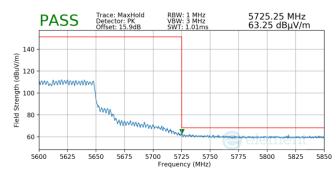
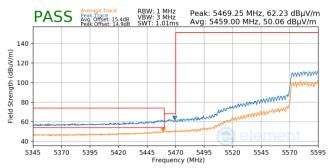


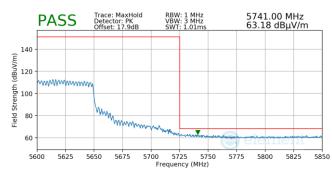
Plot 7-1057. CDD (Pk & Avg, Ch.106, 802.11ax(SU), MCS11)



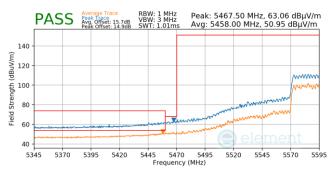
Plot 7-1061. (FCC Only) CDD (Pk, Ch.122, 802.11ax(SU), MCS2)



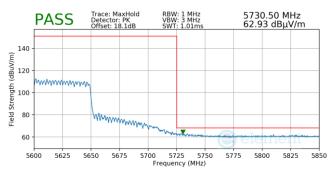
Plot 7-1058. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ax(SU), MCS2)



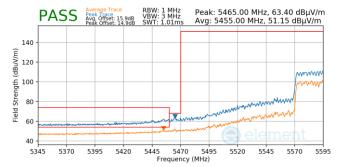
Plot 7-1062. (FCC Only) CDD (Pk, Ch.122, 802.11ax(SU), MCS4)



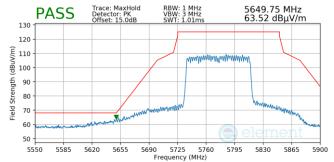
Plot 7-1059. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ax(SU), MCS4)



Plot 7-1063. (FCC Only) CDD (Pk, Ch.122, 802.11ax(SU), MCS11)



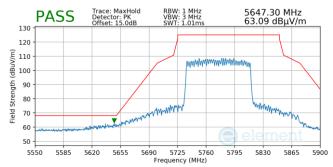
Plot 7-1060. (FCC Only) CDD (Pk & Avg, Ch.122, 802.11ax(SU), MCS11)



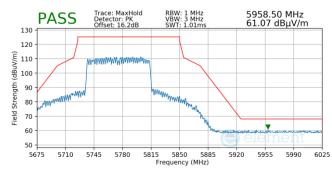
Plot 7-1064. CDD (Pk, Ch.155, 802.11ax(SU), MCS2)

| FCC ID: BCGA2117 IC: 579C-A2117 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
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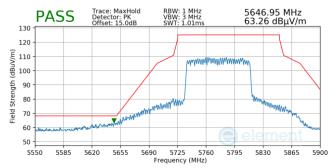




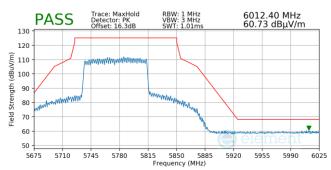
Plot 7-1065. CDD (Pk, Ch.155, 802.11ax(SU), MCS4)



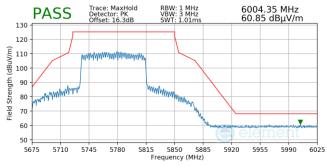
Plot 7-1069. CDD (Pk, Ch.155, 802.11ax(SU), MCS11)



Plot 7-1066. CDD (Pk, Ch.155, 802.11ax(SU), MCS11)



Plot 7-1067. CDD (Pk, Ch.155, 802.11ax(SU), MCS2)



Plot 7-1068. CDD (Pk, Ch.155, 802.11ax(SU), MCS4)

| FCC ID: BCGA2117 IC: 579C-A2117 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
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7.7 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-198 per Section 15.209 and RSS-Gen (8.9).

