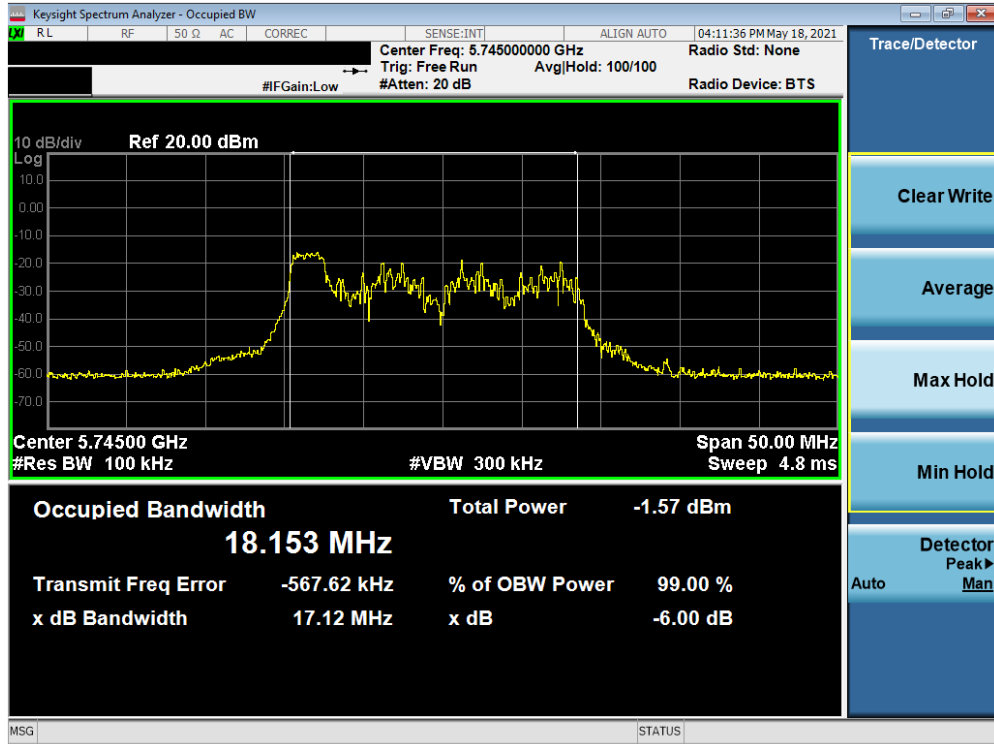
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 119 of 413 |

MIMO 6dB Bandwidth Measurements (26 Tones) – N

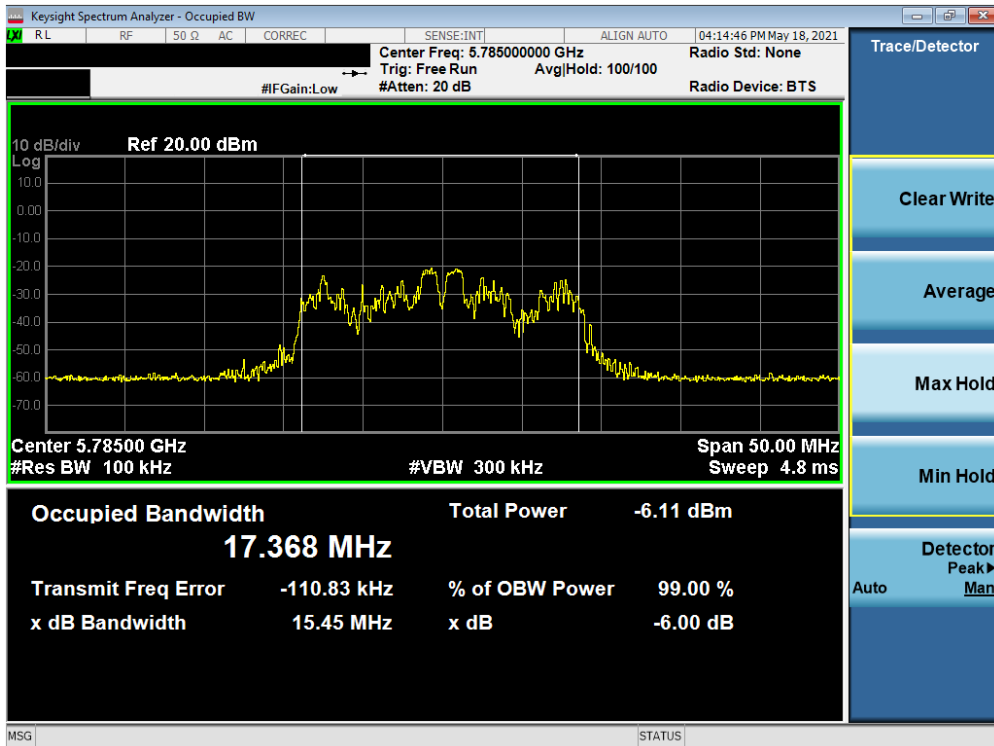
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 26T | MCS0 | 17.12 |
| | 5785 | 157 | ax (20MHz) | 26T | MCS0 | 15.45 |
| | 5825 | 165 | ax (20MHz) | 26T | MCS0 | 2.57 |
| | 5755 | 151 | ax (40MHz) | 26T | MCS0 | 36.66 |
| | 5795 | 159 | ax (40MHz) | 26T | MCS0 | 2.17 |
| | 5775 | 155 | ax (80MHz) | 26T | MCS0 | 2.80 |

Table 7-12. Conducted Bandwidth Measurements MIMO (26 Tones)

| | | | | |
|--|--|---|---|--|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 120 of 413 |

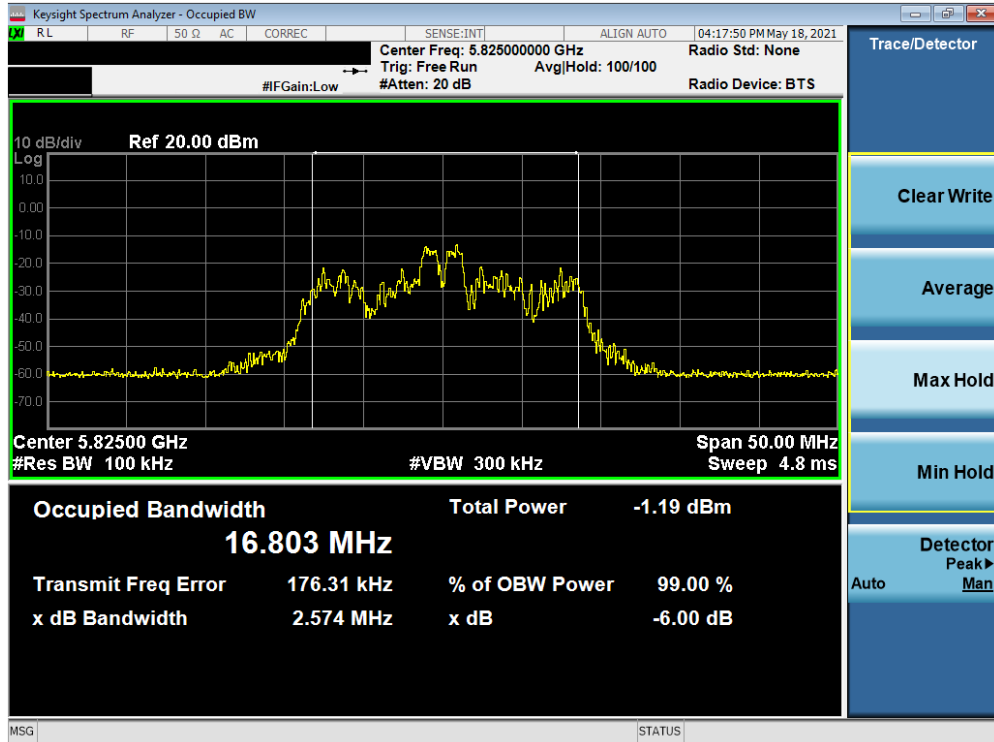


Plot 7-181. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

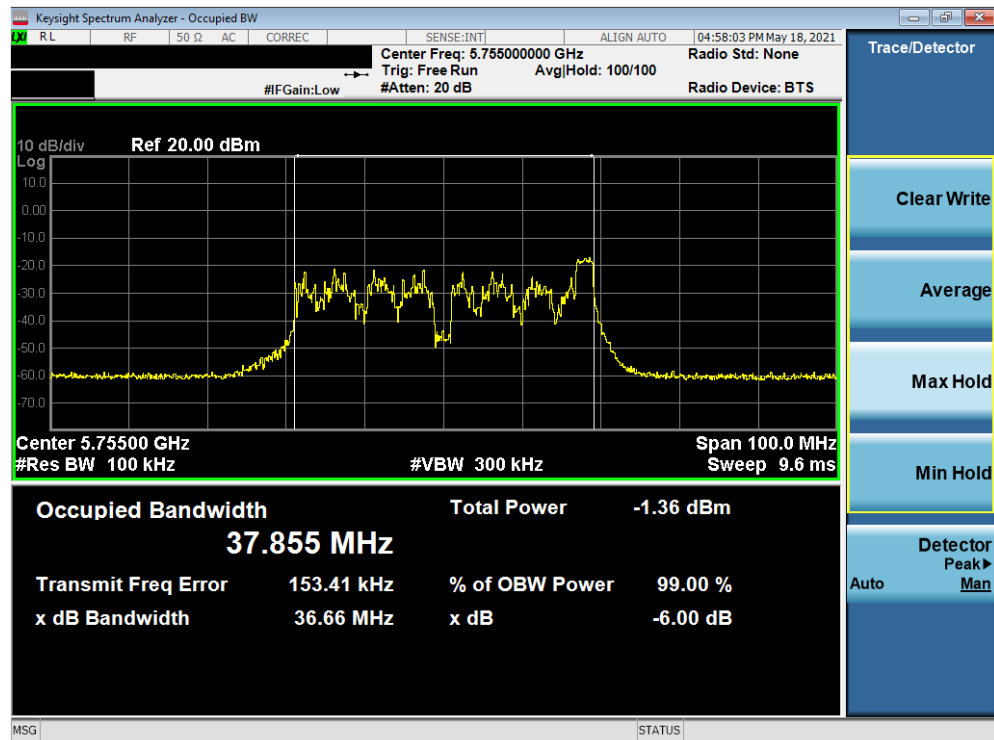


Plot 7-182. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 121 of 413 |

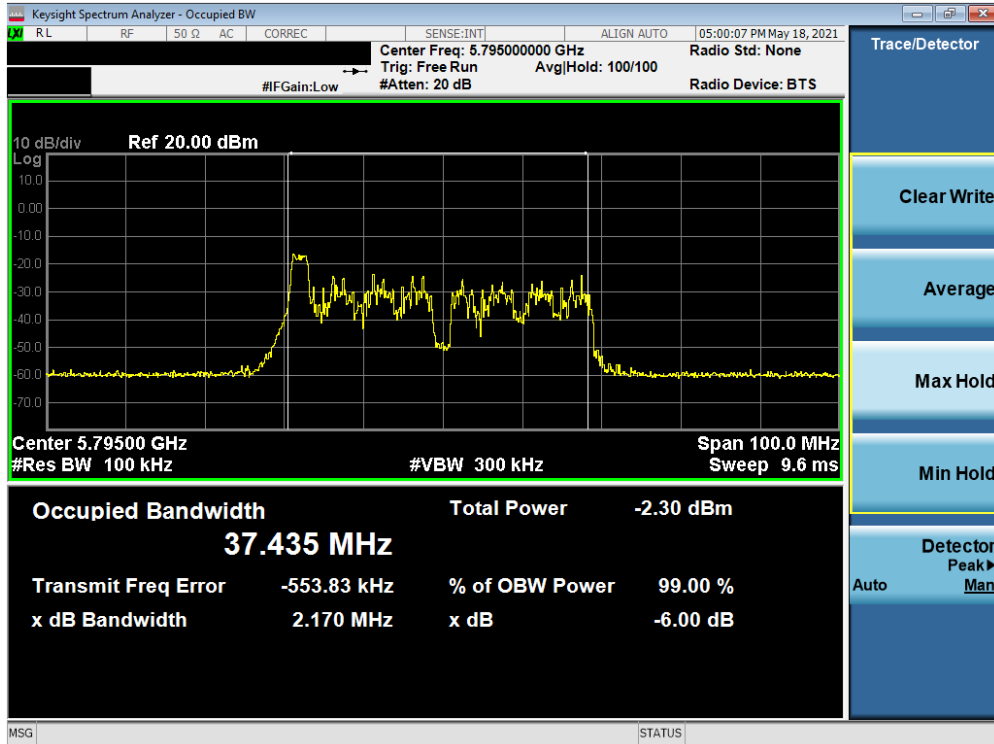


Plot 7-183. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

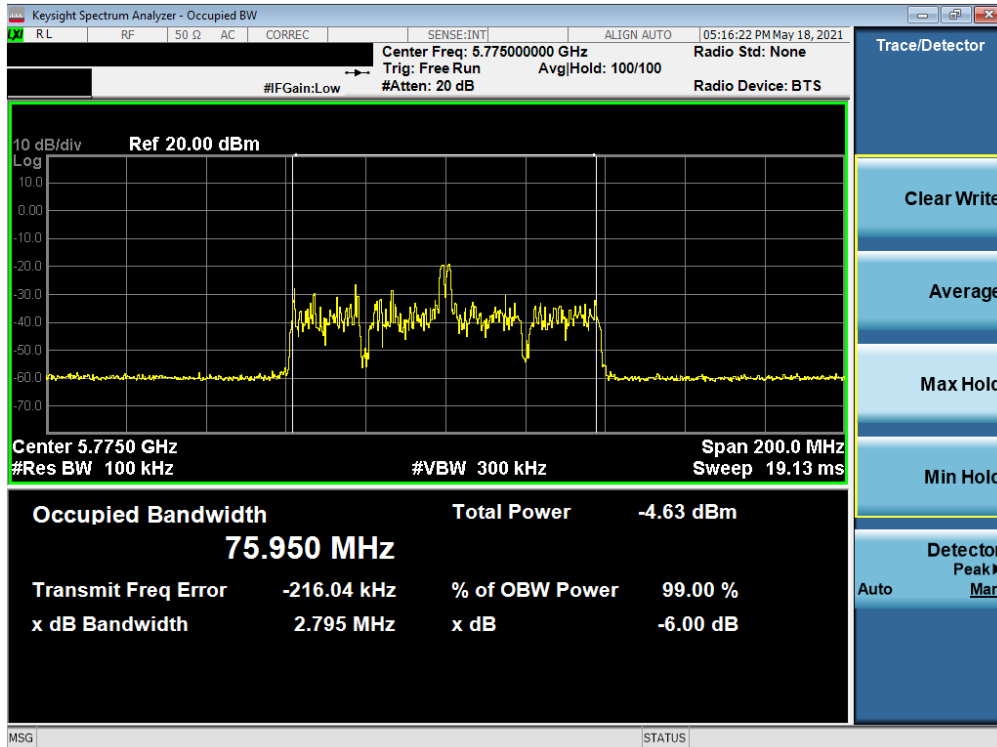


Plot 7-184. 6dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 122 of 413 |



Plot 7-185. 6dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-186. 6dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

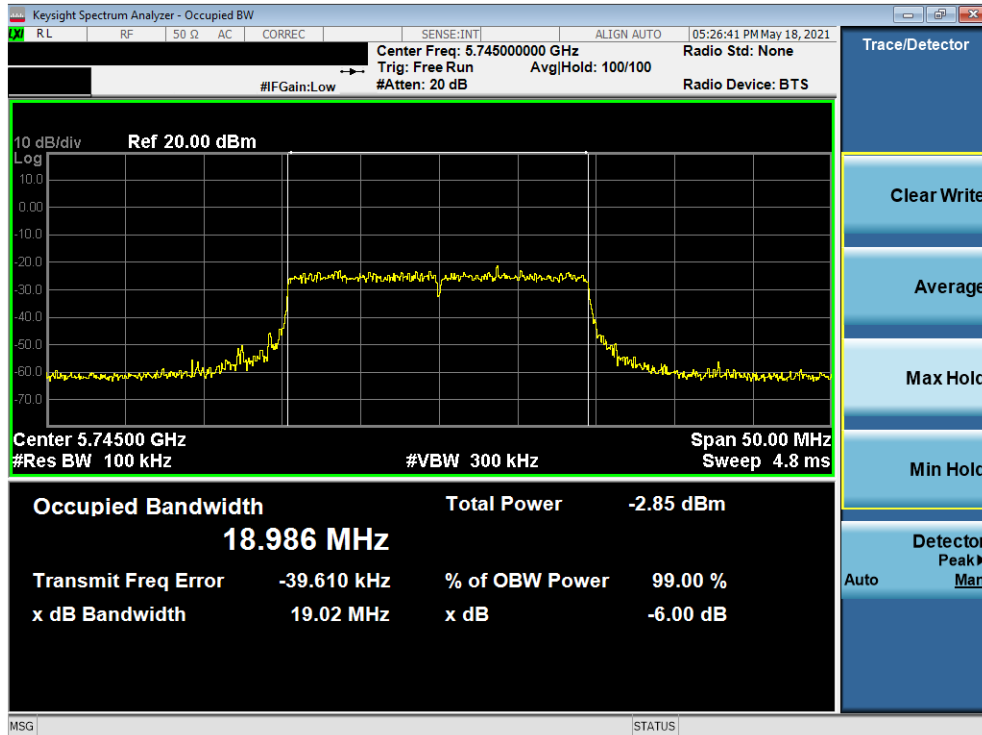
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 123 of 413 |

MIMO 6dB Bandwidth Measurements (Full Tones) – N

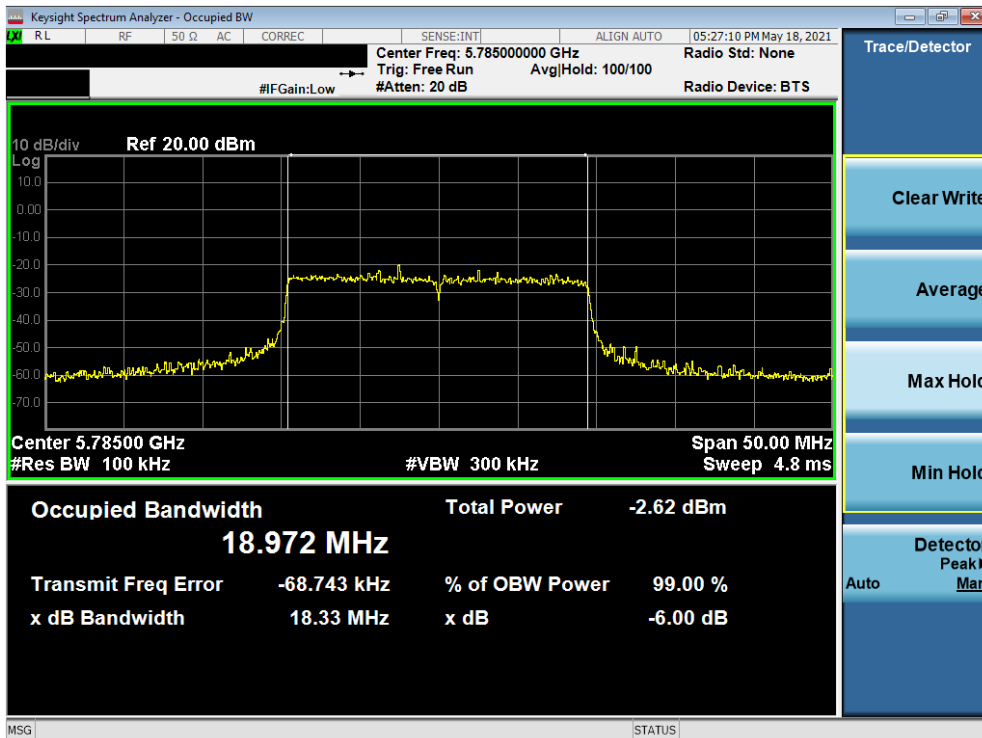
| | Frequency [MHz] | Channel No. | 802.11 Mode | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|---------------|-----------------|-------------|-------------|------------------|------------------------------|
| Band 3 | 5745 | 149 | ax (20MHz) | MCS0 | 19.02 |
| | 5785 | 157 | ax (20MHz) | MCS0 | 18.33 |
| | 5825 | 165 | ax (20MHz) | MCS0 | 18.88 |
| | 5755 | 151 | ax (40MHz) | MCS0 | 36.70 |
| | 5795 | 159 | ax (40MHz) | MCS0 | 37.71 |
| | 5775 | 155 | ax (80MHz) | MCS0 | 77.91 |

Table 7-13. Conducted Bandwidth Measurements MIMO (Full Tones)

| | | | | |
|--|---|---|---|--|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 124 of 413 |

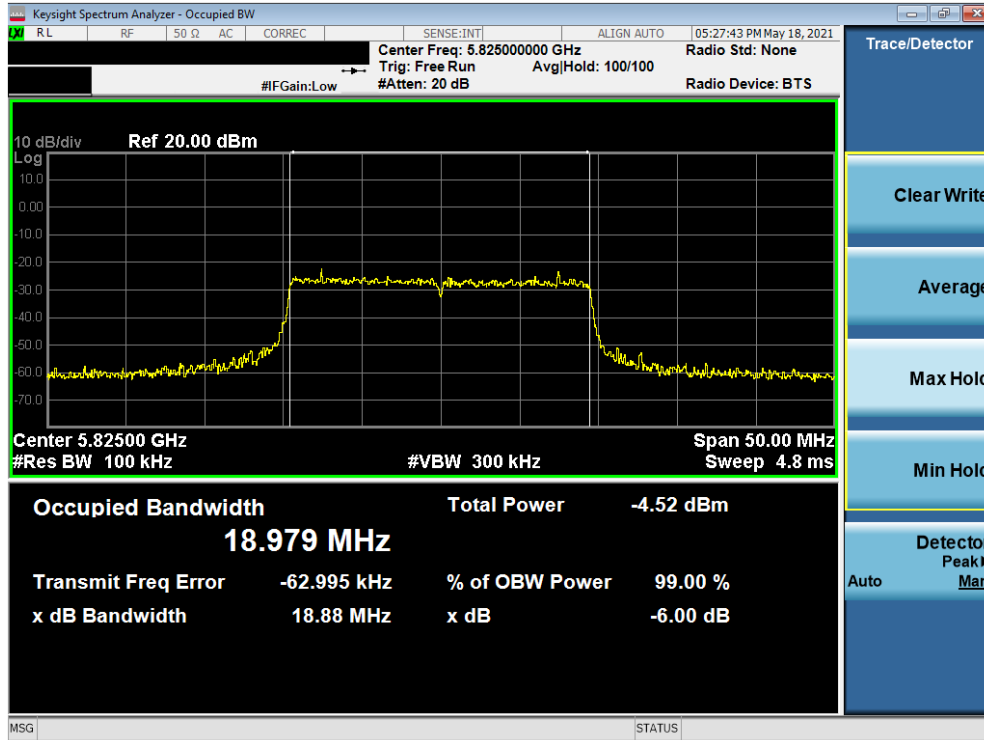


Plot 7-187. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

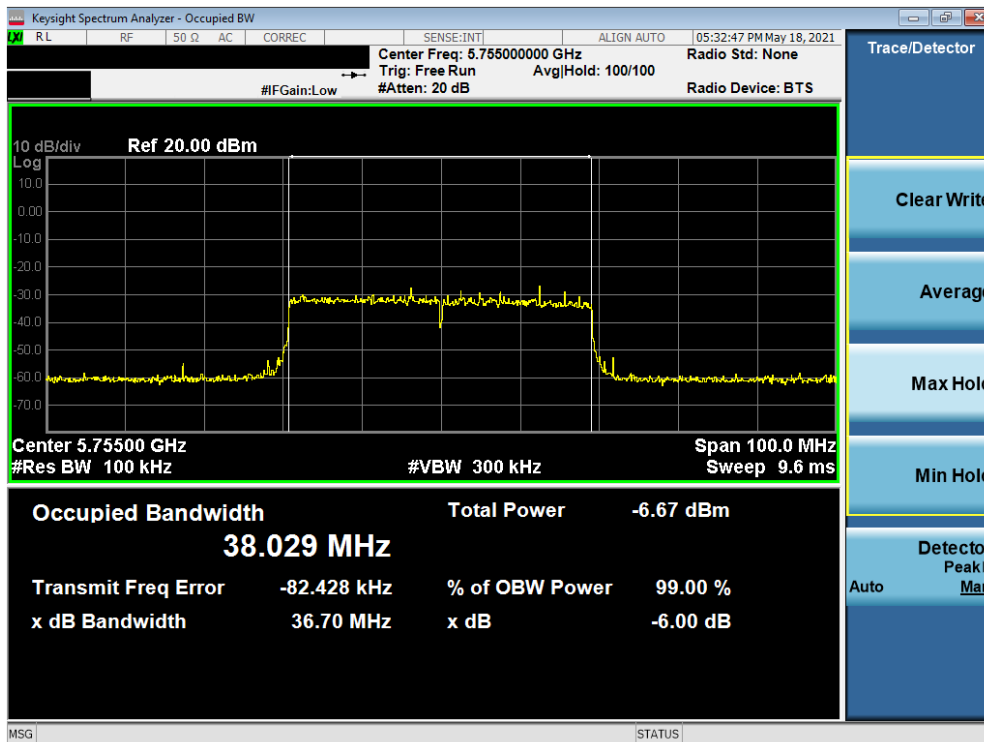


Plot 7-188. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|--|-----------------------------------|
| FCC ID: A3LSMF711U | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 125 of 413 |

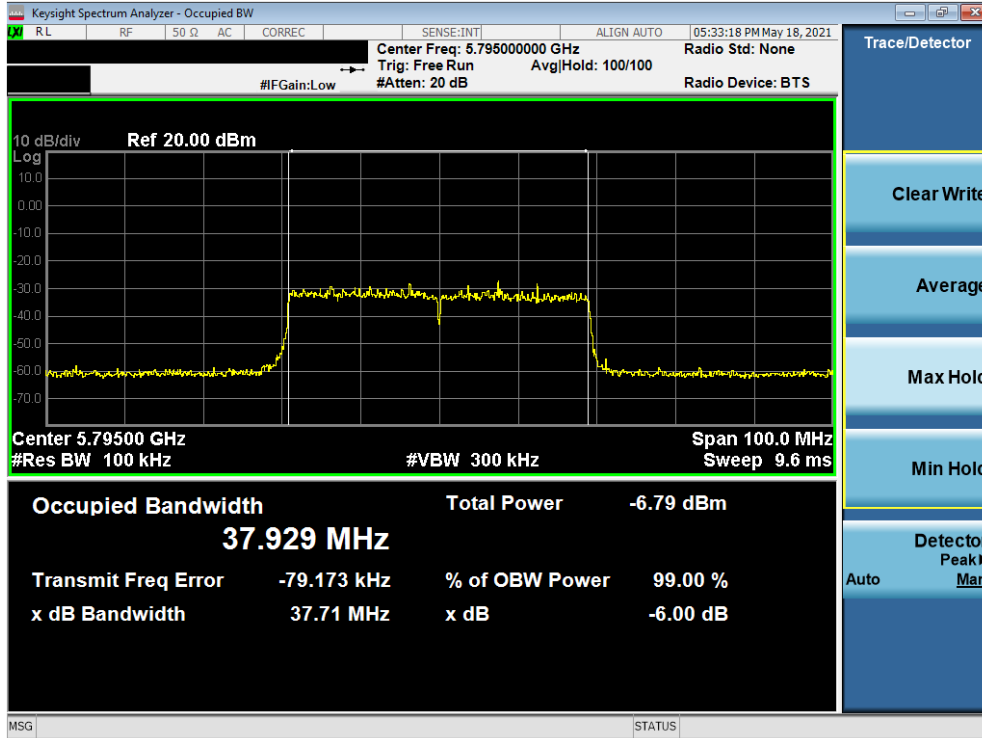


Plot 7-189. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

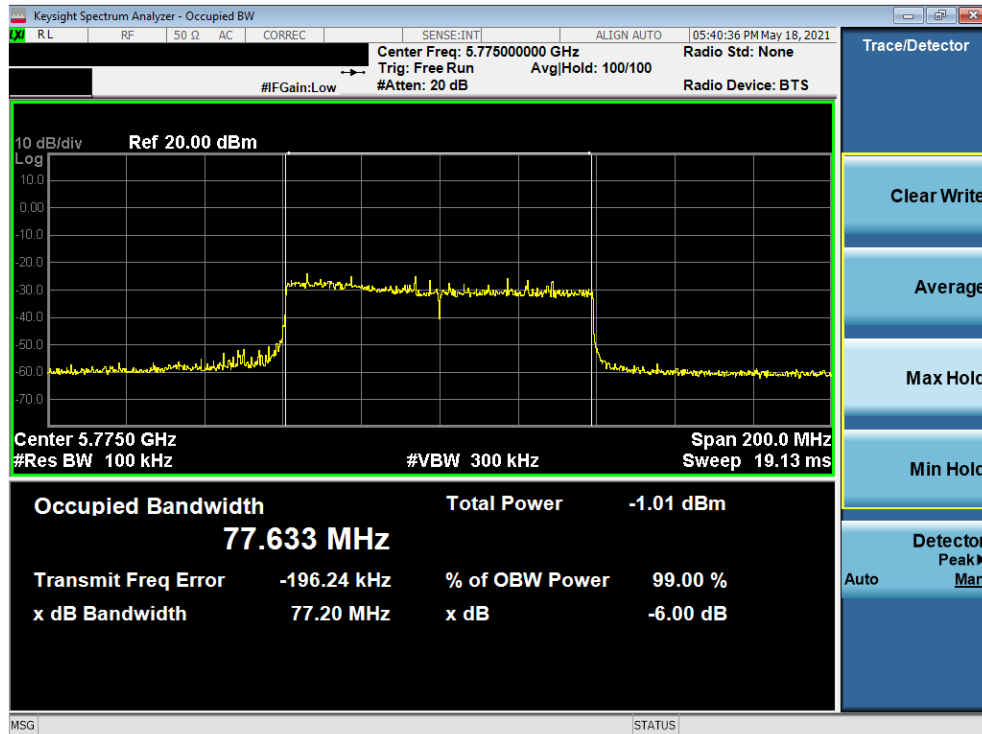


Plot 7-190. 6dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 126 of 413 |



Plot 7-191. 6dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-192. 6dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

