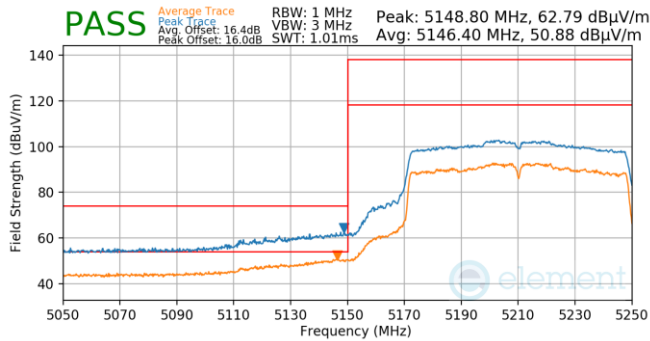
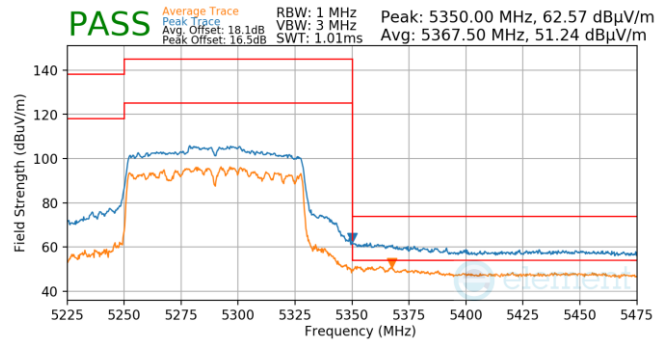


## 7.6.20 CDD Diversity Radiated Band Edge Measurements (80MHz BW)

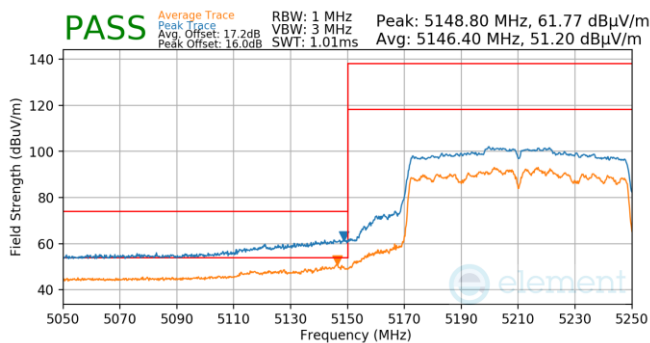
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]



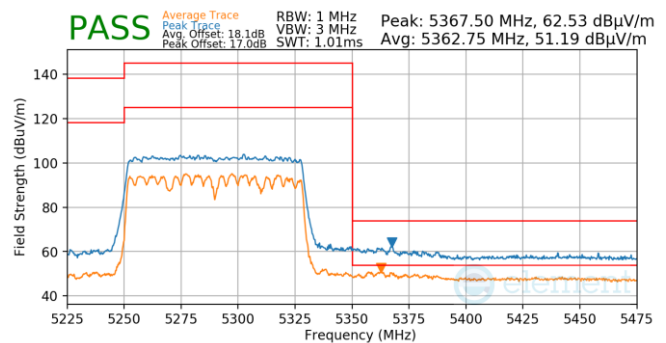
Plot 7-1826. CDD Diversity (Pk & Avg, Ch.42, 802.11ac, MCS0)



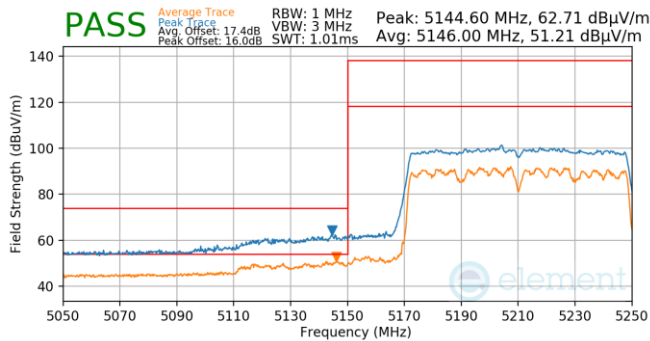
Plot 7-1830. CDD Diversity (Pk & Avg, Ch.58, 802.11ac, MCS4)



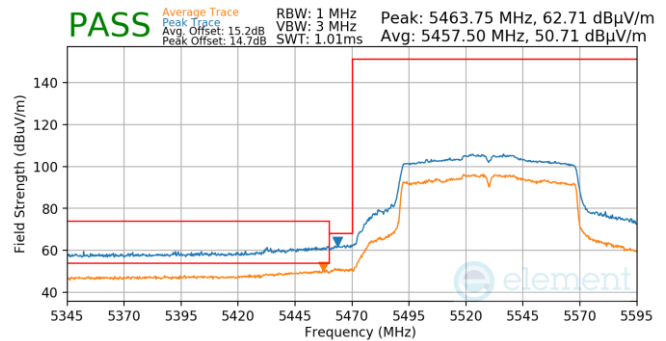
Plot 7-1827. CDD Diversity (Pk & Avg, Ch.42, 802.11ac, MCS4)



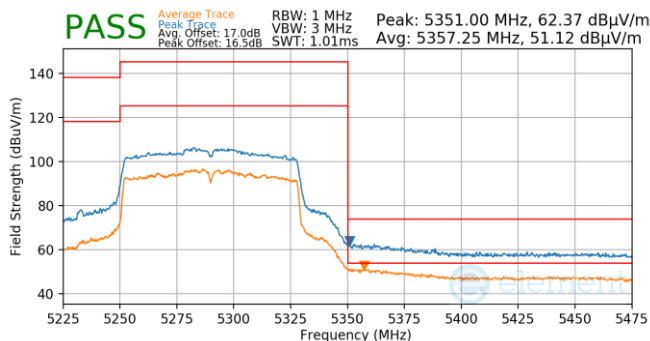
Plot 7-1831. CDD Diversity (Pk & Avg, Ch.58, 802.11ac, MCS7)



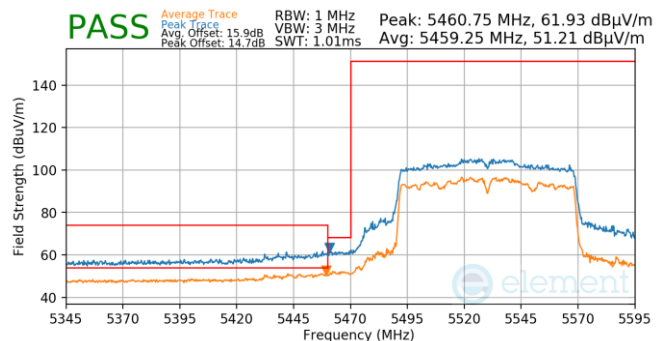
Plot 7-1828. CDD Diversity (Pk & Avg, Ch.42, 802.11ac, MCS7)



Plot 7-1832. CDD Diversity (Pk & Avg, Ch.106, 802.11ac, MCS0)

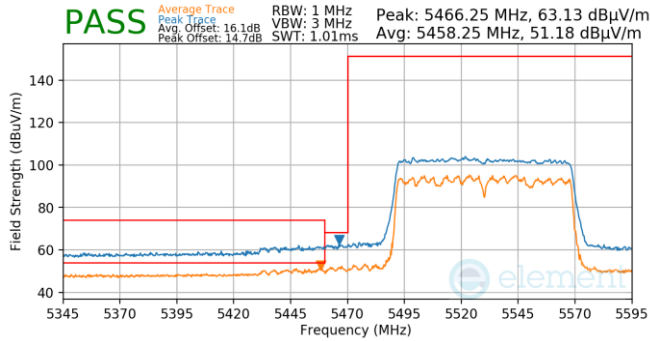


Plot 7-1829. CDD Diversity (Pk & Avg, Ch.58, 802.11ac, MCS0)

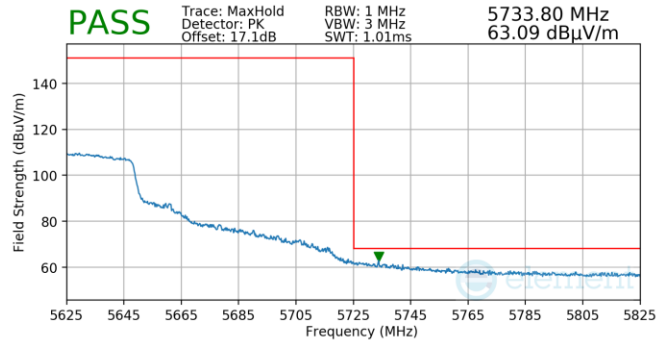


Plot 7-1833. CDD Diversity (Pk & Avg, Ch.106, 802.11ac, MCS4)

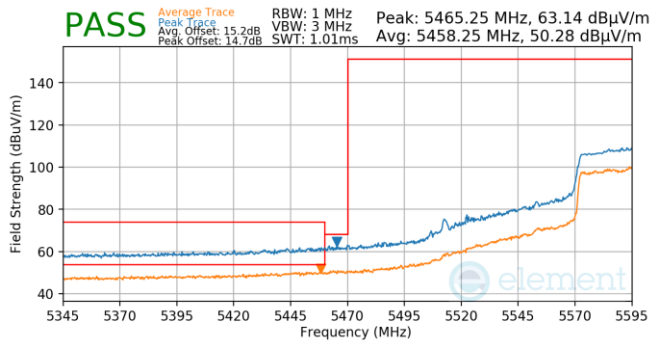
|   |   |                            |                                   |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device | Page 511 of 534                   |



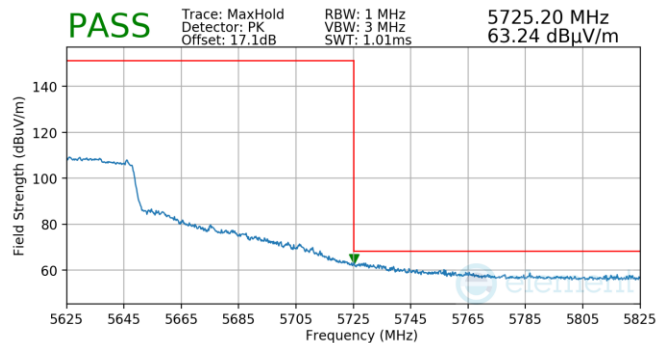
Plot 7-1834. CDD Diversity (Pk & Avg, Ch.106, 802.11ac, MCS7)



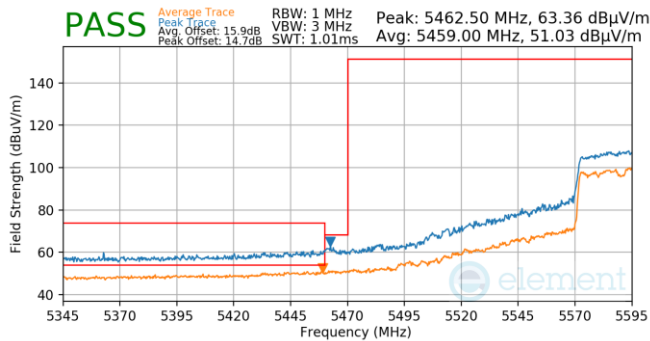
Plot 7-1838. (FCC Only) CDD Diversity (Pk, Ch.122, 802.11ac, MCS0)