| Frequency | Field Strength [μV/m] | Measured Distance [Meters] | | |
|-------------------|--------------------------|-------------------------------|--|--|
| 0.009 - 0.490 MHz | 2400/F (kHz) | 300 | | |
| 0.490 – 1.705 MHz | 24000/F (kHz) | 30 | | |
| 1.705 – 30.00 MHz | 30 | 30 | | |
| 30.00 – 88.00 MHz | 100 | 3 | | |
| 88.00 – 216.0 MHz | 150 | 3 | | |
| 216.0 – 960.0 MHz | 200 | 3 | | |
| Above 960.0 MHz | 500 | 3 | | |

Table 7-198. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- Trace was allowed to stabilize

Peak Field Strength Measurements

- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = quasi-peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

| FCC ID: BCGA2117 IC: 579C-A2117 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
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Test Setup

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

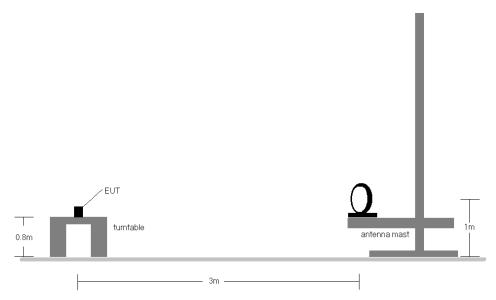


Figure 7-6. Radiated Test Setup < 30MHz

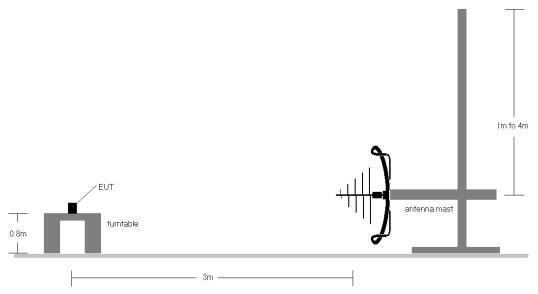


Figure 7-7. Radiated Test Setup < 1GHz

| FCC ID: BCGA2117 IC: 579C-A2117 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | |
|------------------------------------|----------------------|------------------------------------|--------------------------------|--|
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Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-198.
- The broadband receive antenna is manipulated through vertical and horizontal polarizations during the
 tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was
 positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst
 case emissions.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- 9. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor to USB-C Power Pack to Magnetic Charging Cable
 - b. EUT powered by host PC via USB-C Power Pack to Magnetic Charging Cable
- 10. All antenna configurations were investigated and only the worst case is reported.
- 11. The unit was tested with all possible modes and only the highest emission is reported.

Sample Calculations

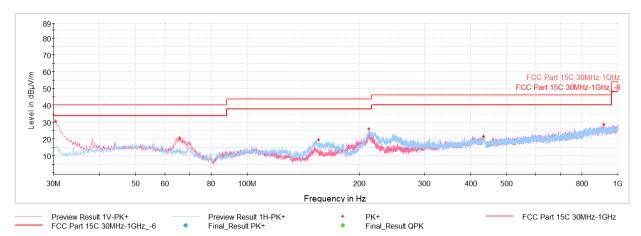
Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamp Gain [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

| FCC ID: BCGA2117 IC: 579C-A2117 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
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CDD Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



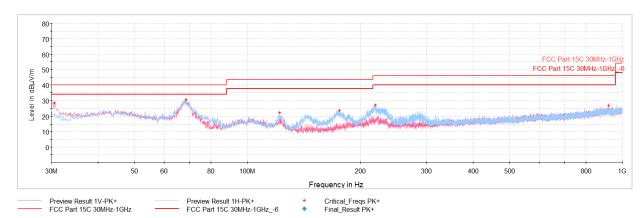
Plot 7-1070. Radiated Spurious Emissions below 1GHz CDD, 802.11n, Ch.157 with AC/DC Adapter

