

# **TEST REPORT**

**Report Number:** 15496282-E10V3

**Applicant :** APPLE INC.  
1 APPLE PARK WAY  
CUPERTINO, CA 95014, U.S.A.

**Model :** A3260 (Parent)  
A3516, A3517, A3518 (Variants)

**Brand :** APPLE

**FCC ID :** BCG-E8948A (Parent)  
BCG-E8954A, BCG-E8955A, BCG-E8956A (Variants)

**EUT Description :** SMARTPHONE

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART E

**Date Of Issue:**  
2025-08-14

**Prepared by:**  
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**REPORT REVISION HISTORY**

| Rev. | Issue<br>Date | Revisions                                             | Revised By         |
|------|---------------|-------------------------------------------------------|--------------------|
| V1   | 2025-07-14    | Initial Review                                        | Everardo H. Torres |
| V2   | 2025-07-29    | Addressed TCB Feedback in<br>Sections 6, 8, 9, and 10 | Everardo H. Torres |
| V3   | 2025-08-14    | Updated equipment lis                                 | Everardo H. Torres |

## TABLE OF CONTENTS

|                                                             |           |
|-------------------------------------------------------------|-----------|
| <b>1. ATTESTATION OF TEST RESULTS.....</b>                  | <b>6</b>  |
| <b>2. TEST RESULT SUMMARY.....</b>                          | <b>7</b>  |
| <b>3. TEST METHODOLOGY .....</b>                            | <b>8</b>  |
| <b>4. FACILITIES AND ACCREDITATION.....</b>                 | <b>8</b>  |
| <b>5. DECISION RULES AND MEASUREMENT UNCERTAINTY.....</b>   | <b>9</b>  |
| 5.1. METROLOGICAL TRACEABILITY .....                        | 9         |
| 5.2. DECISION RULES .....                                   | 9         |
| 5.3. MEASUREMENT UNCERTAINTY .....                          | 9         |
| 5.4. SAMPLE CALCULATION.....                                | 10        |
| <b>6. EQUIPMENT UNDER TEST .....</b>                        | <b>11</b> |
| 6.1. EUT DESCRIPTION.....                                   | 11        |
| 6.2. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS ..... | 11        |
| 6.3. SOFTWARE AND FIRMWARE .....                            | 11        |
| 6.4. MAXIMUM OUTPUT POWER.....                              | 12        |
| 6.5. WORST-CASE CONFIGURATION AND MODE.....                 | 16        |
| 6.6. DESCRIPTION OF TEST SETUP.....                         | 18        |
| <b>7. MEASUREMENT METHOD .....</b>                          | <b>21</b> |
| <b>8. TEST AND MEASUREMENT EQUIPMENT .....</b>              | <b>22</b> |
| <b>9. ANTENNA PORT TEST RESULTS .....</b>                   | <b>26</b> |
| 9.1. ON TIME AND DUTY CYCLE .....                           | 26        |
| 9.2. 26 dB AND 99% BANDWIDTH.....                           | 29        |
| 9.2.1. 802.11n/ac SISO MODE IN THE UNII-1 BAND .....        | 29        |
| 9.2.2. 802.11n/ac MIMO CDD MODE IN THE UNII-1 BAND .....    | 31        |
| 9.2.3. 802.11n/ac SISO MODE IN THE UNII-2A BAND .....       | 32        |
| 9.2.4. 802.11n/ac MIMO CDD MODE IN THE UNII-2A BAND .....   | 33        |
| 9.2.5. 802.11n/ac SISO MODE IN THE UNII-2C BAND.....        | 34        |
| 9.2.6. 802.11n/ac MIMO CDD MODE IN THE UNII-2C BAND.....    | 35        |
| 9.2.7. 802.11n/ac SISO MODE IN THE UNII-3 BAND .....        | 36        |
| 9.2.8. 802.11n/ac MIMO CDD MODE IN THE UNII-3 BAND .....    | 37        |
| 9.2.9. 802.11be SISO MODE IN THE UNII-1 BAND.....           | 38        |
| 9.2.10. 802.11be MIMO CDD MODE IN THE UNII-1 BAND .....     | 40        |
| 9.2.11. 802.11be SISO MODE IN THE UNII-2A BAND .....        | 42        |
| 9.2.12. 802.11be MIMO CDD MODE IN THE UNII-2A BAND.....     | 43        |
| 9.2.13. 802.11be SISO MODE IN THE UNII-2C BAND .....        | 44        |
| 9.2.14. 802.11be MIMO CDD MODE IN THE UNII-2C BAND .....    | 46        |
| 9.2.15. 802.11be SISO MODE IN THE UNII-3 BAND .....         | 48        |