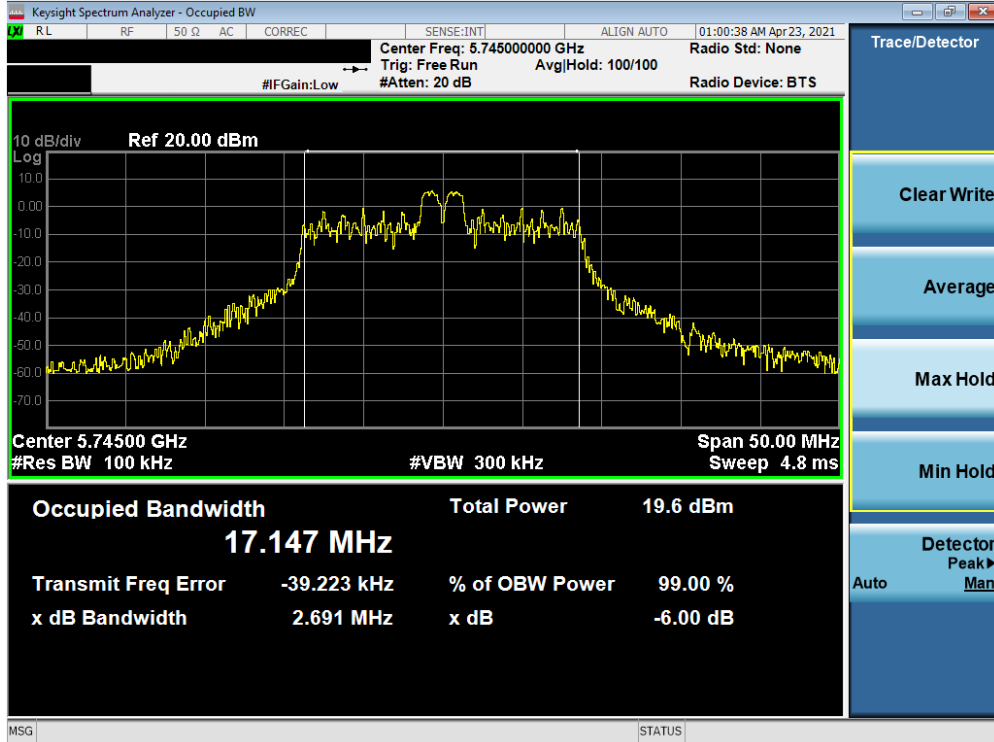
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 127 of 413 |

SISO Antenna-1 6 dB Bandwidth Measurements (26 Tones) – Q

| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 26T | MCS0 | 2.69 |
| | 5785 | 157 | ax (20MHz) | 26T | MCS0 | 2.14 |
| | 5825 | 165 | ax (20MHz) | 26T | MCS0 | 2.67 |
| | 5755 | 151 | ax (40MHz) | 26T | MCS0 | 2.20 |
| | 5795 | 159 | ax (40MHz) | 26T | MCS0 | 2.15 |
| | 5775 | 155 | ax (80MHz) | 26T | MCS0 | 2.86 |

Table 7-14. Conducted Bandwidth Measurements SISO ANT1 (26 Tones)

| | | | | |
|--|---|---|---|--|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 128 of 413 |

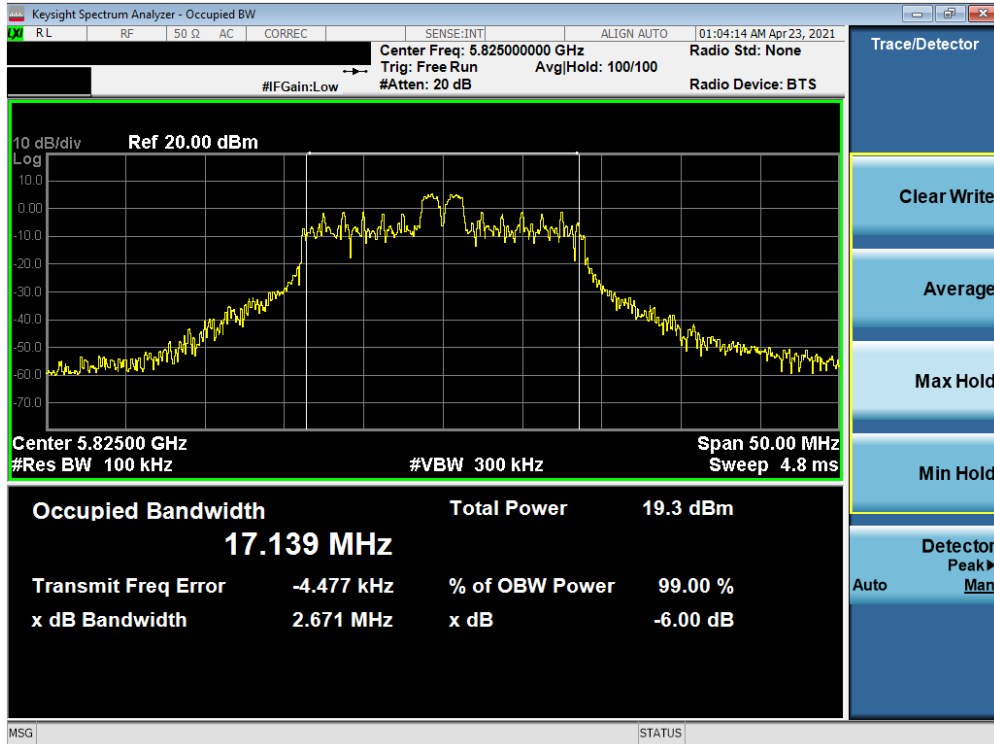


Plot 7-193. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

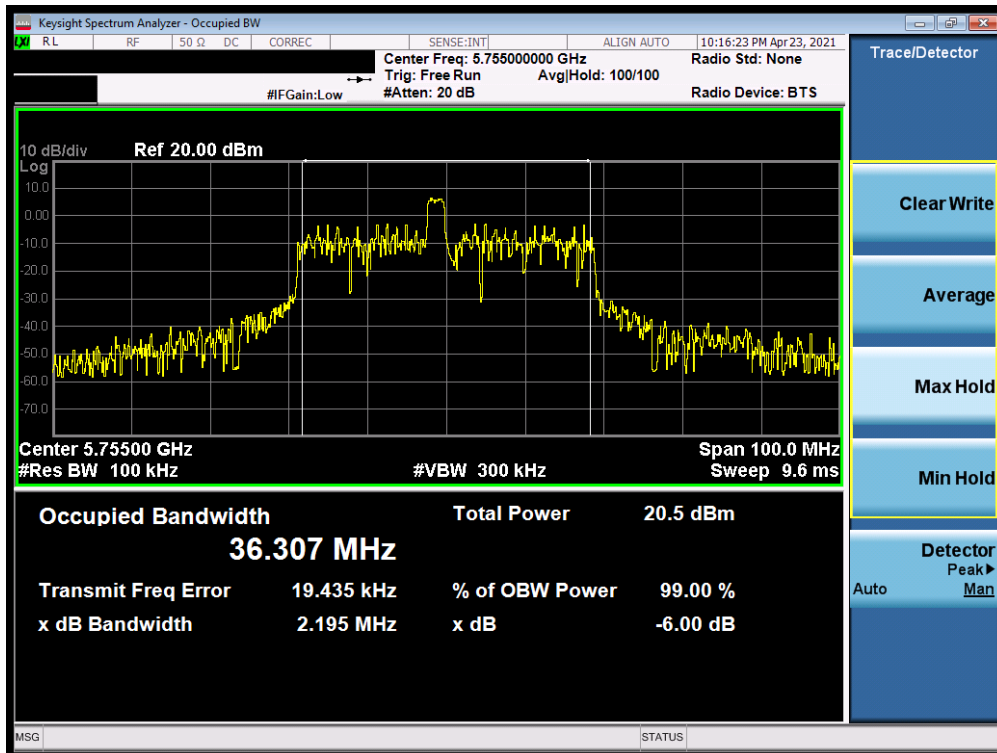


Plot 7-194. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 129 of 413 |

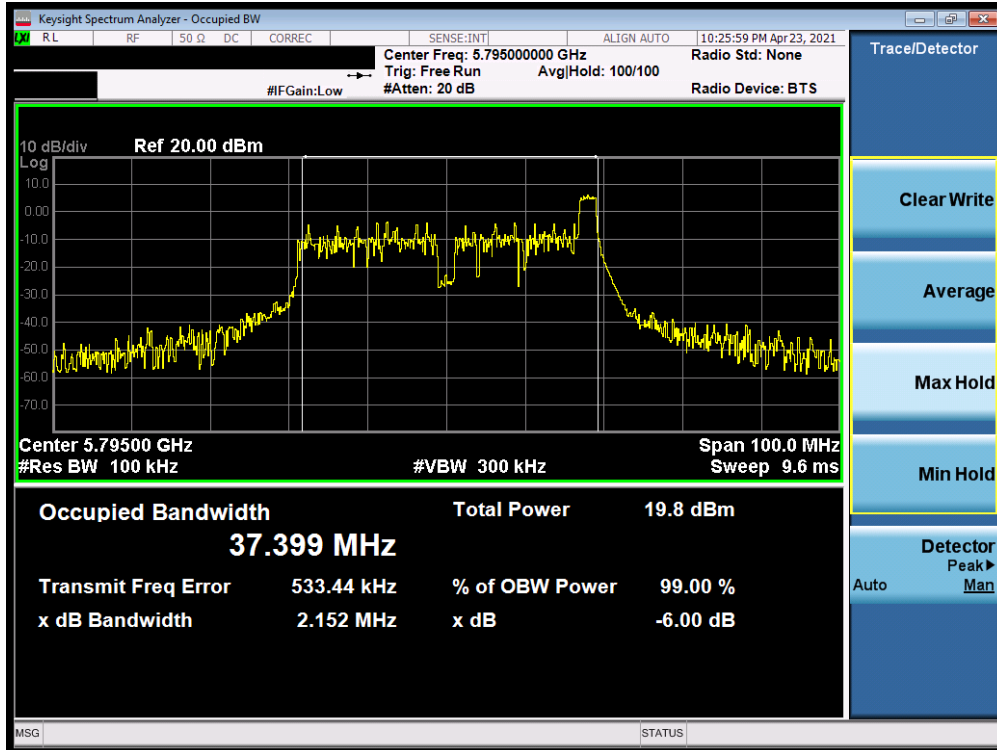


Plot 7-195. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

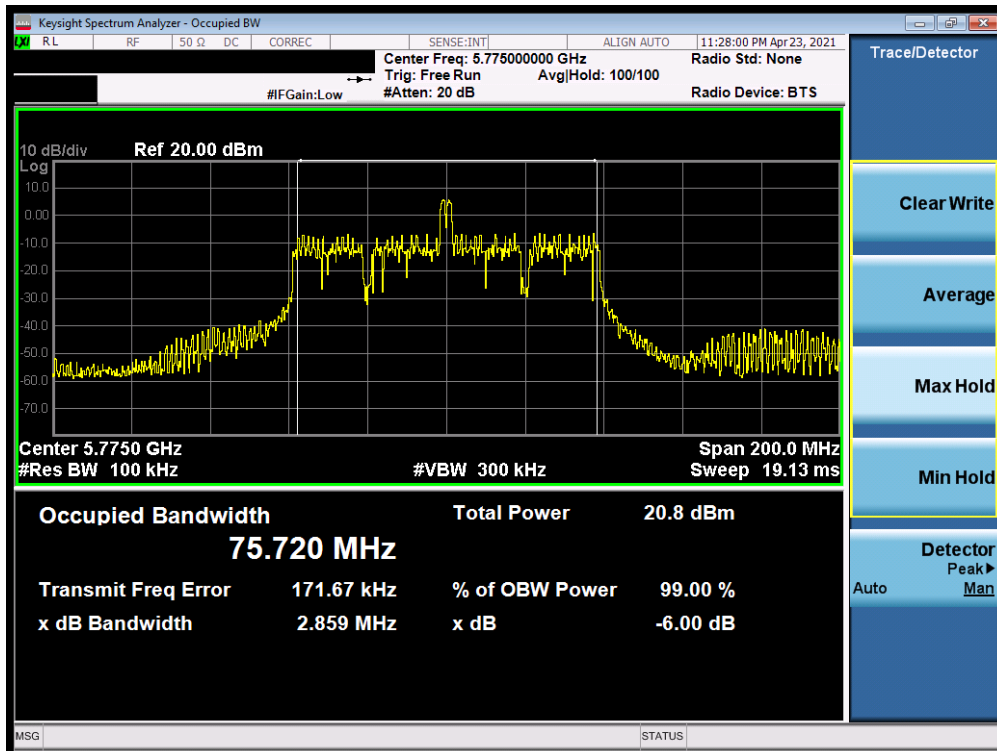


Plot 7-196. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 130 of 413 |



Plot 7-197. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-198. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

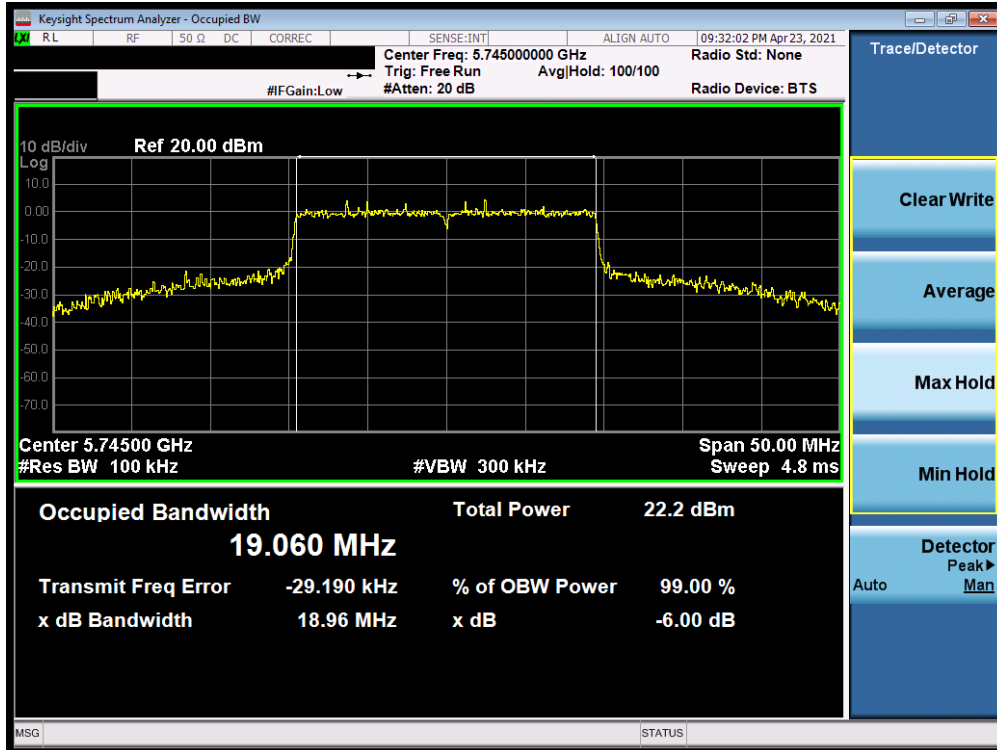
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 131 of 413 |

SISO Antenna-1 6 dB Bandwidth Measurements (Full Tones) – Q

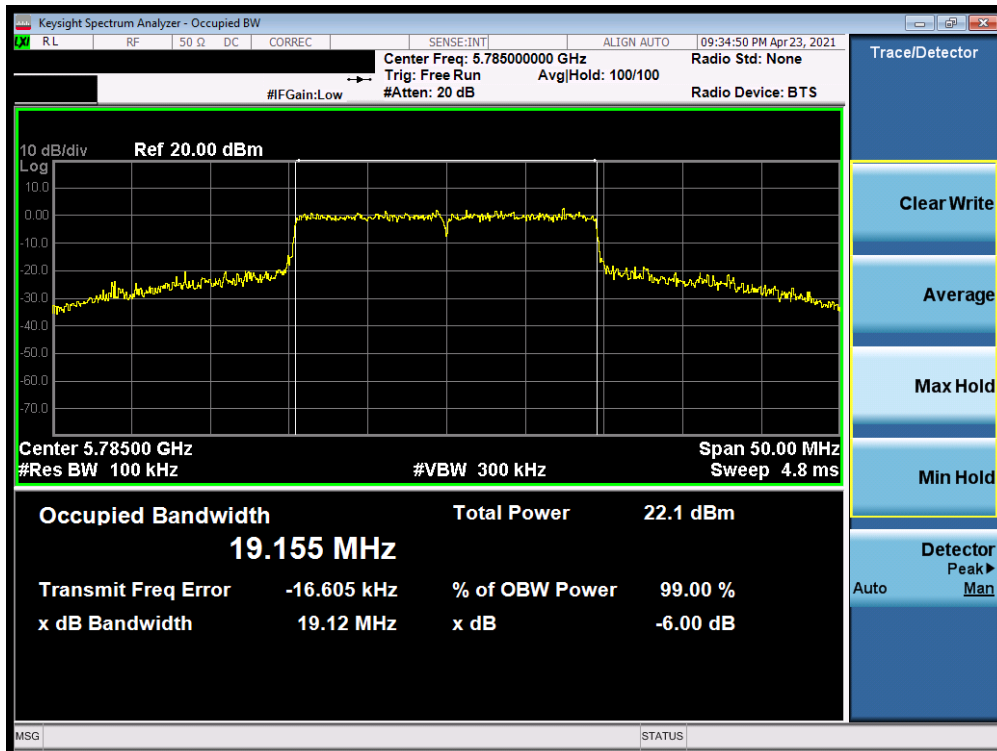
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 242T | MCS0 | 18.96 |
| | 5785 | 157 | ax (20MHz) | 242T | MCS0 | 19.12 |
| | 5825 | 165 | ax (20MHz) | 242T | MCS0 | 19.06 |
| | 5755 | 151 | ax (40MHz) | 484T | MCS0 | 38.17 |
| | 5795 | 159 | ax (40MHz) | 484T | MCS0 | 38.19 |
| | 5775 | 155 | ax (80MHz) | 996T | MCS0 | 78.13 |

Table 7-15. Conducted Bandwidth Measurements SISO ANT1 (Full Tones)

| | | | | |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  PCTEST® Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 132 of 413 |

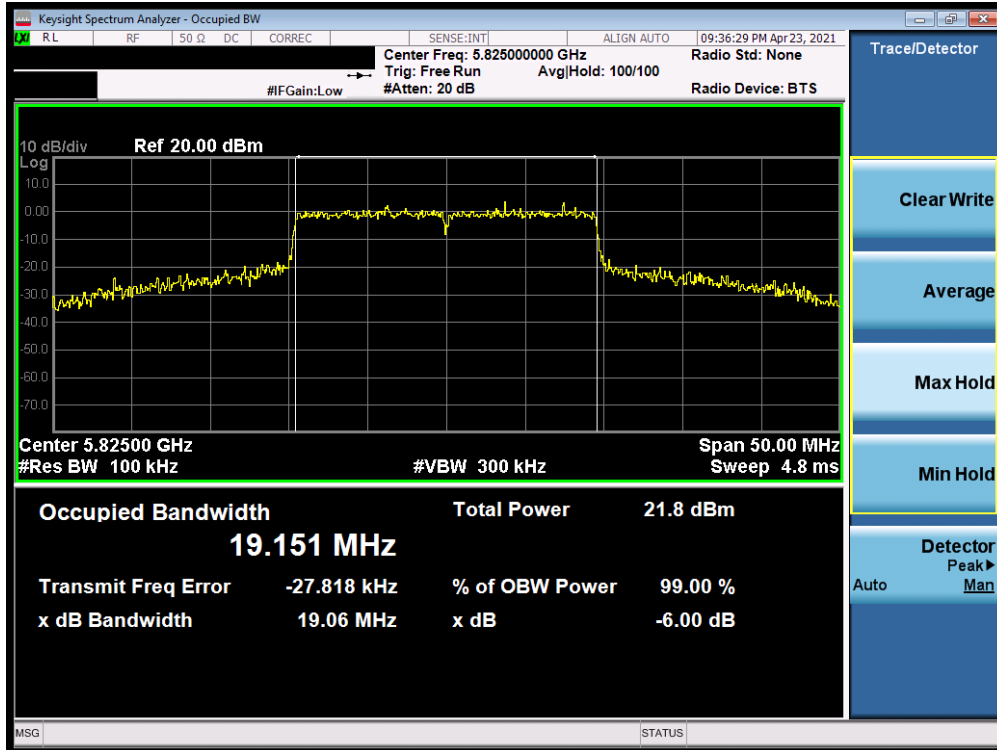


Plot 7-199. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)



Plot 7-200. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 133 of 413 |

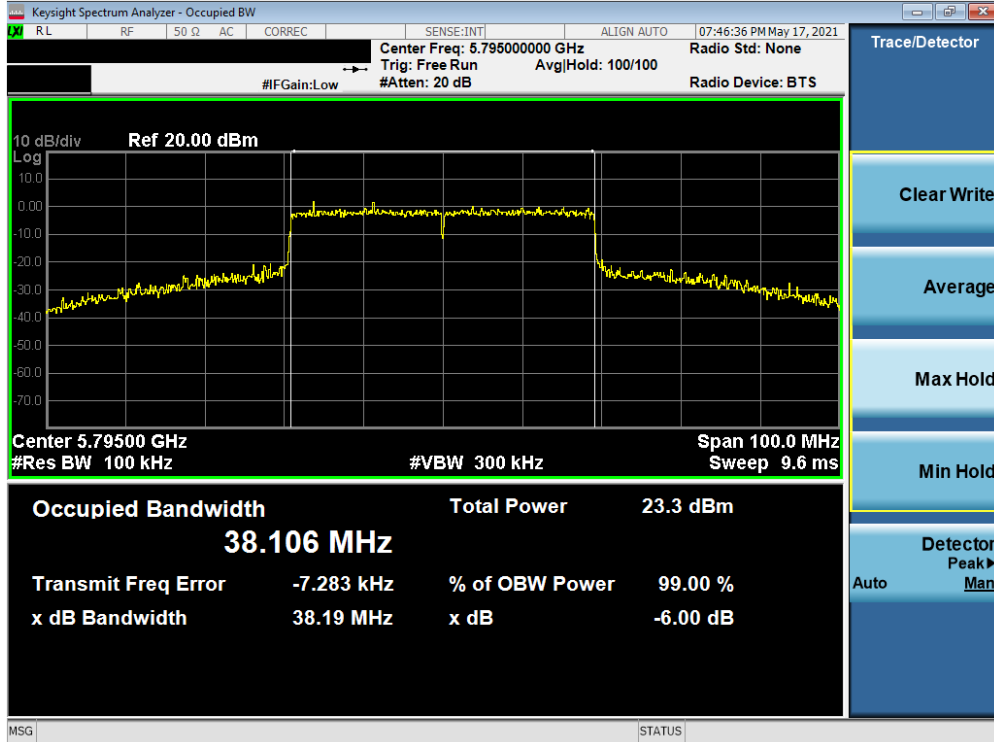


Plot 7-201. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

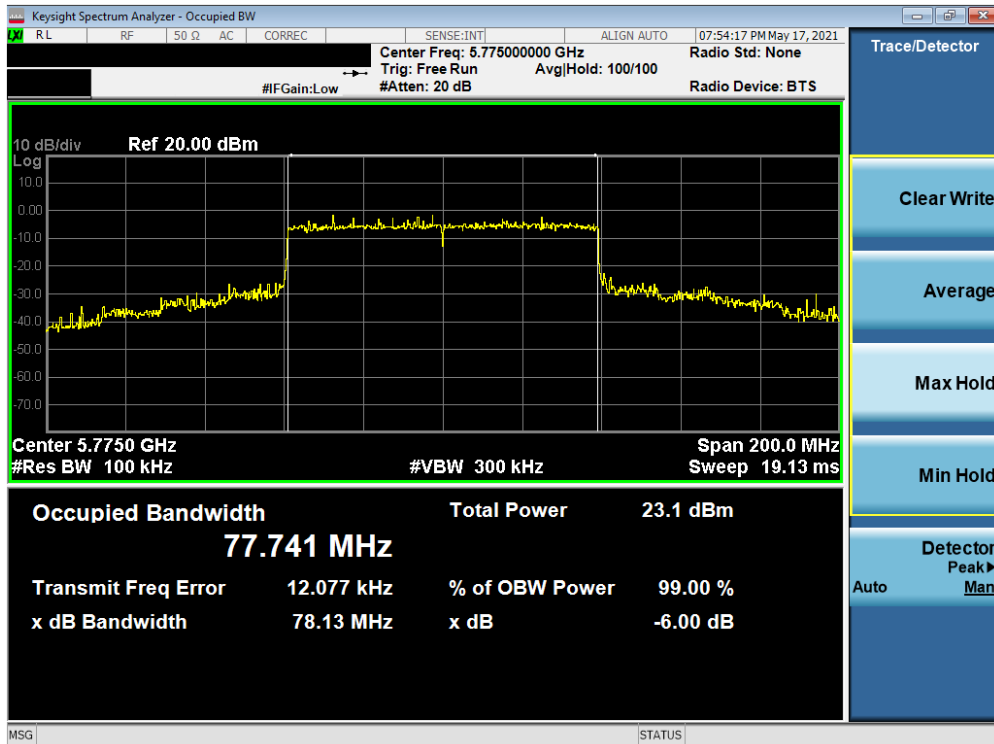


Plot 7-202. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 134 of 413 |



Plot 7-203. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-204. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

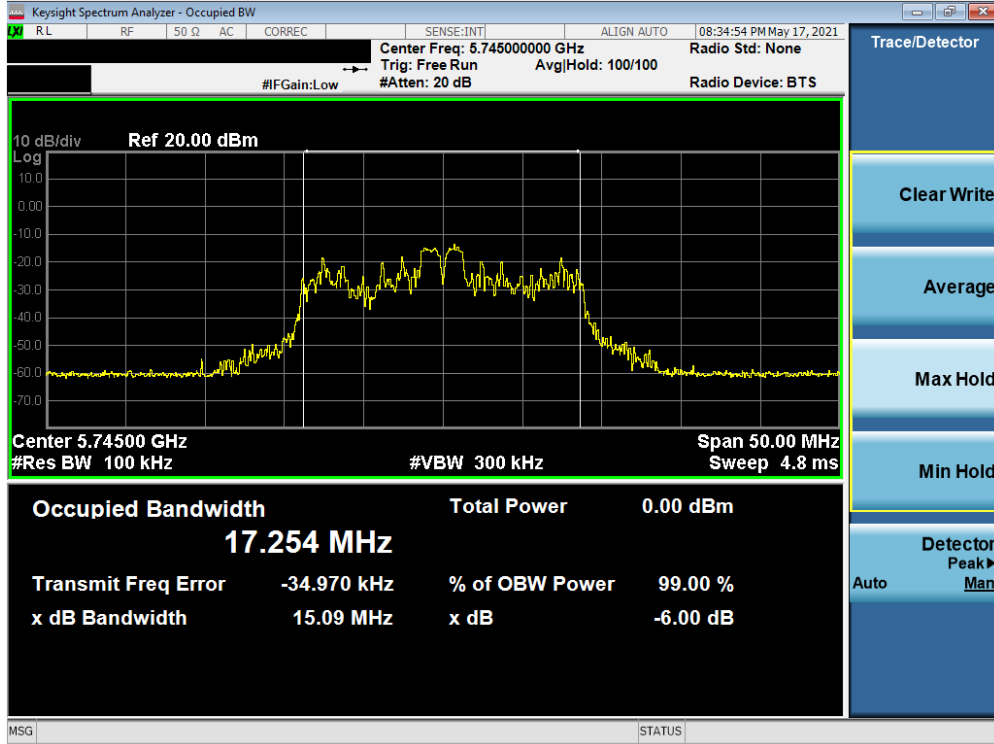
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 135 of 413 |