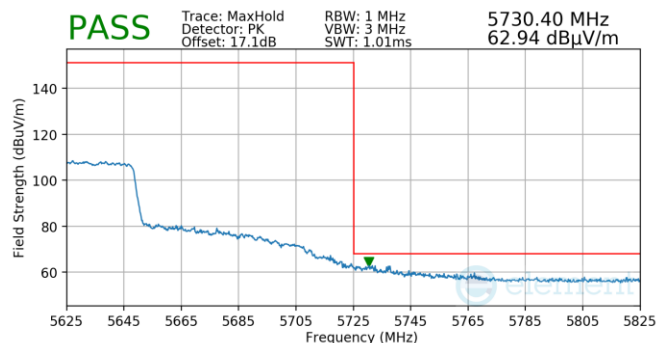
Plot 7-1835. (FCC Only) CDD Diversity (Pk & Avg, Ch.122, 802.11ac, MCS0)



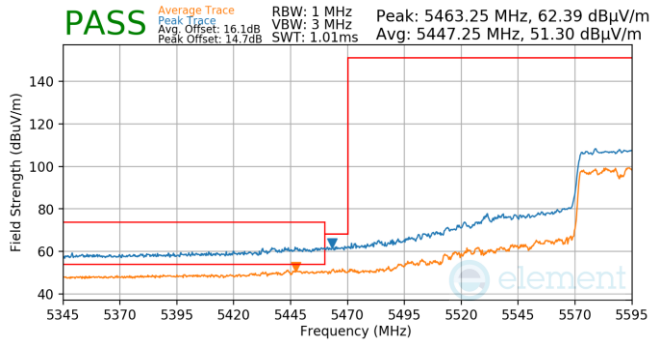
Plot 7-1839. (FCC Only) CDD Diversity (Pk, Ch.122, 802.11ac, MCS4)



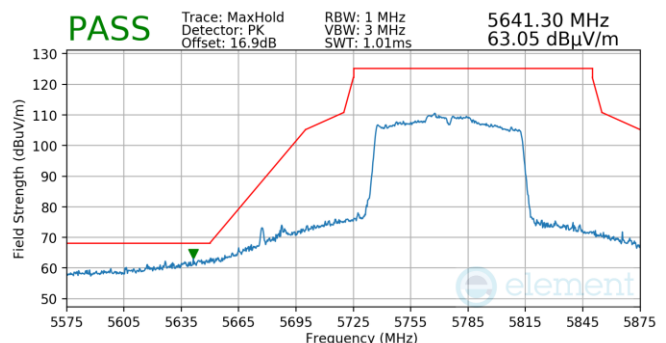
Plot 7-1836. (FCC Only) CDD Diversity (Pk & Avg, Ch.122, 802.11ac, MCS4)



Plot 7-1840. (FCC Only) CDD Diversity (Pk, Ch.122, 802.11ac, MCS7)

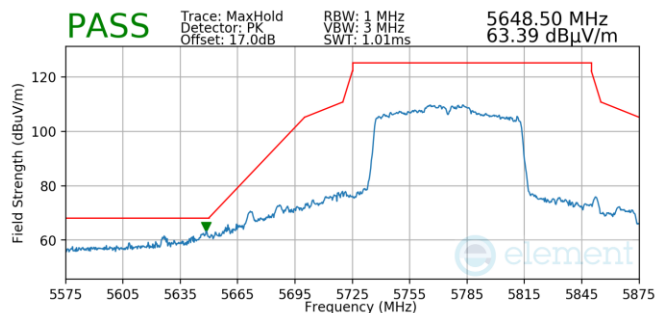


Plot 7-1837. (FCC Only) CDD Diversity (Pk & Avg, Ch.122, 802.11ac, MCS7)

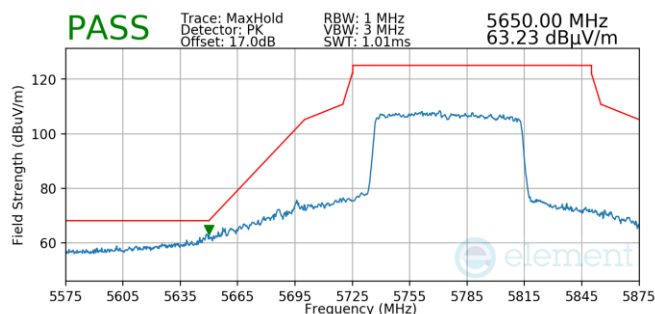


Plot 7-1841. CDD Diversity (Pk, Ch.155, 802.11ac, MCS0)

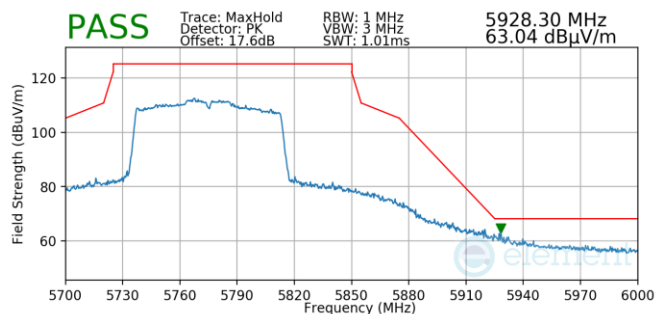
|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 512 of 534                   |



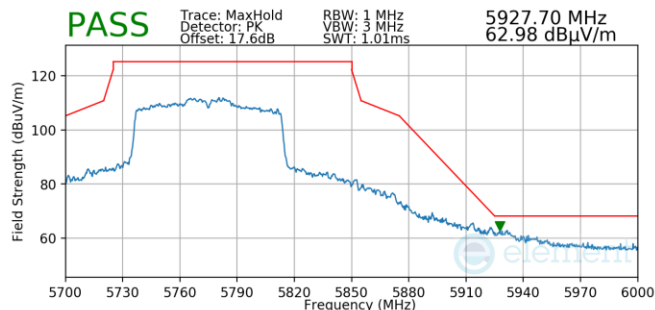
Plot 7-1842. CDD Diversity (Pk, Ch.155, 802.11ac, MCS4)



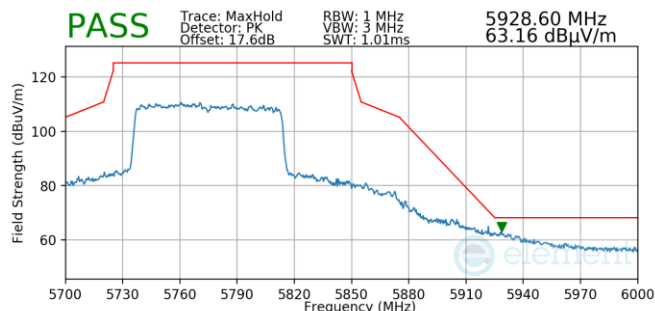
Plot 7-1843. CDD Diversity (Pk, Ch.155, 802.11ac, MCS7)



Plot 7-1844. CDD Diversity (Pk, Ch.155, 802.11ac, MCS0)



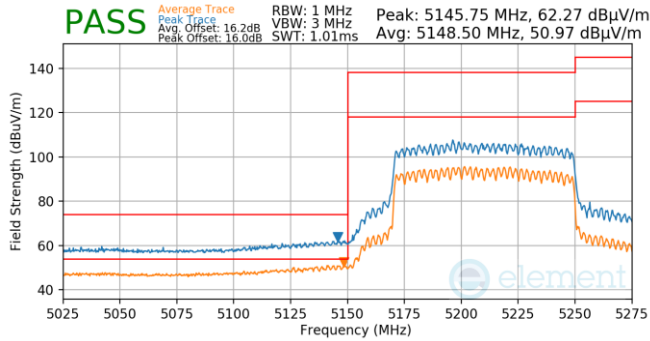
Plot 7-1845. CDD Diversity (Pk, Ch.155, 802.11ac, MCS4)



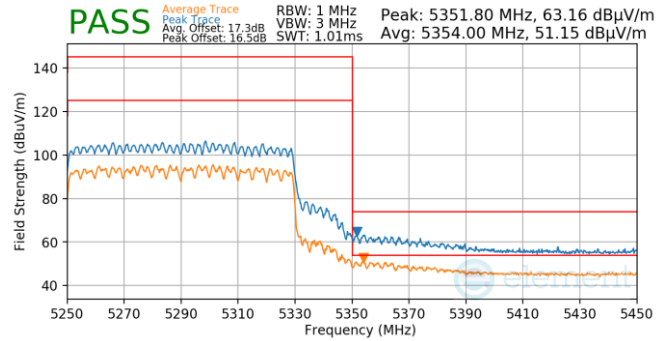
Plot 7-1846. CDD Diversity (Pk, Ch.155, 802.11ac, MCS7)

|   |   |                            |                                       |                                   |
|---|---|----------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  |                            | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device |                                       | Page 513 of 534                   |

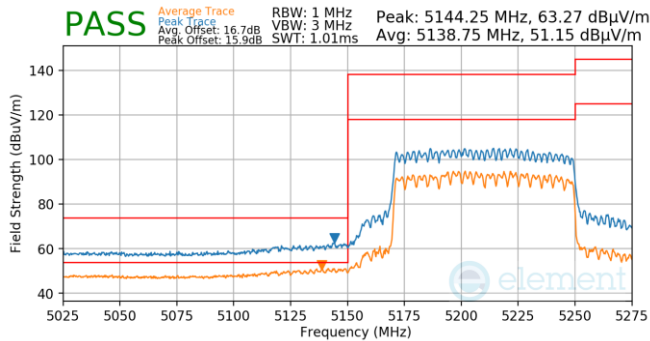
V 10.5 12/15/2021



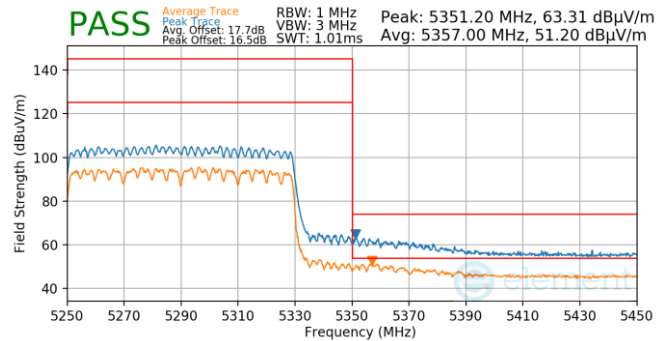
**Plot 7-1847. CDD Diversity (Pk & Avg, Ch.42, 802.11ax(SU), MCS0)**