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|-------------------|----------------|
| 30.39 | Max Peak | V | 100 | 49 | -60.43 | -15.88 | 30.69 | 40.00 | -9.31 |
| 65.79 | Max Peak | V | 200 | 65 | -71.93 | -14.47 | 20.60 | 40.00 | -19.40 |
| 155.57 | Max Peak | Н | 200 | 195 | -71.45 | -15.92 | 19.63 | 43.52 | -23.89 |
| 212.55 | Max Peak | Η | 100 | 103 | -68.09 | -12.91 | 26.00 | 43.52 | -17.52 |
| 434.30 | Max Peak | Н | 100 | 352 | -78.60 | -6.73 | 21.67 | 46.02 | -24.35 |
| 916.77 | Max Peak | Н | 200 | 205 | -80.20 | 1.90 | 28.70 | 46.02 | -17.32 |

Table 7-199. Radiated Spurious Emissions below 1GHz, 802.11n, Ch.157 with AC/DC Adapter

| FCC ID: BCGA2117 IC: 579C-A2117 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | |
|------------------------------------|----------------------|------------------------------------|--------------------------------|--|
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Plot 7-1071. Radiated Spurious Emissions below 1GHz CDD, 802.11ax (SU), Ch.165 with AC/DC Adapter

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|-----------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|-------------------|----------------|
| 30.63 | Max Peak | V | 300 | 17 | -59.12 | -19.50 | 28.38 | 40.00 | -11.62 |
| 68.75 | Max Peak | V | 300 | 15 | -56.74 | -19.87 | 30.39 | 40.00 | -9.61 |
| 122.15 | Max Peak | Н | 200 | 35 | -65.02 | -19.79 | 22.19 | 43.52 | -21.33 |
| 175.74 | Max Peak | Н | 200 | 63 | -63.08 | -20.03 | 23.89 | 43.52 | -19.63 |
| 219.44 | Max Peak | Н | 100 | 218 | -62.31 | -17.58 | 27.11 | 46.02 | -18.91 |
| 920.65 | Max Peak | V | 100 | 182 | -76.34 | -3.85 | 26.81 | 46.02 | -19.21 |

Table 7-200. Radiated Spurious Emissions below 1GHz, 802.11ax (SU), Ch.165 with AC/DC Adapter

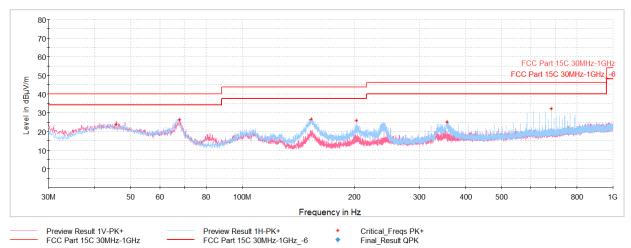
| FCC ID: BCGA2117 IC: 579C-A2117 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager | |
|------------------------------------|----------------------|------------------------------------|-----------------------------------|--|
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7.7.1 Simultaneous TX Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]

| Description | BT 2.4G | NB UNII 5G | WLAN 2.4G | WiFi 5G |
|---------------------------|-----------|------------|----------------|----------------|
| Antenna | NB UNII_L | TxBF | MIMO | MIMO |
| Channel | 39 | 1 | 12 | 36 |
| Operating Frequency (MHz) | 2480 | 5157 | 2467 | 5180 |
| Mode/Modulation | BLE1M | BLE1M | WLAN 11ax (SU) | UNII 11ax (SU) |

Table 7-201. Worst Case Simultaneous Transmission Configuration



Plot 7-1072. Radiated Spurious Emissions - Simultaneous Transmission 30MHz - 1GHz, with AC/DC Adapter)

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|-------------------|----------------|
| 45.67 | Max Peak | V | 300 | 98 | -67.25 | -15.82 | 23.93 | 40.00 | -16.07 |
| 67.78 | Max Peak | V | 100 | 200 | -60.99 | -19.52 | 26.49 | 40.00 | -13.51 |
| 153.34 | Max Peak | Н | 200 | 58 | -59.57 | -20.77 | 26.66 | 43.52 | -16.86 |
| 203.15 | Max Peak | Н | 100 | 225 | -63.01 | -18.10 | 25.89 | 43.52 | -17.63 |
| 355.97 | Max Peak | Н | 100 | 261 | -67.76 | -13.99 | 25.25 | 46.02 | -20.77 |
| 681.31 | Max Peak | Н | 100 | 317 | -67.33 | -7.71 | 31.96 | 46.02 | -14.06 |