|          |                                                                         |     |
|----------|-------------------------------------------------------------------------|-----|
| 9.2.16.  | 802.11be MIMO CDD MODE IN THE UNII-3 BAND .....                         | 50  |
| 9.3.     | <i>BANDWIDTH VERIFICATION OF CHANNEL PUNCTURING IN THE DFS BANDS</i> .. | 52  |
| 9.3.1.   | 802.11be EHT80 SISO MODE .....                                          | 53  |
| 9.3.2.   | 802.11be EHT80 MIMO CDD MODE .....                                      | 55  |
| 9.3.3.   | 802.11be EHT160 SISO MODE .....                                         | 57  |
| 9.3.4.   | 802.11be EHT160 MIMO CDD MODE .....                                     | 60  |
| 9.4.     | <i>6 dB BANDWIDTH</i> .....                                             | 63  |
| 9.4.1.   | 802.11n/ac SISO MODE IN THE 5.8 GHz BAND .....                          | 64  |
| 9.4.2.   | 802.11n/ac MIMO CDD MODE IN THE 5.8 GHz BAND .....                      | 65  |
| 9.4.3.   | 802.11be SISO MODE IN THE 5.8 GHz BAND .....                            | 67  |
| 9.4.4.   | 802.11be MIMO CDD MODE IN THE 5.8 GHz BAND .....                        | 69  |
| 9.5.     | <i>OUTPUT POWER AND PSD</i> .....                                       | 71  |
| 9.5.1.   | 802.11n/ac SISO MODE IN THE UNII-1 BAND .....                           | 74  |
| 9.5.2.   | 802.11n/ac MIMO CDD MODE IN THE UNII-1 BAND .....                       | 75  |
| 9.5.3.   | 802.11n/ac SISO MODE IN THE UNII-2A BAND .....                          | 76  |
| 9.5.4.   | 802.11n/ac MIMO CDD MODE IN THE UNII-2A BAND .....                      | 77  |
| 9.5.5.   | 802.11n/ac SISO MODE IN THE UNII-2C BAND .....                          | 78  |
| 9.5.6.   | 802.11n/ac MIMO CDD MODE IN THE UNII-2C BAND .....                      | 79  |
| 9.5.7.   | 802.11n/ac SISO MODE IN THE UNII-3 BAND .....                           | 80  |
| 9.5.8.   | 802.11n/ac MIMO CDD MODE IN THE UNII-3 BAND .....                       | 81  |
| 9.5.9.   | 802.11be SISO MODE IN THE UNII-1 BAND .....                             | 82  |
| 9.5.10.  | 802.11be MIMO CDD MODE IN THE UNII-1 BAND .....                         | 85  |
| 9.5.11.  | 802.11be SISO MODE IN THE UNII-2A BAND .....                            | 88  |
| 9.5.12.  | 802.11be MIMO CDD MODE IN THE UNII-2A BAND .....                        | 90  |
| 9.5.13.  | 802.11be SISO MODE IN THE UNII-2C BAND .....                            | 92  |
| 9.5.14.  | 802.11be MIMO CDD MODE IN THE UNII-2C BAND .....                        | 93  |
| 9.5.15.  | 802.11be SISO MODE IN THE UNII-3 BAND .....                             | 94  |
| 9.5.16.  | 802.11be MIMO CDD MODE IN THE UNII-3 BAND .....                         | 97  |
| 10.      | <b>RADIATED TEST RESULTS</b> .....                                      | 100 |
| 10.1.    | <i>TRANSMITTER ABOVE 1 GHz</i> .....                                    | 102 |
| 10.1.1.  | 802.11n/ac SISO MODE IN UNII-1 BAND – BANDEDGE .....                    | 102 |
| 10.1.2.  | 802.11n/ac MIMO MODE IN UNII-1 BAND – BANDEDGE .....                    | 105 |
| 10.1.3.  | 802.11be SISO SU MODE IN UNII-1 BAND – BANDEDGE .....                   | 108 |
| 10.1.4.  | 802.11be SISO PARTIAL RU MODE IN UNII-1 BAND – BANDEDGE .....           | 111 |
| 10.1.5.  | 802.11be MIMO SU MODE IN UNII-1 BAND – BANDEDGE .....                   | 115 |
| 10.1.6.  | 802.11be MIMO PARTIAL RU MODE IN UNII-1 BAND – BANDEDGE .....           | 118 |
| 10.1.7.  | 802.11n/ac MIMO MODE IN UNII-1 BAND – SPURIOUS EMISSIONS .....          | 121 |
| 10.1.8.  | 802.11be MIMO MODE IN UNII-1 BAND – SPURIOUS EMISSIONS .....            | 125 |
| 10.1.9.  | 802.11n/ac SISO MODE IN UNII-2A BAND – BANDEDGE .....                   | 131 |
| 10.1.10. | 802.11n/ac MIMO MODE IN UNII-2A BAND - BANDEDGE .....                   | 134 |
| 10.1.11. | 802.11be SISO SU MODE IN UNII-2A BAND – BANDEDGE .....                  | 137 |
| 10.1.12. | 802.11be SISO PARTIAL RU MODE IN UNII-2A BAND – BANDEDGE .....          | 140 |
| 10.1.13. | 802.11be MIMO SU MODE IN UNII-2A BAND – BANDEDGE .....                  | 144 |
| 10.1.14. | 802.11be MIMO PARTIAL RU MODE IN UNII-2A BAND – BANDEDGE .....          | 147 |
| 10.1.15. | 802.11n/ac MIMO MODE IN UNII-2A BAND – SPURIOUS EMISSIONS .....         | 150 |
| 10.1.16. | 802.11be MIMO MODE IN UNII-2A BAND – SPURIOUS EMISSIONS .....           | 154 |
| 10.1.17. | 802.11n/ac SISO MODE IN UNII-2C BAND – BANDEDGES .....                  | 159 |
| 10.1.18. | 802.11n/ac MIMO MODE IN UNII-2C BAND – BANDEDGES .....                  | 165 |