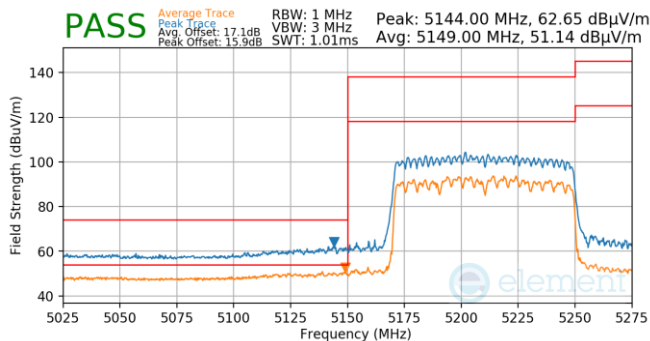
**Plot 7-1851. CDD Diversity (Pk & Avg, Ch.58, 802.11ax(SU), MCS4)**



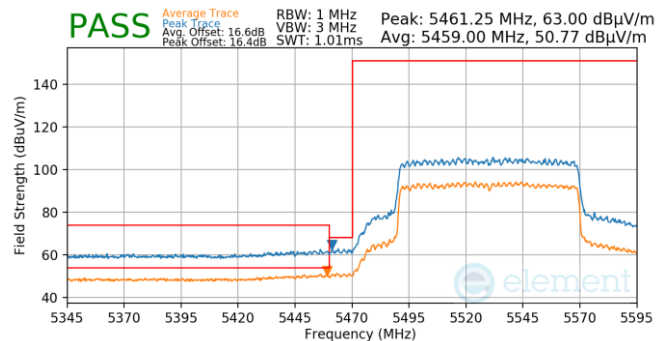
**Plot 7-1848. CDD Diversity (Pk & Avg, Ch.42, 802.11ax(SU), MCS4)**



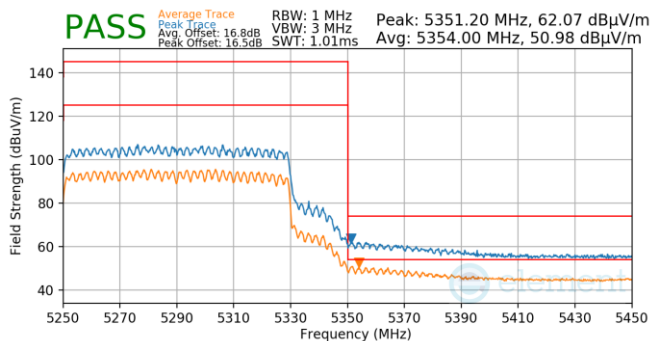
**Plot 7-1852. CDD Diversity (Pk & Avg, Ch.58, 802.11ax(SU), MCS11)**



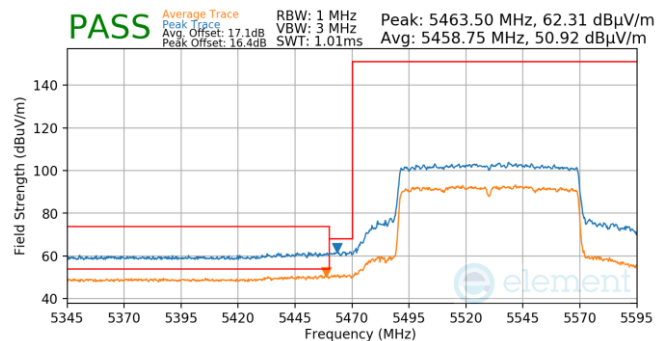
**Plot 7-1849. CDD Diversity (Pk & Avg, Ch.42, 802.11ax(SU), MCS11)**



**Plot 7-1853. CDD Diversity (Pk & Avg, Ch.106, 802.11ax(SU), MCS0)**

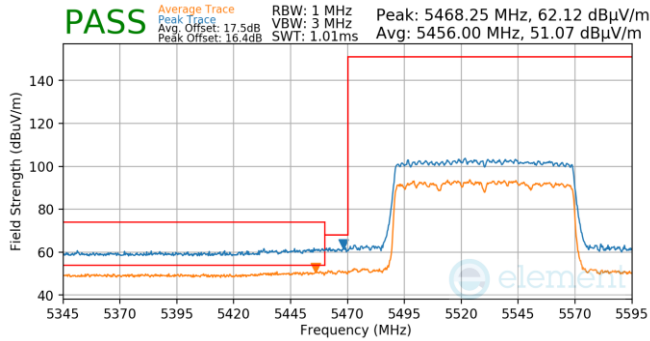


**Plot 7-1850. CDD Diversity (Pk & Avg, Ch.58, 802.11ax(SU), MCS0)**

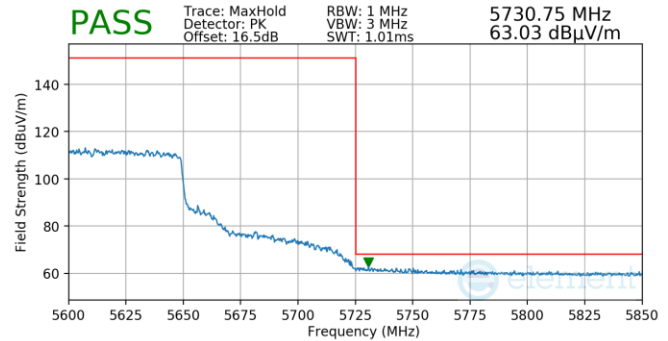


**Plot 7-1854. CDD Diversity (Pk & Avg, Ch.106, 802.11ax(SU), MCS4)**

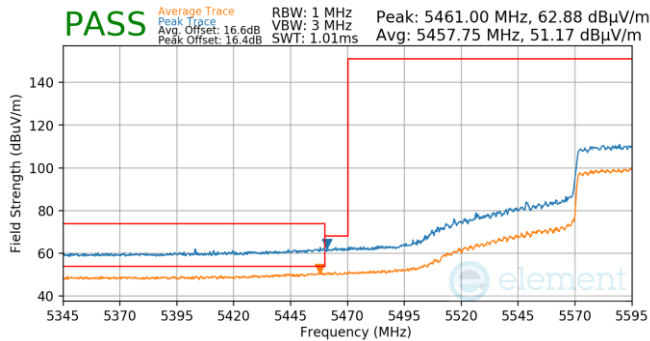
|   |   |                            |                                       |                                   |
|---|---|----------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  |                            | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device | Page 514 of 534                       |                                   |



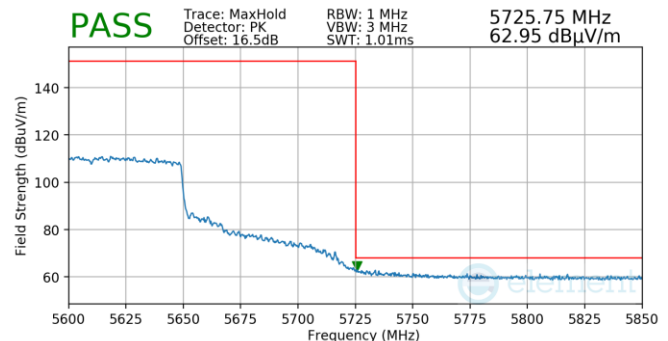
Plot 7-1855. CDD Diversity (Pk & Avg, Ch.106, 802.11ax(SU), MCS11)



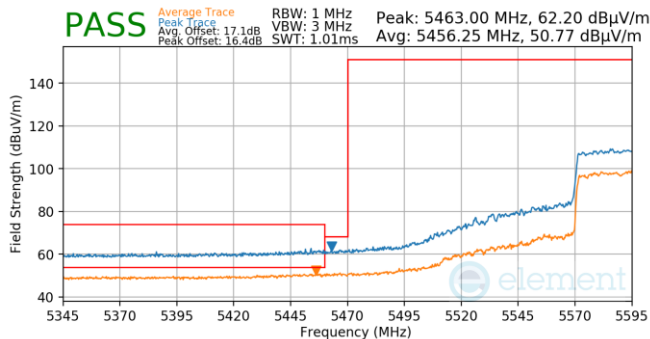
Plot 7-1859. (FCC Only) CDD Diversity (Pk, Ch.122, 802.11ax(SU), MCS0)



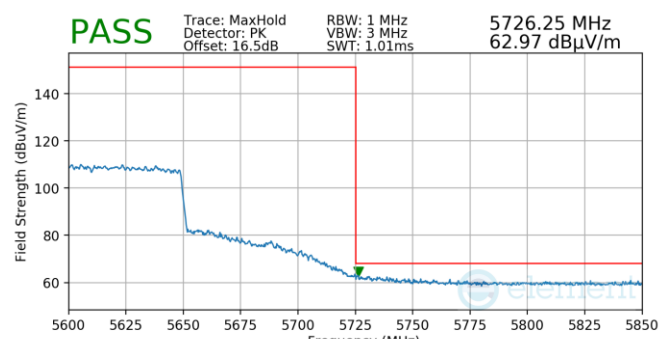
Plot 7-1856. (FCC Only) CDD Diversity (Pk & Avg, Ch.122, 802.11ax(SU), MCS0)



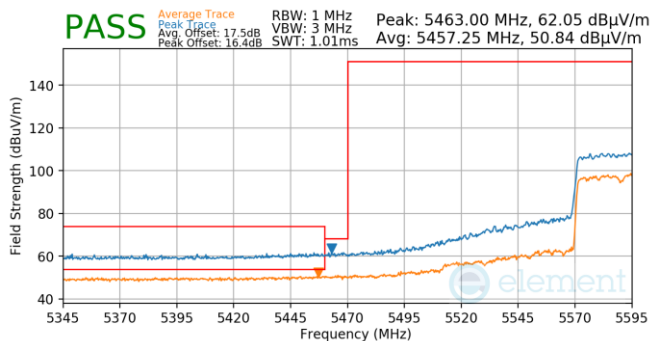
Plot 7-1860. (FCC Only) CDD Diversity (Pk, Ch.122, 802.11ax(SU), MCS4)



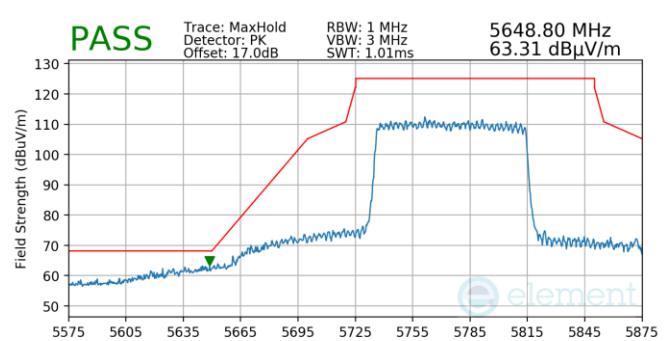
Plot 7-1857. (FCC Only) CDD Diversity (Pk & Avg, Ch.122, 802.11ax(SU), MCS4)



Plot 7-1861. (FCC Only) CDD Diversity (Pk, Ch.122, 802.11ax(SU), MCS11)