Table 7-202. Radiated Spurious Emissions - Simultaneous Transmission 30MHz - 1GHz, with AC/DC Adapter)

| FCC ID: BCGA2117 IC: 579C-A2117 | element MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
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7.8 AC Line-Conducted Emissions Measurement

§15.407; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

| Frequency of emission | Conducted Limit (dBμV) | | | | |
|-----------------------|------------------------|-----------|--|--|--|
| (MHz) | Quasi-peak | Average | | | |
| 0.15 – 0.5 | 66 to 56* | 56 to 46* | | | |
| 0.5 - 5 | 56 | 46 | | | |
| 5 – 30 | 60 | 50 | | | |

Table 7-203. Conducted Limits

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- RBW = 9kHz (for emissions from 150kHz 30MHz)
- Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Average Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- RBW = 9kHz (for emissions from 150kHz 30MHz)
- Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

| FCC ID: BCGA2117 IC: 579C-A2117 | element MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

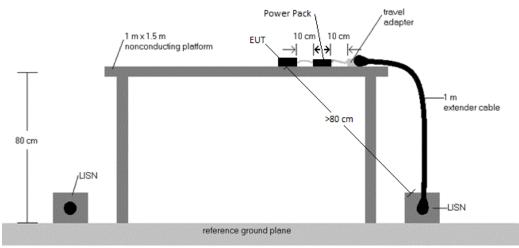


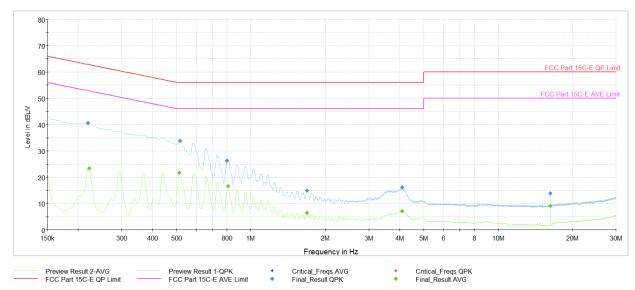
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- 2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- 4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 5. QP/AV Level $(dB\mu V) = QP/AV$ Analyzer/Receiver Level $(dB\mu V) + Correction$ Factor (dB)
- 6. Margin (dB) = QP/AV Level (dB μ V) QP/AV Limit (dB μ V)
- 7. Traces shown in plots are made using quasi-peak and average detectors.
- 8. Deviations to the Specifications: None.
- 9. The unit was tested with all possible modes and only the highest emission is reported.

| FCC ID: BCGA2117 IC: 579C-A2117 | element | element MEASUREMENT REPORT (CERTIFICATION) | |
|------------------------------------|----------------------|--|-----------------|
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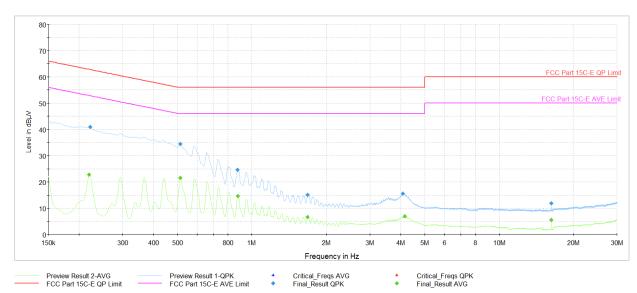
Plot 7-1073. AC Line Conducted Plot with 802.11n CDD- Ch.157 (L1), with AC/DC adapter