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|            |                                                                |            |
|------------|----------------------------------------------------------------|------------|
| 10.1.19.   | 802.11be SISO SU MODE IN UNII-2C BAND – BANDEDGES .....        | 170        |
| 10.1.20.   | 802.11be SISO PARTIAL RU MODE IN UNII-2C BAND - BANDEDGES..... | 176        |
| 10.1.21.   | 802.11be MIMO SU MODE IN UNII-2C BAND – BANDEDGES.....         | 183        |
| 10.1.22.   | 802.11be MIMO PARTIAL RU MODE IN UNII-2C BAND – BANDEDGES..... | 188        |
| 10.1.23.   | 802.11n/ac MIMO MODE IN UNII-2C BAND – SPURIOUS EMISSIONS..... | 195        |
| 10.1.24.   | 802.11be MIMO MODE IN UNII-2C BAND – SPURIOUS EMISSIONS.....   | 200        |
| 10.1.25.   | 802.11n/ac SISO MODE IN UNII-3 BAND BANDEDGES.....             | 209        |
| 10.1.26.   | 802.11n/ac MIMO MODE IN UNII-3 BAND – BANDEDGES.....           | 214        |
| 10.1.27.   | 802.11be SISO SU MODE IN UNII-3 BAND - BANDEDGES .....         | 219        |
| 10.1.28.   | 802.11be SISO PARTIAL RU MODE IN UNII-3 BAND – BANDEDGES ..... | 224        |
| 10.1.29.   | 802.11be MIMO SU MODE IN UNII-3 BAND - BANDEDGES .....         | 229        |
| 10.1.30.   | 802.11be MIMO PARTIAL RU MODE IN UNII-3 BAND - BANDEDGES.....  | 234        |
| 10.1.31.   | 802.11n/ac MIMO MODE IN UNII-3 BAND – SPURIOUS EMISSIONS ..... | 239        |
| 10.1.32.   | 802.11be MIMO MODE IN UNII-3 BAND – SPURIOUS EMISSIONS .....   | 243        |
| 10.2.      | <i>WORST CASE BELOW 1 GHz.....</i>                             | <i>248</i> |
| 10.3.      | <i>WORST CASE 18-26 GHz .....</i>                              | <i>250</i> |
| 10.4.      | <i>WORST CASE 26-40 GHz .....</i>                              | <i>252</i> |
| <b>11.</b> | <b>AC POWERLINE CONDUCTED EMISSIONS.....</b>                   | <b>254</b> |
| 11.1.      | <i>AC POWER LINE WITH LAPTOP .....</i>                         | <i>255</i> |
| 11.2.      | <i>AC POWER LINE WITH AC/DC ADAPTER .....</i>                  | <i>257</i> |
| <b>12.</b> | <b>SETUP PHOTOS.....</b>                                       | <b>259</b> |
| <b>13.</b> | <b>APPENDIX A – SPOT CHECK EVALUATION.....</b>                 | <b>259</b> |
| 13.1.      | <i>MODEL DIFFERENCES.....</i>                                  | <i>259</i> |
| 13.2.      | <i>SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3516.....</i>  | <i>260</i> |
| 13.3.      | <i>SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3517.....</i>  | <i>261</i> |
| 13.4.      | <i>SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3518.....</i>  | <i>262</i> |