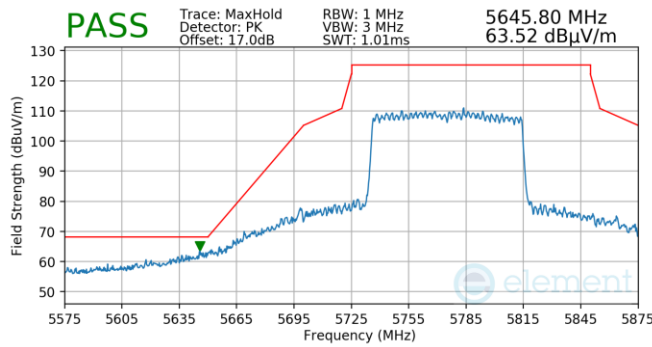
Plot 7-1858. (FCC Only) CDD Diversity (Pk & Avg, Ch.122, 802.11ax(SU), MCS11)



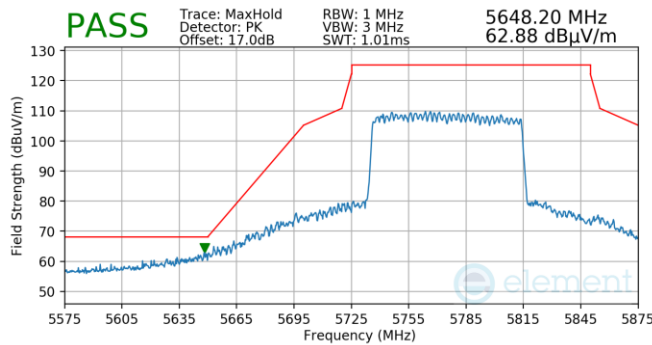
Plot 7-1862. CDD Diversity (Pk, Ch.155, 802.11ax(SU), MCS0)

|   |  |                            |                                       |                                   |
|---|--|----------------------------|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  |                            | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022 | EUT Type:<br>Tablet Device | Page 515 of 534                       |                                   |

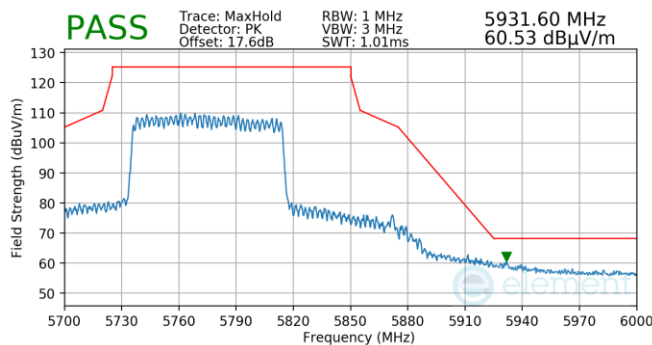




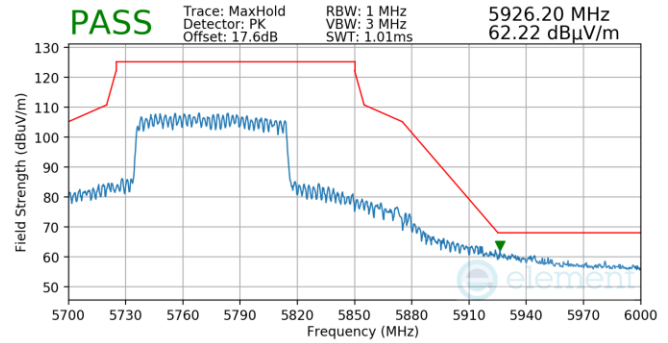
Plot 7-1863. CDD Diversity (Pk, Ch.155, 802.11ax(SU), MCS4)



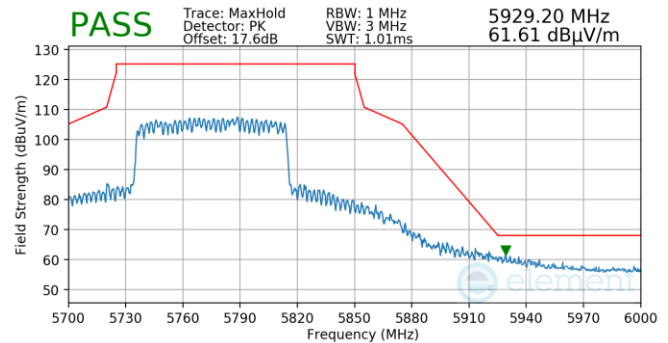
Plot 7-1864. CDD Diversity (Pk, Ch.155, 802.11ax(SU), MCS11)



Plot 7-1865. CDD Diversity (Pk, Ch.155, 802.11ax(SU), MCS0)



Plot 7-1866. CDD Diversity (Pk, Ch.155, 802.11ax(SU), MCS4)



Plot 7-1867. CDD Diversity (Pk, Ch.155, 802.11ax(SU), MCS11)

|   |   |                                       |  |                                   |
|---|---|---------------------------------------|--|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            |  | Page 516 of 534                   |

## 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 7-324 per Section 15.209 and RSS-Gen (8.9).***

| Frequency         | Field Strength<br>[μV/m] | Measured Distance<br>[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 7-324. 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
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

#### Peak Field Strength Measurements

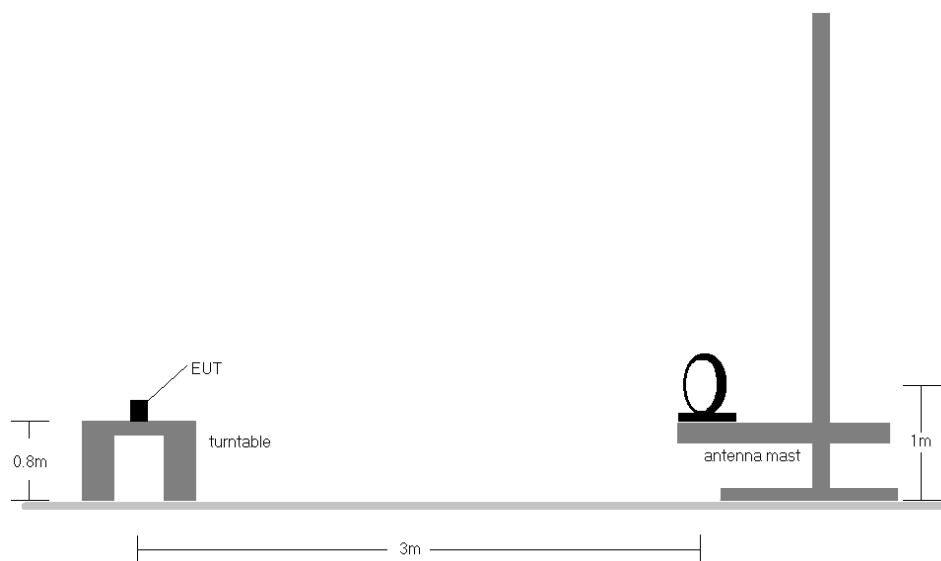
7. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
8. RBW = 120kHz (for emissions from 30MHz – 1GHz)
9. VBW = 300kHz
10. Detector = quasi-peak
11. Sweep time = auto couple
12. Trace mode = max hold
13. Trace was allowed to stabilize

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 517 of 534                   |

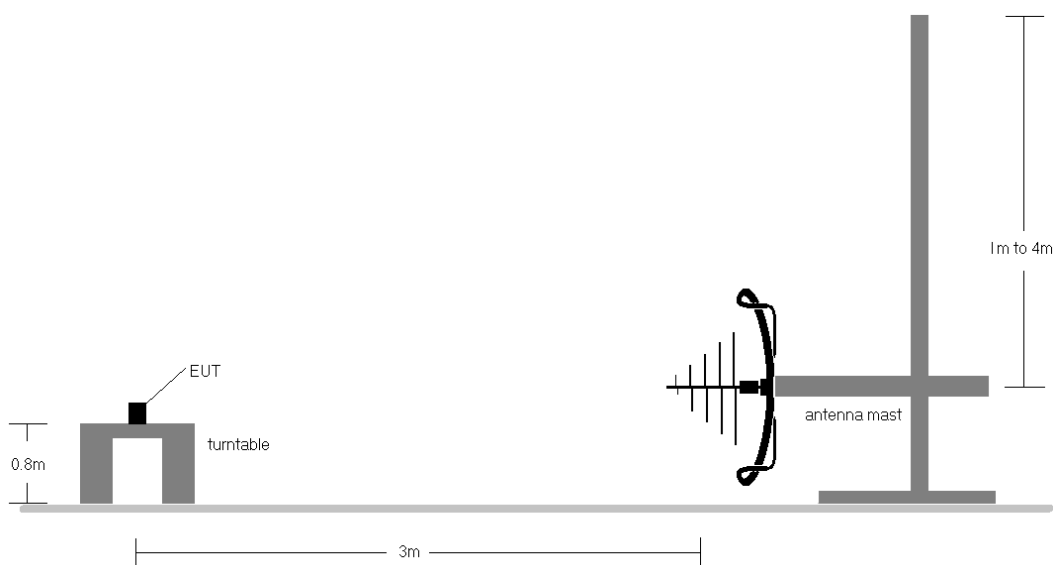
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## Test Setup

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**

|  |   |                                   |  |
|--|---|-----------------------------------|--|
| <b>FCC ID:</b> BCGA2757<br><b>IC:</b> 579C-A2757 |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2205090023-16.BCG   | <b>Test Dates:</b><br>08/02/2022 – 09/14/2022   | <b>EUT Type:</b><br>Tablet Device | Page 518 of 534                          |

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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 7-324.
2. 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 via USB-C cable with wire charger
  - b. EUT powered by host PC via USB-C cable with wire charger
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

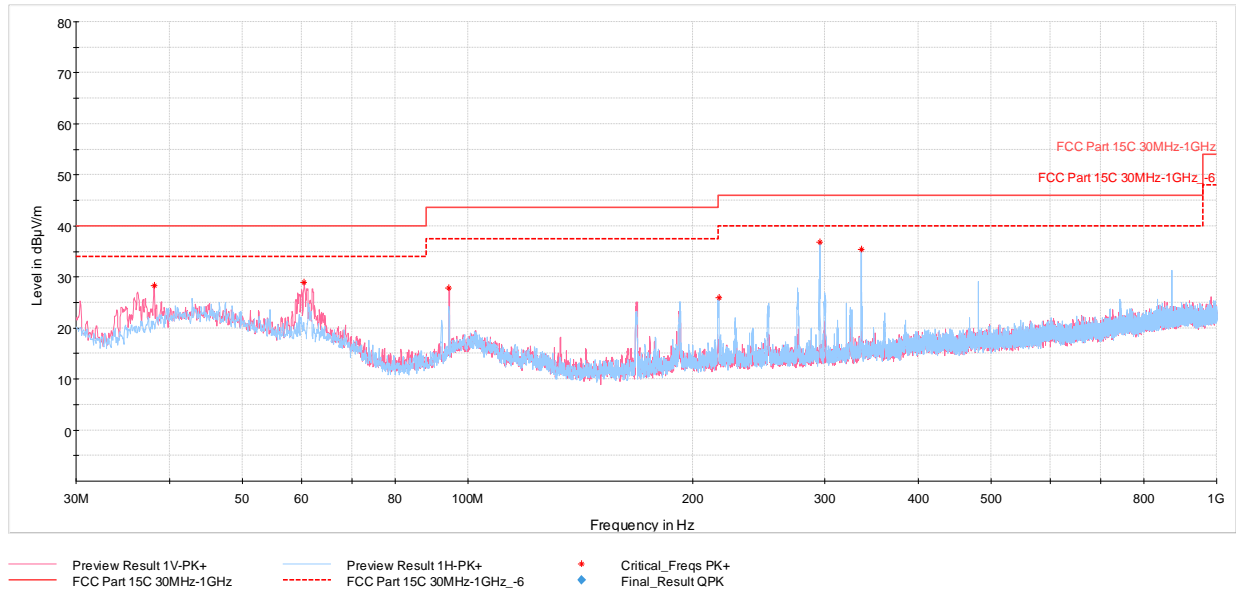
- Field Strength Level  $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamp Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

|   |   |                            |  |
|---|---|----------------------------|--|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | <b>Approved by:</b><br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device | Page 519 of 534                          |