| Frequency [MHz] | Process State | QuasiPeak [dB µ V] | Average [dBµV] | Limit [dBµV] | Marqin [dB] | Line | PE |
|--------------------|------------------|------------------------------|-------------------|-----------------|----------------|------|-----|
| 0.220 | FINAL | 40.5 | _ | 62.83 | -22.36 | L1 | GND |
| 0.222 | FINAL | _ | 23.45 | 52.74 | -29.30 | L1 | GND |
| 0.515 | FINAL | _ | 21.70 | 46.00 | -24.30 | L1 | GND |
| 0.517 | FINAL | 33.9 | | 56.00 | -22.13 | L1 | GND |
| 0.803 | FINAL | 26.3 | _ | 56.00 | -29.66 | L1 | GND |
| 0.809 | FINAL | _ | 16.64 | 46.00 | -29.36 | L1 | GND |
| 1.685 | FINAL | 14.9 | _ | 56.00 | -41.06 | L1 | GND |
| 1.685 | FINAL | _ | 6.40 | 46.00 | -39.60 | L1 | GND |
| 4.085 | FINAL | 16.2 | _ | 56.00 | -39.77 | L1 | GND |
| 4.088 | FINAL | _ | 7.07 | 46.00 | -38.93 | L1 | GND |
| 16.274 | FINAL | _ | 9.07 | 50.00 | -40.93 | L1 | GND |
| 16.276 | FINAL | 13.9 | _ | 60.00 | -46.12 | L1 | GND |

Table 7-204. AC Line Conducted Data with 802.11n CDD- Ch.157 (L1) with AC/DC adapter

| FCC ID: BCGA2117 IC: 579C-A2117 | element MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
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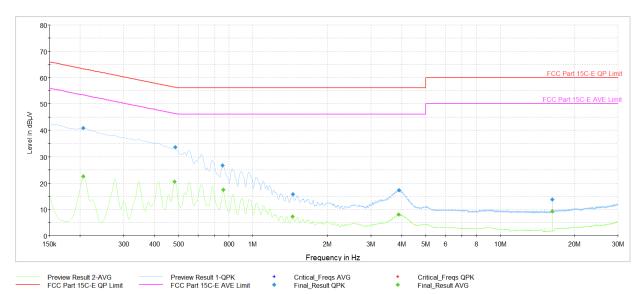
Plot 7-1074. AC Line Conducted Plot with 802.11n CDD - Ch.157 (N), with AC/DC adapter

| Frequency [MHz] | Process State | QuasiPeak [dB µ V] | Average [dBµV] | Limit [dBµV] | Marqin [dB] | Line | PE |
|--------------------|------------------|------------------------------|-------------------|-----------------|----------------|------|-----|
| 0.220 | FINAL | _ | 22.82 | 52.83 | -30.00 | N | GND |
| 0.222 | FINAL | 40.8 | | 62.74 | -21.94 | N | GND |
| 0.515 | FINAL | _ | 21.53 | 46.00 | -24.47 | N | GND |
| 0.515 | FINAL | 34.5 | _ | 56.00 | -21.50 | N | GND |
| 0.877 | FINAL | 24.6 | _ | 56.00 | -31.38 | N | GND |
| 0.879 | FINAL | _ | 14.71 | 46.00 | -31.29 | N | GND |
| 1.678 | FINAL | 15.2 | _ | 56.00 | -40.83 | N | GND |
| 1.678 | FINAL | _ | 6.56 | 46.00 | -39.44 | N | GND |
| 4.081 | FINAL | 15.6 | _ | 56.00 | -40.39 | N | GND |
| 4.157 | FINAL | _ | 6.90 | 46.00 | -39.10 | N | GND |
| 16.280 | FINAL | _ | 5.57 | 50.00 | -44.43 | N | GND |
| 16.280 | FINAL | 11.8 | _ | 60.00 | -48.16 | N | GND |

Table 7-205. AC Line Conducted Data with 802.11n CDD - Ch.157 (N), with AC/DC adapter

| FCC ID: BCGA2117 IC: 579C-A2117 | element MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
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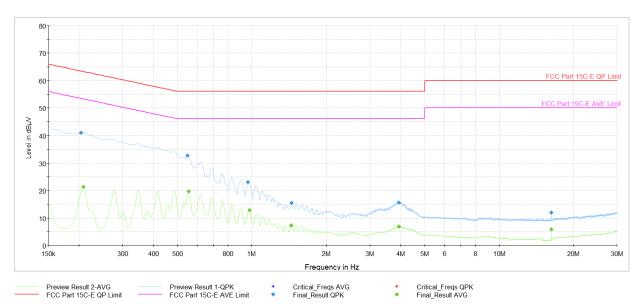
Plot 7-1075. AC Line Conducted Plot with 802.11ax(SU) CDD - Ch.165 (L1), with AC/DC adapter