## 1. ATTESTATION OF TEST RESULTS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|
| Applicant Name and Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | APPLE INC.<br>1 APPLE PARK WAY<br>CUPERTINO, CA 95014, U.S.A.               |                                                                                      |  |
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A3260 (Parent)<br>A3516, A3517, A3518 (Variants)                            |                                                                                      |  |
| Brand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | APPLE                                                                       |                                                                                      |  |
| FCC ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BCG-E8948A (Parent)<br>BCG-E8954A, BCG-E8955A, BCG-E8956A (Variants)        |                                                                                      |  |
| EUT Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SMARTPHONE                                                                  |                                                                                      |  |
| Serial Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LFK6GGFV2V (Radiated)<br>C07HCB000970000YGG, C07HG50008R0000YGG (Conducted) |                                                                                      |  |
| Sample Receipt Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2025-03-10                                                                  |                                                                                      |  |
| Date Tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2025-04-01 to 2025-07-29                                                    |                                                                                      |  |
| Applicable Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CFR 47 Part 15 Subpart E                                                    |                                                                                      |  |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COMPLIES                                                                    |                                                                                      |  |
| <p>UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.</p> <p>The results documented in this report apply only to the sample tested, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.</p> <p>This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.</p> |                                                                             |                                                                                      |  |
| Approved & Released By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                             | Prepared & Reviewed By:                                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                             |  |  |
| Richard Lee<br>Staff Engineer<br>UL Verification Services, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             | Everardo H. Torres<br>Senior Test Engineer<br>UL Verification Services, Inc.         |  |

## 2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.2)
2. Cable loss (see section 6.2)

| FCC Clause                 | Requirement                  | Result                  | Comment                                  |
|----------------------------|------------------------------|-------------------------|------------------------------------------|
| See Comment                | Duty Cycle                   | Reporting purposes only | Per ANSI C63.10, Section 12.2.           |
| See Comment                | 26dB BW/99% OBW              | Reporting purposes only | Per ANSI C63.10 Sections 6.9.2 and 6.9.3 |
| 15.407 (e)                 | 6 dB BW                      | Complies                | None.                                    |
| 15.407 (a) (1-4), (h) (1)  | Output Power                 | Complies                | None.                                    |
| 15.407 (a) (1-3, 5)        | PSD                          | Complies                | None.                                    |
| 15.209, 15.205, 15.407 (b) | Radiated Emissions           | Complies                | None.                                    |
| 15.207                     | AC Mains Conducted Emissions | Complies                | None.                                    |