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## CDD Primary Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



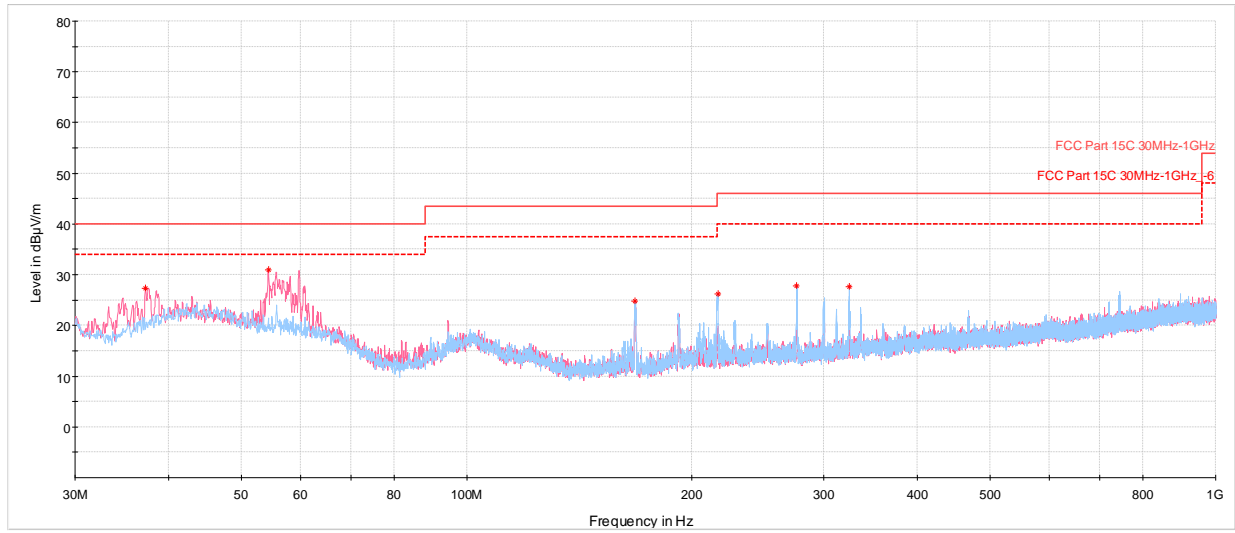
**Plot 7-1868. Radiated Spurious Emissions below 1GHz CDD Primary, 802.11n, Ch.40 with AC/DC Adapter**

| 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] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 38.15           | Max-Peak | V               | 100                 | 5                          | -60.80               | -17.92      | 28.28                   | 40.00          | -11.72      |
| 60.46           | Max-Peak | V               | 100                 | 15                         | -60.99               | -17.08      | 28.93                   | 40.00          | -11.07      |
| 94.41           | Max-Peak | V               | 100                 | 250                        | -60.05               | -19.08      | 27.87                   | 43.52          | -15.65      |
| 216.39          | Max-Peak | H               | 100                 | 182                        | -63.27               | -17.72      | 26.01                   | 46.02          | -20.01      |
| 295.15          | Max-Peak | H               | 100                 | 310                        | -54.84               | -15.33      | 36.83                   | 46.02          | -9.19       |
| 335.26          | Max-Peak | H               | 100                 | 310                        | -57.66               | -13.94      | 35.40                   | 46.02          | -10.62      |

**Table 7-325. Radiated Spurious Emissions below 1GHz, 802.11n CDD Primary, Ch.40 with AC/DC Adapter**

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 520 of 534                   |

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**Plot 7-1869. Radiated Spurious Emissions below 1GHz CDD Primary, 802.11ax (SU), Ch.40 with AC/DC Adapter**

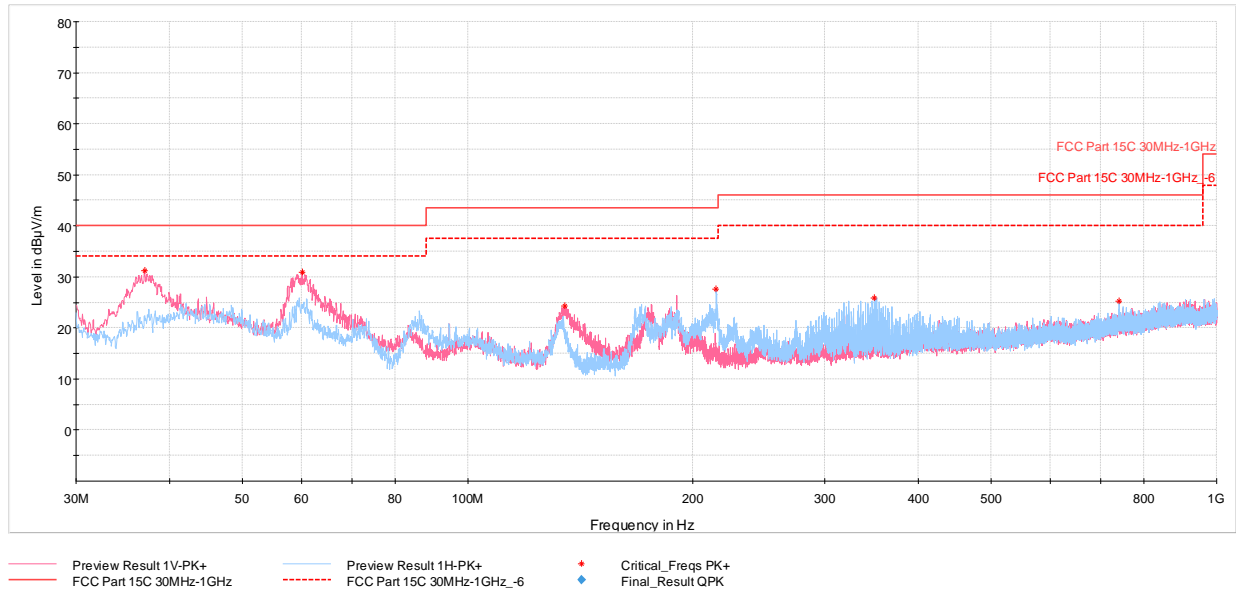
| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 37.28           | Max-Peak | V               | 100                 | 68                         | -61.46               | -18.16      | 27.38                   | 40.00          | -12.62      |
| 54.35           | Max-Peak | V               | 100                 | 231                        | -60.37               | -15.74      | 30.89                   | 40.00          | -9.11       |
| 167.84          | Max-Peak | H               | 100                 | 185                        | -61.92               | -20.33      | 24.75                   | 43.52          | -18.77      |
| 216.43          | Max-Peak | H               | 100                 | 181                        | -63.03               | -17.72      | 26.25                   | 46.02          | -19.77      |
| 275.56          | Max-Peak | H               | 100                 | 138                        | -63.37               | -15.87      | 27.76                   | 46.02          | -18.26      |
| 324.40          | Max-Peak | H               | 100                 | 138                        | -64.88               | -14.54      | 27.58                   | 46.02          | -18.44      |

**Table 7-326. Radiated Spurious Emissions below 1GHz, 802.11ax (SU) CDD Primary, Ch.40 with AC/DC Adapter**

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 521 of 534                   |

## CDD Diversity Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



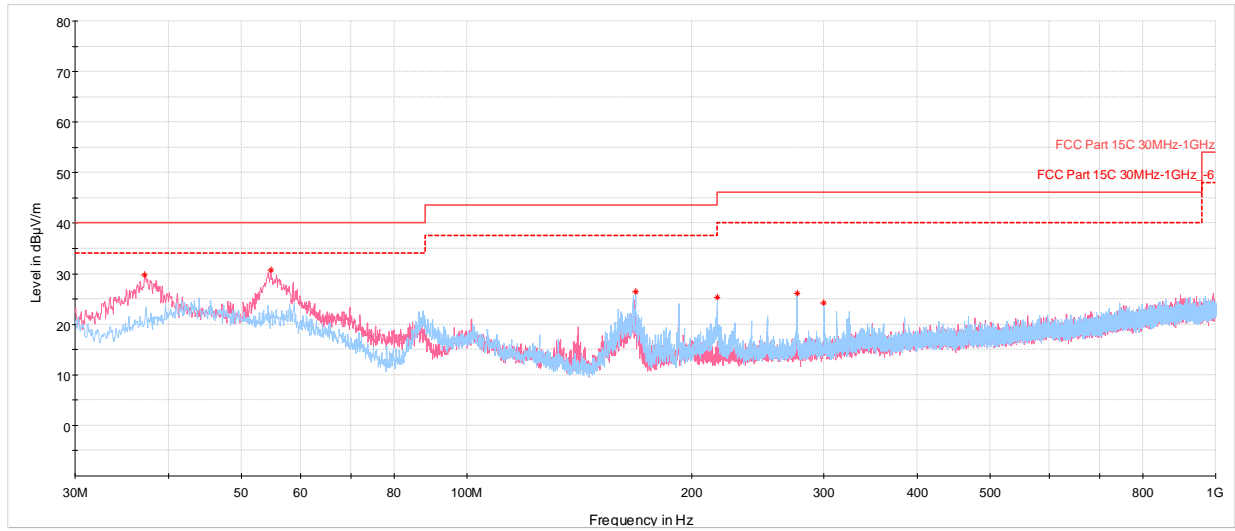
**Plot 7-1870. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11n, Ch.40 with AC/DC Adapter**

| 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] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 37.03           | Max-Peak | V               | 100                 | 262                        | -57.54               | -18.21      | 31.25                   | 40.00          | -8.75       |
| 60.12           | Max-Peak | V               | 200                 | 181                        | -59.13               | -16.96      | 30.91                   | 40.00          | -9.09       |
| 134.86          | Max-Peak | V               | 100                 | 190                        | -61.59               | -21.11      | 24.30                   | 43.52          | -19.22      |
| 214.74          | Max-Peak | H               | 100                 | 185                        | -61.46               | -17.89      | 27.65                   | 43.52          | -15.87      |
| 349.32          | Max-Peak | H               | 100                 | 144                        | -67.62               | -13.47      | 25.91                   | 46.02          | -20.11      |
| 741.20          | Max-Peak | H               | 100                 | 247                        | -75.14               | -6.60       | 25.26                   | 46.02          | -20.76      |