MIMO 6dB Bandwidth Measurements (26 Tones) – Q

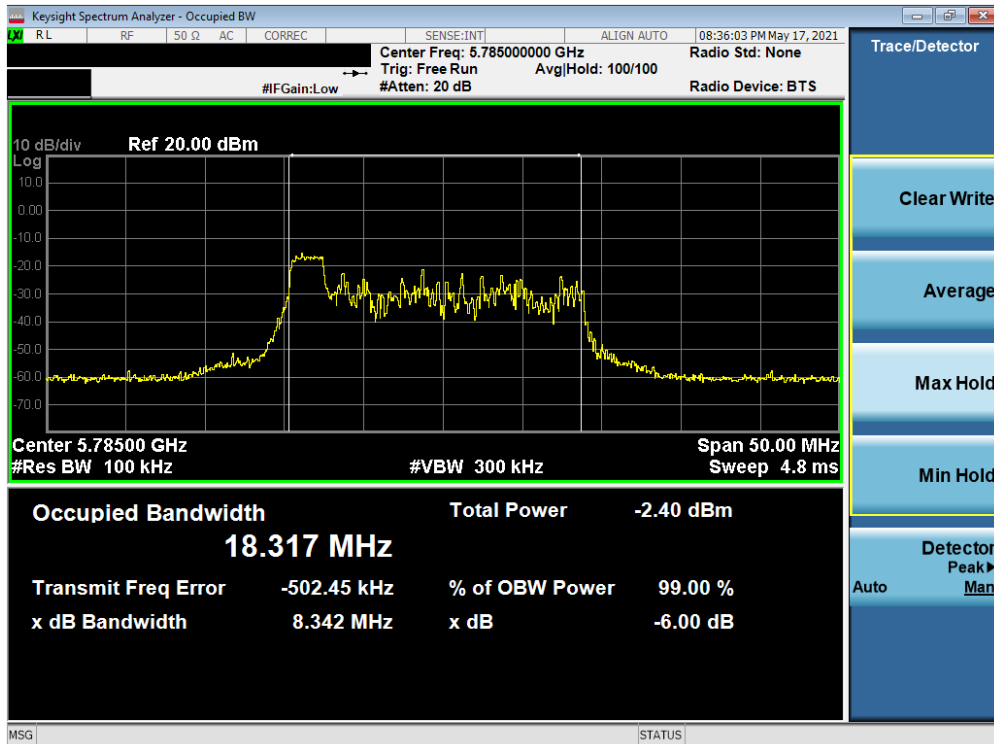
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 26T | MCS0 | 15.09 |
| | 5785 | 157 | ax (20MHz) | 26T | MCS0 | 8.34 |
| | 5825 | 165 | ax (20MHz) | 26T | MCS0 | 2.06 |
| | 5755 | 151 | ax (40MHz) | 26T | MCS0 | 2.12 |
| | 5795 | 159 | ax (40MHz) | 26T | MCS0 | 2.13 |
| | 5775 | 155 | ax (80MHz) | 26T | MCS0 | 2.83 |

Table 7-16. Conducted Bandwidth Measurements MIMO (26 Tones)

| | | | | |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of  element | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 136 of 413 |

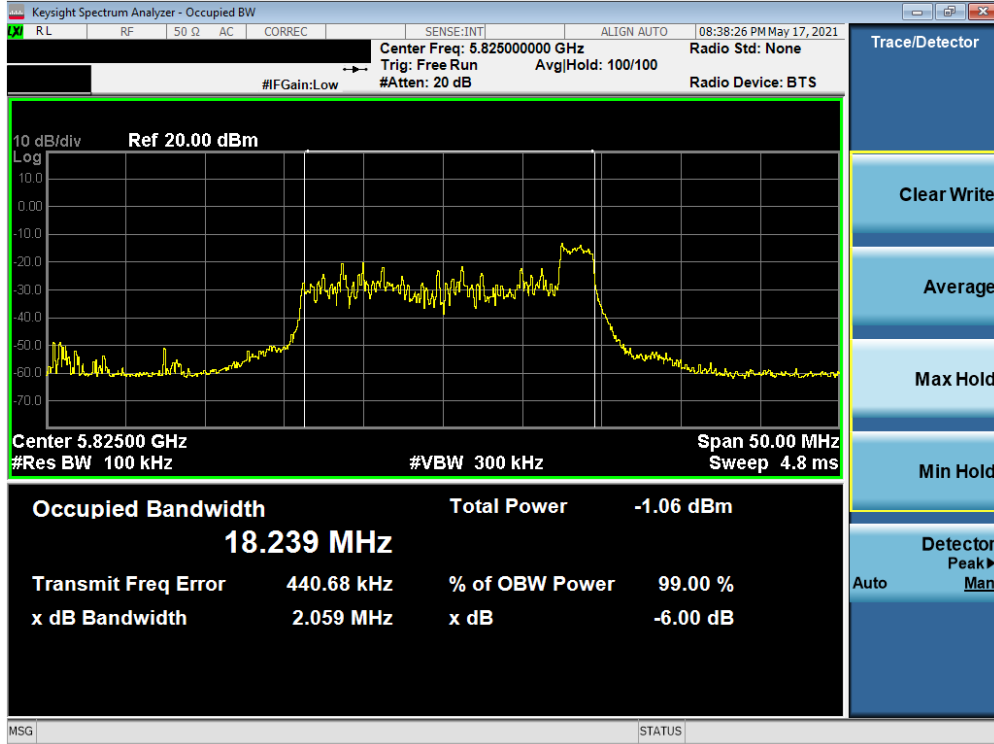


Plot 7-205. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

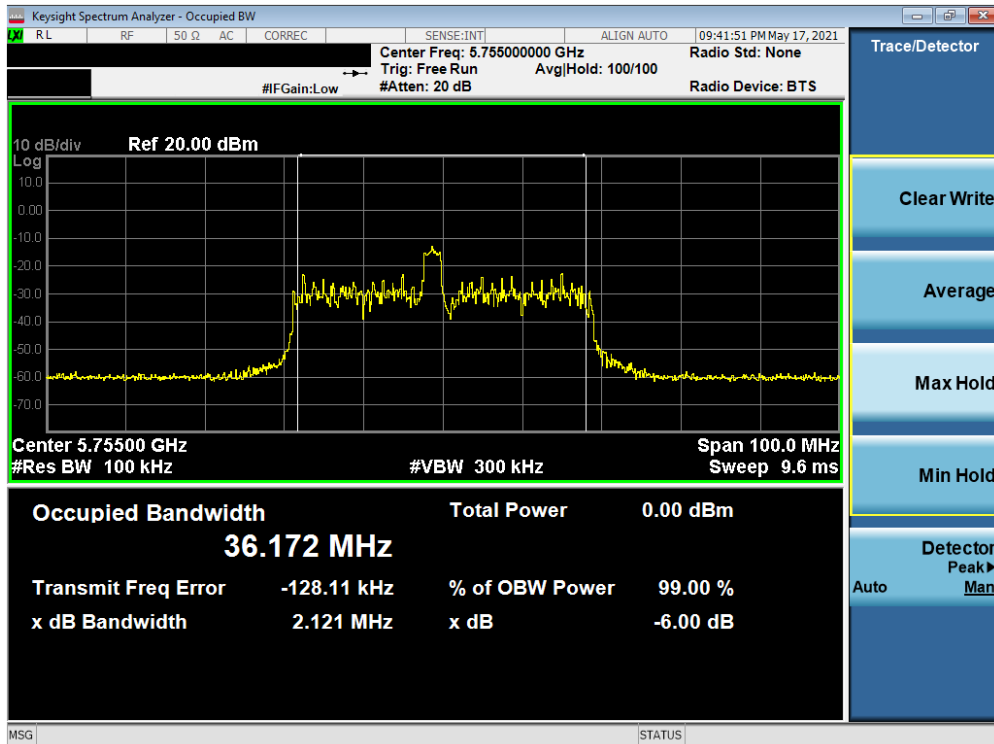


Plot 7-206. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 137 of 413 |

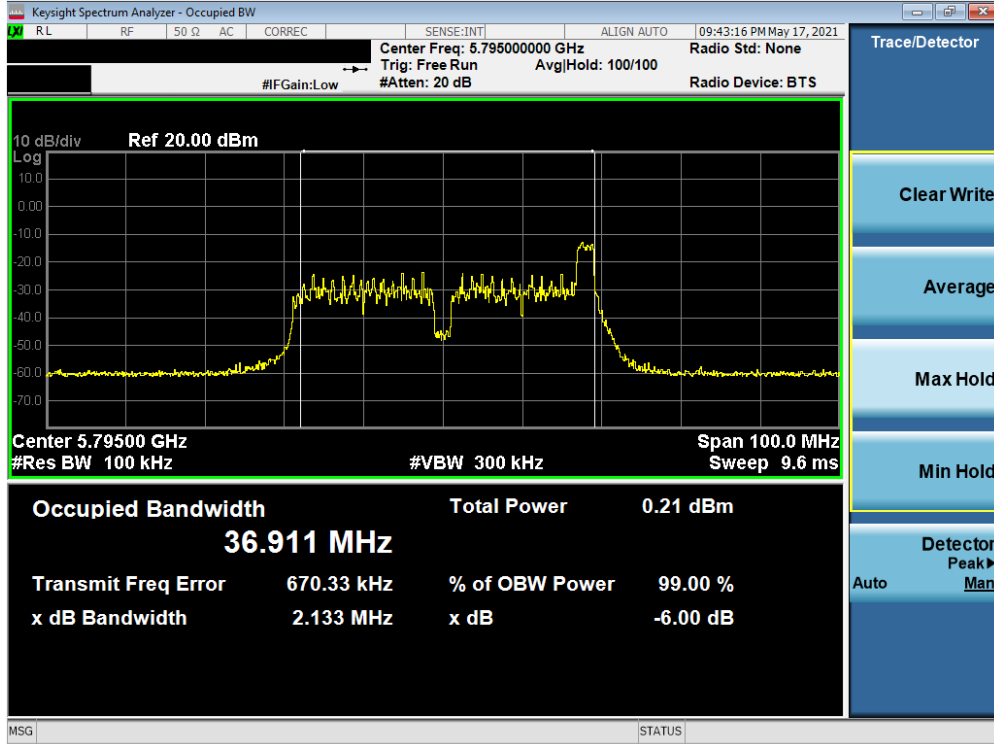


Plot 7-207. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

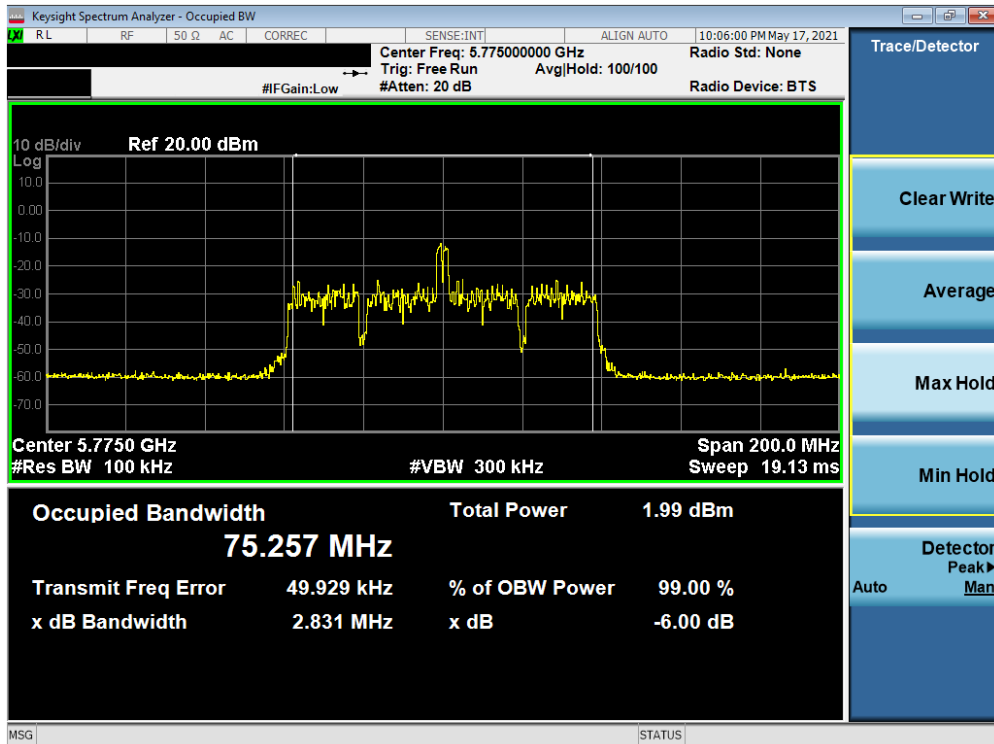


Plot 7-208. 6dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 138 of 413 |



Plot 7-209. 6dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-210. 6dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

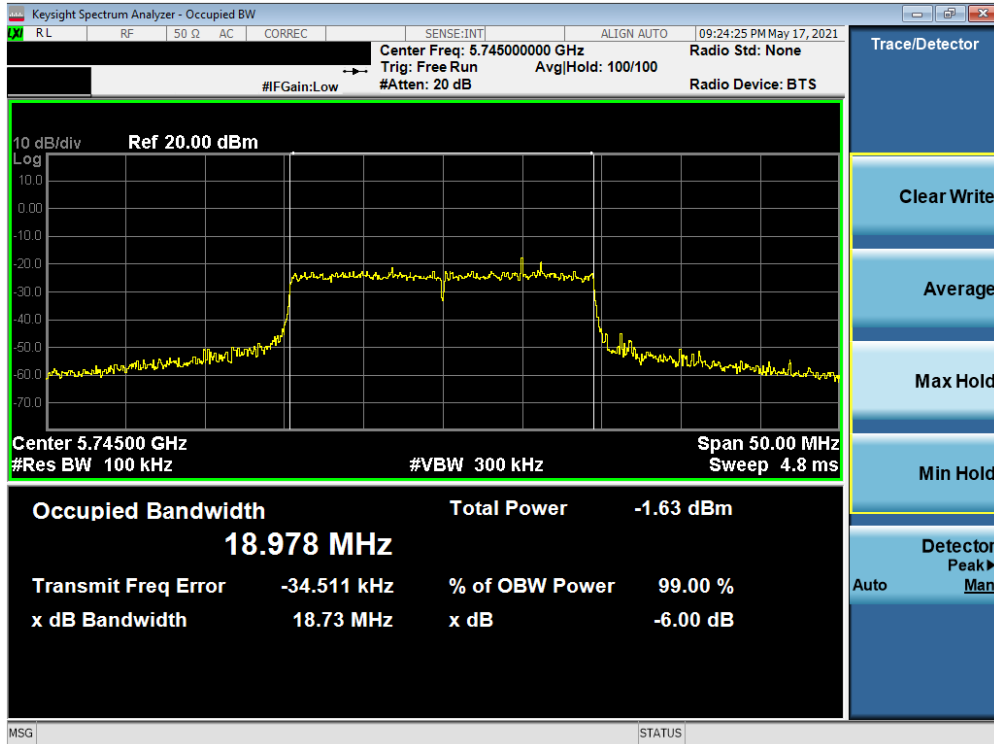
| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 139 of 413 |

MIMO 6dB Bandwidth Measurements (Full Tones) – Q

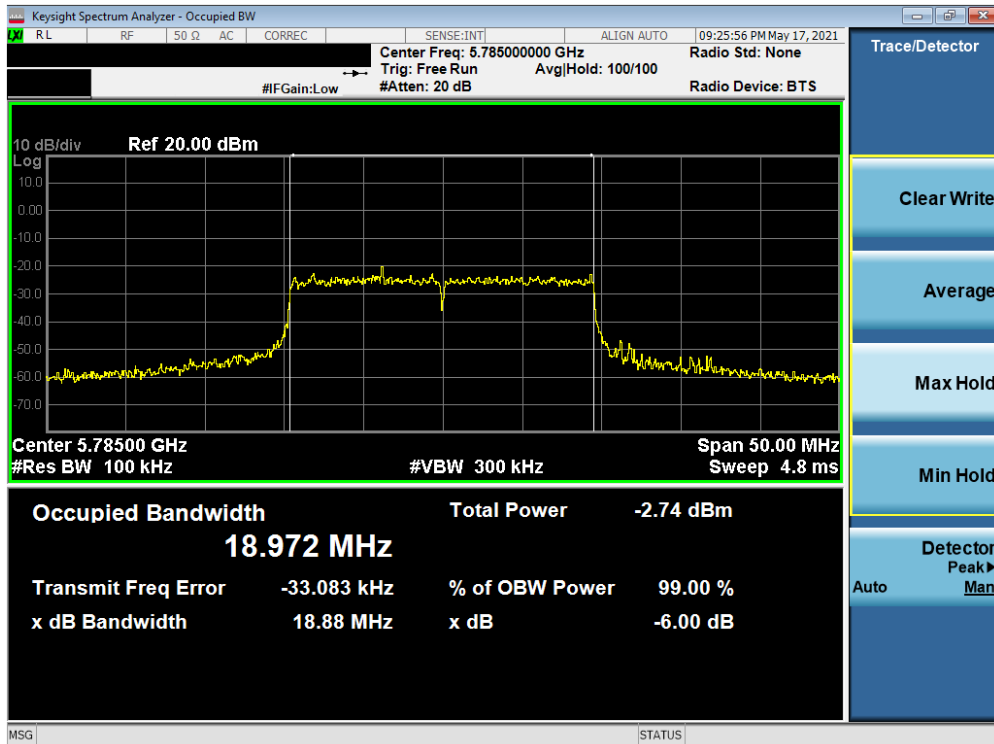
| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured 6dB Bandwidth [MHz] |
|---------------|-----------------|-------------|-------------|-------|------------------|------------------------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 242T | MCS0 | 18.73 |
| | 5785 | 157 | ax (20MHz) | 242T | MCS0 | 18.88 |
| | 5825 | 165 | ax (20MHz) | 242T | MCS0 | 18.80 |
| | 5755 | 151 | ax (40MHz) | 484T | MCS0 | 37.90 |
| | 5795 | 159 | ax (40MHz) | 484T | MCS0 | 37.94 |
| | 5775 | 155 | ax (80MHz) | 996T | MCS0 | 74.71 |

Table 7-17. Conducted Bandwidth Measurements MIMO (Full Tones)

| | | | | |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of  element | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 140 of 413 |

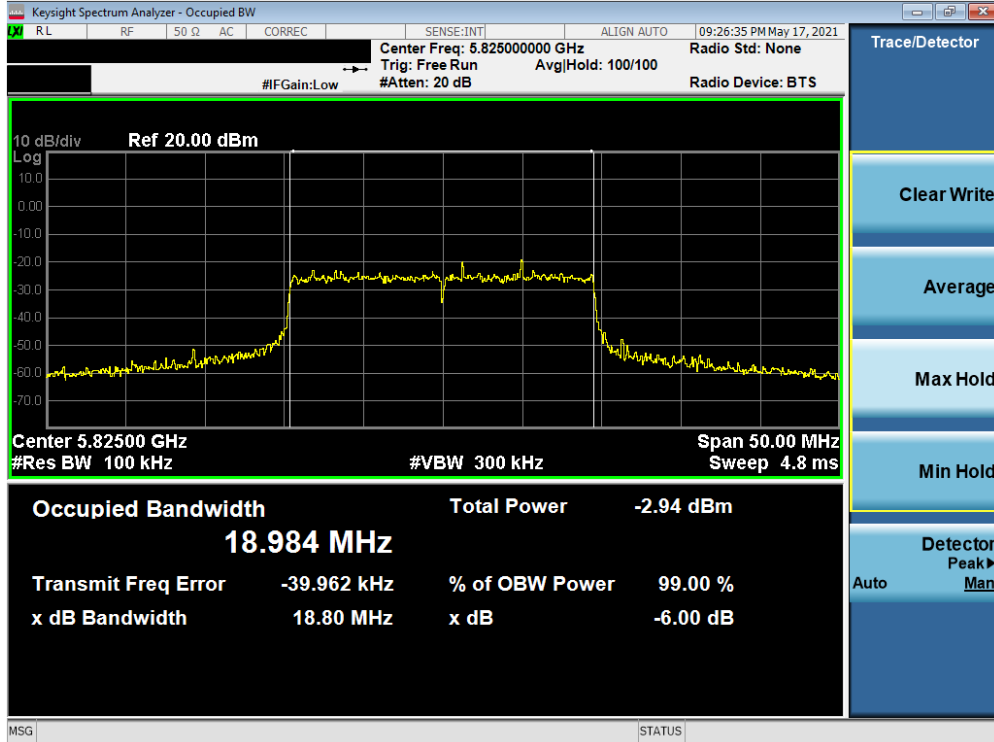


Plot 7-211. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

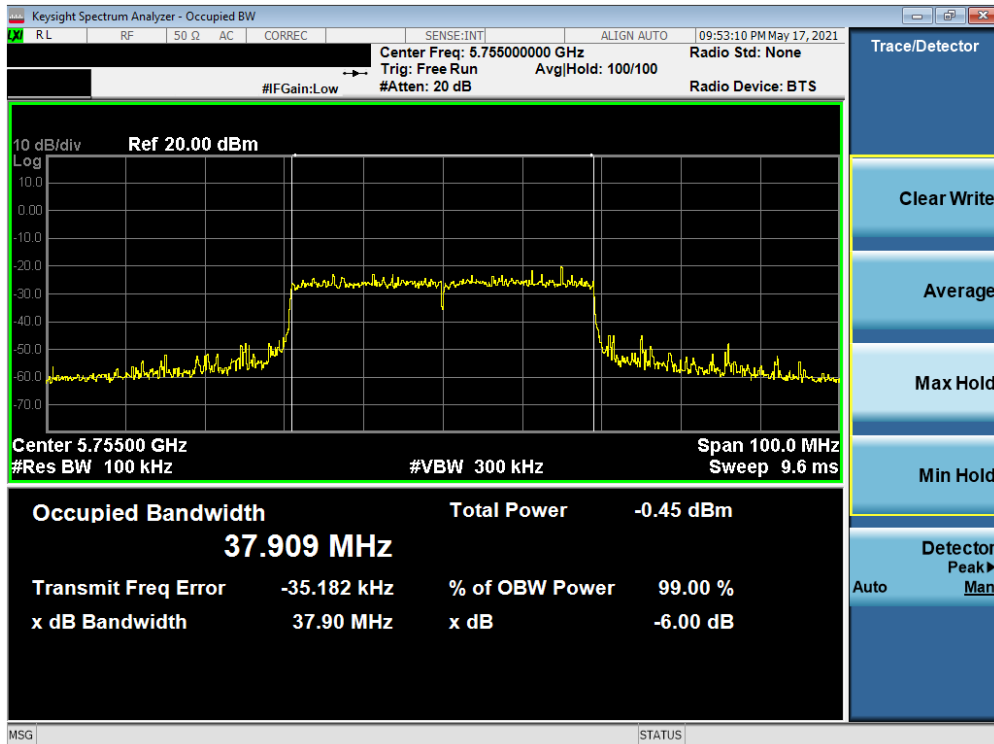


Plot 7-212. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 141 of 413 |

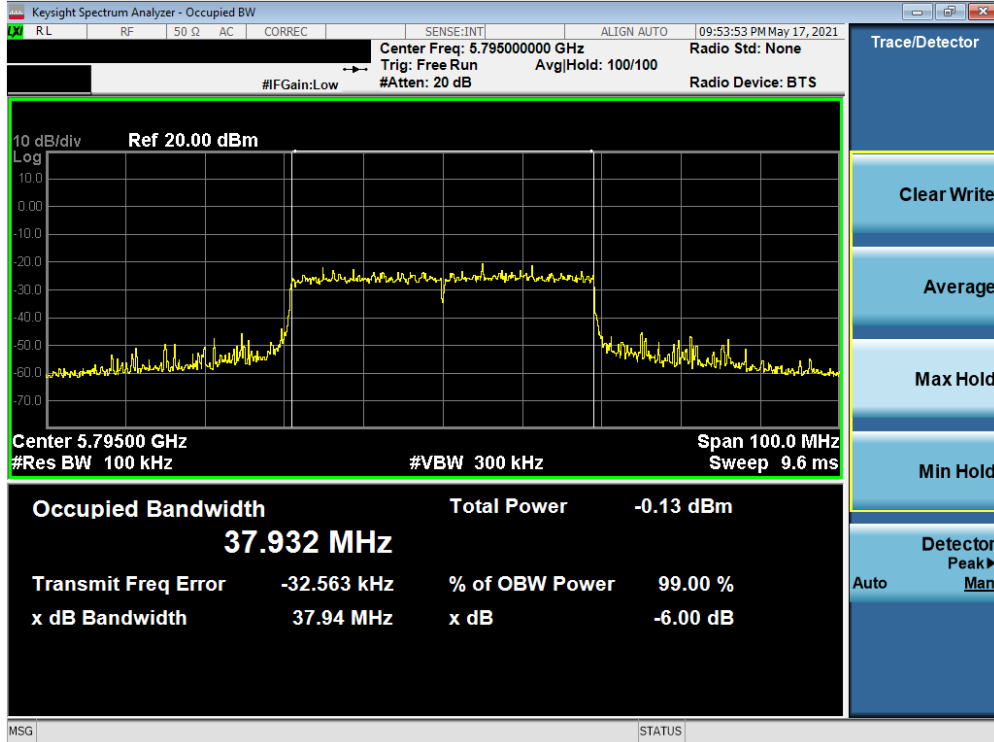


Plot 7-213. 6dB Bandwidth Plot MIMO (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

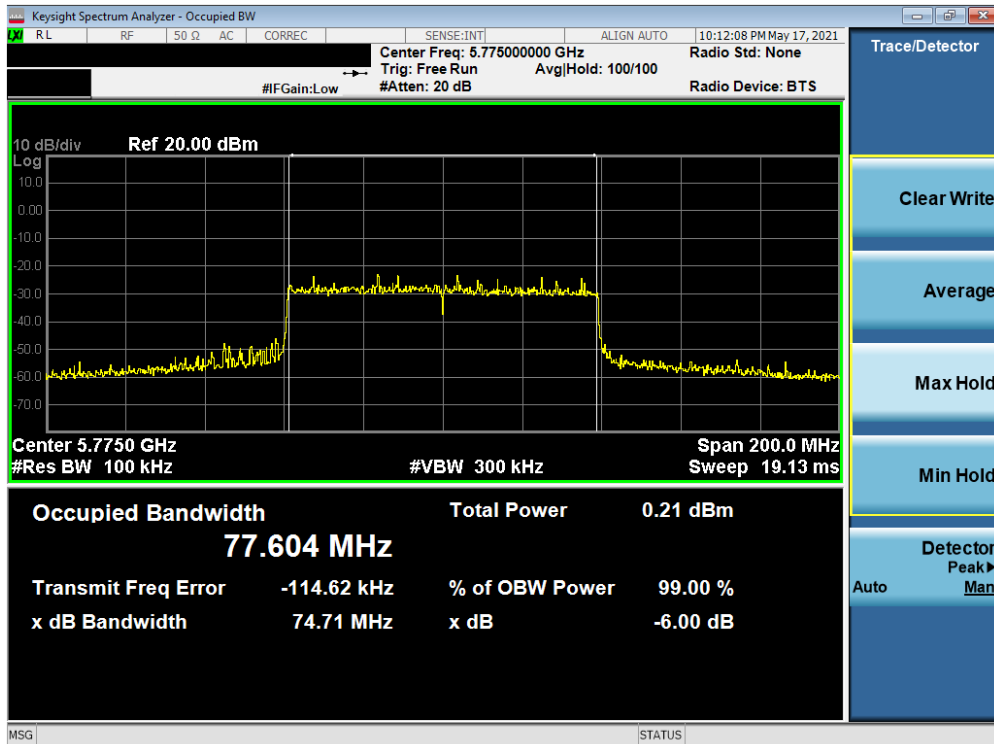


Plot 7-214. 6dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 142 of 413 |



Plot 7-215. 6dB Bandwidth Plot MIMO (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-216. 6dB Bandwidth Plot MIMO (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 143 of 413 |

7.4 UNII Output Power Measurement – 802.11ax OFDMA §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter 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.

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or $10 + 10 \log_{10}B$, dBm.