### 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- FCC KDB 662911 D01 v02r01
- FCC KDB 789033 D02 v02r01
- FCC KDB 484596 D01
- \*ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- KDB 414788 D01 Radiated Test Site

\*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020.

### 4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

|                                     | Address                                                  | ISED<br>CABID | ISED<br>Company<br>Number | FCC<br>Registration |
|-------------------------------------|----------------------------------------------------------|---------------|---------------------------|---------------------|
| <input type="checkbox"/>            | Building 1: 47173 Benicia Street, Fremont, CA 94538, USA | US0104        | 2324A                     | 550739              |
| <input checked="" type="checkbox"/> | Building 2: 47266 Benicia Street, Fremont, CA 94538, USA |               |                           |                     |
| <input checked="" type="checkbox"/> | Building 3: 843 Auburn Court, Fremont, CA 94538, USA     |               |                           |                     |
| <input checked="" type="checkbox"/> | Building 4: 47658 Kato Rd, Fremont, CA 94538, USA        |               |                           |                     |
| <input checked="" type="checkbox"/> | Building 5: 47670 Kato Rd, Fremont, CA 94538, USA        |               |                           |                     |

## 5. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

### 5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER                                            | U <sub>LAB</sub>               |
|------------------------------------------------------|--------------------------------|
| Conducted Antenna Port Emission Measurement          | 1.94 dB                        |
| Power Spectral Density                               | 2.466 dB                       |
| Time Domain Measurements Using SA                    | 3.39 %                         |
| RF Power Measurement Direct Method Using Power Meter | 0.450 dB (Ave)<br>1.30 dB (PK) |
| Radio Frequency (Spectrum Analyzer)                  | 141.16 Hz                      |
| Occupied Bandwidth                                   | 1.2%                           |
| Worst Case Conducted Disturbance, 9KHz to 0.15 MHz   | 3.78 dB                        |
| Worst Case Conducted Disturbance, 0.15 to 30 MHz     | 3.40 dB                        |
| Worst Case Radiated Disturbance, 9KHz to 30 MHz      | 2.87 dB                        |
| Worst Case Radiated Disturbance, 30 to 1000 MHz      | 6.01 dB                        |
| Worst Case Radiated Disturbance, 1000 to 18000 MHz   | 4.73 dB                        |
| Worst Case Radiated Disturbance, 18000 to 26000 MHz  | 4.51 dB                        |
| Worst Case Radiated Disturbance, 26000 to 40000 MHz  | 5.29 dB                        |

Uncertainty figures are valid to a confidence level of 95%.

## 5.4. SAMPLE CALCULATION

### **RADIATED EMISSIONS**

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

### **MAINS CONDUCTED EMISSIONS**

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

## 6. EQUIPMENT UNDER TEST

### 6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

### 6.2. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

Antenna Type is IFA.

The antennas' gains, as provided by the manufacturer, are as follows:

| Frequency Range (MHz)    | Antenna 6 (dBi) | Antenna 5 (dBi) | Uncorrelated Chains (dBi) | Correlated Chains (dBi) |
|--------------------------|-----------------|-----------------|---------------------------|-------------------------|
| 5150 - 5250<br>UNII - 1  | 0.70            | -3.40           | -0.88                     | 1.90                    |
| 5250 - 5350<br>UNII - 2a | 0.60            | -3.00           | -0.84                     | 2.00                    |
| 5500 - 5700<br>UNII - 2c | 2.30            | -1.80           | 0.72                      | 3.50                    |
| 5725 - 5825<br>UNII 3    | 1.70            | -2.90           | -0.02                     | 2.71                    |

| Frequency Range (MHz)    | Cable Loss     |                |
|--------------------------|----------------|----------------|
|                          | Antenna 6 (dB) | Antenna 5 (dB) |
| 5150 - 5250<br>UNII - 1  | -0.40          | -2.30          |
| 5250 - 5350<br>UNII - 2a | -0.39          | -2.36          |
| 5500 - 5700<br>UNII - 2c | -0.40          | -2.40          |
| 5725 - 5825<br>UNII 3    | -0.41          | -2.39          |