**Table 7-327. Radiated Spurious Emissions below 1GHz, 802.11n CDD Diversity, Ch.40 with AC/DC Adapter**

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 522 of 534                   |

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**Plot 7-1871. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11ax (SU), Ch.40 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] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 37.18           | Max-Peak | V               | 100                 | 310                        | -59.07               | -18.18      | 29.75                   | 40.00          | -10.25      |
| 54.74           | Max-Peak | V               | 100                 | 334                        | -60.45               | -15.84      | 30.71                   | 40.00          | -9.29       |
| 168.18          | Max-Peak | H               | 100                 | 167                        | -60.27               | -20.33      | 26.40                   | 43.52          | -17.12      |
| 216.10          | Max-Peak | H               | 100                 | 200                        | -63.91               | -17.73      | 25.36                   | 46.02          | -20.66      |
| 276.04          | Max-Peak | H               | 100                 | 149                        | -65.08               | -15.81      | 26.11                   | 46.02          | -19.91      |
| 300.00          | Max-Peak | H               | 100                 | 132                        | -67.32               | -15.41      | 24.27                   | 46.02          | -21.75      |

**Table 7-328. Radiated Spurious Emissions below 1GHz, 802.11ax (SU) CDD Diversity, Ch.40 with AC/DC Adapter**

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 523 of 534                   |

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

**Table 7-329. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### 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
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. 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
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

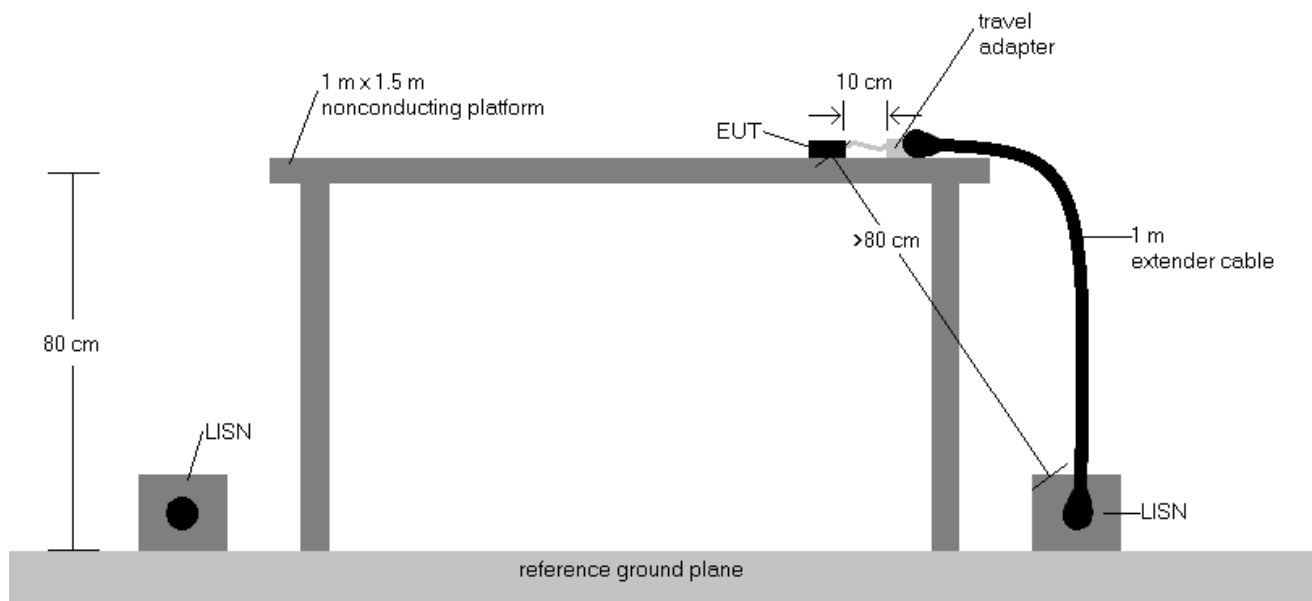
|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 524 of 534                   |

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## Test Setup

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



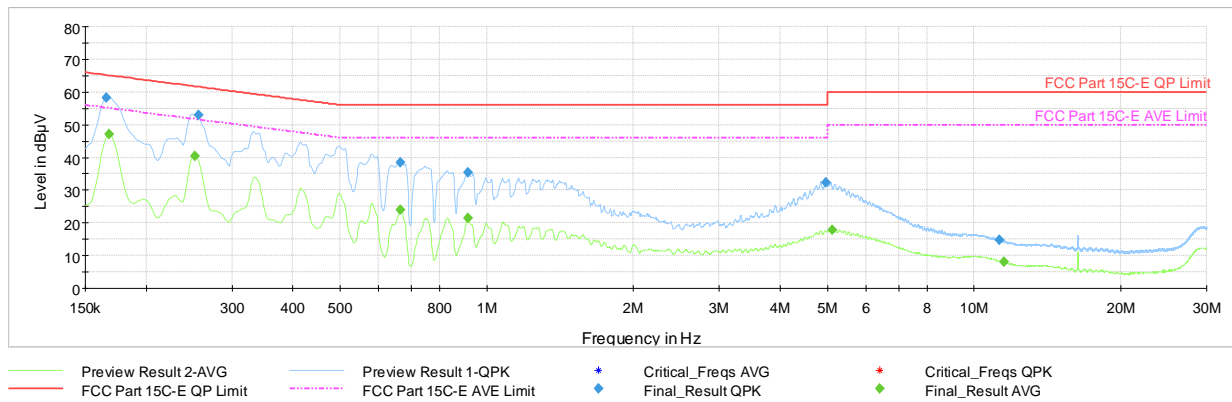
**Figure 7-8. Test Instrument & Measurement Setup**

## 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
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
4.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6.  $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
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: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 525 of 534                   |

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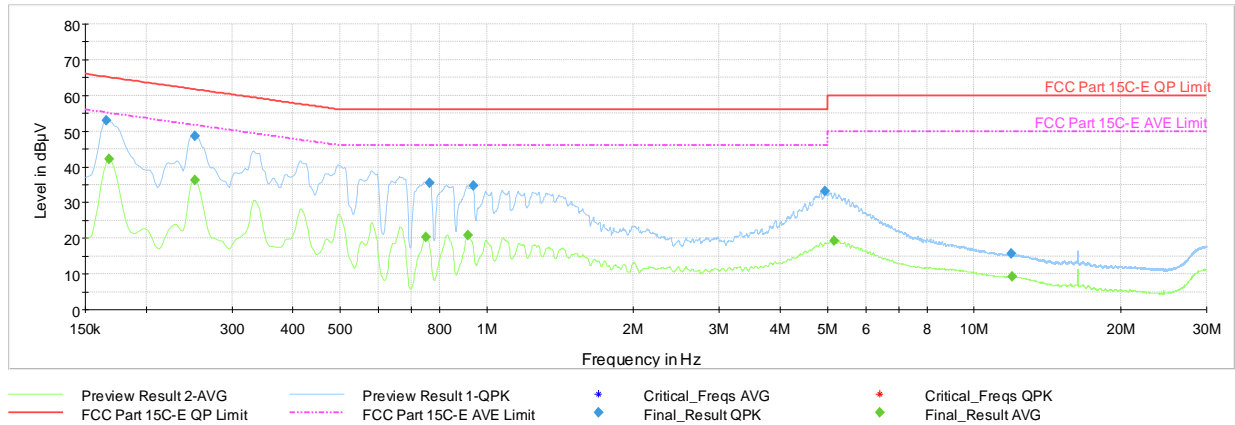
**Plot 7-1872. AC Line Conducted Plot with 802.11n CDD Primary – Ch.100 (L1), with AC/DC adapter**

| Frequency [MHz] | Process State | QuasiPeak [dBμV] | Average [dBμV] | Limit [dBμV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.166           | FINAL         | 58.3             | ---            | 65.17        | -6.89       | L1   | GND |
| 0.168           | FINAL         | ---              | 47.14          | 55.06        | -7.92       | L1   | GND |
| 0.251           | FINAL         | ---              | 40.51          | 51.72        | -11.21      | L1   | GND |
| 0.256           | FINAL         | 52.9             | ---            | 61.57        | -8.72       | L1   | GND |
| 0.665           | FINAL         | ---              | 23.88          | 46.00        | -22.12      | L1   | GND |
| 0.665           | FINAL         | 38.5             | ---            | 56.00        | -17.55      | L1   | GND |
| 0.913           | FINAL         | 35.4             | ---            | 56.00        | -20.61      | L1   | GND |
| 0.913           | FINAL         | ---              | 21.35          | 46.00        | -24.65      | L1   | GND |
| 4.954           | FINAL         | 32.4             | ---            | 56.00        | -23.62      | L1   | GND |
| 5.105           | FINAL         | ---              | 17.71          | 50.00        | -32.29      | L1   | GND |
| 11.245          | FINAL         | 14.7             | ---            | 60.00        | -45.30      | L1   | GND |
| 11.488          | FINAL         | ---              | 8.00           | 50.00        | -42.00      | L1   | GND |

**Table 7-330. AC Line Conducted Data with 802.11n CDD Primary – Ch.100 (L1) with AC/DC adapter**

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 526 of 534                   |