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(17.93) = 23.54\text{dBm}$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10}B$, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(17.98) = 23.55 \text{ dBm}$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10}B$, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 144 of 413 |

SISO ANT 1 Maximum Conducted Output Power Measurements (26 Tones) – N

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | 4 | 8 | | |
| | 5180 | 36 | AVG | 26T | 10.34 | 10.39 | 10.33 | 23.98 | -13.59 |
| 5200 | 40 | AVG | 26T | 10.18 | 10.27 | 10.21 | 23.98 | -13.71 | |
| 5240 | 48 | AVG | 26T | 10.15 | 10.23 | 10.18 | 23.98 | -13.75 | |
| 5260 | 52 | AVG | 26T | 10.26 | 10.32 | 10.25 | 23.47 | -13.15 | |
| 5280 | 56 | AVG | 26T | 10.09 | 10.16 | 10.13 | 23.47 | -13.31 | |
| 5320 | 64 | AVG | 26T | 10.38 | 10.42 | 10.31 | 23.47 | -13.05 | |
| 5500 | 100 | AVG | 26T | 10.16 | 10.18 | 10.08 | 22.80 | -12.62 | |
| 5600 | 120 | AVG | 26T | 10.34 | 10.33 | 10.25 | 22.80 | -12.46 | |
| 5720 | 144 | AVG | 26T | 10.39 | 10.35 | 10.26 | 22.80 | -12.41 | |
| 5745 | 149 | AVG | 26T | 10.11 | 10.14 | 10.09 | 30.00 | -19.86 | |
| 5785 | 157 | AVG | 26T | 10.48 | 10.46 | 10.35 | 30.00 | -19.52 | |
| 5825 | 165 | AVG | 26T | 10.28 | 10.33 | 10.24 | 30.00 | -19.67 | |

Table 7-18. 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | 8 | 17 | | |
| | 5190 | 38 | AVG | 26T | 10.36 | 10.43 | 10.39 | 23.98 | -13.55 |
| 5230 | 46 | AVG | 26T | 10.44 | 10.08 | 10.48 | 23.98 | -13.50 | |
| 5270 | 54 | AVG | 26T | 10.45 | 10.12 | 10.43 | 23.47 | -13.02 | |
| 5310 | 62 | AVG | 26T | 10.11 | 10.49 | 10.48 | 23.47 | -12.98 | |
| 5510 | 102 | AVG | 26T | 10.05 | 10.41 | 10.47 | 22.80 | -12.33 | |
| 5590 | 118 | AVG | 26T | 10.41 | 9.98 | 10.49 | 22.80 | -12.31 | |
| 5710 | 142 | AVG | 26T | 10.18 | 10.48 | 10.45 | 22.80 | -12.32 | |
| 5755 | 151 | AVG | 26T | 10.28 | 10.49 | 10.48 | 30.00 | -19.51 | |
| 5795 | 159 | AVG | 26T | 10.47 | 10.26 | 10.41 | 30.00 | -19.53 | |

Table 7-19. 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | 18 | 36 | | |
| | 5210 | 42 | AVG | 26T | 10.49 | 10.45 | 10.32 | 23.98 | -13.49 |
| 5290 | 58 | AVG | 26T | 10.48 | 10.47 | 10.31 | 23.47 | -12.99 | |
| 5530 | 106 | AVG | 26T | 10.43 | 10.48 | 10.34 | 22.80 | -12.32 | |
| 5610 | 122 | AVG | 26T | 10.46 | 10.49 | 10.31 | 22.80 | -12.31 | |
| 5690 | 138 | AVG | 26T | 10.15 | 10.48 | 10.08 | 22.80 | -12.32 | |
| 5775 | 155 | AVG | 26T | 10.23 | 10.45 | 10.43 | 30.00 | -19.55 | |

Table 7-20. 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 145 of 413 |

SISO ANT 1 Conducted Output Power Measurements (52 Tones) – N

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | 39 | 40 | | |
| | 5180 | 36 | AVG | 52T | 10.78 | 10.86 | 10.77 | 23.98 | -13.12 |
| 5200 | 40 | AVG | 52T | 10.83 | 10.92 | 10.85 | 23.98 | -13.06 | |
| 5240 | 48 | AVG | 52T | 10.91 | 10.98 | 10.93 | 23.98 | -13.00 | |
| 5260 | 52 | AVG | 52T | 10.31 | 10.39 | 10.33 | 23.47 | -13.08 | |
| 5280 | 56 | AVG | 52T | 10.83 | 10.88 | 10.81 | 23.47 | -12.59 | |
| 5320 | 64 | AVG | 52T | 10.97 | 10.97 | 10.94 | 23.47 | -12.50 | |
| 5500 | 100 | AVG | 52T | 10.89 | 10.87 | 10.79 | 22.80 | -11.91 | |
| 5600 | 120 | AVG | 52T | 10.96 | 10.97 | 10.89 | 22.80 | -11.83 | |
| 5720 | 144 | AVG | 52T | 10.93 | 10.94 | 10.85 | 22.80 | -11.86 | |
| 5745 | 149 | AVG | 52T | 10.82 | 10.81 | 10.74 | 30.00 | -19.18 | |
| 5785 | 157 | AVG | 52T | 10.98 | 10.99 | 10.97 | 30.00 | -19.01 | |
| 5825 | 165 | AVG | 52T | 10.73 | 10.62 | 10.67 | 30.00 | -19.27 | |

Table 7-21. 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | 40 | 44 | | |
| | 5190 | 38 | AVG | 52T | 10.81 | 10.83 | 10.88 | 23.98 | -13.10 |
| 5230 | 46 | AVG | 52T | 10.45 | 10.92 | 10.66 | 23.98 | -13.06 | |
| 5270 | 54 | AVG | 52T | 10.51 | 10.93 | 10.65 | 23.47 | -12.54 | |
| 5310 | 62 | AVG | 52T | 10.69 | 10.98 | 10.78 | 23.47 | -12.49 | |
| 5510 | 102 | AVG | 52T | 10.68 | 10.99 | 10.98 | 22.80 | -11.81 | |
| 5590 | 118 | AVG | 52T | 10.76 | 10.98 | 10.97 | 22.80 | -11.82 | |
| 5710 | 142 | AVG | 52T | 10.95 | 10.79 | 10.93 | 22.80 | -11.85 | |
| 5755 | 151 | AVG | 52T | 10.98 | 10.82 | 10.96 | 30.00 | -19.02 | |
| 5795 | 159 | AVG | 52T | 10.61 | 10.87 | 10.95 | 30.00 | -19.05 | |

Table 7-22. 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | 44 | 52 | | |
| | 5210 | 42 | AVG | 52T | 10.63 | 10.73 | 10.98 | 23.98 | -13.00 |
| 5290 | 58 | AVG | 52T | 10.65 | 10.98 | 10.89 | 23.47 | -12.49 | |
| 5530 | 106 | AVG | 52T | 10.83 | 10.97 | 10.98 | 22.80 | -11.82 | |
| 5610 | 122 | AVG | 52T | 10.93 | 10.98 | 10.73 | 22.80 | -11.82 | |
| 5690 | 138 | AVG | 52T | 10.86 | 10.55 | 10.78 | 22.80 | -11.94 | |
| 5775 | 155 | AVG | 52T | 10.94 | 10.98 | 10.67 | 30.00 | -19.02 | |

Table 7-23. 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 146 of 413 |

SISO ANT 1 Conducted Output Power Measurements (106 Tones) – N

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | 54 | | |
| | 5180 | 36 | AVG | 106T | 14.43 | 14.45 | 23.98 | -9.53 |
| | 5200 | 40 | AVG | 106T | 14.36 | 14.35 | 23.98 | -9.62 |
| | 5240 | 48 | AVG | 106T | 14.39 | 14.41 | 23.98 | -9.57 |
| | 5260 | 52 | AVG | 106T | 14.48 | 14.49 | 23.47 | -8.98 |
| | 5280 | 56 | AVG | 106T | 13.89 | 13.92 | 23.47 | -9.55 |
| | 5320 | 64 | AVG | 106T | 13.81 | 13.83 | 23.47 | -9.64 |
| | 5500 | 100 | AVG | 106T | 13.88 | 13.84 | 22.80 | -8.92 |
| | 5600 | 120 | AVG | 106T | 13.71 | 13.66 | 22.80 | -9.09 |
| 5720 | 144 | AVG | 106T | 14.48 | 14.39 | 22.80 | -8.32 | |
| 5745 | 149 | AVG | 106T | 13.76 | 13.73 | 30.00 | -16.24 | |
| 5785 | 157 | AVG | 106T | 14.21 | 14.15 | 30.00 | -15.79 | |
| 5825 | 165 | AVG | 106T | 14.23 | 14.17 | 30.00 | -15.77 | |

Table 7-24. 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | 54 | 56 | | |
| | 5190 | 38 | AVG | 106T | 14.33 | 14.48 | 14.47 | 23.98 | -9.50 |
| | 5230 | 46 | AVG | 106T | 14.49 | 14.11 | 14.05 | 23.98 | -9.49 |
| | 5270 | 54 | AVG | 106T | 14.45 | 14.12 | 14.08 | 23.47 | -9.02 |
| | 5310 | 62 | AVG | 106T | 14.48 | 14.26 | 14.18 | 23.47 | -8.99 |
| | 5510 | 102 | AVG | 106T | 14.27 | 14.43 | 14.21 | 22.80 | -8.37 |
| | 5590 | 118 | AVG | 106T | 14.41 | 14.49 | 14.22 | 22.80 | -8.31 |
| | 5710 | 142 | AVG | 106T | 14.46 | 14.48 | 14.44 | 22.80 | -8.32 |
| | 5755 | 151 | AVG | 106T | 14.32 | 14.47 | 14.25 | 30.00 | -15.53 |
| 5795 | 159 | AVG | 106T | 13.81 | 13.93 | 14.48 | 30.00 | -15.52 | |

Table 7-25. 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | 56 | 60 | | |
| | 5210 | 42 | AVG | 106T | 14.23 | 14.15 | 14.16 | 23.98 | -9.75 |
| | 5290 | 58 | AVG | 106T | 14.29 | 13.95 | 14.48 | 23.47 | -8.99 |
| | 5530 | 106 | AVG | 106T | 14.47 | 14.49 | 14.48 | 22.80 | -8.31 |
| | 5610 | 122 | AVG | 106T | 14.24 | 14.21 | 14.49 | 22.80 | -8.31 |
| | 5690 | 138 | AVG | 106T | 14.22 | 14.43 | 14.11 | 22.80 | -8.37 |
| 5775 | 155 | AVG | 106T | 14.47 | 14.48 | 14.17 | 30.00 | -15.52 | |

Table 7-26. 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 147 of 413 |

SISO ANT 1 Conducted Output Power Measurements (242 Tones) – N

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|
| | | | | | | 61 | |
| | 5180 | 36 | AVG | 242T | 14.87 | 23.98 | -9.11 |
| | 5200 | 40 | AVG | 242T | 14.96 | 23.98 | -9.02 |
| | 5240 | 48 | AVG | 242T | 14.93 | 23.98 | -9.05 |
| | 5260 | 52 | AVG | 242T | 14.73 | 23.47 | -8.74 |
| | 5280 | 56 | AVG | 242T | 14.92 | 23.47 | -8.55 |
| | 5320 | 64 | AVG | 242T | 14.94 | 23.47 | -8.53 |
| | 5500 | 100 | AVG | 242T | 14.98 | 22.80 | -7.82 |
| | 5600 | 120 | AVG | 242T | 14.83 | 22.80 | -7.97 |
| 5720 | 144 | AVG | 242T | 14.99 | 22.80 | -7.81 | |
| 5745 | 149 | AVG | 242T | 14.82 | 30.00 | -15.18 | |
| 5785 | 157 | AVG | 242T | 14.98 | 30.00 | -15.02 | |
| 5825 | 165 | AVG | 242T | 14.89 | 30.00 | -15.11 | |

Table 7-27. 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | 62 | | |
| | 5190 | 38 | AVG | 242T | 13.36 | 13.40 | 23.98 | -10.58 |
| | 5230 | 46 | AVG | 242T | 14.98 | 14.76 | 23.98 | -9.00 |
| | 5270 | 54 | AVG | 242T | 14.97 | 14.99 | 23.47 | -8.48 |
| | 5310 | 62 | AVG | 242T | 12.60 | 12.66 | 23.47 | -10.81 |
| | 5510 | 102 | AVG | 242T | 12.98 | 12.74 | 22.80 | -9.82 |
| | 5590 | 118 | AVG | 242T | 14.97 | 14.94 | 22.80 | -7.83 |
| | 5710 | 142 | AVG | 242T | 14.99 | 14.98 | 22.80 | -7.81 |
| | 5755 | 151 | AVG | 242T | 14.89 | 14.84 | 30.00 | -15.11 |
| 5795 | 159 | AVG | 242T | 14.65 | 14.53 | 30.00 | -15.35 | |

Table 7-28. 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | 62 | 64 | | |
| | 5210 | 42 | AVG | 242T | 12.82 | 12.97 | 12.67 | 23.98 | -11.01 |
| | 5290 | 58 | AVG | 242T | 11.33 | 11.46 | 10.98 | 23.47 | -12.01 |
| | 5530 | 106 | AVG | 242T | 11.09 | 11.24 | 11.15 | 22.80 | -11.56 |
| | 5610 | 122 | AVG | 242T | 14.91 | 14.86 | 14.69 | 22.80 | -7.89 |
| | 5690 | 138 | AVG | 242T | 14.82 | 14.94 | 14.73 | 22.80 | -7.86 |
| | 5775 | 155 | AVG | 242T | 14.45 | 14.48 | 14.85 | 30.00 | -15.15 |

Table 7-29. 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 148 of 413 |

SISO ANT 1 Conducted Output Power Measurements (484 Tones) – N

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|
| | | | | | | | |
| | 5190 | 38 | AVG | 484T | 13.21 | 23.98 | -10.77 |
| | 5230 | 46 | AVG | 484T | 14.73 | 23.98 | -9.25 |
| | 5270 | 54 | AVG | 484T | 14.98 | 23.47 | -8.49 |
| | 5310 | 62 | AVG | 484T | 12.69 | 23.47 | -10.78 |
| | 5510 | 102 | AVG | 484T | 12.64 | 22.80 | -10.16 |
| | 5590 | 118 | AVG | 484T | 14.97 | 22.80 | -7.83 |
| | 5710 | 142 | AVG | 484T | 14.48 | 22.80 | -8.32 |
| | 5755 | 151 | AVG | 484T | 14.87 | 30.00 | -15.13 |
| 5795 | 159 | AVG | 484T | 14.57 | 30.00 | -15.43 | |

Table 7-30. 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-----------------------------|-----------------------------|
| | | | | | 65 | 66 | | |
| | 5210 | 42 | AVG | 484T | 12.85 | 12.65 | 23.98 | -11.13 |
| 5290 | 58 | AVG | 484T | 11.39 | 10.96 | 23.47 | -12.08 | |
| 5530 | 106 | AVG | 484T | 11.22 | 11.28 | 22.80 | -11.52 | |
| 5610 | 122 | AVG | 484T | 14.84 | 14.72 | 22.80 | -7.96 | |
| 5690 | 138 | AVG | 484T | 14.83 | 14.77 | 22.80 | -7.97 | |
| 5775 | 155 | AVG | 484T | 14.98 | 14.91 | 30.00 | -15.02 | |

Table 7-31. 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 149 of 413 |

SISO ANT 1 Conducted Output Power Measurements (996 Tones) – N

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|
| | | | | | | 67 | |
| | 5210 | 42 | AVG | 996T | 12.78 | 23.98 | -11.20 |
| | 5290 | 58 | AVG | 996T | 11.47 | 23.47 | -12.00 |
| | 5530 | 106 | AVG | 996T | 11.46 | 22.80 | -11.34 |
| | 5610 | 122 | AVG | 996T | 14.96 | 22.80 | -7.84 |
| | 5690 | 138 | AVG | 996T | 14.98 | 22.80 | -7.82 |
| | 5775 | 155 | AVG | 996T | 14.76 | 30.00 | -15.24 |

Table 7-32. 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

| | | | | |
|--|--|---|---|--|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of  element | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | Page 150 of 413 | |

SISO ANT 1 Maximum Conducted Output Power Measurements (26 Tones) – Q

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | 4 | 8 | | |
| | 5180 | 36 | AVG | 26T | 10.43 | 10.48 | 10.41 | 23.98 | -13.50 |
| 5200 | 40 | AVG | 26T | 10.21 | 10.26 | 10.09 | 23.98 | -13.72 | |
| 5240 | 48 | AVG | 26T | 10.37 | 10.39 | 10.23 | 23.98 | -13.59 | |
| 5260 | 52 | AVG | 26T | 10.35 | 10.34 | 10.15 | 23.47 | -13.12 | |
| 5280 | 56 | AVG | 26T | 10.42 | 10.45 | 10.27 | 23.47 | -13.02 | |
| 5320 | 64 | AVG | 26T | 10.23 | 10.24 | 10.49 | 23.47 | -12.98 | |
| 5500 | 100 | AVG | 26T | 10.26 | 10.38 | 10.34 | 22.80 | -12.42 | |
| 5600 | 120 | AVG | 26T | 10.07 | 10.12 | 10.08 | 22.80 | -12.68 | |
| 5720 | 144 | AVG | 26T | 10.48 | 10.11 | 10.08 | 22.80 | -12.32 | |
| 5745 | 149 | AVG | 26T | 10.41 | 10.48 | 10.47 | 30.00 | -19.52 | |
| 5785 | 157 | AVG | 26T | 10.48 | 10.13 | 10.09 | 30.00 | -19.52 | |
| 5825 | 165 | AVG | 26T | 10.32 | 10.44 | 10.35 | 30.00 | -19.56 | |

Table 7-33. 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | 8 | 17 | | |
| | 5190 | 38 | AVG | 26T | 10.11 | 10.16 | 10.02 | 23.98 | -13.82 |
| 5230 | 46 | AVG | 26T | 10.42 | 10.25 | 10.07 | 23.98 | -13.56 | |
| 5270 | 54 | AVG | 26T | 10.13 | 10.49 | 10.42 | 23.47 | -12.98 | |
| 5310 | 62 | AVG | 26T | 10.13 | 10.48 | 10.46 | 23.47 | -12.99 | |
| 5510 | 102 | AVG | 26T | 10.10 | 9.89 | 10.01 | 22.80 | -12.70 | |
| 5590 | 118 | AVG | 26T | 10.24 | 10.06 | 10.17 | 22.80 | -12.56 | |
| 5710 | 142 | AVG | 26T | 10.02 | 10.28 | 10.02 | 22.80 | -12.52 | |
| 5755 | 151 | AVG | 26T | 10.41 | 10.46 | 10.07 | 30.00 | -19.54 | |
| 5795 | 159 | AVG | 26T | 10.13 | 10.23 | 10.44 | 30.00 | -19.56 | |

Table 7-34. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | 18 | 36 | | |
| | 5210 | 42 | AVG | 26T | 10.26 | 10.39 | 10.27 | 23.98 | -13.59 |
| 5290 | 58 | AVG | 26T | 10.35 | 10.47 | 10.23 | 23.47 | -13.00 | |
| 5530 | 106 | AVG | 26T | 10.27 | 10.14 | 10.46 | 22.80 | -12.34 | |
| 5610 | 122 | AVG | 26T | 10.42 | 10.36 | 10.25 | 22.80 | -12.38 | |
| 5690 | 138 | AVG | 26T | 9.91 | 10.44 | 10.43 | 22.80 | -12.36 | |
| 5775 | 155 | AVG | 26T | 9.97 | 10.23 | 10.02 | 30.00 | -19.77 | |

Table 7-35. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 151 of 413 |

SISO ANT 1 Conducted Output Power Measurements (52 Tones) – Q

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | 39 | 40 | | |
| | 5180 | 36 | AVG | 52T | 10.93 | 10.97 | 10.91 | 23.98 | -13.01 |
| 5200 | 40 | AVG | 52T | 10.92 | 10.86 | 10.79 | 23.98 | -13.06 | |
| 5240 | 48 | AVG | 52T | 10.86 | 10.91 | 10.76 | 23.98 | -13.07 | |
| 5260 | 52 | AVG | 52T | 10.88 | 10.89 | 10.77 | 23.47 | -12.58 | |
| 5280 | 56 | AVG | 52T | 10.92 | 10.91 | 10.78 | 23.47 | -12.55 | |
| 5320 | 64 | AVG | 52T | 10.67 | 10.66 | 10.98 | 23.47 | -12.49 | |
| 5500 | 100 | AVG | 52T | 10.41 | 10.48 | 10.39 | 22.80 | -12.32 | |
| 5600 | 120 | AVG | 52T | 10.72 | 10.79 | 10.65 | 22.80 | -12.01 | |
| 5720 | 144 | AVG | 52T | 10.62 | 10.81 | 10.79 | 22.80 | -11.99 | |
| 5745 | 149 | AVG | 52T | 10.91 | 10.63 | 10.58 | 30.00 | -19.09 | |
| 5785 | 157 | AVG | 52T | 10.97 | 10.76 | 10.71 | 30.00 | -19.03 | |
| 5825 | 165 | AVG | 52T | 10.94 | 10.98 | 10.96 | 30.00 | -19.02 | |

Table 7-36. 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | 40 | 44 | | |
| | 5190 | 38 | AVG | 52T | 10.73 | 10.54 | 10.55 | 23.98 | -13.25 |
| 5230 | 46 | AVG | 52T | 10.47 | 10.76 | 10.68 | 23.98 | -13.22 | |
| 5270 | 54 | AVG | 52T | 10.67 | 10.99 | 10.50 | 23.47 | -12.48 | |
| 5310 | 62 | AVG | 52T | 10.72 | 10.48 | 10.57 | 23.47 | -12.75 | |
| 5510 | 102 | AVG | 52T | 10.25 | 10.67 | 10.23 | 22.80 | -12.13 | |
| 5590 | 118 | AVG | 52T | 10.34 | 10.81 | 10.48 | 22.80 | -11.99 | |
| 5710 | 142 | AVG | 52T | 10.75 | 10.79 | 10.52 | 22.80 | -12.01 | |
| 5755 | 151 | AVG | 52T | 10.59 | 10.76 | 10.41 | 30.00 | -19.24 | |
| 5795 | 159 | AVG | 52T | 10.72 | 10.80 | 10.53 | 30.00 | -19.20 | |

Table 7-37. 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | 44 | 52 | | |
| | 5210 | 42 | AVG | 52T | 10.75 | 10.89 | 10.81 | 23.98 | -13.09 |
| 5290 | 58 | AVG | 52T | 10.87 | 10.81 | 10.74 | 23.47 | -12.60 | |
| 5530 | 106 | AVG | 52T | 10.57 | 10.88 | 10.73 | 22.80 | -11.92 | |
| 5610 | 122 | AVG | 52T | 10.93 | 10.88 | 10.76 | 22.80 | -11.87 | |
| 5690 | 138 | AVG | 52T | 10.64 | 10.62 | 10.69 | 22.80 | -12.11 | |
| 5775 | 155 | AVG | 52T | 10.36 | 10.97 | 10.77 | 30.00 | -19.03 | |

Table 7-38. 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 152 of 413 |

SISO ANT 1 Conducted Output Power Measurements (106 Tones) – Q

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | 54 | | |
| | 5180 | 36 | AVG | 106T | 14.32 | 14.27 | 23.98 | -9.66 |
| | 5200 | 40 | AVG | 106T | 14.15 | 14.05 | 23.98 | -9.83 |
| | 5240 | 48 | AVG | 106T | 14.11 | 14.03 | 23.98 | -9.87 |
| | 5260 | 52 | AVG | 106T | 14.15 | 14.04 | 23.47 | -9.32 |
| | 5280 | 56 | AVG | 106T | 14.15 | 14.08 | 23.47 | -9.32 |
| | 5320 | 64 | AVG | 106T | 14.05 | 14.02 | 23.47 | -9.42 |
| | 5500 | 100 | AVG | 106T | 14.27 | 14.27 | 22.80 | -8.53 |
| | 5600 | 120 | AVG | 106T | 14.19 | 14.10 | 22.80 | -8.61 |
| 5720 | 144 | AVG | 106T | 14.01 | 14.06 | 22.80 | -8.74 | |
| 5745 | 149 | AVG | 106T | 14.25 | 14.29 | 30.00 | -15.71 | |
| 5785 | 157 | AVG | 106T | 14.22 | 14.27 | 30.00 | -15.73 | |
| 5825 | 165 | AVG | 106T | 14.43 | 14.45 | 30.00 | -15.55 | |

Table 7-39. 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | 54 | 56 | | |
| | 5190 | 38 | AVG | 106T | 14.18 | 14.47 | 14.07 | 23.98 | -9.51 |
| | 5230 | 46 | AVG | 106T | 14.17 | 14.25 | 13.96 | 23.98 | -9.73 |
| | 5270 | 54 | AVG | 106T | 14.19 | 14.28 | 13.94 | 23.47 | -9.19 |
| | 5310 | 62 | AVG | 106T | 14.44 | 14.10 | 14.29 | 23.47 | -9.03 |
| | 5510 | 102 | AVG | 106T | 14.43 | 14.04 | 14.33 | 22.80 | -8.37 |
| | 5590 | 118 | AVG | 106T | 14.12 | 14.42 | 14.16 | 22.80 | -8.38 |
| | 5710 | 142 | AVG | 106T | 14.09 | 14.46 | 14.20 | 22.80 | -8.34 |
| | 5755 | 151 | AVG | 106T | 14.04 | 14.32 | 14.11 | 30.00 | -15.68 |
| 5795 | 159 | AVG | 106T | 14.08 | 14.34 | 14.06 | 30.00 | -15.66 | |

Table 7-40. 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | 56 | 60 | | |
| | 5210 | 42 | AVG | 106T | 14.37 | 14.42 | 14.26 | 23.98 | -9.56 |
| | 5290 | 58 | AVG | 106T | 14.28 | 14.33 | 14.23 | 23.47 | -9.14 |
| | 5530 | 106 | AVG | 106T | 14.20 | 14.45 | 14.32 | 22.80 | -8.35 |
| | 5610 | 122 | AVG | 106T | 14.22 | 14.49 | 14.48 | 22.80 | -8.31 |
| | 5690 | 138 | AVG | 106T | 13.89 | 14.37 | 14.38 | 22.80 | -8.42 |
| | 5775 | 155 | AVG | 106T | 13.86 | 14.32 | 14.17 | 30.00 | -15.68 |

Table 7-41. 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 153 of 413 |

SISO ANT 1 Conducted Output Power Measurements (242 Tones) – Q

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|--|
| | | | | | | 61 | | |
| | 5180 | 36 | AVG | 242T | 14.73 | 23.98 | -9.25 | |
| | 5200 | 40 | AVG | 242T | 14.62 | 23.98 | -9.36 | |
| | 5240 | 48 | AVG | 242T | 14.64 | 23.98 | -9.34 | |
| | 5260 | 52 | AVG | 242T | 14.55 | 23.47 | -8.92 | |
| | 5280 | 56 | AVG | 242T | 14.70 | 23.47 | -8.77 | |
| | 5320 | 64 | AVG | 242T | 14.65 | 23.47 | -8.82 | |
| | 5500 | 100 | AVG | 242T | 14.57 | 22.80 | -8.23 | |
| | 5600 | 120 | AVG | 242T | 14.84 | 22.80 | -7.96 | |
| 5720 | 144 | AVG | 242T | 14.81 | 22.80 | -7.99 | | |
| 5745 | 149 | AVG | 242T | 14.44 | 30.00 | -15.56 | | |
| 5785 | 157 | AVG | 242T | 14.89 | 30.00 | -15.11 | | |
| 5825 | 165 | AVG | 242T | 14.69 | 30.00 | -15.31 | | |

Table 7-42. 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | 62 | | |
| | 5190 | 38 | AVG | 242T | 13.25 | 13.07 | 23.98 | -10.73 |
| | 5230 | 46 | AVG | 242T | 14.90 | 14.76 | 23.98 | -9.08 |
| | 5270 | 54 | AVG | 242T | 14.97 | 14.80 | 23.47 | -8.50 |
| | 5310 | 62 | AVG | 242T | 12.63 | 12.97 | 23.47 | -10.50 |
| | 5510 | 102 | AVG | 242T | 12.94 | 12.85 | 22.80 | -9.86 |
| | 5590 | 118 | AVG | 242T | 14.50 | 14.59 | 22.80 | -8.21 |
| | 5710 | 142 | AVG | 242T | 14.58 | 14.81 | 22.80 | -7.99 |
| | 5755 | 151 | AVG | 242T | 14.46 | 14.62 | 30.00 | -15.38 |
| 5795 | 159 | AVG | 242T | 14.60 | 14.56 | 30.00 | -15.40 | |

Table 7-43. 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | 62 | 64 | | |
| | 5210 | 42 | AVG | 242T | 12.81 | 12.82 | 12.42 | 23.98 | -11.16 |
| | 5290 | 58 | AVG | 242T | 11.16 | 11.04 | 10.93 | 23.47 | -12.31 |
| | 5530 | 106 | AVG | 242T | 11.06 | 11.23 | 11.20 | 22.80 | -11.57 |
| | 5610 | 122 | AVG | 242T | 14.80 | 14.96 | 14.99 | 22.80 | -7.81 |
| | 5690 | 138 | AVG | 242T | 14.96 | 14.32 | 14.48 | 22.80 | -7.84 |
| | 5775 | 155 | AVG | 242T | 14.82 | 14.95 | 14.99 | 30.00 | -15.01 |

Table 7-44. 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | Page 154 of 413 | |

SISO ANT 1 Conducted Output Power Measurements (484 Tones) – Q

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|
| | | | | | | | |
| | 5190 | 38 | AVG | 484T | 13.47 | 23.98 | -10.51 |
| | 5230 | 46 | AVG | 484T | 14.85 | 23.98 | -9.13 |
| | 5270 | 54 | AVG | 484T | 14.86 | 23.47 | -8.61 |
| | 5310 | 62 | AVG | 484T | 12.77 | 23.47 | -10.70 |
| | 5510 | 102 | AVG | 484T | 12.98 | 22.80 | -9.82 |
| | 5590 | 118 | AVG | 484T | 14.49 | 22.80 | -8.31 |
| | 5710 | 142 | AVG | 484T | 14.64 | 22.80 | -8.16 |
| | 5755 | 151 | AVG | 484T | 14.53 | 30.00 | -15.47 |
| 5795 | 159 | AVG | 484T | 14.54 | 30.00 | -15.46 | |

Table 7-45. 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-----------------------------|-----------------------------|
| | | | | | 65 | 66 | | |
| | 5210 | 42 | AVG | 484T | 12.79 | 12.55 | 23.98 | -11.19 |
| 5290 | 58 | AVG | 484T | 11.16 | 11.07 | 23.47 | -12.31 | |
| 5530 | 106 | AVG | 484T | 11.32 | 11.49 | 22.80 | -11.31 | |
| 5610 | 122 | AVG | 484T | 14.89 | 14.98 | 22.80 | -7.82 | |
| 5690 | 138 | AVG | 484T | 14.28 | 14.49 | 22.80 | -8.31 | |
| 5775 | 155 | AVG | 484T | 14.82 | 14.99 | 30.00 | -15.01 | |

Table 7-46. 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 155 of 413 |

SISO ANT 1 Conducted Output Power Measurements (996 Tones) – Q

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-----------------------------|-----------------------------|
| | | | | | 67 | | |
| | 5210 | 42 | AVG | 996T | 12.84 | 23.98 | -11.14 |
| | 5290 | 58 | AVG | 996T | 11.30 | 23.47 | -12.17 |
| | 5530 | 106 | AVG | 996T | 11.47 | 22.80 | -11.33 |
| | 5610 | 122 | AVG | 996T | 14.72 | 22.80 | -8.08 |
| | 5690 | 138 | AVG | 996T | 14.96 | 22.80 | -7.84 |
| 5775 | 155 | AVG | 996T | 14.74 | 30.00 | -15.26 | |

Table 7-47. 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

| | | | | |
|---|--|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  PCTEST Proud to be part of  element | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 156 of 413 |