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

### 6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was Luck23A256.

## 6.4. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

### 5.2 GHz BAND

| Frequency Range (MHz)    | Mode                           | Output Power (dBm)                 | Output Power (mW) |
|--------------------------|--------------------------------|------------------------------------|-------------------|
| <b>5.2 GHz band, 1TX</b> |                                |                                    |                   |
| 5180-5240                | 802.11a                        | Covered by 802.11n HT20 1TX        |                   |
| 5180-5240                | 802.11n HT20                   | 19.47                              | 88.51             |
| 5190-5230                | 802.11n HT40                   | 19.43                              | 87.70             |
| 5180-5240                | 802.11ac VHT20                 | Covered by 802.11n HT20 1TX        |                   |
| 5190-5230                | 802.11ac VHT40                 | Covered by 802.11n HT40 1TX        |                   |
| 5210                     | 802.11ac VHT80                 | 17.46                              | 55.72             |
| 5250                     | 802.11ac VHT160                | 16.41                              | 43.75             |
| 5180-5240                | 802.11be EHT20 SU              | 19.47                              | 88.51             |
| 5180-5240                | 802.11be EHT20 Partial RU      | 12.19                              | 16.56             |
| 5190-5230                | 802.11be EHT40 SU              | 19.47                              | 88.51             |
| 5190-5230                | 802.11be EHT40 Partial RU      | 19.45                              | 88.10             |
| 5210                     | 802.11be EHT80 SU              | 16.43                              | 43.95             |
| 5210                     | 802.11be EHT80 Partial RU      | 18.90                              | 77.62             |
| 5250                     | 802.11be EHT160 SU             | 16.40                              | 43.65             |
| 5250                     | 802.11be EHT160 Partial RU     | 18.97                              | 78.89             |
| <b>5.2 GHz band, 2TX</b> |                                |                                    |                   |
| 5180-5240                | 802.11n HT20 CDD               | 21.16                              | 130.62            |
| 5180-5240                | 802.11n HT20 SDM/STBC          | Covered by 802.11n HT20 2TX CDD    |                   |
| 5190-5230                | 802.11n HT40 CDD               | 22.45                              | 175.79            |
| 5190-5230                | 802.11n HT40 SDM/STBC          | Covered by 802.11n HT40 2TX CDD    |                   |
| 5180-5240                | 802.11ac VHT20 SDM/STBC/CDD    | Covered by 802.11n HT20 2TX CDD    |                   |
| 5190-5230                | 802.11ac VHT40 SDM/STBC/CDD    | Covered by 802.11n HT40 2TX CDD    |                   |
| 5210                     | 802.11ac VHT80 CDD             | 18.44                              | 69.82             |
| 5210                     | 802.11ac VHT80 SDM/STBC        | Covered by 802.11ac VHT80 2TX CDD  |                   |
| 5250                     | 802.11ac VHT160 CDD            | 18.46                              | 70.15             |
| 5250                     | 802.11ac VHT160 SDM/STBC       | Covered by 802.11ac VHT160 2TX CDD |                   |
| 5180-5240                | 802.11be EHT20 SU CDD          | 21.27                              | 133.97            |
| 5180-5240                | 802.11be EHT20 Partial RU CDD  | 12.06                              | 16.07             |
| 5180-5240                | 802.11be EHT20 SDM             | Covered by 802.11be EHT20 2TX CDD  |                   |
| 5190-5230                | 802.11be EHT40 SU CDD          | 22.45                              | 175.79            |
| 5190-5230                | 802.11be EHT40 Partial RU CDD  | 20.94                              | 124.17            |
| 5190-5230                | 802.11be EHT40 SDM             | Covered by 802.11be EHT40 2TX CDD  |                   |
| 5210                     | 802.11be EHT80 SU CDD          | 18.45                              | 69.98             |
| 5210                     | 802.11be EHT80 Partial RU CDD  | 19.92                              | 98.17             |
| 5210                     | 802.11be EHT80 SDM             | Covered by 802.11be EHT80 2TX CDD  |                   |
| 5250                     | 802.11be EHT160 SU CDD         | 17.94                              | 62.23             |
| 5250                     | 802.11be EHT160 Partial RU CDD | 19.90                              | 97.72             |
| 5250                     | 802.11be EHT160 SDM            | Covered by 802.11be EHT80 2TX CDD  |                   |