| Frequency [MHz] | Process State | QuasiPeak [dB µ V] | Averaqe [dBµV] | Limit [dB µ V] | Marqin [dB] | Line | PE |
|--------------------|------------------|------------------------------|-------------------|--------------------------|----------------|------|-----|
| 0.206 | FINAL | _ | 22.50 | 53.36 | -30.85 | L1 | GND |
| 0.206 | FINAL | 40.8 | _ | 63.36 | -22.55 | L1 | GND |
| 0.483 | FINAL | _ | 20.57 | 46.29 | -25.72 | L1 | GND |
| 0.485 | FINAL | 33.7 | _ | 56.25 | -22.53 | L1 | GND |
| 0.755 | FINAL | 26.7 | _ | 56.00 | -29.26 | L1 | GND |
| 0.760 | FINAL | _ | 17.46 | 46.00 | -28.54 | L1 | GND |
| 1.448 | FINAL | _ | 7.32 | 46.00 | -38.68 | L1 | GND |
| 1.453 | FINAL | 15.7 | _ | 56.00 | -40.26 | L1 | GND |
| 3.890 | FINAL | _ | 7.98 | 46.00 | -38.02 | L1 | GND |
| 3.892 | FINAL | 17.3 | _ | 56.00 | -38.69 | L1 | GND |
| 16.278 | FINAL | _ | 9.19 | 50.00 | -40.81 | L1 | GND |
| 16.278 | FINAL | 13.8 | _ | 60.00 | -46.19 | L1 | GND |

Table 7-206. AC Line Conducted Data with 802.11ax(SU) CDD - Ch.165 (L1) with AC/DC adapter

| FCC ID: BCGA2117 IC: 579C-A2117 | element MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|------------------------------------|--|---------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 320 of 322 |
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Plot 7-1076. AC Line Conducted Plot with 802.11ax(SU) CDD - Ch.165 (N), with AC/DC adapter

| Frequency [MHz] | Process State | QuasiPeak [dB µ V] | Averaqe [dBμV] | Limit [dBµ√] | Marqin [dB] | Line | PE |
|--------------------|------------------|------------------------------|-------------------|-----------------|----------------|------|-----|
| 0.204 | FINAL | 40.9 | _ | 63.45 | -22.51 | N | GND |
| 0.209 | FINAL | | 21.41 | 53.27 | -31.85 | N | GND |
| 0.551 | FINAL | 32.7 | | 56.00 | -23.31 | N | GND |
| 0.555 | FINAL | - | 19.72 | 46.00 | -26.28 | N | GND |
| 0.967 | FINAL | 23.0 | | 56.00 | -32.96 | N | GND |
| 0.980 | FINAL | _ | 12.83 | 46.00 | -33.17 | N | GND |
| 1.444 | FINAL | _ | 7.35 | 46.00 | -38.65 | N | GND |
| 1.448 | FINAL | 15.5 | _ | 56.00 | -40.47 | N | GND |
| 3.926 | FINAL | 15.7 | | 56.00 | -40.34 | N | GND |
| 3.926 | FINAL | _ | 6.88 | 46.00 | -39.12 | N | GND |
| 16.278 | FINAL | _ | 5.81 | 50.00 | -44.19 | N | GND |
| 16.278 | FINAL | 12.0 | _ | 60.00 | -48.05 | N | GND |

Table 7-207. AC Line Conducted Data with 802.11ax(SU) CDD - Ch.165 (N), with AC/DC adapter

| FCC ID: BCGA2117 IC: 579C-A2117 | element | element MEASUREMENT REPORT (CERTIFICATION) | |
|------------------------------------|----------------------|--|-----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 321 of 322 |
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Head Mounted Device FCC ID: BCGA2117** and **IC: 579C-A2117** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

| FCC ID: BCGA2117 IC: 579C-A2117 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|----------------------|------------------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 322 of 322 |
| 1C2302130007-07.BCG | 2/10/2023 - 5/4/2023 | Head Mounted Device | Page 322 01 322 |