MIMO Maximum Conducted Output Power Measurements (26 Tones) – N

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | | | 4 | | | 8 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5180 | 36 | AVG | 26T | 10.31 | 10.33 | 13.33 | 10.46 | 10.37 | 13.43 | 10.45 | 10.21 | 13.34 | 23.98 | -10.55 | |
| 5200 | 40 | AVG | 26T | 10.46 | 9.54 | 13.03 | 10.47 | 9.61 | 13.07 | 10.46 | 9.56 | 13.04 | 23.98 | -10.91 | |
| 5240 | 48 | AVG | 26T | 10.35 | 10.15 | 13.26 | 10.26 | 10.32 | 13.30 | 10.23 | 10.02 | 13.14 | 23.98 | -10.68 | |
| 5260 | 52 | AVG | 26T | 10.45 | 10.06 | 13.27 | 10.44 | 9.97 | 13.22 | 10.46 | 9.67 | 13.09 | 23.47 | -10.20 | |
| 5280 | 56 | AVG | 26T | 10.49 | 9.58 | 13.07 | 10.48 | 9.61 | 13.08 | 10.43 | 9.52 | 13.01 | 23.47 | -10.39 | |
| 5320 | 64 | AVG | 26T | 10.45 | 10.48 | 13.48 | 10.03 | 10.21 | 13.13 | 10.38 | 10.45 | 13.43 | 23.47 | -9.99 | |
| 5500 | 100 | AVG | 26T | 10.23 | 10.43 | 13.34 | 10.08 | 10.45 | 13.28 | 10.18 | 10.49 | 13.35 | 22.80 | -9.45 | |
| 5600 | 120 | AVG | 26T | 10.49 | 9.74 | 13.14 | 10.48 | 9.86 | 13.19 | 10.47 | 9.81 | 13.16 | 22.80 | -9.61 | |
| 5720 | 144 | AVG | 26T | 9.86 | 10.01 | 12.95 | 10.01 | 10.03 | 13.03 | 9.93 | 10.13 | 13.04 | 22.80 | -9.76 | |
| 5745 | 149 | AVG | 26T | 10.43 | 10.04 | 13.25 | 10.36 | 10.05 | 13.22 | 10.23 | 10.13 | 13.19 | 30.00 | -16.75 | |
| 5785 | 157 | AVG | 26T | 9.77 | 10.15 | 12.97 | 9.65 | 10.25 | 12.97 | 9.63 | 9.98 | 12.82 | 30.00 | -17.03 | |
| 5825 | 165 | AVG | 26T | 10.37 | 10.26 | 13.33 | 9.93 | 10.72 | 13.35 | 9.96 | 10.34 | 13.16 | 30.00 | -16.65 | |

Table 7-48. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | | | 8 | | | 17 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5190 | 38 | AVG | 26T | 10.49 | 9.65 | 13.10 | 10.48 | 10.02 | 13.27 | 10.43 | 9.75 | 13.11 | 23.98 | -10.71 | |
| 5230 | 46 | AVG | 26T | 10.48 | 10.08 | 13.29 | 10.35 | 10.06 | 13.22 | 10.47 | 9.65 | 13.09 | 23.98 | -10.68 | |
| 5270 | 54 | AVG | 26T | 10.45 | 9.94 | 13.21 | 10.25 | 9.64 | 12.97 | 10.46 | 9.61 | 13.07 | 23.47 | -10.26 | |
| 5310 | 62 | AVG | 26T | 10.46 | 10.19 | 13.34 | 10.49 | 10.08 | 13.30 | 10.42 | 9.88 | 13.17 | 23.47 | -10.13 | |
| 5510 | 102 | AVG | 26T | 10.47 | 10.48 | 13.49 | 10.13 | 10.47 | 13.31 | 10.38 | 10.49 | 13.45 | 22.80 | -9.31 | |
| 5590 | 118 | AVG | 26T | 10.28 | 9.76 | 13.04 | 10.48 | 10.33 | 13.42 | 10.25 | 10.18 | 13.23 | 22.80 | -9.38 | |
| 5710 | 142 | AVG | 26T | 10.43 | 10.21 | 13.33 | 10.05 | 9.88 | 12.98 | 10.18 | 10.45 | 13.33 | 22.80 | -9.47 | |
| 5755 | 151 | AVG | 26T | 10.31 | 9.67 | 13.01 | 10.49 | 10.08 | 13.30 | 10.48 | 10.25 | 13.38 | 30.00 | -16.62 | |
| 5795 | 159 | AVG | 26T | 9.77 | 10.45 | 13.13 | 9.61 | 10.28 | 12.97 | 9.58 | 10.43 | 13.04 | 30.00 | -16.87 | |

Table 7-49. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | | | 18 | | | 36 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5210 | 42 | AVG | 26T | 10.49 | 10.13 | 13.32 | 10.45 | 9.53 | 13.02 | 10.48 | 9.56 | 13.05 | 23.98 | -10.66 | |
| 5290 | 58 | AVG | 26T | 10.17 | 10.03 | 13.11 | 10.38 | 8.95 | 12.73 | 10.49 | 9.12 | 12.87 | 23.47 | -10.36 | |
| 5530 | 106 | AVG | 26T | 10.48 | 9.86 | 13.19 | 10.39 | 10.36 | 13.39 | 10.35 | 10.47 | 13.42 | 22.80 | -9.38 | |
| 5610 | 122 | AVG | 26T | 10.46 | 9.65 | 13.08 | 10.48 | 10.23 | 13.37 | 10.15 | 10.32 | 13.25 | 22.80 | -9.43 | |
| 5690 | 138 | AVG | 26T | 10.31 | 9.57 | 12.97 | 10.45 | 10.04 | 13.26 | 10.35 | 9.99 | 13.19 | 22.80 | -9.54 | |
| 5775 | 155 | AVG | 26T | 10.43 | 9.61 | 13.05 | 10.47 | 9.89 | 13.20 | 10.41 | 9.71 | 13.08 | 30.00 | -16.80 | |

Table 7-50. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 157 of 413 |

MIMO Conducted Output Power Measurements (52 Tones) – N

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | | | 39 | | | 40 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5180 | 36 | AVG | 52T | 10.95 | 10.02 | 13.52 | 10.99 | 10.04 | 13.55 | 10.98 | 10.03 | 13.54 | 23.98 | -10.43 | |
| 5200 | 40 | AVG | 52T | 10.91 | 9.35 | 13.21 | 10.89 | 9.45 | 13.24 | 10.88 | 9.42 | 13.22 | 23.98 | -10.74 | |
| 5240 | 48 | AVG | 52T | 10.98 | 10.21 | 13.62 | 10.96 | 10.17 | 13.59 | 10.99 | 10.09 | 13.57 | 23.98 | -10.36 | |
| 5260 | 52 | AVG | 52T | 10.56 | 10.18 | 13.38 | 10.65 | 10.07 | 13.38 | 10.63 | 10.03 | 13.35 | 23.47 | -10.09 | |
| 5280 | 56 | AVG | 52T | 10.96 | 9.73 | 13.40 | 10.97 | 9.67 | 13.38 | 10.91 | 9.48 | 13.26 | 23.47 | -10.07 | |
| 5320 | 64 | AVG | 52T | 10.78 | 10.86 | 13.83 | 10.64 | 10.75 | 13.71 | 10.65 | 10.71 | 13.69 | 23.47 | -9.64 | |
| 5500 | 100 | AVG | 52T | 10.83 | 10.98 | 13.92 | 10.21 | 10.92 | 13.59 | 10.82 | 10.95 | 13.90 | 22.80 | -8.88 | |
| 5600 | 120 | AVG | 52T | 10.96 | 10.04 | 13.53 | 10.91 | 10.05 | 13.51 | 10.95 | 10.07 | 13.54 | 22.80 | -9.26 | |
| 5720 | 144 | AVG | 52T | 10.62 | 10.89 | 13.77 | 10.66 | 10.98 | 13.83 | 10.67 | 10.93 | 13.81 | 22.80 | -8.97 | |
| 5745 | 149 | AVG | 52T | 10.98 | 10.82 | 13.91 | 10.97 | 10.82 | 13.91 | 10.99 | 10.77 | 13.89 | 30.00 | -16.09 | |
| 5785 | 157 | AVG | 52T | 10.13 | 10.83 | 13.50 | 10.12 | 10.83 | 13.50 | 10.08 | 10.85 | 13.49 | 30.00 | -16.50 | |
| 5825 | 165 | AVG | 52T | 10.05 | 10.98 | 13.55 | 10.04 | 10.92 | 13.51 | 10.03 | 10.98 | 13.54 | 30.00 | -16.45 | |

Table 7-51. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | | | 40 | | | 44 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5190 | 38 | AVG | 52T | 10.95 | 10.24 | 13.62 | 10.98 | 10.05 | 13.55 | 10.96 | 10.33 | 13.67 | 23.98 | -10.31 | |
| 5230 | 46 | AVG | 52T | 10.77 | 10.23 | 13.52 | 10.97 | 10.35 | 13.68 | 10.87 | 10.11 | 13.52 | 23.98 | -10.30 | |
| 5270 | 54 | AVG | 52T | 10.84 | 10.18 | 13.53 | 10.94 | 10.06 | 13.53 | 10.99 | 10.02 | 13.54 | 23.47 | -9.93 | |
| 5310 | 62 | AVG | 52T | 10.85 | 10.27 | 13.58 | 10.98 | 10.43 | 13.72 | 10.83 | 10.05 | 13.47 | 23.47 | -9.75 | |
| 5510 | 102 | AVG | 52T | 10.56 | 10.74 | 13.66 | 10.71 | 10.98 | 13.86 | 10.38 | 10.93 | 13.67 | 22.80 | -8.94 | |
| 5590 | 118 | AVG | 52T | 10.97 | 10.35 | 13.68 | 10.85 | 10.28 | 13.58 | 10.98 | 10.71 | 13.86 | 22.80 | -8.94 | |
| 5710 | 142 | AVG | 52T | 10.55 | 10.83 | 13.70 | 10.52 | 10.84 | 13.69 | 10.14 | 10.75 | 13.47 | 22.80 | -9.10 | |
| 5755 | 151 | AVG | 52T | 10.95 | 10.43 | 13.71 | 10.98 | 10.65 | 13.83 | 10.98 | 10.95 | 13.98 | 30.00 | -16.02 | |
| 5795 | 159 | AVG | 52T | 10.34 | 10.91 | 13.64 | 10.35 | 10.98 | 13.69 | 10.06 | 10.89 | 13.51 | 30.00 | -16.31 | |

Table 7-52. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | | | 44 | | | 52 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5210 | 42 | AVG | 52T | 10.97 | 10.12 | 13.58 | 10.98 | 10.04 | 13.55 | 10.81 | 10.03 | 13.45 | 23.98 | -10.40 | |
| 5290 | 58 | AVG | 52T | 10.81 | 10.56 | 13.70 | 10.98 | 10.21 | 13.62 | 10.85 | 10.11 | 13.51 | 23.47 | -9.77 | |
| 5530 | 106 | AVG | 52T | 10.96 | 10.36 | 13.68 | 10.98 | 10.63 | 13.82 | 10.95 | 10.83 | 13.90 | 22.80 | -8.90 | |
| 5610 | 122 | AVG | 52T | 10.98 | 10.24 | 13.64 | 10.93 | 10.15 | 13.57 | 10.99 | 10.52 | 13.77 | 22.80 | -9.03 | |
| 5690 | 138 | AVG | 52T | 10.96 | 10.21 | 13.61 | 10.98 | 10.36 | 13.69 | 10.71 | 10.62 | 13.68 | 22.80 | -9.11 | |
| 5775 | 155 | AVG | 52T | 10.98 | 10.04 | 13.55 | 10.95 | 10.47 | 13.73 | 10.91 | 10.32 | 13.64 | 30.00 | -16.27 | |

Table 7-53. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 158 of 413 |

MIMO Conducted Output Power Measurements (106 Tones) – N

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | | | 54 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5180 | 36 | AVG | 106T | 14.35 | 13.61 | 17.01 | 14.47 | 13.72 | 17.12 | 23.98 | -6.86 | |
| 5200 | 40 | AVG | 106T | 14.47 | 13.53 | 17.04 | 14.47 | 13.54 | 17.04 | 23.98 | -6.94 | |
| 5240 | 48 | AVG | 106T | 14.47 | 14.15 | 17.32 | 14.49 | 14.21 | 17.36 | 23.98 | -6.62 | |
| 5260 | 52 | AVG | 106T | 14.48 | 14.25 | 17.38 | 14.49 | 14.09 | 17.30 | 23.47 | -6.09 | |
| 5280 | 56 | AVG | 106T | 14.46 | 13.61 | 17.07 | 14.45 | 13.08 | 16.83 | 23.47 | -6.40 | |
| 5320 | 64 | AVG | 106T | 14.25 | 13.89 | 17.08 | 14.35 | 13.96 | 17.17 | 23.47 | -6.30 | |
| 5500 | 100 | AVG | 106T | 14.13 | 14.48 | 17.32 | 13.94 | 14.49 | 17.23 | 22.80 | -5.48 | |
| 5600 | 120 | AVG | 106T | 14.48 | 14.02 | 17.27 | 14.49 | 14.08 | 17.30 | 22.80 | -5.50 | |
| 5720 | 144 | AVG | 106T | 14.11 | 14.15 | 17.14 | 14.21 | 14.28 | 17.26 | 22.80 | -5.54 | |
| 5745 | 149 | AVG | 106T | 14.32 | 14.24 | 17.29 | 14.46 | 14.07 | 17.28 | 30.00 | -12.71 | |
| 5785 | 157 | AVG | 106T | 14.02 | 14.46 | 17.26 | 13.96 | 14.36 | 17.17 | 30.00 | -12.74 | |
| 5825 | 165 | AVG | 106T | 13.62 | 14.49 | 17.09 | 13.96 | 14.43 | 17.21 | 30.00 | -12.79 | |

Table 7-54. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | | | 54 | | | 56 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5190 | 38 | AVG | 106T | 14.45 | 13.13 | 16.85 | 14.35 | 13.09 | 16.78 | 14.37 | 13.08 | 16.78 | 23.98 | -7.13 | |
| 5230 | 46 | AVG | 106T | 14.26 | 13.82 | 17.06 | 14.36 | 13.95 | 17.17 | 14.25 | 13.65 | 16.97 | 23.98 | -6.81 | |
| 5270 | 54 | AVG | 106T | 14.49 | 13.61 | 17.08 | 14.48 | 13.59 | 17.07 | 14.43 | 13.22 | 16.88 | 23.47 | -6.39 | |
| 5310 | 62 | AVG | 106T | 14.48 | 14.05 | 17.28 | 14.39 | 13.62 | 17.03 | 14.47 | 13.65 | 17.09 | 23.47 | -6.19 | |
| 5510 | 102 | AVG | 106T | 14.11 | 14.45 | 17.29 | 14.15 | 14.47 | 17.32 | 13.59 | 14.45 | 17.05 | 22.80 | -5.48 | |
| 5590 | 118 | AVG | 106T | 14.48 | 14.05 | 17.28 | 14.49 | 14.29 | 17.40 | 14.48 | 14.13 | 17.32 | 22.80 | -5.40 | |
| 5710 | 142 | AVG | 106T | 14.37 | 13.78 | 17.10 | 14.49 | 14.18 | 17.35 | 14.41 | 14.04 | 17.24 | 22.80 | -5.45 | |
| 5755 | 151 | AVG | 106T | 14.32 | 13.62 | 16.99 | 14.35 | 13.76 | 17.08 | 14.49 | 13.91 | 17.22 | 30.00 | -12.78 | |
| 5795 | 159 | AVG | 106T | 14.02 | 14.46 | 17.26 | 14.21 | 14.48 | 17.36 | 13.75 | 14.39 | 17.09 | 30.00 | -12.64 | |

Table 7-55. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | | | 56 | | | 60 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5210 | 42 | AVG | 106T | 14.35 | 13.89 | 17.14 | 14.48 | 13.72 | 17.13 | 14.45 | 13.86 | 17.18 | 23.98 | -6.80 | |
| 5290 | 58 | AVG | 106T | 14.49 | 14.46 | 17.49 | 14.45 | 13.89 | 17.19 | 14.41 | 13.57 | 17.02 | 23.47 | -5.98 | |
| 5530 | 106 | AVG | 106T | 14.46 | 13.89 | 17.19 | 14.31 | 14.38 | 17.36 | 14.25 | 14.46 | 17.37 | 22.80 | -5.43 | |
| 5610 | 122 | AVG | 106T | 14.45 | 13.62 | 17.07 | 14.48 | 13.87 | 17.20 | 14.21 | 13.59 | 16.92 | 22.80 | -5.60 | |
| 5690 | 138 | AVG | 106T | 14.35 | 13.72 | 17.06 | 14.18 | 14.26 | 17.23 | 14.11 | 14.46 | 17.30 | 22.80 | -5.50 | |
| 5775 | 155 | AVG | 106T | 14.45 | 13.63 | 17.07 | 14.42 | 13.87 | 17.16 | 14.49 | 13.64 | 17.10 | 30.00 | -12.84 | |

Table 7-56. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

MIMO Conducted Output Power Measurements (242 Tones) – N

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | |
| | | | | | 5180 | 36 | AVG | | |
| 5200 | 40 | AVG | 242T | 14.92 | 13.53 | 17.29 | 23.98 | -6.69 | |
| 5240 | 48 | AVG | 242T | 14.67 | 14.68 | 17.69 | 23.98 | -6.29 | |
| 5260 | 52 | AVG | 242T | 14.99 | 14.26 | 17.65 | 23.47 | -5.82 | |
| 5280 | 56 | AVG | 242T | 14.97 | 13.75 | 17.41 | 23.47 | -6.06 | |
| 5320 | 64 | AVG | 242T | 14.97 | 14.72 | 17.86 | 23.47 | -5.61 | |
| 5500 | 100 | AVG | 242T | 14.01 | 14.56 | 17.30 | 22.80 | -5.50 | |
| 5600 | 120 | AVG | 242T | 14.89 | 14.17 | 17.56 | 22.80 | -5.24 | |
| 5720 | 144 | AVG | 242T | 14.95 | 14.98 | 17.98 | 22.80 | -4.82 | |
| 5745 | 149 | AVG | 242T | 14.51 | 14.47 | 17.50 | 30.00 | -12.50 | |
| 5785 | 157 | AVG | 242T | 14.43 | 14.92 | 17.69 | 30.00 | -12.31 | |
| 5825 | 165 | AVG | 242T | 14.02 | 14.98 | 17.54 | 30.00 | -12.46 | |

Table 7-57. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | | | 62 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| | | | | | 5190 | 38 | AVG | 242T | 13.24 | 13.22 | | |
| 5230 | 46 | AVG | 242T | 14.75 | 14.27 | 17.53 | 14.97 | 14.49 | 17.75 | 23.98 | -6.23 | |
| 5270 | 54 | AVG | 242T | 14.93 | 13.75 | 17.39 | 14.98 | 13.42 | 17.28 | 23.47 | -6.08 | |
| 5310 | 62 | AVG | 242T | 12.51 | 12.90 | 15.72 | 12.56 | 12.52 | 15.55 | 23.47 | -7.75 | |
| 5510 | 102 | AVG | 242T | 11.94 | 12.55 | 15.27 | 12.10 | 12.46 | 15.29 | 22.80 | -7.51 | |
| 5590 | 118 | AVG | 242T | 14.98 | 14.55 | 17.78 | 14.97 | 14.78 | 17.89 | 22.80 | -4.91 | |
| 5710 | 142 | AVG | 242T | 14.93 | 14.61 | 17.78 | 14.82 | 14.75 | 17.80 | 22.80 | -5.00 | |
| 5755 | 151 | AVG | 242T | 14.94 | 14.08 | 17.54 | 14.93 | 14.63 | 17.79 | 30.00 | -12.21 | |
| 5795 | 159 | AVG | 242T | 14.65 | 14.98 | 17.83 | 14.43 | 14.97 | 17.72 | 30.00 | -12.17 | |

Table 7-58. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | | | 62 | | | 64 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| | | | | | 5210 | 42 | AVG | 242T | 12.24 | 12.98 | 15.64 | 12.38 | 12.91 | | |
| 5290 | 58 | AVG | 242T | 10.56 | 11.23 | 13.92 | 11.44 | 11.22 | 14.34 | 11.45 | 10.59 | 14.05 | 23.47 | -9.13 | |
| 5530 | 106 | AVG | 242T | 11.25 | 11.10 | 14.19 | 11.46 | 11.30 | 14.39 | 11.06 | 11.25 | 14.17 | 22.80 | -8.41 | |
| 5610 | 122 | AVG | 242T | 14.95 | 14.14 | 17.57 | 14.98 | 14.43 | 17.72 | 14.68 | 14.96 | 17.83 | 22.80 | -4.97 | |
| 5690 | 138 | AVG | 242T | 14.98 | 14.08 | 17.56 | 14.96 | 14.25 | 17.63 | 14.86 | 14.41 | 17.65 | 22.80 | -5.15 | |
| 5775 | 155 | AVG | 242T | 14.75 | 14.07 | 17.43 | 14.91 | 14.73 | 17.83 | 14.95 | 14.63 | 17.80 | 30.00 | -12.17 | |

Table 7-59. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 160 of 413 |

MIMO Conducted Output Power Measurements (484 Tones) – N

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 65 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | |
| | | | | | 5190 | 38 | AVG | | |
| 5230 | 46 | AVG | 484T | 14.86 | 14.15 | 17.53 | 23.98 | -6.45 | |
| 5270 | 54 | AVG | 484T | 14.93 | 13.56 | 17.31 | 23.47 | -6.16 | |
| 5310 | 62 | AVG | 484T | 11.92 | 12.99 | 15.50 | 23.47 | -7.97 | |
| 5510 | 102 | AVG | 484T | 12.04 | 12.66 | 15.37 | 22.80 | -7.43 | |
| 5590 | 118 | AVG | 484T | 14.98 | 14.56 | 17.79 | 22.80 | -5.01 | |
| 5710 | 142 | AVG | 484T | 14.96 | 14.84 | 17.91 | 22.80 | -4.89 | |
| 5755 | 151 | AVG | 484T | 14.85 | 14.08 | 17.49 | 30.00 | -12.51 | |
| 5795 | 159 | AVG | 484T | 14.57 | 14.95 | 17.77 | 30.00 | -12.23 | |

Table 7-60. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 65 | | | 66 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| | | | | | 5210 | 42 | AVG | 484T | 12.15 | 13.17 | | |
| 5290 | 58 | AVG | 484T | 10.75 | 11.03 | 13.90 | 11.45 | 10.52 | 14.02 | 23.47 | -9.45 | |
| 5530 | 106 | AVG | 484T | 11.34 | 11.13 | 14.25 | 11.35 | 11.41 | 14.39 | 22.80 | -8.41 | |
| 5610 | 122 | AVG | 484T | 14.93 | 14.02 | 17.51 | 14.93 | 14.25 | 17.61 | 22.80 | -5.19 | |
| 5690 | 138 | AVG | 484T | 14.95 | 14.25 | 17.62 | 14.87 | 14.52 | 17.71 | 22.80 | -5.09 | |
| 5775 | 155 | AVG | 484T | 14.99 | 14.56 | 17.79 | 14.87 | 14.66 | 17.78 | 30.00 | -12.21 | |

Table 7-61. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 161 of 413 |

MIMO Conducted Output Power Measurements (996 Tones) – N

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 67 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | |
| | | | | | 5210 | 42 | AVG | | |
| 5290 | 58 | AVG | 996T | 11.21 | 11.27 | 14.25 | 23.47 | -9.22 | |
| 5530 | 106 | AVG | 996T | 11.27 | 11.20 | 14.25 | 22.80 | -8.55 | |
| 5610 | 122 | AVG | 996T | 14.96 | 14.15 | 17.58 | 22.80 | -5.22 | |
| 5690 | 138 | AVG | 996T | 14.89 | 14.12 | 17.53 | 22.80 | -5.27 | |
| 5775 | 155 | AVG | 996T | 14.98 | 14.16 | 17.60 | 30.00 | -12.40 | |

Table 7-62. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

Note:

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 17.97 dBm for Antenna-1 and 17.15 dBm for Antenna-2.

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

$$(17.97 \text{ dBm} + 17.15 \text{ dBm}) = (62.66 \text{ mW} + 51.88 \text{ mW}) = 114.54 \text{ mW} = 20.59 \text{ dBm}$$

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 162 of 413 |

MIMO Maximum Conducted Output Power Measurements (26 Tones) – Q

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | | | 4 | | | 8 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5180 | 36 | AVG | 26T | 10.43 | 10.17 | 13.31 | 10.48 | 10.29 | 13.40 | 10.41 | 10.13 | 13.28 | 23.98 | -10.58 | |
| 5200 | 40 | AVG | 26T | 10.21 | 10.33 | 13.28 | 10.26 | 10.46 | 13.37 | 10.09 | 10.33 | 13.22 | 23.98 | -10.61 | |
| 5240 | 48 | AVG | 26T | 10.37 | 10.29 | 13.34 | 10.39 | 10.43 | 13.42 | 10.23 | 10.33 | 13.29 | 23.98 | -10.56 | |
| 5260 | 52 | AVG | 26T | 10.35 | 10.39 | 13.38 | 10.34 | 10.48 | 13.42 | 10.15 | 10.37 | 13.27 | 23.47 | -10.05 | |
| 5280 | 56 | AVG | 26T | 10.42 | 9.79 | 13.13 | 10.45 | 10.20 | 13.34 | 10.27 | 10.01 | 13.15 | 23.47 | -10.13 | |
| 5320 | 64 | AVG | 26T | 10.23 | 9.96 | 13.11 | 10.24 | 10.14 | 13.20 | 10.49 | 10.45 | 13.48 | 23.47 | -9.99 | |
| 5500 | 100 | AVG | 26T | 10.26 | 10.25 | 13.27 | 10.38 | 10.38 | 13.39 | 10.34 | 10.25 | 13.31 | 22.80 | -9.41 | |
| 5600 | 120 | AVG | 26T | 10.07 | 10.01 | 13.05 | 10.12 | 10.18 | 13.16 | 10.08 | 9.91 | 13.01 | 22.80 | -9.64 | |
| 5720 | 144 | AVG | 26T | 10.48 | 10.36 | 13.43 | 10.11 | 10.44 | 13.29 | 10.08 | 10.27 | 13.19 | 22.80 | -9.37 | |
| 5745 | 149 | AVG | 26T | 10.41 | 10.27 | 13.35 | 10.48 | 10.30 | 13.40 | 10.47 | 10.18 | 13.34 | 30.00 | -16.60 | |
| 5785 | 157 | AVG | 26T | 10.48 | 10.38 | 13.44 | 10.13 | 10.46 | 13.31 | 10.09 | 10.30 | 13.21 | 30.00 | -16.56 | |
| 5825 | 165 | AVG | 26T | 10.32 | 10.10 | 13.22 | 10.44 | 10.07 | 13.27 | 10.35 | 10.37 | 13.37 | 30.00 | -16.63 | |


Table 7-63. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | | | 8 | | | 17 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5190 | 38 | AVG | 26T | 10.11 | 10.13 | 13.13 | 10.16 | 10.30 | 13.24 | 10.02 | 10.11 | 13.08 | 23.98 | -10.74 | |
| 5230 | 46 | AVG | 26T | 10.42 | 9.95 | 13.20 | 10.25 | 10.34 | 13.31 | 10.07 | 9.69 | 12.89 | 23.98 | -10.67 | |
| 5270 | 54 | AVG | 26T | 10.13 | 10.28 | 13.22 | 10.49 | 10.25 | 13.38 | 10.42 | 10.25 | 13.35 | 23.47 | -10.09 | |
| 5310 | 62 | AVG | 26T | 10.13 | 10.29 | 13.22 | 10.48 | 10.25 | 13.38 | 10.46 | 10.13 | 13.31 | 23.47 | -10.09 | |
| 5510 | 102 | AVG | 26T | 10.10 | 10.19 | 13.16 | 9.89 | 10.18 | 13.05 | 10.01 | 10.13 | 13.08 | 22.80 | -9.64 | |
| 5590 | 118 | AVG | 26T | 10.24 | 9.88 | 13.07 | 10.06 | 10.32 | 13.20 | 10.17 | 9.81 | 13.00 | 22.80 | -9.60 | |
| 5710 | 142 | AVG | 26T | 10.02 | 10.17 | 13.11 | 10.28 | 10.48 | 13.39 | 10.02 | 9.85 | 12.95 | 22.80 | -9.41 | |
| 5755 | 151 | AVG | 26T | 10.41 | 10.17 | 13.30 | 10.46 | 10.47 | 13.48 | 10.07 | 9.94 | 13.02 | 30.00 | -16.52 | |
| 5795 | 159 | AVG | 26T | 10.13 | 10.42 | 13.29 | 10.23 | 10.35 | 13.30 | 10.44 | 10.19 | 13.33 | 30.00 | -16.67 | |

Table 7-64. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 0 | | | 18 | | | 36 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5210 | 42 | AVG | 26T | 10.26 | 10.27 | 13.28 | 10.39 | 10.49 | 13.45 | 10.27 | 9.98 | 13.14 | 23.98 | -10.53 | |
| 5290 | 58 | AVG | 26T | 10.35 | 10.16 | 13.27 | 10.47 | 10.30 | 13.40 | 10.23 | 10.29 | 13.27 | 23.47 | -10.07 | |
| 5530 | 106 | AVG | 26T | 10.27 | 10.40 | 13.35 | 10.14 | 10.10 | 13.13 | 10.46 | 10.11 | 13.30 | 22.80 | -9.45 | |
| 5610 | 122 | AVG | 26T | 10.42 | 10.10 | 13.27 | 10.36 | 10.31 | 13.35 | 10.25 | 10.43 | 13.35 | 22.80 | -9.45 | |
| 5690 | 138 | AVG | 26T | 9.91 | 10.44 | 13.19 | 10.44 | 10.48 | 13.47 | 10.43 | 10.31 | 13.38 | 22.80 | -9.33 | |
| 5775 | 155 | AVG | 26T | 9.97 | 10.44 | 13.22 | 10.23 | 10.43 | 13.34 | 10.02 | 10.14 | 13.09 | 30.00 | -16.66 | |