**5.3 GHz BAND**

| Frequency Range (MHz)    | Mode                           | Output Power (dBm)                 | Output Power (mW) |
|--------------------------|--------------------------------|------------------------------------|-------------------|
| <b>5.3 GHz band, 1TX</b> |                                |                                    |                   |
| 5260 - 5320              | 802.11a                        | Covered by 802.11n HT20 1TX        |                   |
| 5260 - 5320              | 802.11n HT20                   | 19.46                              | 88.31             |
| 5270 - 5310              | 802.11n HT40                   | 19.47                              | 88.51             |
| 5260 - 5320              | 802.11ac VHT20                 | Covered by 802.11n HT20 1TX        |                   |
| 5270 - 5310              | 802.11ac VHT40                 | Covered by 802.11n HT40 1TX        |                   |
| 5290                     | 802.11ac VHT80                 | 16.97                              | 49.77             |
| 5250                     | 802.11ac VHT160                | 16.41                              | 43.75             |
| 5260 - 5320              | 802.11be EHT20 SU              | 19.49                              | 88.92             |
| 5260 - 5320              | 802.11be EHT20 Partial RU      | 17.97                              | 62.66             |
| 5270 - 5310              | 802.11be EHT40 SU              | 19.47                              | 88.51             |
| 5270 - 5310              | 802.11be EHT40 Partial RU      | 17.90                              | 61.66             |
| 5290                     | 802.11be EHT80 SU              | 16.43                              | 43.95             |
| 5290                     | 802.11be EHT80 Partial RU      | 16.13                              | 41.02             |
| 5250                     | 802.11be EHT160 SU             | 16.40                              | 43.65             |
| 5250                     | 802.11be EHT160 Partial RU     | 18.97                              | 78.89             |
| <b>5.3 GHz band, 2TX</b> |                                |                                    |                   |
| 5260 - 5320              | 802.11n HT20 CDD               | 21.05                              | 127.35            |
| 5260 - 5320              | 802.11n HT20 SDM/STBC          | Covered by 802.11n HT20 2TX CDD    |                   |
| 5270 - 5310              | 802.11n HT40 CDD               | 22.45                              | 175.79            |
| 5270 - 5310              | 802.11n HT40 SDM/STBC          | Covered by 802.11n HT40 2TX CDD    |                   |
| 5260 - 5320              | 802.11ac VHT20 SDM/STBC/CDD    | Covered by 802.11n HT20 2TX CDD    |                   |
| 5270 - 5310              | 802.11ac VHT40 SDM/STBC/CDD    | Covered by 802.11n HT40 2TX CDD    |                   |
| 5290                     | 802.11ac VHT80 CDD             | 18.40                              | 69.18             |
| 5290                     | 802.11ac VHT80 SDM/STBC        | Covered by 802.11ac VHT80 2TX CDD  |                   |
| 5250                     | 802.11ac VHT160 CDD            | 18.46                              | 70.15             |
| 5250                     | 802.11ac VHT160 SDM/STBC       | Covered by 802.11ac VHT160 2TX CDD |                   |
| 5260 - 5320              | 802.11be EHT20 SU CDD          | 21.23                              | 132.74            |
| 5260 - 5320              | 802.11be EHT20 Partial RU CDD  | 17.90                              | 61.66             |
| 5260 - 5320              | 802.11be EHT20 SDM             | Covered by 802.11be EHT20 2TX CDD  |                   |
| 5270 - 5310              | 802.11be EHT40 SU CDD          | 22.39                              | 173.38            |
| 5270 - 5310              | 802.11be EHT40 Partial RU CDD  | 17.82                              | 60.53             |
| 5270 - 5310              | 802.11be EHT40 SDM             | Covered by 802.11be EHT40 2TX CDD  |                   |
| 5290                     | 802.11be EHT80 SU CDD          | 17.44                              | 55.46             |
| 5290                     | 802.11be EHT80 Partial RU CDD  | 18.39                              | 69.02             |
| 5290                     | 802.11be EHT80 SDM             | Covered by 802.11be EHT80 2TX CDD  |                   |
| 5250                     | 802.11be EHT160 SU CDD         | 17.94                              | 62.23             |
| 5250                     | 802.11be EHT160 Partial RU CDD | 19.90                              | 97.72             |
| 5250                     | 802.11be EHT160 SDM            | Covered by 802.11be EHT160 2TX CDD |                   |