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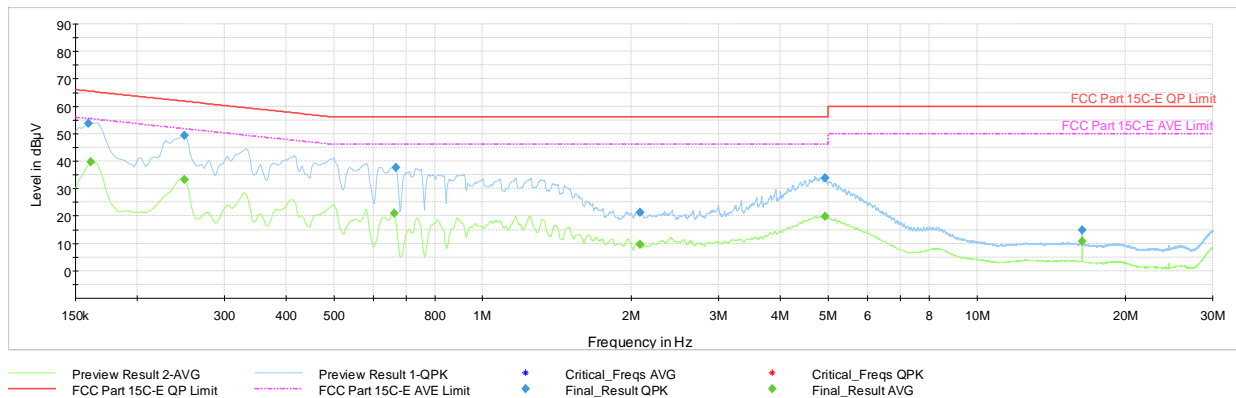
**Plot 7-1873. AC Line Conducted Plot with 802.11n CDD Primary – Ch.100 (N), with AC/DC adapter**

| Frequency [MHz] | Process State | QuasiPeak [dBµV] | Average [dBµV] | Limit [dBµV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.166           | FINAL         | 53.0             | ---            | 65.17        | -12.20      | N    | GND |
| 0.168           | FINAL         | ---              | 42.07          | 55.06        | -12.98      | N    | GND |
| 0.251           | FINAL         | ---              | 36.38          | 51.72        | -15.33      | N    | GND |
| 0.251           | FINAL         | 48.5             | ---            | 61.72        | -13.18      | N    | GND |
| 0.749           | FINAL         | ---              | 20.41          | 46.00        | -25.59      | N    | GND |
| 0.762           | FINAL         | 35.4             | ---            | 56.00        | -20.61      | N    | GND |
| 0.913           | FINAL         | ---              | 20.92          | 46.00        | -25.08      | N    | GND |
| 0.938           | FINAL         | 34.6             | ---            | 56.00        | -21.36      | N    | GND |
| 4.936           | FINAL         | 33.1             | ---            | 56.00        | -22.93      | N    | GND |
| 5.168           | FINAL         | ---              | 19.16          | 50.00        | -30.84      | N    | GND |
| 11.906          | FINAL         | 15.6             | ---            | 60.00        | -44.44      | N    | GND |
| 11.942          | FINAL         | ---              | 9.14           | 50.00        | -40.86      | N    | GND |

**Table 7-331. AC Line Conducted Data with 802.11n CDD Primary – Ch.100 (N), with AC/DC adapter**

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 527 of 534                   |

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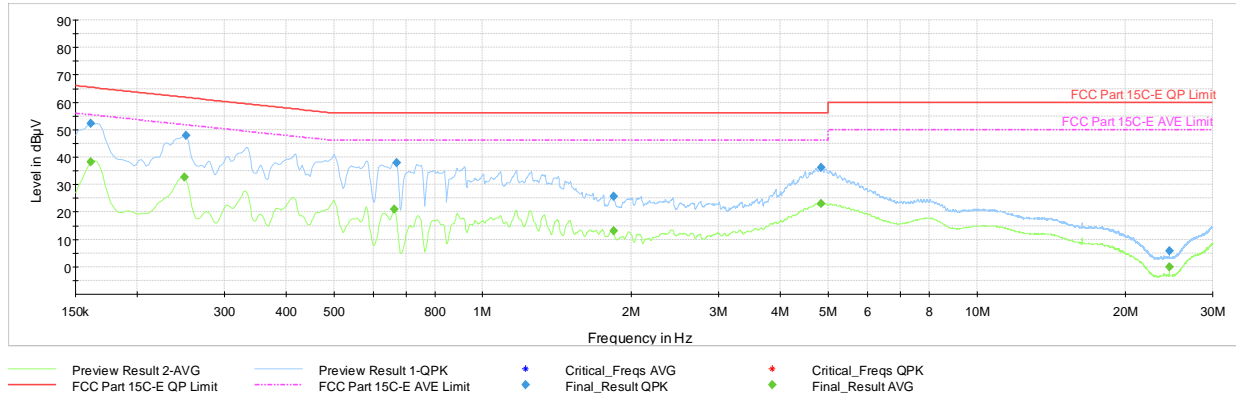


| Frequency [MHz] | Process State | QuasiPeak [dBµV] | Average [dBµV] | Limit [dBµV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.159           | FINAL         | 53.62            | ---            | 65.52        | -11.89      | L1   | GND |
| 0.161           | FINAL         | ---              | 39.75          | 55.40        | -15.65      | L1   | GND |
| 0.249           | FINAL         | ---              | 33.41          | 51.79        | -18.38      | L1   | GND |
| 0.249           | FINAL         | 49.46            | ---            | 61.79        | -12.33      | L1   | GND |
| 0.663           | FINAL         | ---              | 20.88          | 46.00        | -25.12      | L1   | GND |
| 0.668           | FINAL         | 37.60            | ---            | 56.00        | -18.40      | L1   | GND |
| 2.081           | FINAL         | ---              | 9.55           | 46.00        | -36.45      | L1   | GND |
| 2.085           | FINAL         | 21.42            | ---            | 56.00        | -34.58      | L1   | GND |
| 4.938           | FINAL         | 33.97            | ---            | 56.00        | -22.03      | L1   | GND |
| 4.938           | FINAL         | ---              | 19.73          | 46.00        | -26.27      | L1   | GND |
| 16.321          | FINAL         | ---              | 10.68          | 50.00        | -39.32      | L1   | GND |
| 16.321          | FINAL         | 14.85            | ---            | 60.00        | -45.15      | L1   | GND |

Table 7-332. AC Line Conducted Data with 802.11ax(SU) CDD Primary – Ch.40 (L1) with AC/DC adapter

|   |   |                            |                                   |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device | Page 528 of 534                   |

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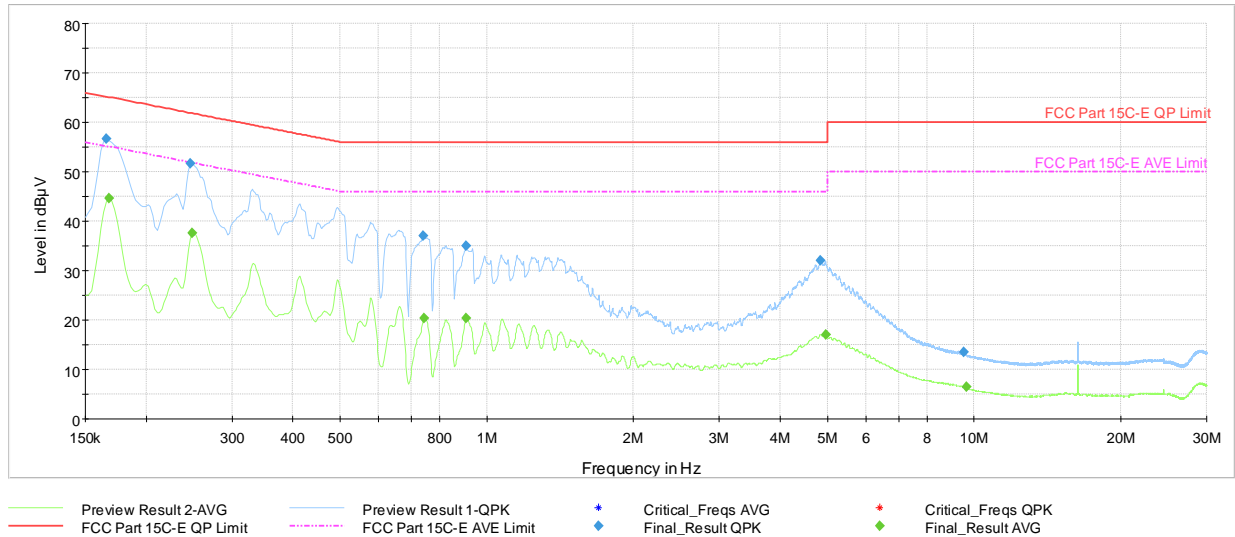
**Plot 7-1875. AC Line Conducted Plot with 802.11ax(SU) CDD Primary – Ch.40 (N), with AC/DC adapter**

| Frequency [MHz] | Process State | QuasiPeak [dBµV] | Average [dBµV] | Limit [dBµV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.161           | FINAL         | ---              | 38.26          | 55.40        | -17.14      | N    | GND |
| 0.161           | FINAL         | 52.20            | ---            | 65.40        | -13.20      | N    | GND |
| 0.249           | FINAL         | ---              | 32.79          | 51.79        | -19.00      | N    | GND |
| 0.251           | FINAL         | 47.77            | ---            | 61.72        | -13.94      | N    | GND |
| 0.663           | FINAL         | ---              | 21.06          | 46.00        | -24.94      | N    | GND |
| 0.670           | FINAL         | 37.94            | ---            | 56.00        | -18.06      | N    | GND |
| 1.840           | FINAL         | 25.81            | ---            | 56.00        | -30.19      | N    | GND |
| 1.840           | FINAL         | ---              | 13.09          | 46.00        | -32.91      | N    | GND |
| 4.841           | FINAL         | 36.06            | ---            | 56.00        | -19.94      | N    | GND |
| 4.841           | FINAL         | ---              | 23.13          | 46.00        | -22.87      | N    | GND |
| 24.497          | FINAL         | ---              | 0.00           | 50.00        | -50.00      | N    | GND |
| 24.500          | FINAL         | 5.77             | ---            | 60.00        | -54.23      | N    | GND |

**Table 7-333. AC Line Conducted Data with 802.11ax(SU) CDD Primary – Ch.40 (N), with AC/DC adapter**

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 529 of 534                   |

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Plot 7-1876. AC Line Conducted Plot with 802.11n CDD Diversity – Ch.100 (L1), with AC/DC adapter