Table 7-65. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 163 of 413 |

MIMO Conducted Output Power Measurements (52 Tones) – Q

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | | | 39 | | | 40 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5180 | 36 | AVG | 52T | 10.93 | 10.77 | 13.86 | 10.97 | 10.80 | 13.90 | 10.91 | 10.60 | 13.77 | 23.98 | -10.08 | |
| 5200 | 40 | AVG | 52T | 10.92 | 10.96 | 13.95 | 10.86 | 10.87 | 13.88 | 10.79 | 10.85 | 13.83 | 23.98 | -10.03 | |
| 5240 | 48 | AVG | 52T | 10.86 | 10.83 | 13.86 | 10.91 | 10.96 | 13.95 | 10.76 | 10.80 | 13.79 | 23.98 | -10.03 | |
| 5260 | 52 | AVG | 52T | 10.88 | 10.92 | 13.91 | 10.89 | 10.90 | 13.91 | 10.77 | 10.84 | 13.82 | 23.47 | -9.56 | |
| 5280 | 56 | AVG | 52T | 10.92 | 10.60 | 13.77 | 10.91 | 10.57 | 13.75 | 10.78 | 10.50 | 13.65 | 23.47 | -9.70 | |
| 5320 | 64 | AVG | 52T | 10.67 | 10.51 | 13.60 | 10.66 | 10.49 | 13.59 | 10.98 | 10.46 | 13.74 | 23.47 | -9.73 | |
| 5500 | 100 | AVG | 52T | 10.41 | 10.86 | 13.65 | 10.48 | 10.82 | 13.66 | 10.39 | 10.75 | 13.58 | 22.80 | -9.14 | |
| 5600 | 120 | AVG | 52T | 10.72 | 10.97 | 13.86 | 10.79 | 10.99 | 13.90 | 10.65 | 10.88 | 13.78 | 22.80 | -8.90 | |
| 5720 | 144 | AVG | 52T | 10.62 | 10.49 | 13.57 | 10.81 | 10.43 | 13.63 | 10.79 | 10.27 | 13.55 | 22.80 | -9.17 | |
| 5745 | 149 | AVG | 52T | 10.91 | 10.89 | 13.91 | 10.63 | 10.84 | 13.75 | 10.58 | 10.77 | 13.69 | 30.00 | -16.09 | |
| 5785 | 157 | AVG | 52T | 10.97 | 10.47 | 13.74 | 10.76 | 10.38 | 13.58 | 10.71 | 10.24 | 13.49 | 30.00 | -16.26 | |
| 5825 | 165 | AVG | 52T | 10.94 | 10.48 | 13.73 | 10.98 | 10.43 | 13.72 | 10.96 | 10.31 | 13.66 | 30.00 | -16.27 | |

Table 7-66. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | | | 40 | | | 44 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5190 | 38 | AVG | 52T | 10.73 | 10.79 | 13.77 | 10.54 | 10.70 | 13.63 | 10.55 | 10.69 | 13.63 | 23.98 | -10.21 | |
| 5230 | 46 | AVG | 52T | 10.47 | 10.72 | 13.61 | 10.76 | 10.98 | 13.88 | 10.68 | 10.53 | 13.62 | 23.98 | -10.10 | |
| 5270 | 54 | AVG | 52T | 10.67 | 10.95 | 13.82 | 10.99 | 10.67 | 13.84 | 10.50 | 10.71 | 13.62 | 23.47 | -9.63 | |
| 5310 | 62 | AVG | 52T | 10.72 | 10.87 | 13.81 | 10.48 | 10.67 | 13.59 | 10.57 | 10.74 | 13.67 | 23.47 | -9.66 | |
| 5510 | 102 | AVG | 52T | 10.25 | 10.68 | 13.48 | 10.67 | 10.96 | 13.83 | 10.23 | 10.61 | 13.43 | 22.80 | -8.97 | |
| 5590 | 118 | AVG | 52T | 10.34 | 10.68 | 13.52 | 10.81 | 10.90 | 13.87 | 10.48 | 10.55 | 13.53 | 22.80 | -8.93 | |
| 5710 | 142 | AVG | 52T | 10.75 | 10.27 | 13.53 | 10.79 | 10.46 | 13.64 | 10.52 | 10.01 | 13.28 | 22.80 | -9.16 | |
| 5755 | 151 | AVG | 52T | 10.59 | 10.89 | 13.75 | 10.76 | 10.54 | 13.66 | 10.41 | 10.58 | 13.51 | 30.00 | -16.25 | |
| 5795 | 159 | AVG | 52T | 10.72 | 10.60 | 13.67 | 10.80 | 10.79 | 13.81 | 10.53 | 10.89 | 13.72 | 30.00 | -16.19 | |

Table 7-67. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 37 | | | 44 | | | 52 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5210 | 42 | AVG | 52T | 10.75 | 10.84 | 13.81 | 10.89 | 10.97 | 13.94 | 10.81 | 10.83 | 13.83 | 23.98 | -10.04 | |
| 5290 | 58 | AVG | 52T | 10.87 | 10.68 | 13.79 | 10.81 | 10.80 | 13.82 | 10.74 | 10.74 | 13.75 | 23.47 | -9.65 | |
| 5530 | 106 | AVG | 52T | 10.57 | 10.72 | 13.66 | 10.88 | 10.90 | 13.90 | 10.73 | 10.51 | 13.63 | 22.80 | -8.90 | |
| 5610 | 122 | AVG | 52T | 10.93 | 10.94 | 13.95 | 10.88 | 10.74 | 13.82 | 10.76 | 10.55 | 13.67 | 22.80 | -8.85 | |
| 5690 | 138 | AVG | 52T | 10.64 | 10.92 | 13.79 | 10.62 | 10.97 | 13.81 | 10.69 | 10.67 | 13.69 | 22.80 | -8.99 | |
| 5775 | 155 | AVG | 52T | 10.36 | 10.92 | 13.66 | 10.97 | 10.82 | 13.91 | 10.77 | 10.53 | 13.66 | 30.00 | -16.09 | |

Table 7-68. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 164 of 413 |

MIMO Conducted Output Power Measurements (106 Tones) – Q

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | | | 54 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5180 | 36 | AVG | 106T | 14.32 | 14.13 | 17.24 | 14.27 | 14.10 | 17.20 | 23.98 | -6.74 | |
| 5200 | 40 | AVG | 106T | 14.15 | 14.22 | 17.20 | 14.05 | 14.16 | 17.12 | 23.98 | -6.78 | |
| 5240 | 48 | AVG | 106T | 14.11 | 14.16 | 17.15 | 14.03 | 14.08 | 17.07 | 23.98 | -6.83 | |
| 5260 | 52 | AVG | 106T | 14.15 | 14.16 | 17.17 | 14.04 | 14.19 | 17.13 | 23.47 | -6.30 | |
| 5280 | 56 | AVG | 106T | 14.15 | 13.94 | 17.06 | 14.08 | 13.85 | 16.98 | 23.47 | -6.41 | |
| 5320 | 64 | AVG | 106T | 14.05 | 13.93 | 17.00 | 14.02 | 13.81 | 16.93 | 23.47 | -6.47 | |
| 5500 | 100 | AVG | 106T | 14.27 | 13.97 | 17.13 | 14.27 | 13.89 | 17.09 | 22.80 | -5.67 | |
| 5600 | 120 | AVG | 106T | 14.19 | 14.38 | 17.30 | 14.10 | 14.31 | 17.22 | 22.80 | -5.50 | |
| 5720 | 144 | AVG | 106T | 14.14 | 14.23 | 17.20 | 14.06 | 14.11 | 17.10 | 22.80 | -5.60 | |
| 5745 | 149 | AVG | 106T | 14.14 | 14.05 | 17.11 | 14.29 | 13.94 | 17.13 | 30.00 | -12.87 | |
| 5785 | 157 | AVG | 106T | 14.22 | 14.45 | 17.35 | 14.27 | 14.28 | 17.29 | 30.00 | -12.65 | |
| 5825 | 165 | AVG | 106T | 14.43 | 14.33 | 17.39 | 14.45 | 14.26 | 17.37 | 30.00 | -12.61 | |

Table 7-69. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | | | 54 | | | 56 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5190 | 38 | AVG | 106T | 14.18 | 14.00 | 17.10 | 14.47 | 14.26 | 17.38 | 14.07 | 13.94 | 17.02 | 23.98 | -6.60 | |
| 5230 | 46 | AVG | 106T | 14.17 | 13.93 | 17.06 | 14.25 | 14.15 | 17.21 | 13.96 | 14.19 | 17.09 | 23.98 | -6.77 | |
| 5270 | 54 | AVG | 106T | 14.19 | 14.35 | 17.28 | 14.28 | 13.98 | 17.14 | 13.94 | 14.22 | 17.09 | 23.47 | -6.19 | |
| 5310 | 62 | AVG | 106T | 14.44 | 13.98 | 17.23 | 14.10 | 14.14 | 17.13 | 14.29 | 14.29 | 17.30 | 23.47 | -6.17 | |
| 5510 | 102 | AVG | 106T | 14.43 | 14.13 | 17.29 | 14.04 | 14.34 | 17.20 | 14.33 | 14.39 | 17.37 | 22.80 | -5.43 | |
| 5590 | 118 | AVG | 106T | 14.12 | 14.21 | 17.18 | 14.42 | 14.49 | 17.47 | 14.16 | 14.11 | 17.15 | 22.80 | -5.33 | |
| 5710 | 142 | AVG | 106T | 14.09 | 13.73 | 16.92 | 14.46 | 13.94 | 17.22 | 14.20 | 14.25 | 17.24 | 22.80 | -5.56 | |
| 5755 | 151 | AVG | 106T | 14.04 | 14.29 | 17.18 | 14.32 | 14.47 | 17.41 | 14.11 | 13.97 | 17.05 | 30.00 | -12.59 | |
| 5795 | 159 | AVG | 106T | 14.08 | 14.15 | 17.13 | 14.34 | 14.23 | 17.30 | 14.06 | 14.39 | 17.24 | 30.00 | -12.70 | |

Table 7-70. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 53 | | | 56 | | | 60 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5210 | 42 | AVG | 106T | 14.37 | 14.19 | 17.29 | 14.42 | 14.30 | 17.37 | 14.26 | 14.35 | 17.32 | 23.98 | -6.61 | |
| 5290 | 58 | AVG | 106T | 14.28 | 14.13 | 17.22 | 14.33 | 14.25 | 17.30 | 14.23 | 14.25 | 17.25 | 23.47 | -6.17 | |
| 5530 | 106 | AVG | 106T | 14.20 | 14.19 | 17.21 | 14.45 | 14.24 | 17.36 | 14.32 | 14.28 | 17.31 | 22.80 | -5.44 | |
| 5610 | 122 | AVG | 106T | 14.22 | 14.02 | 17.13 | 14.49 | 14.12 | 17.32 | 14.48 | 14.02 | 17.27 | 22.80 | -5.48 | |
| 5690 | 138 | AVG | 106T | 13.89 | 14.17 | 17.04 | 14.37 | 14.15 | 17.27 | 14.38 | 13.93 | 17.17 | 22.80 | -5.53 | |
| 5775 | 155 | AVG | 106T | 13.86 | 14.44 | 17.17 | 14.32 | 14.35 | 17.35 | 14.17 | 14.29 | 17.24 | 30.00 | -12.65 | |

Table 7-71. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 165 of 413 |

MIMO Conducted Output Power Measurements (242 Tones) – Q

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | |
| 5180 | 36 | AVG | 242T | 14.73 | 14.87 | 17.81 | 23.98 | -6.17 | |
| 5200 | 40 | AVG | 242T | 14.62 | 14.80 | 17.72 | 23.98 | -6.26 | |
| 5240 | 48 | AVG | 242T | 14.64 | 14.88 | 17.77 | 23.98 | -6.21 | |
| 5260 | 52 | AVG | 242T | 14.55 | 14.88 | 17.73 | 23.47 | -5.74 | |
| 5280 | 56 | AVG | 242T | 14.70 | 14.62 | 17.67 | 23.47 | -5.80 | |
| 5320 | 64 | AVG | 242T | 14.65 | 14.44 | 17.56 | 23.47 | -5.91 | |
| 5500 | 100 | AVG | 242T | 14.57 | 14.51 | 17.55 | 22.80 | -5.25 | |
| 5600 | 120 | AVG | 242T | 14.84 | 14.73 | 17.80 | 22.80 | -5.00 | |
| 5720 | 144 | AVG | 242T | 14.81 | 14.79 | 17.81 | 22.80 | -4.99 | |
| 5745 | 149 | AVG | 242T | 14.44 | 14.96 | 17.72 | 30.00 | -12.28 | |
| 5785 | 157 | AVG | 242T | 14.46 | 14.64 | 17.56 | 30.00 | -12.44 | |
| 5825 | 165 | AVG | 242T | 14.69 | 14.51 | 17.61 | 30.00 | -12.39 | |

Table 7-72. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | | | 62 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5190 | 38 | AVG | 242T | 13.25 | 13.04 | 16.16 | 13.07 | 13.33 | 16.21 | 23.98 | -7.77 | |
| 5230 | 46 | AVG | 242T | 14.90 | 14.44 | 17.69 | 14.76 | 14.99 | 17.89 | 23.98 | -6.09 | |
| 5270 | 54 | AVG | 242T | 14.97 | 14.46 | 17.73 | 14.80 | 14.88 | 17.85 | 23.47 | -5.62 | |
| 5310 | 62 | AVG | 242T | 12.63 | 12.72 | 15.69 | 12.97 | 12.63 | 15.81 | 23.47 | -7.66 | |
| 5510 | 102 | AVG | 242T | 12.94 | 12.95 | 15.96 | 12.85 | 12.82 | 15.85 | 22.80 | -6.84 | |
| 5590 | 118 | AVG | 242T | 14.50 | 14.67 | 17.60 | 14.59 | 14.59 | 17.60 | 22.80 | -5.20 | |
| 5710 | 142 | AVG | 242T | 14.58 | 14.63 | 17.62 | 14.81 | 14.91 | 17.87 | 22.80 | -4.93 | |
| 5755 | 151 | AVG | 242T | 14.46 | 14.72 | 17.60 | 14.62 | 14.44 | 17.54 | 30.00 | -12.40 | |
| 5795 | 159 | AVG | 242T | 14.60 | 14.80 | 17.71 | 14.56 | 14.51 | 17.55 | 30.00 | -12.29 | |

Table 7-73. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 61 | | | 62 | | | 64 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| 5210 | 42 | AVG | 242T | 12.81 | 12.41 | 15.62 | 12.82 | 12.83 | 15.84 | 12.42 | 12.79 | 15.62 | 23.98 | -8.14 | |
| 5290 | 58 | AVG | 242T | 11.16 | 11.41 | 14.30 | 11.04 | 11.44 | 14.25 | 10.93 | 11.32 | 14.14 | 23.47 | -9.17 | |
| 5530 | 106 | AVG | 242T | 11.06 | 10.85 | 13.97 | 11.23 | 11.05 | 14.15 | 11.20 | 10.96 | 14.09 | 22.80 | -8.65 | |
| 5610 | 122 | AVG | 242T | 14.80 | 14.53 | 17.68 | 14.96 | 14.60 | 17.79 | 14.99 | 14.72 | 17.87 | 22.80 | -4.93 | |
| 5690 | 138 | AVG | 242T | 14.96 | 14.73 | 17.86 | 14.32 | 14.66 | 17.50 | 14.48 | 14.69 | 17.60 | 22.80 | -4.94 | |
| 5775 | 155 | AVG | 242T | 14.82 | 14.52 | 17.68 | 14.95 | 14.40 | 17.69 | 14.99 | 14.51 | 17.77 | 30.00 | -12.23 | |

Table 7-74. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 166 of 413 |

MIMO Conducted Output Power Measurements (484 Tones) – Q

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 65 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | |
| | | | | | 5190 | 38 | AVG | | |
| 5230 | 46 | AVG | 484T | 14.85 | 14.65 | 17.76 | 23.98 | -6.22 | |
| 5270 | 54 | AVG | 484T | 14.86 | 14.96 | 17.92 | 23.47 | -5.55 | |
| 5310 | 62 | AVG | 484T | 12.77 | 12.73 | 15.76 | 23.47 | -7.71 | |
| 5510 | 102 | AVG | 484T | 12.98 | 12.97 | 15.99 | 22.80 | -6.81 | |
| 5590 | 118 | AVG | 484T | 14.49 | 14.47 | 17.49 | 22.80 | -5.31 | |
| 5710 | 142 | AVG | 484T | 14.64 | 14.72 | 17.69 | 22.80 | -5.11 | |
| 5755 | 151 | AVG | 484T | 14.53 | 14.64 | 17.60 | 30.00 | -12.40 | |
| 5795 | 159 | AVG | 484T | 14.54 | 14.69 | 17.63 | 30.00 | -12.37 | |

Table 7-75. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 65 | | | 66 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | ANT1 | ANT2 | MIMO | | |
| | | | | | 5210 | 42 | AVG | 484T | 12.79 | 12.61 | | |
| 5290 | 58 | AVG | 484T | 11.16 | 11.38 | 14.28 | 11.07 | 11.41 | 14.25 | 23.47 | -9.19 | |
| 5530 | 106 | AVG | 484T | 11.32 | 11.46 | 14.40 | 11.49 | 11.49 | 14.50 | 22.80 | -8.30 | |
| 5610 | 122 | AVG | 484T | 14.89 | 14.57 | 17.74 | 14.98 | 14.85 | 17.93 | 22.80 | -4.87 | |
| 5690 | 138 | AVG | 484T | 14.28 | 14.67 | 17.49 | 14.49 | 14.85 | 17.68 | 22.80 | -5.12 | |
| 5775 | 155 | AVG | 484T | 14.82 | 14.99 | 17.92 | 14.99 | 14.55 | 17.79 | 30.00 | -12.08 | |

Table 7-76. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 167 of 413 |

MIMO Conducted Output Power Measurements (996 Tones) – Q

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Detector | Tones | RU Index | | | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|----------|-------|----------|-------|-------|-----------------------------|-----------------------------|
| | | | | | 67 | | | | |
| | | | | | ANT1 | ANT2 | MIMO | | |
| | 5210 | 42 | AVG | 996T | 12.84 | 12.62 | 15.74 | 23.98 | -8.24 |
| | 5290 | 58 | AVG | 996T | 11.30 | 11.48 | 14.40 | 23.47 | -9.07 |
| | 5530 | 106 | AVG | 996T | 11.47 | 11.11 | 14.30 | 22.80 | -8.50 |
| | 5610 | 122 | AVG | 996T | 14.72 | 14.73 | 17.74 | 22.80 | -5.06 |
| | 5690 | 138 | AVG | 996T | 14.96 | 14.89 | 17.94 | 22.80 | -4.86 |
| | 5775 | 155 | AVG | 996T | 14.74 | 14.63 | 17.70 | 30.00 | -12.30 |

Table 7-77. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

Note:

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 17.97 dBm for Antenna-1 and 17.15 dBm for Antenna-2.

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

$$(17.97 \text{ dBm} + 17.15 \text{ dBm}) = (62.66 \text{ mW} + 51.88 \text{ mW}) = 114.54 \text{ mW} = 20.59 \text{ dBm}$$

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 168 of 413 |

7.5 Maximum Power Spectral Density – 802.11ax OFDMA §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was 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. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2
KDB 789033 D02 v02r01 – Section F
ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times$ (span/RBW)
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

The power spectral density for each channel was measured with the RU index showing the highest conducted power

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 169 of 413 |

SISO ANT 1 Power Spectral Density Measurements (26 Tones) – N

| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 26T | MCS0 | 6.20 | 11.0 | -4.80 |
| | 5200 | 40 | ax (20MHz) | 26T | MCS0 | 6.01 | 11.0 | -5.00 |
| | 5240 | 48 | ax (20MHz) | 26T | MCS0 | 6.31 | 11.0 | -4.69 |
| | 5190 | 38 | ax (40MHz) | 26T | MCS0 | 6.61 | 11.0 | -4.39 |
| | 5230 | 46 | ax (40MHz) | 26T | MCS0 | 7.28 | 11.0 | -3.72 |
| | 5210 | 42 | ax (80MHz) | 26T | MCS0 | 6.89 | 11.0 | -4.11 |
| Band 2A | 5260 | 52 | ax (20MHz) | 26T | MCS0 | 6.03 | 11.0 | -4.97 |
| | 5280 | 56 | ax (20MHz) | 26T | MCS0 | 6.20 | 11.0 | -4.80 |
| | 5320 | 64 | ax (20MHz) | 26T | MCS0 | 6.29 | 11.0 | -4.71 |
| | 5270 | 54 | ax (40MHz) | 26T | MCS0 | 7.17 | 11.0 | -3.83 |
| | 5310 | 62 | ax (40MHz) | 26T | MCS0 | 7.47 | 11.0 | -3.53 |
| | 5290 | 58 | ax (80MHz) | 26T | MCS0 | 7.58 | 11.0 | -3.42 |
| Band 2C | 5500 | 100 | ax (20MHz) | 26T | MCS0 | 6.18 | 11.0 | -4.82 |
| | 5600 | 120 | ax (20MHz) | 26T | MCS0 | 7.32 | 11.0 | -3.68 |
| | 5720 | 144 | ax (20MHz) | 26T | MCS0 | 8.01 | 11.0 | -2.99 |
| | 5510 | 102 | ax (40MHz) | 26T | MCS0 | 7.46 | 11.0 | -3.54 |
| | 5590 | 118 | ax (40MHz) | 26T | MCS0 | 7.36 | 11.0 | -3.64 |
| | 5710 | 142 | ax (40MHz) | 26T | MCS0 | 8.21 | 11.0 | -2.79 |
| | 5530 | 106 | ax (80MHz) | 26T | MCS0 | 6.21 | 11.0 | -4.79 |
| | 5610 | 122 | ax (80MHz) | 26T | MCS0 | 5.58 | 11.0 | -5.42 |
| | 5690 | 138 | ax (80MHz) | 26T | MCS0 | 6.15 | 11.0 | -4.85 |

Table 7-78. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements (26 Tones)

| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|-------------------------------|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 26T | MCS0 | 4.69 | 30.00 | -25.31 |
| | 5785 | 157 | ax (20MHz) | 26T | MCS0 | 5.03 | 30.00 | -24.97 |
| | 5825 | 165 | ax (20MHz) | 26T | MCS0 | 4.97 | 30.00 | -25.03 |
| | 5755 | 151 | ax (40MHz) | 26T | MCS0 | 5.65 | 30.00 | -24.35 |
| | 5795 | 159 | ax (40MHz) | 26T | MCS0 | 5.08 | 30.00 | -24.92 |
| | 5775 | 155 | ax (80MHz) | 26T | MCS0 | 4.54 | 30.00 | -25.46 |

Table 7-79. Band 3 Conducted Power Spectral Density Measurements (26 Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 170 of 413 |

SISO ANT 1 Power Spectral Density Measurements (Full Tones) – N

| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|-------|------------------|------------------------------|-----------------------------|-------------|
| Band 1 | 5180 | 36 | ax (20MHz) | 242T | MCS0 | 2.49 | 11.0 | -8.51 |
| | 5200 | 40 | ax (20MHz) | 242T | MCS0 | 2.96 | 11.0 | -8.05 |
| | 5240 | 48 | ax (20MHz) | 242T | MCS0 | 2.98 | 11.0 | -8.02 |
| | 5190 | 38 | ax (40MHz) | 484T | MCS0 | -0.19 | 11.0 | -11.19 |
| | 5230 | 46 | ax (40MHz) | 484T | MCS0 | -0.26 | 11.0 | -11.26 |
| | 5210 | 42 | ax (80MHz) | 996T | MCS0 | -3.46 | 11.0 | -14.46 |
| Band 2A | 5260 | 52 | ax (20MHz) | 242T | MCS0 | 2.48 | 11.0 | -8.52 |
| | 5280 | 56 | ax (20MHz) | 242T | MCS0 | 2.72 | 11.0 | -8.28 |
| | 5320 | 64 | ax (20MHz) | 242T | MCS0 | 2.78 | 11.0 | -8.22 |
| | 5270 | 54 | ax (40MHz) | 484T | MCS0 | -0.21 | 11.0 | -11.21 |
| | 5310 | 62 | ax (40MHz) | 484T | MCS0 | -0.45 | 11.0 | -11.45 |
| | 5290 | 58 | ax (80MHz) | 996T | MCS0 | -3.72 | 11.0 | -14.72 |
| Band 2C | 5500 | 100 | ax (20MHz) | 242T | MCS0 | 2.86 | 11.0 | -8.14 |
| | 5600 | 120 | ax (20MHz) | 242T | MCS0 | 2.63 | 11.0 | -8.37 |
| | 5720 | 144 | ax (20MHz) | 242T | MCS0 | 3.79 | 11.0 | -7.21 |
| | 5510 | 102 | ax (40MHz) | 484T | MCS0 | -0.08 | 11.0 | -11.08 |
| | 5590 | 118 | ax (40MHz) | 484T | MCS0 | -0.33 | 11.0 | -11.33 |
| | 5710 | 142 | ax (40MHz) | 484T | MCS0 | 0.40 | 11.0 | -10.60 |
| | 5530 | 106 | ax (80MHz) | 996T | MCS0 | -3.72 | 11.0 | -14.72 |
| | 5610 | 122 | ax (80MHz) | 996T | MCS0 | -3.68 | 11.0 | -14.68 |
| 5690 | 138 | ax (80MHz) | 996T | MCS0 | -3.08 | 11.0 | -14.08 | |

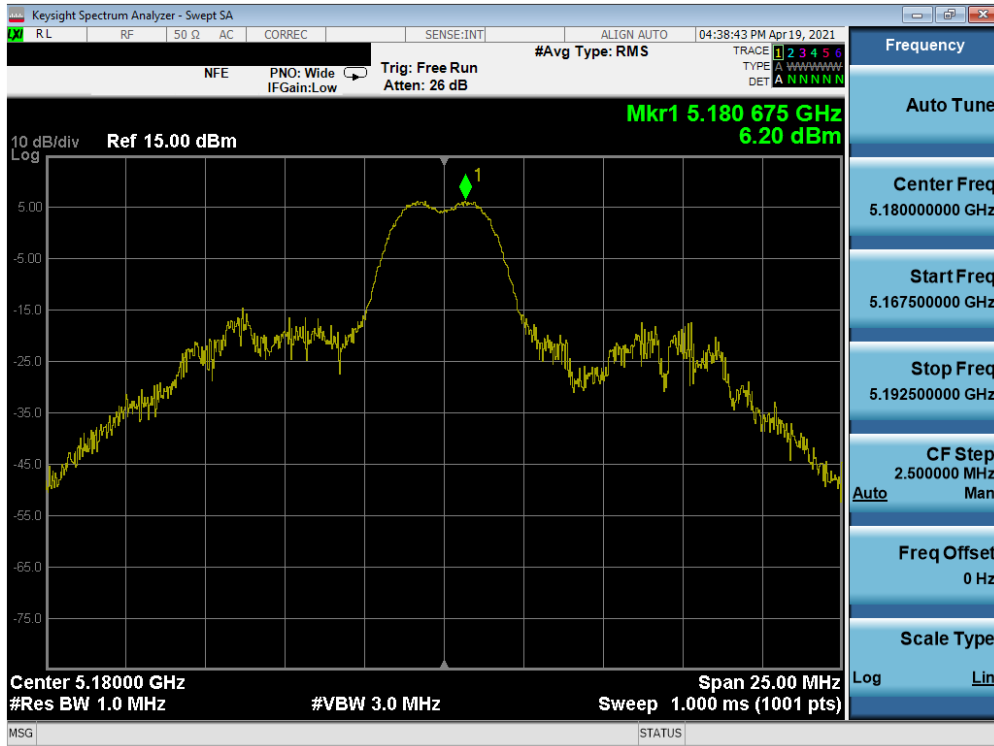
Table 7-80. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements (Full Tones)

| | Frequency [MHz] | Channel No. | 802.11 Mode | Tones | Data Rate [Mbps] | Measured Power Density [dBm] | Max Permissible Power Density | Margin [dB] |
|--------|-----------------|-------------|-------------|-------|------------------|------------------------------|-------------------------------|-------------|
| Band 3 | 5745 | 149 | ax (20MHz) | 242T | MCS0 | 0.63 | 30.00 | -29.37 |
| | 5785 | 157 | ax (20MHz) | 242T | MCS0 | 0.70 | 30.00 | -29.30 |
| | 5825 | 165 | ax (20MHz) | 242T | MCS0 | 0.53 | 30.00 | -29.47 |
| | 5755 | 151 | ax (40MHz) | 484T | MCS0 | -2.62 | 30.00 | -32.62 |
| | 5795 | 159 | ax (40MHz) | 484T | MCS0 | -3.09 | 30.00 | -33.09 |
| | 5775 | 155 | ax (80MHz) | 996T | MCS0 | -5.53 | 30.00 | -35.53 |