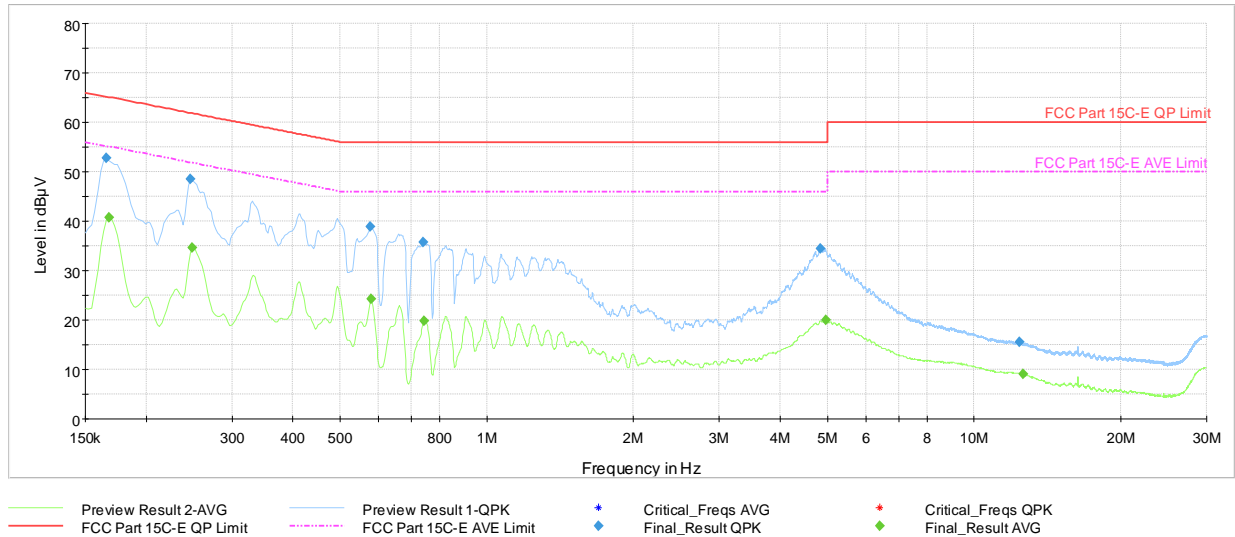
| Frequency [MHz] | Process State | QuasiPeak [dBµV] | Average [dBµV] | Limit [dBµV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.166           | FINAL         | 56.62            | ---            | 65.17        | -8.55       | L1   | GND |
| 0.168           | FINAL         | ---              | 44.62          | 55.06        | -10.44      | L1   | GND |
| 0.247           | FINAL         | 51.69            | ---            | 61.87        | -10.18      | L1   | GND |
| 0.249           | FINAL         | ---              | 37.60          | 51.79        | -14.19      | L1   | GND |
| 0.742           | FINAL         | 36.96            | ---            | 56.00        | -19.04      | L1   | GND |
| 0.744           | FINAL         | ---              | 20.38          | 46.00        | -25.62      | L1   | GND |
| 0.906           | FINAL         | 34.92            | ---            | 56.00        | -21.08      | L1   | GND |
| 0.906           | FINAL         | ---              | 20.39          | 46.00        | -25.61      | L1   | GND |
| 4.828           | FINAL         | 32.01            | ---            | 56.00        | -23.99      | L1   | GND |
| 4.954           | FINAL         | ---              | 17.02          | 46.00        | -28.98      | L1   | GND |
| 9.539           | FINAL         | 13.45            | ---            | 60.00        | -46.55      | L1   | GND |
| 9.625           | FINAL         | ---              | 6.39           | 50.00        | -43.61      | L1   | GND |

Table 7-334. AC Line Conducted Data with 802.11n CDD Diversity – Ch.100 (L1) with AC/DC adapter

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 530 of 534                   |

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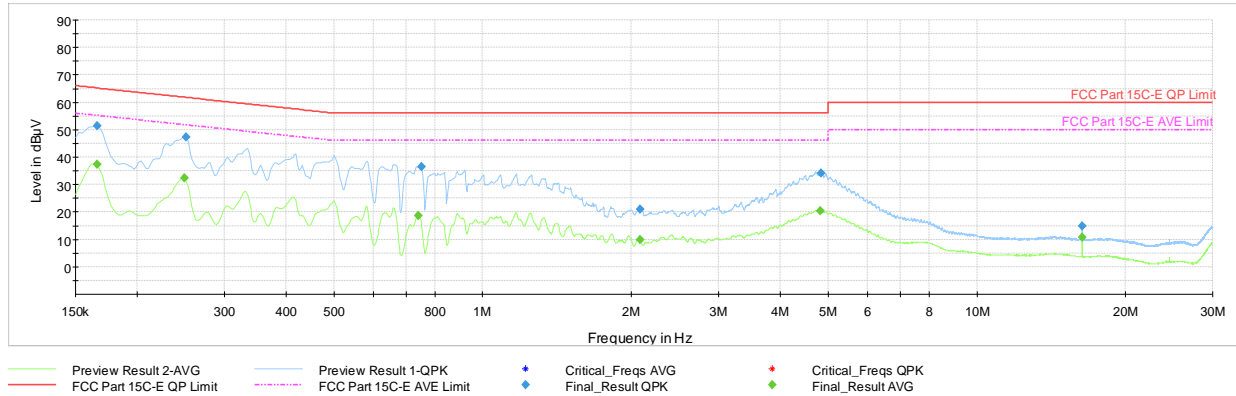




| Frequency [MHz] | Process State | QuasiPeak [dBμV] | Average [dBμV] | Limit [dBμV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.166           | FINAL         | 52.72            | ---            | 65.17        | -12.45      | N    | GND |
| 0.168           | FINAL         | ---              | 40.79          | 55.06        | -14.27      | N    | GND |
| 0.247           | FINAL         | 48.53            | ---            | 61.87        | -13.34      | N    | GND |
| 0.249           | FINAL         | ---              | 34.54          | 51.79        | -17.25      | N    | GND |
| 0.578           | FINAL         | 38.85            | ---            | 56.00        | -17.15      | N    | GND |
| 0.580           | FINAL         | ---              | 24.30          | 46.00        | -21.70      | N    | GND |
| 0.742           | FINAL         | 35.68            | ---            | 56.00        | -20.32      | N    | GND |
| 0.744           | FINAL         | ---              | 19.83          | 46.00        | -26.17      | N    | GND |
| 4.828           | FINAL         | 34.49            | ---            | 56.00        | -21.51      | N    | GND |
| 4.961           | FINAL         | ---              | 19.91          | 46.00        | -26.09      | N    | GND |
| 12.374          | FINAL         | 15.50            | ---            | 60.00        | -44.50      | N    | GND |
| 12.577          | FINAL         | ---              | 9.00           | 50.00        | -41.00      | N    | GND |

Table 7-335. AC Line Conducted Data with 802.11n CDD Diversity – Ch.100 (N), with AC/DC adapter

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 531 of 534                   |



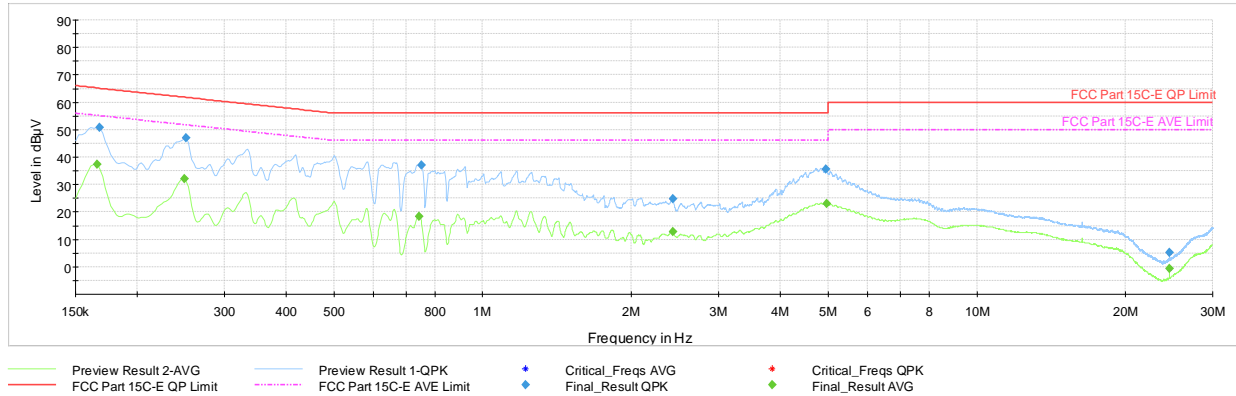
Plot 7-1878. AC Line Conducted Plot with 802.11ax(SU) CDD Diversity – Ch.40 (L1), with AC/DC adapter

| Frequency [MHz] | Process State | QuasiPeak [dBμV] | Average [dBμV] | Limit [dBμV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.166           | FINAL         | ---              | 37.36          | 55.17        | -17.81      | L1   | GND |
| 0.166           | FINAL         | 51.30            | ---            | 65.17        | -13.87      | L1   | GND |
| 0.249           | FINAL         | ---              | 32.44          | 51.79        | -19.35      | L1   | GND |
| 0.251           | FINAL         | 47.45            | ---            | 61.72        | -14.26      | L1   | GND |
| 0.740           | FINAL         | ---              | 18.56          | 46.00        | -27.44      | L1   | GND |
| 0.753           | FINAL         | 36.57            | ---            | 56.00        | -19.43      | L1   | GND |
| 2.081           | FINAL         | ---              | 9.93           | 46.00        | -36.08      | L1   | GND |
| 2.085           | FINAL         | 20.94            | ---            | 56.00        | -35.06      | L1   | GND |
| 4.828           | FINAL         | ---              | 20.39          | 46.00        | -25.61      | L1   | GND |
| 4.846           | FINAL         | 34.13            | ---            | 56.00        | -21.87      | L1   | GND |
| 16.325          | FINAL         | ---              | 10.72          | 50.00        | -39.28      | L1   | GND |
| 16.325          | FINAL         | 14.93            | ---            | 60.00        | -45.07      | L1   | GND |

Table 7-336. AC Line Conducted Data with 802.11ax(SU) CDD Diversity – Ch.40 (L1) with AC/DC adapter

|   |   |                            |                                   |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device | Page 532 of 534                   |

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**Plot 7-1879. AC Line Conducted Plot with 802.11ax(SU) CDD Diversity – Ch.40 (N), with AC/DC adapter**

| Frequency [MHz] | Process State | QuasiPeak [dBμV] | Average [dBμV] | Limit [dBμV] | Margin [dB] | Line | PE  |
|-----------------|---------------|------------------|----------------|--------------|-------------|------|-----|
| 0.166           | FINAL         | ---              | 37.28          | 55.17        | -17.89      | N    | GND |
| 0.168           | FINAL         | 50.68            | ---            | 65.06        | -14.38      | N    | GND |
| 0.249           | FINAL         | ---              | 32.15          | 51.79        | -19.64      | N    | GND |
| 0.251           | FINAL         | 46.99            | ---            | 61.72        | -14.72      | N    | GND |
| 0.744           | FINAL         | ---              | 18.22          | 46.00        | -27.78      | N    | GND |
| 0.753           | FINAL         | 37.09            | ---            | 56.00        | -18.91      | N    | GND |
| 2.429           | FINAL         | 24.69            | ---            | 56.00        | -31.31      | N    | GND |
| 2.429           | FINAL         | ---              | 12.81          | 46.00        | -33.19      | N    | GND |
| 4.952           | FINAL         | 35.59            | ---            | 56.00        | -20.41      | N    | GND |
| 4.961           | FINAL         | ---              | 23.06          | 46.00        | -22.94      | N    | GND |
| 24.518          | FINAL         | ---              | -0.50          | 50.00        | -50.50      | N    | GND |
| 24.518          | FINAL         | 5.26             | ---            | 60.00        | -54.74      | N    | GND |

**Table 7-337. AC Line Conducted Data with 802.11ax(SU) CDD Diversity – Ch.40 (N), with AC/DC adapter**

|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| FCC ID: BCGA2757<br>IC: 579C-A2757      |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2205090023-16.BCG | Test Dates:<br>08/02/2022 – 09/14/2022  | EUT Type:<br>Tablet Device            | Page 533 of 534                   |

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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2757** and **IC: 579C-A2757** 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.

|  |   |   |  |
|--|---|---|--|
| <b>FCC ID:</b> BCGA2757<br><b>IC:</b> 579C-A2757 |  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2205090023-16.BCG   | <b>Test Dates:</b><br>08/02/2022 – 09/14/2022                                       | <b>EUT Type:</b><br>Tablet Device             | Page 534 of 534                          |

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