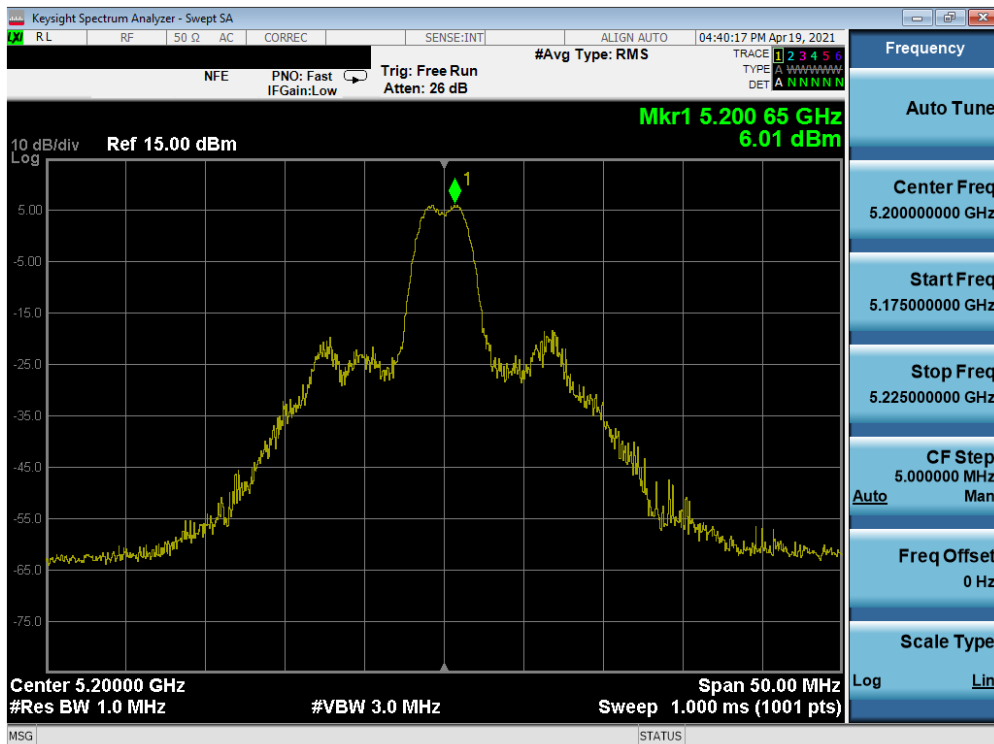
Table 7-81. Band 3 Conducted Power Spectral Density Measurements (Full Tones)

| | | | | |
|---|---|---------------------------------------|---|-----------------------------------|
| FCC ID: A3LSMF711U |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 171 of 413 |

SISO ANT 1 Power Spectral Density Measurements (26 Tones) – N

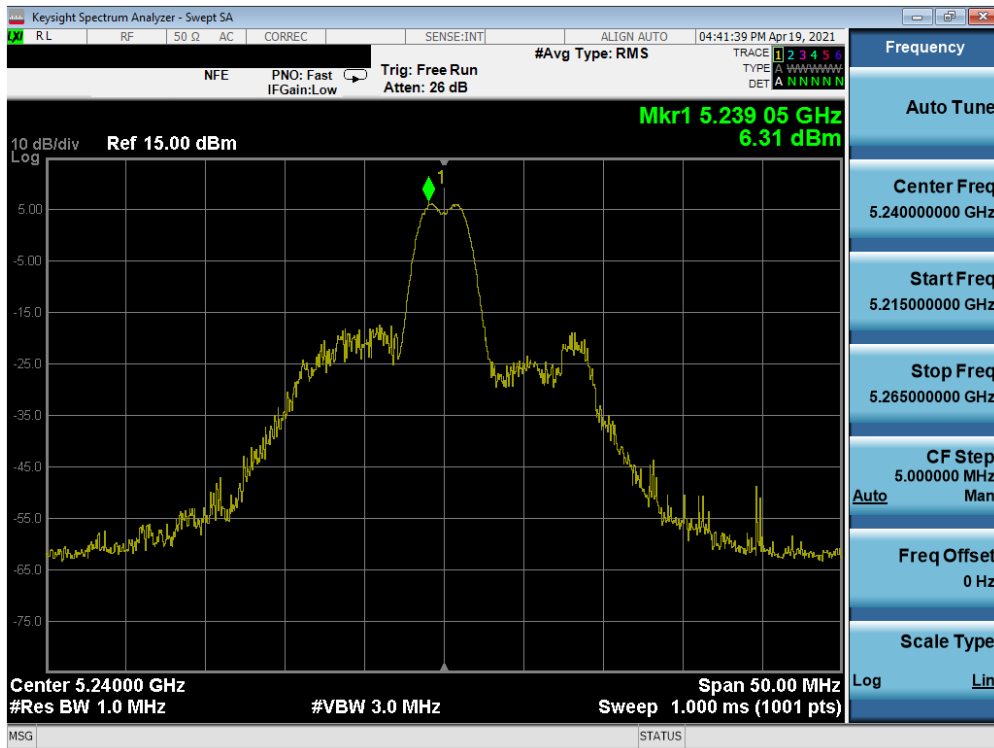


Plot 7-217. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

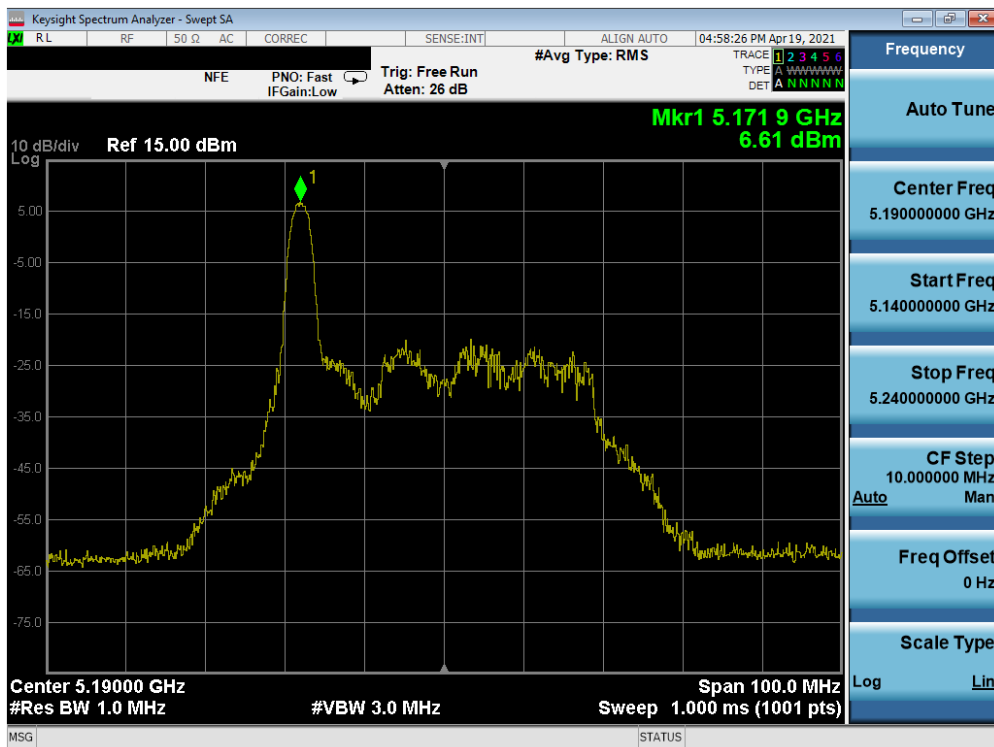


Plot 7-218. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 172 of 413 |

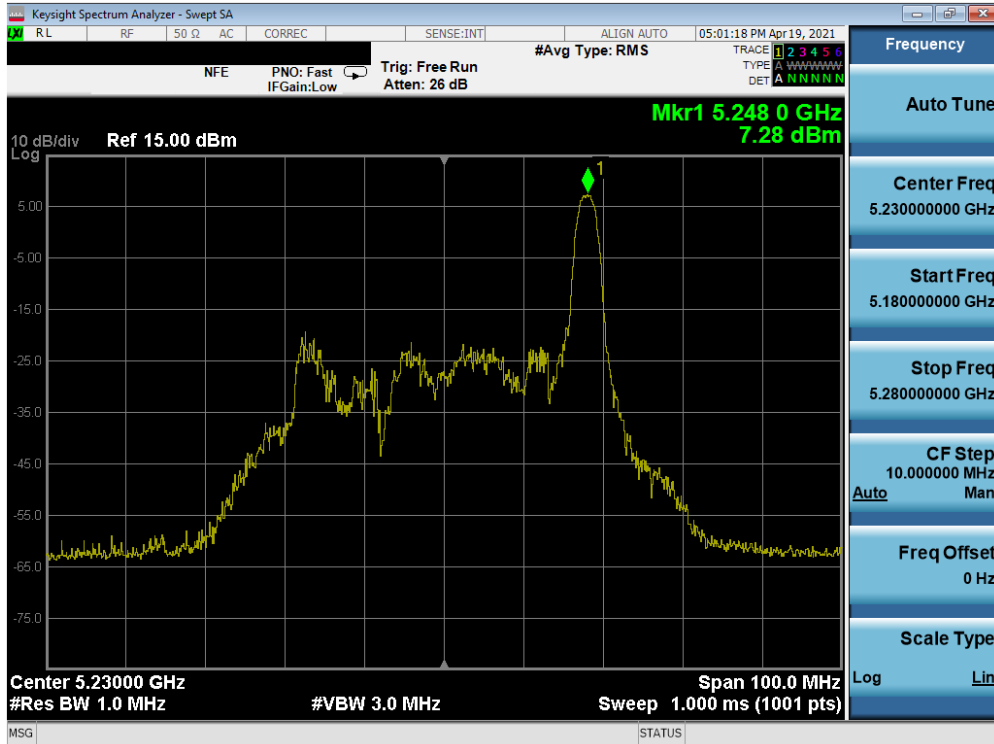


Plot 7-219. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

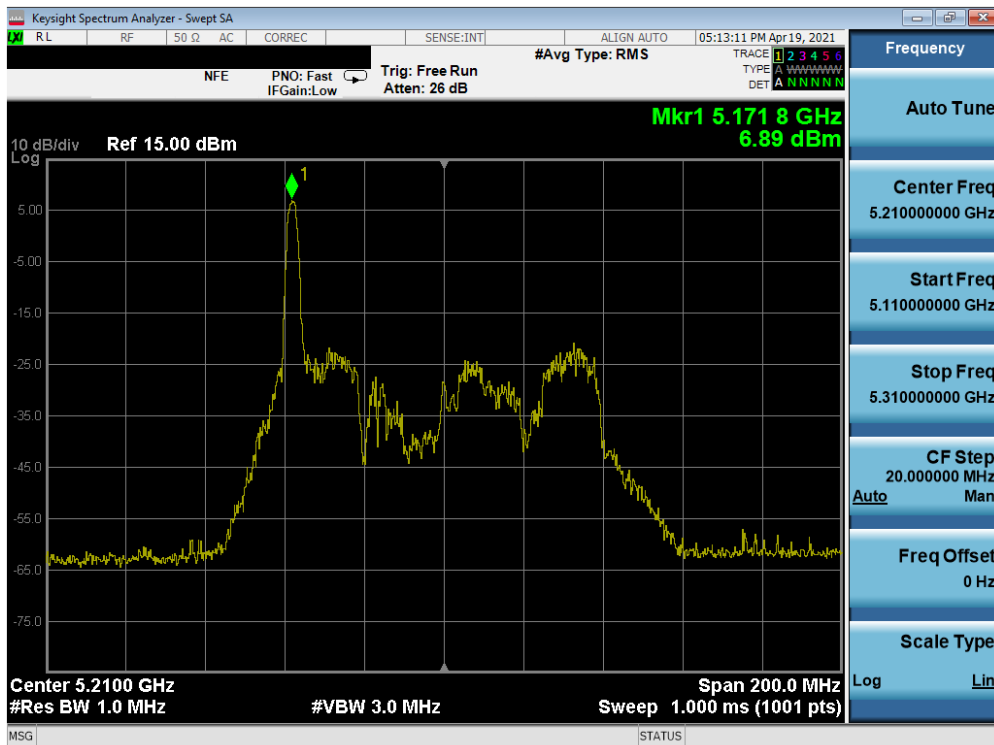


Plot 7-220. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 173 of 413 |

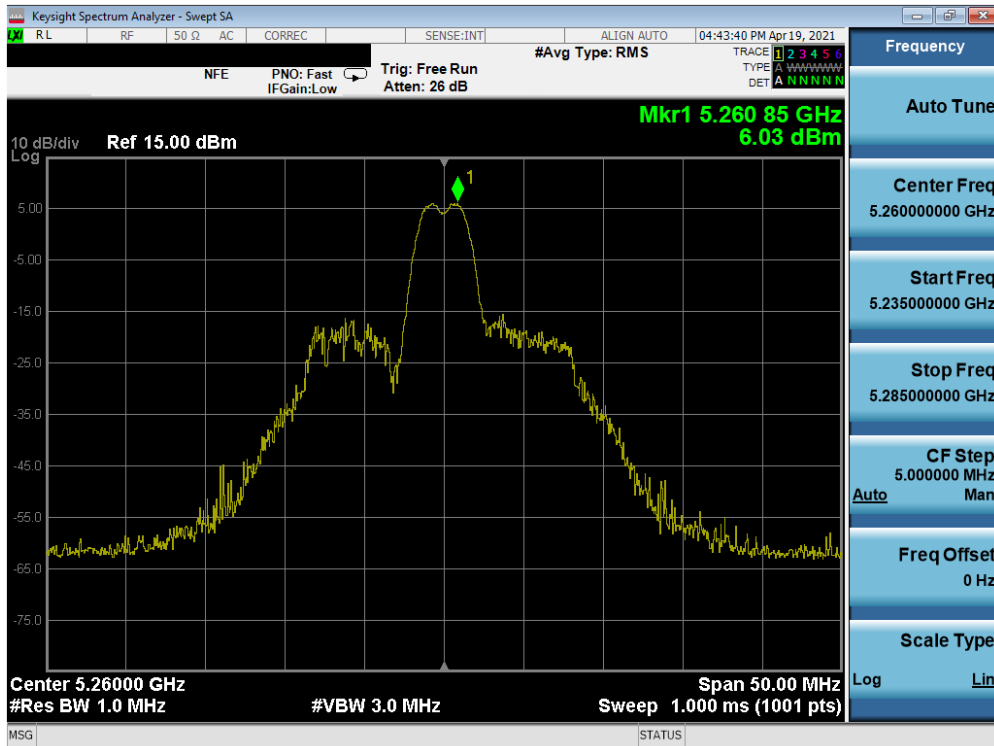


Plot 7-221. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

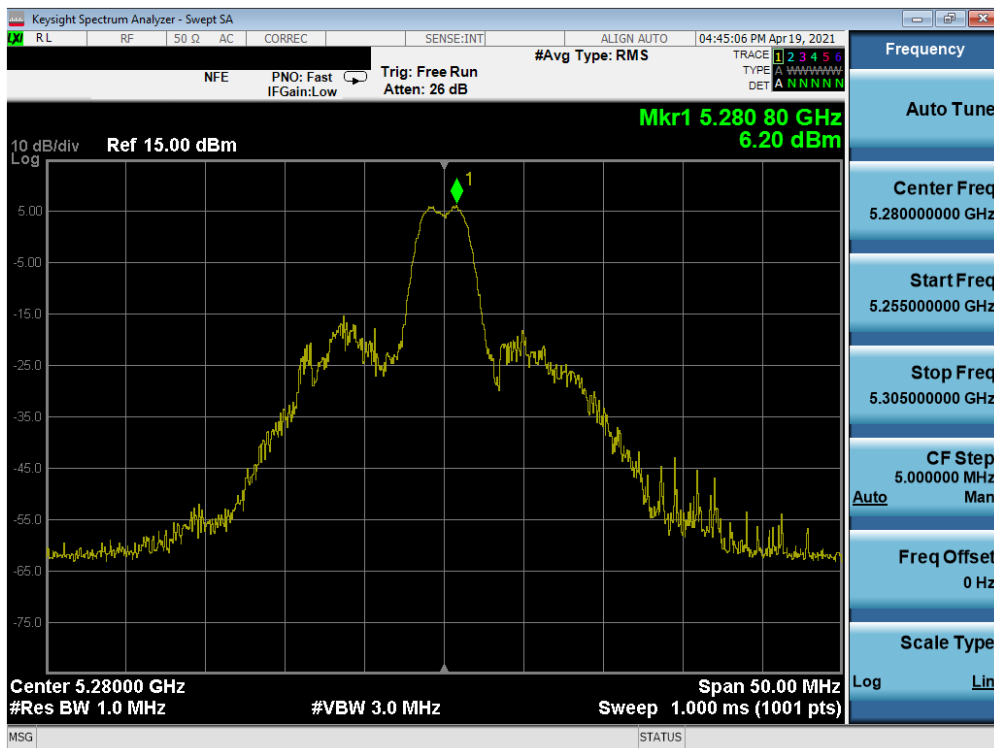


Plot 7-222. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 174 of 413 |

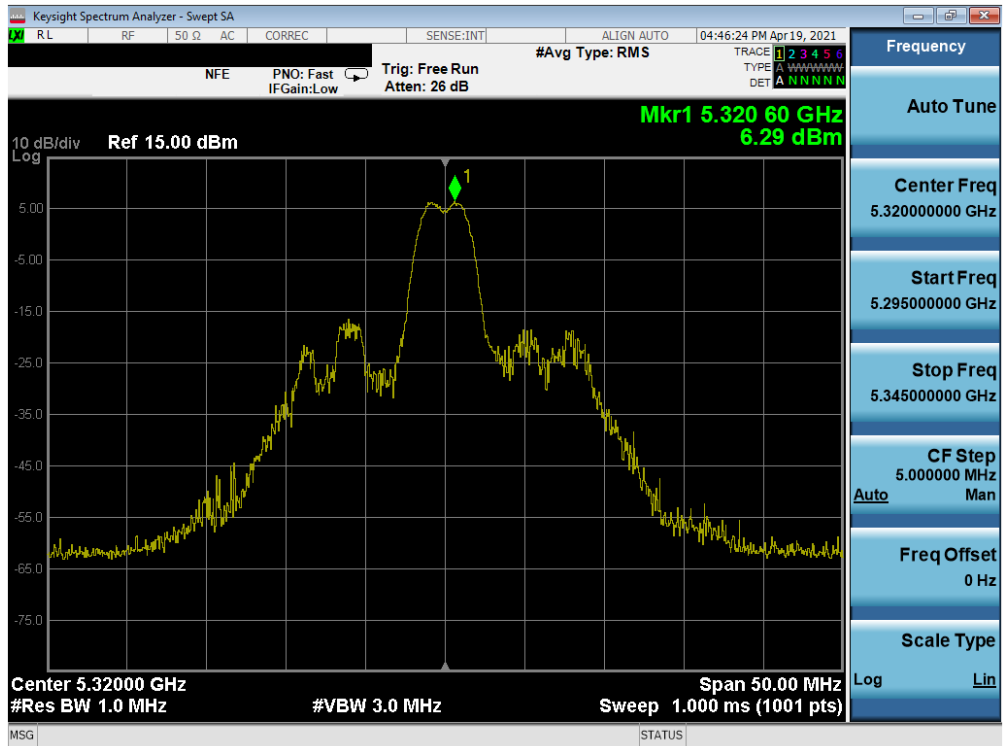


Plot 7-223. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

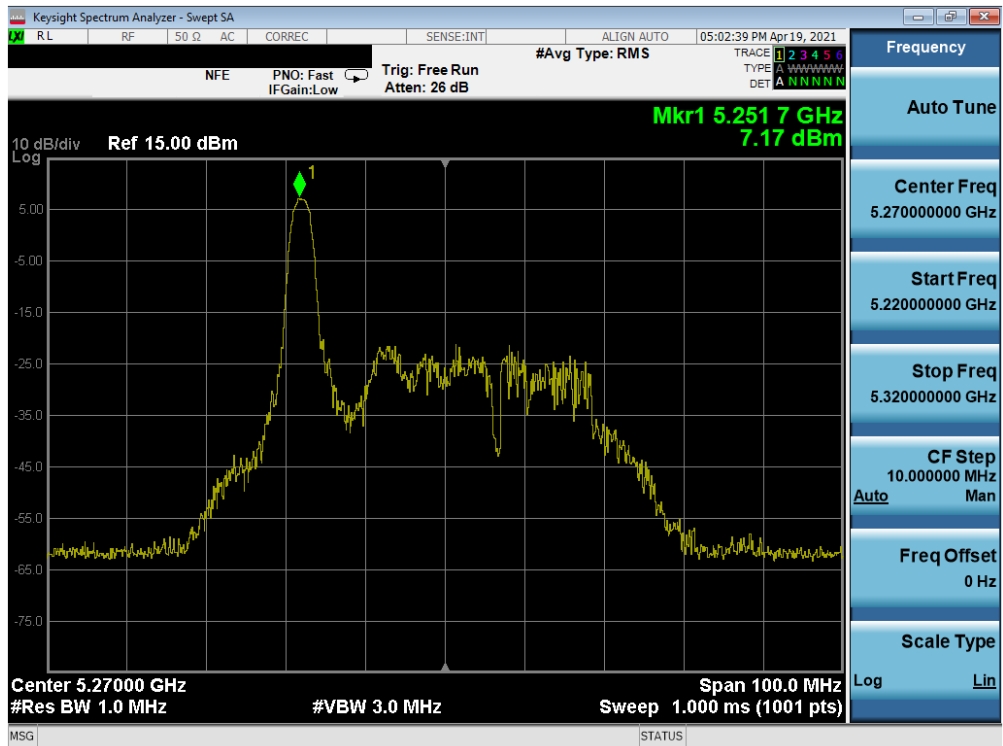


Plot 7-224. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 175 of 413 |

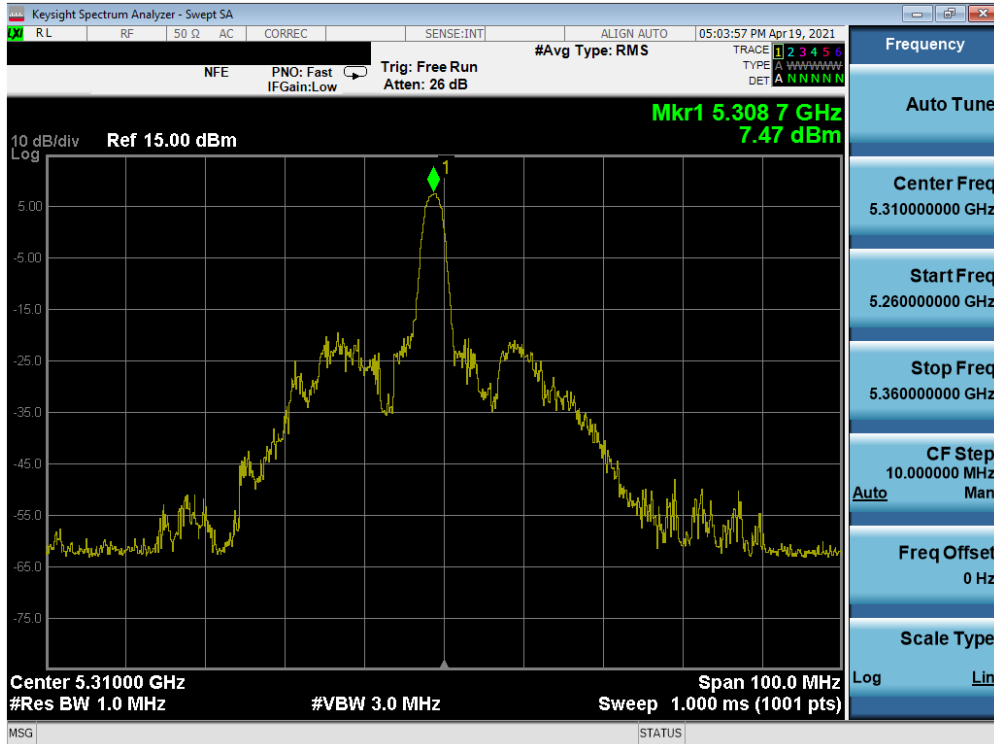


Plot 7-225. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

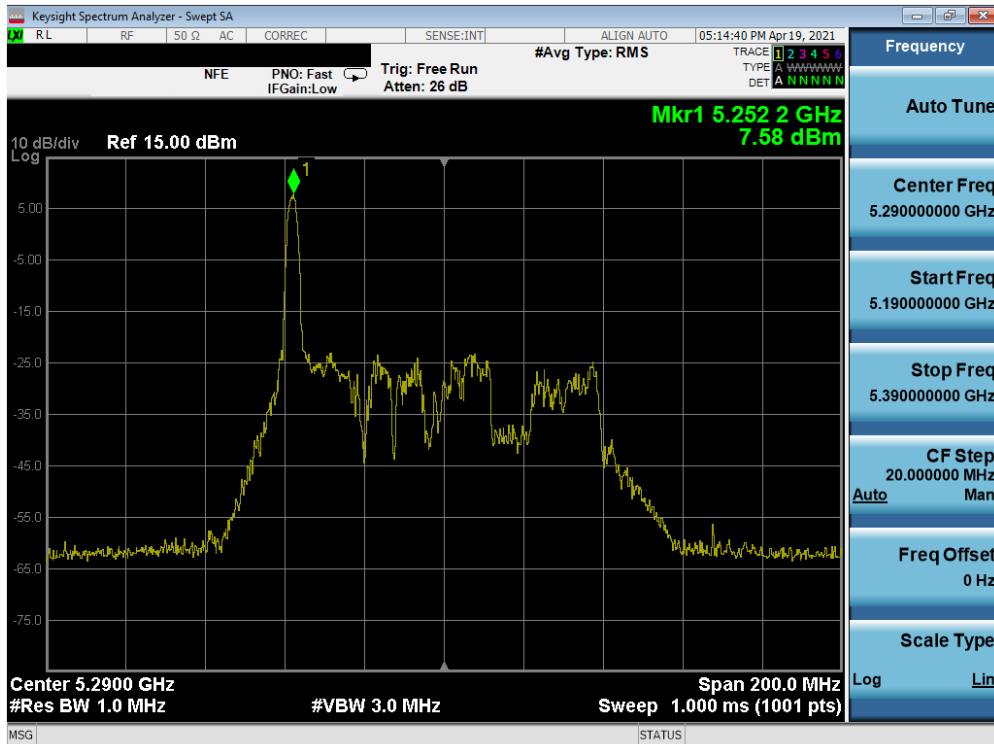


Plot 7-226. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 176 of 413 |

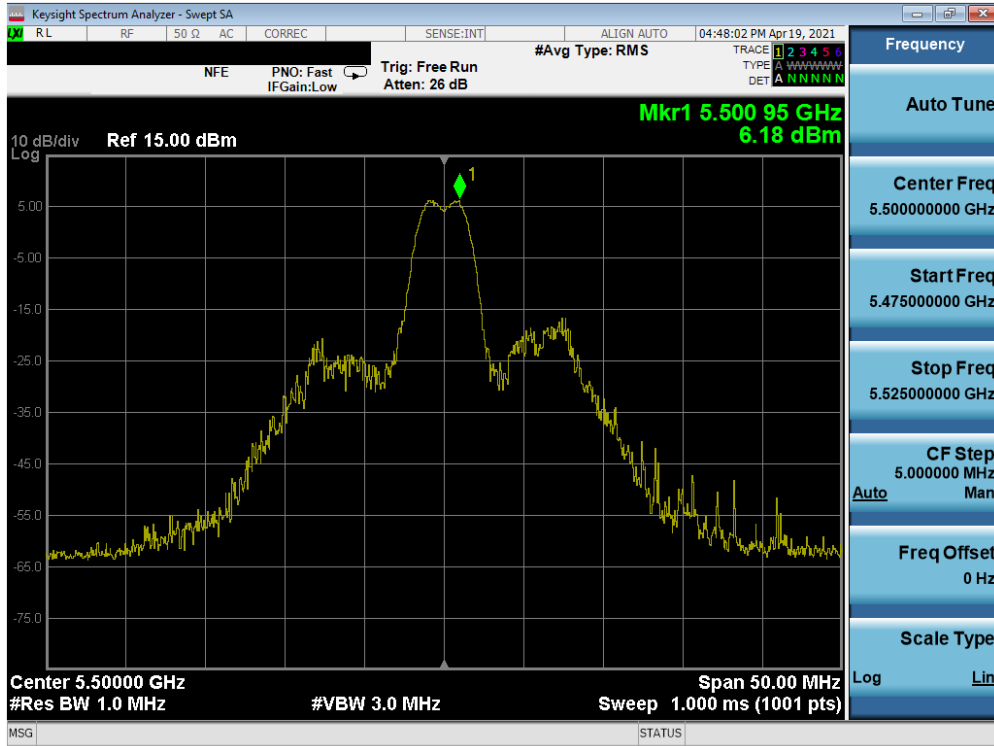


Plot 7-227. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

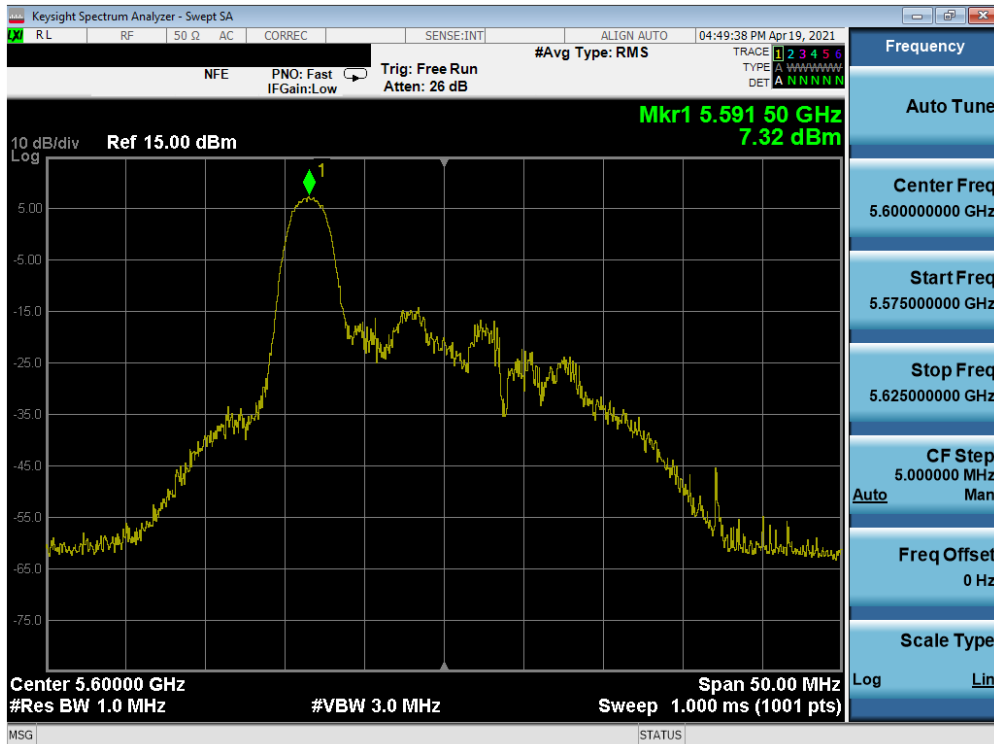


Plot 7-228. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 177 of 413 |

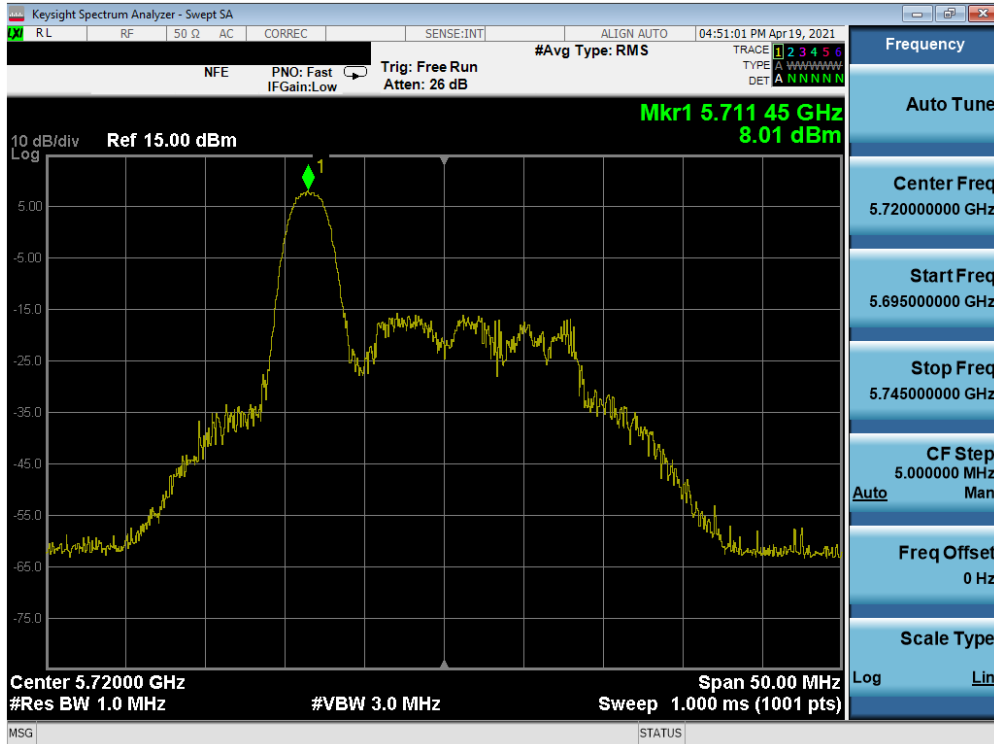


Plot 7-229. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

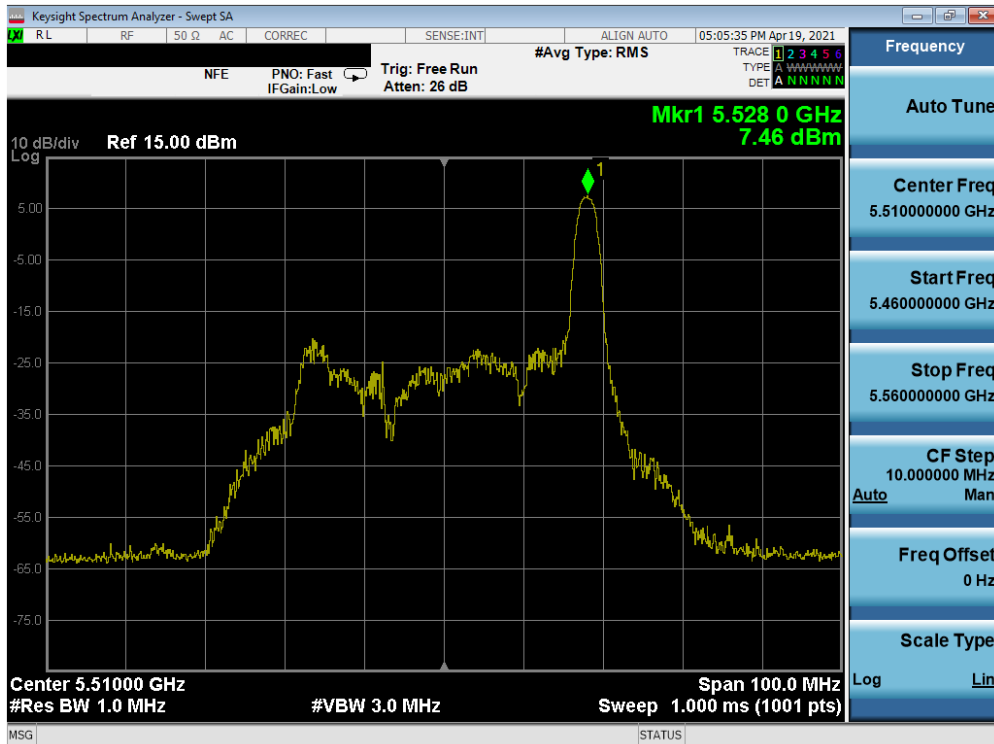


Plot 7-230. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 178 of 413 |



Plot 7-231. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

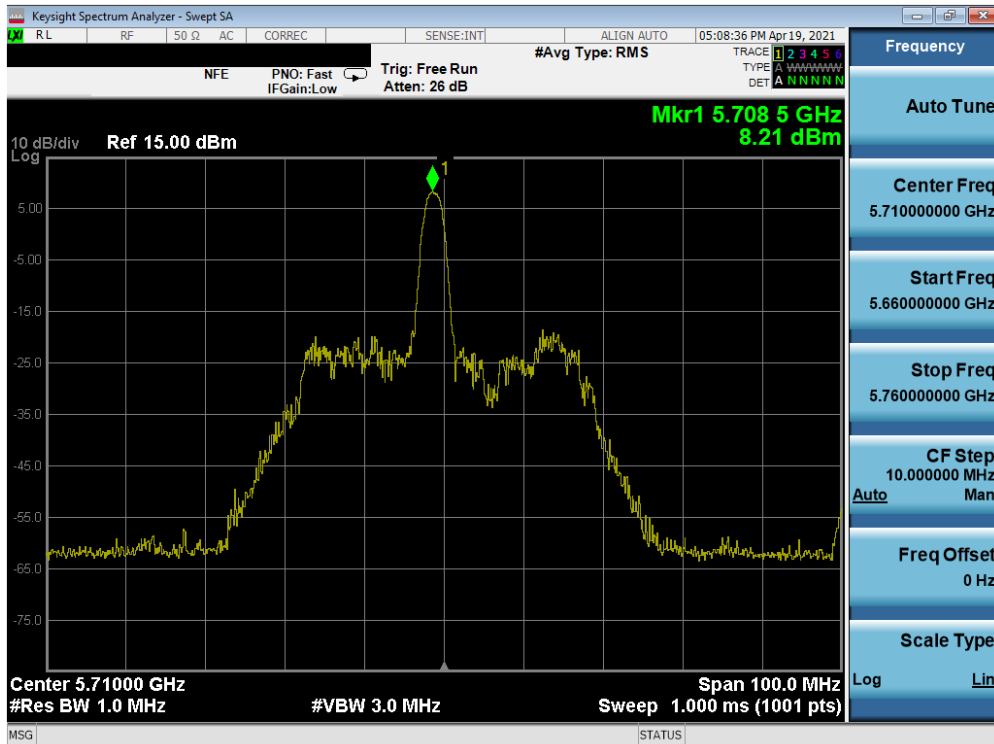


Plot 7-232. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 179 of 413 |

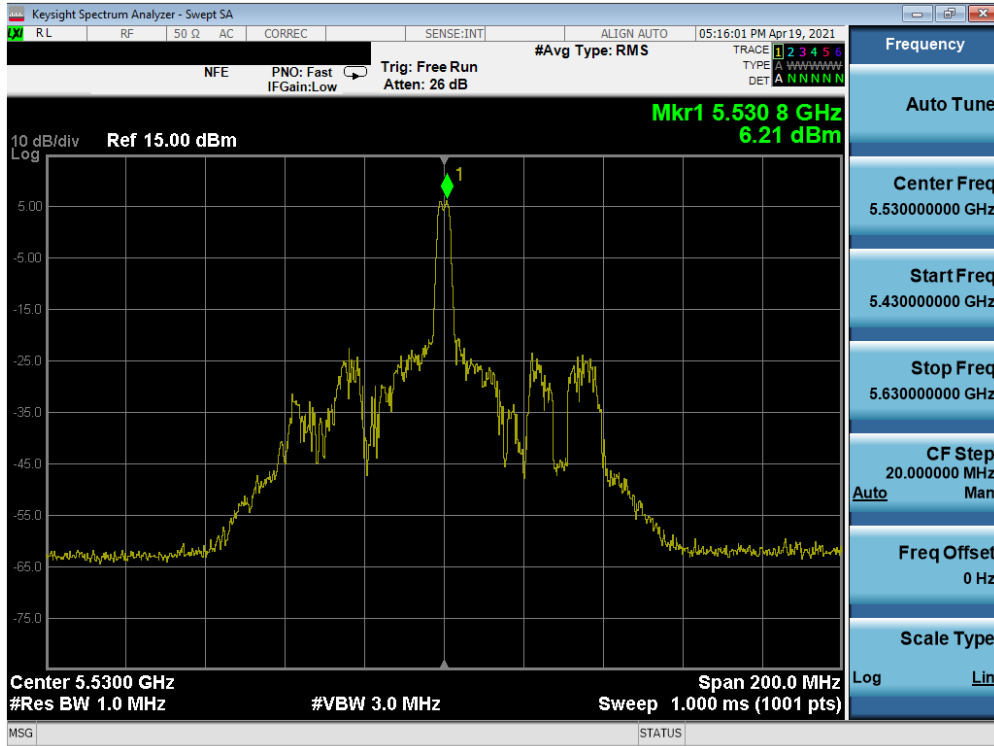


Plot 7-233. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

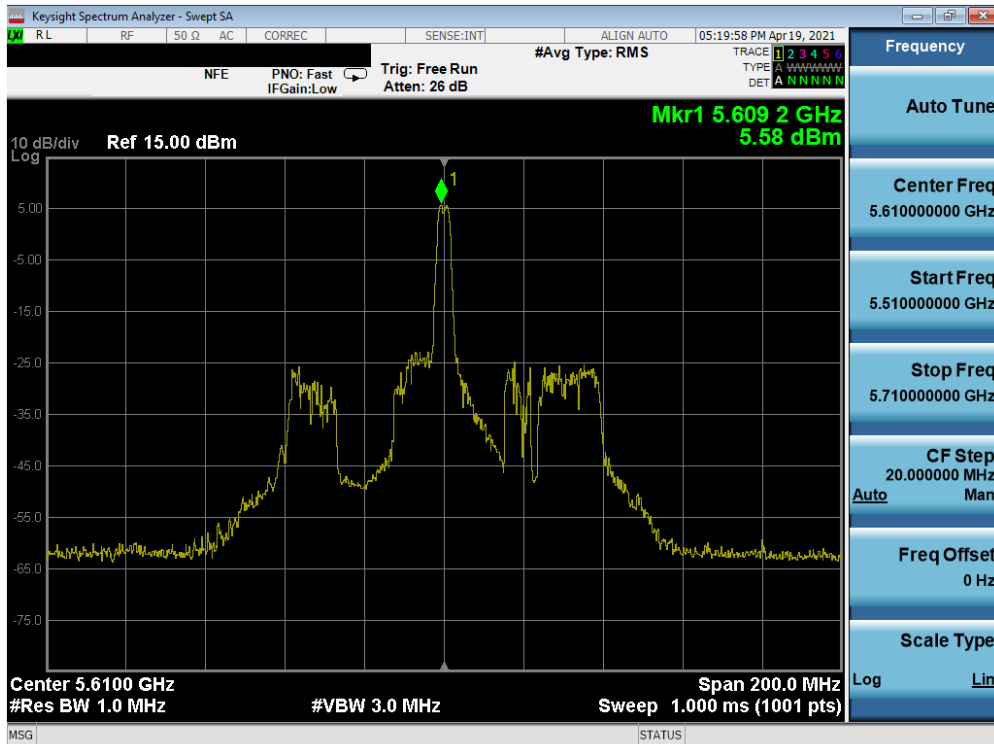


Plot 7-234. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 180 of 413 |

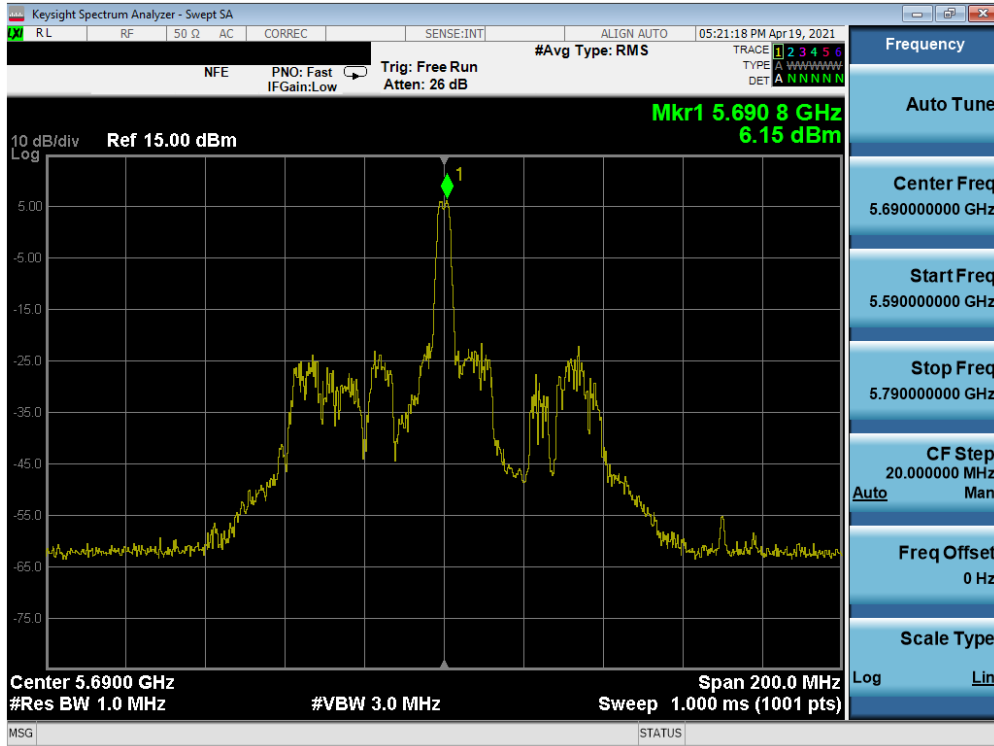


Plot 7-235. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

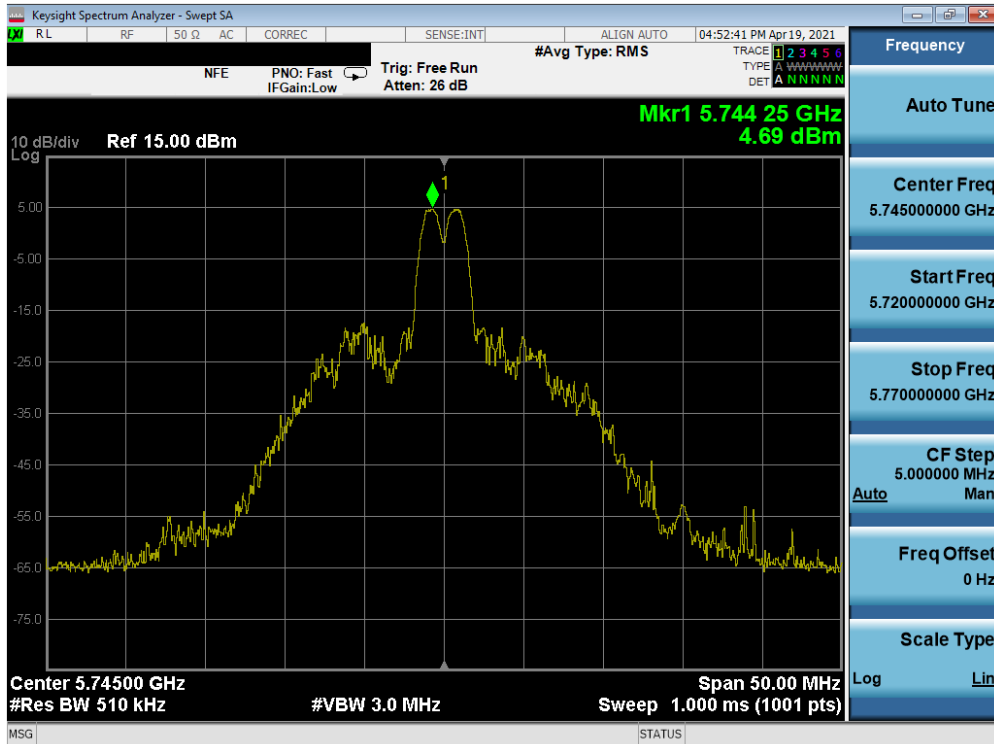


Plot 7-236. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 181 of 413 |

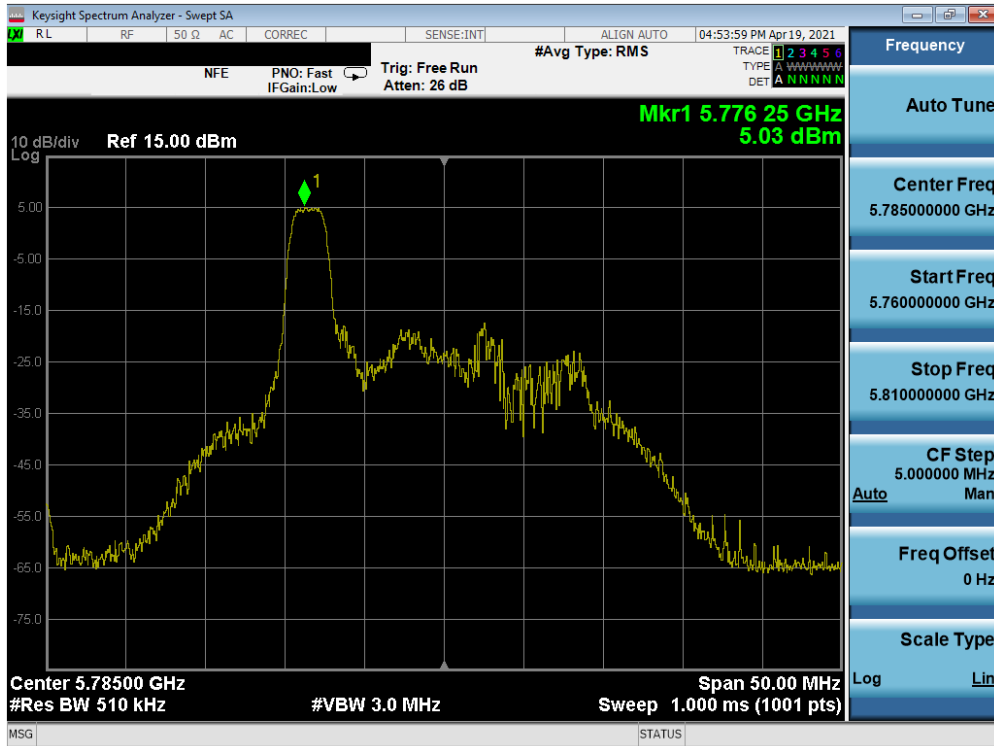


Plot 7-237. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

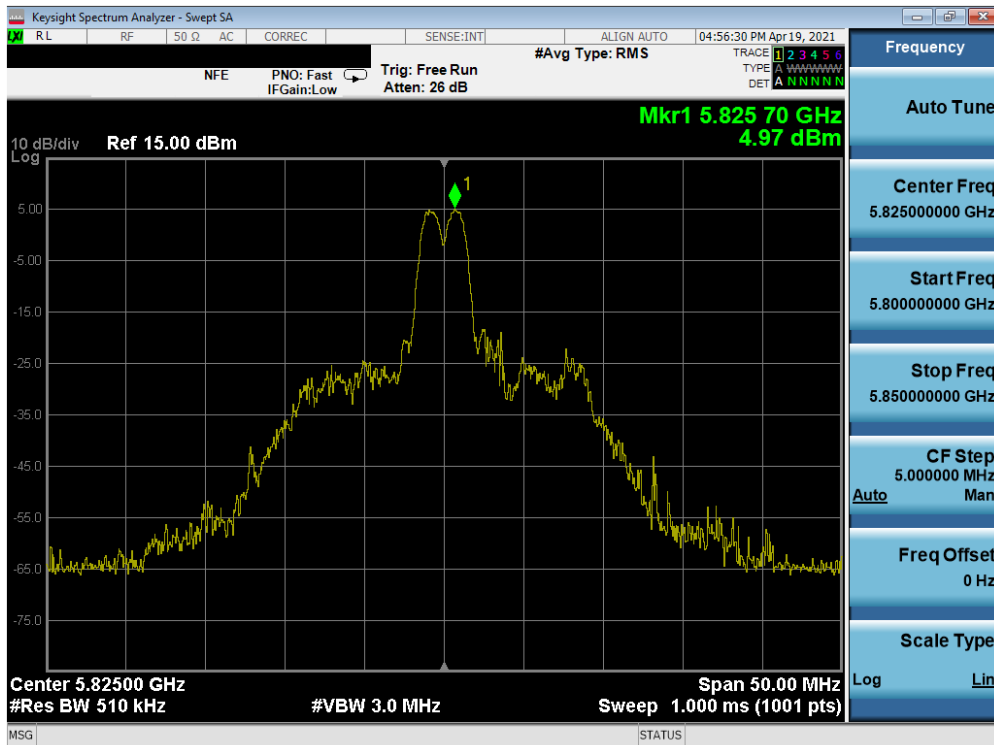


Plot 7-238. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 182 of 413 |

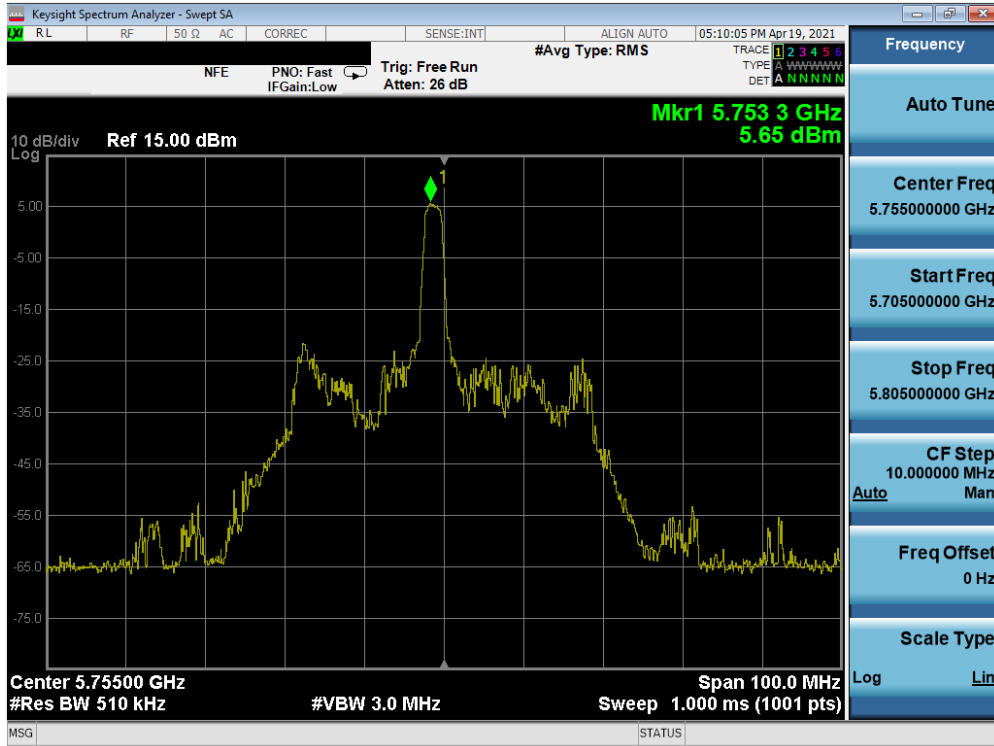


Plot 7-239. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

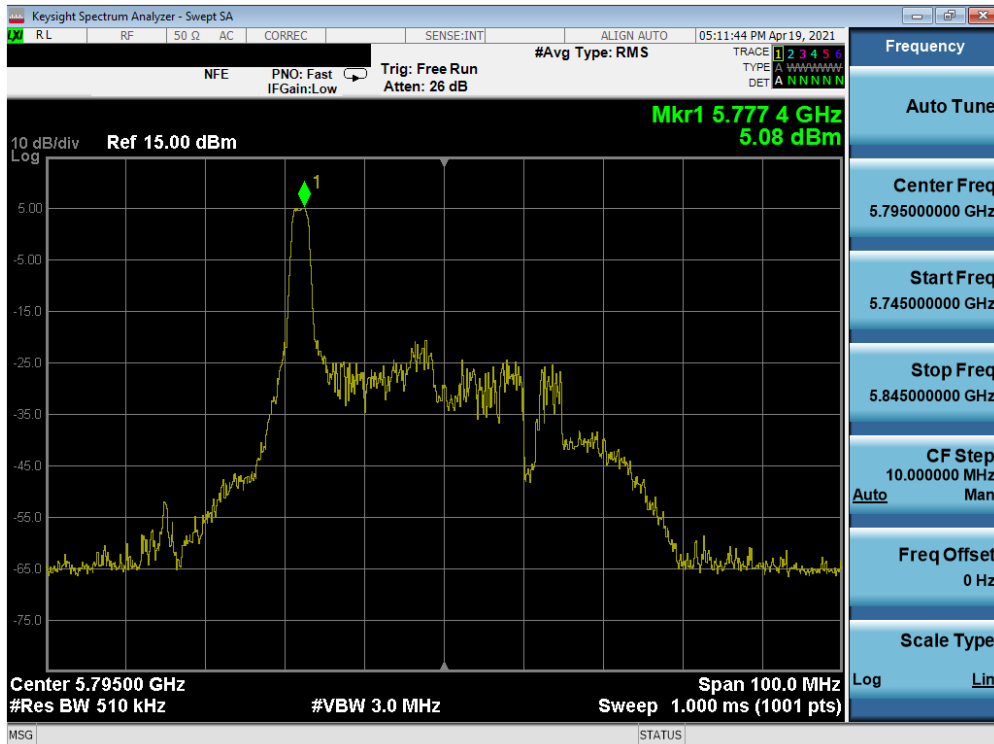


Plot 7-240. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 183 of 413 |

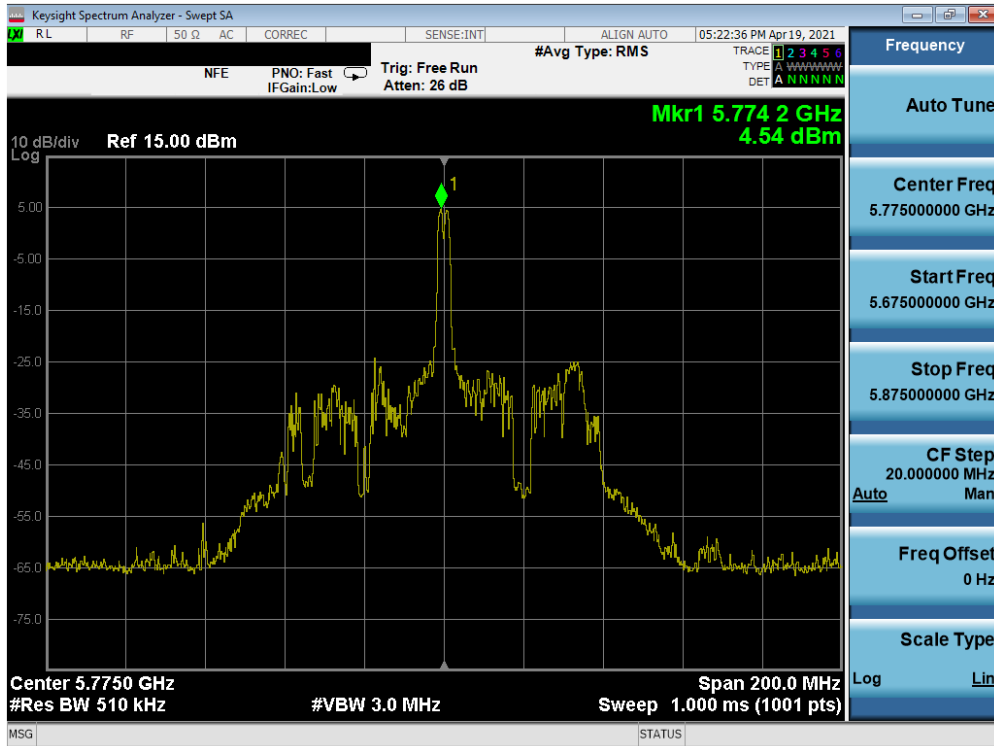


Plot 7-241. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-242. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 184 of 413 |



Plot 7-243. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

| | | | | |
|---|--|---------------------------------------|----------------|-----------------------------------|
| FCC ID: A3LSMF711U | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2104070032-15.A3L | Test Dates: 04/12/2021 – 06/04/2021 | EUT Type: Portable Handset | | Page 185 of 413 |