**5.6 GHz BAND**

| Frequency Range (MHz)    | Mode                           | Output Power (dBm)                 | Output Power (mW) |
|--------------------------|--------------------------------|------------------------------------|-------------------|
| <b>5.6 GHz band, 1TX</b> |                                |                                    |                   |
| 5500-5720                | 802.11a                        | Covered by 802.11n HT20 1TX        |                   |
| 5500-5720                | 802.11n HT20                   | 19.47                              | 88.51             |
| 5510-5710                | 802.11n HT40                   | 19.44                              | 87.90             |
| 5500-5720                | 802.11ac VHT20                 | Covered by 802.11n HT20 1TX        |                   |
| 5510-5710                | 802.11ac VHT40                 | Covered by 802.11n HT40 1TX        |                   |
| 5530-5690                | 802.11ac VHT80                 | 19.41                              | 87.30             |
| 5570                     | 802.11ac VHT160                | 15.62                              | 36.48             |
| 5500-5720                | 802.11be EHT20 SU              | 19.49                              | 88.92             |
| 5500-5720                | 802.11be EHT20 Partial RU      | 18.07                              | 64.12             |
| 5510-5710                | 802.11be EHT40 SU              | 19.46                              | 88.31             |
| 5530-5690                | 802.11be EHT40 Partial RU      | 17.93                              | 62.09             |
| 5530-5690                | 802.11be EHT80 SU              | 19.46                              | 88.31             |
| 5530-5690                | 802.11be EHT80 Partial RU      | 19.49                              | 88.92             |
| 5570                     | 802.11be EHT160 SU             | 15.38                              | 34.51             |
| 5570                     | 802.11be EHT160 Partial RU     | 16.37                              | 43.35             |
| <b>5.6 GHz band, 2TX</b> |                                |                                    |                   |
| 5500-5720                | 802.11n HT20 CDD               | 21.13                              | 129.72            |
| 5500-5720                | 802.11n HT20 SDM/STBC          | Covered by 802.11n HT40 2TX CDD    |                   |
| 5510-5710                | 802.11n HT40 CDD               | 22.49                              | 177.42            |
| 5510-5710                | 802.11n HT40 SDM/STBC          | Covered by 802.11n HT40 2TX CDD    |                   |
| 5500-5720                | 802.11ac VHT20 SDM/STBC/CDD    | Covered by 802.11n HT20 2TX CDD    |                   |
| 5510-5710                | 802.11ac VHT40 SDM/STBC/CDD    | Covered by 802.11n HT40 2TX CDD    |                   |
| 5530-5690                | 802.11ac VHT80 CDD             | 22.45                              | 175.79            |
| 5530-5690                | 802.11ac VHT80 SDM/STBC        | Covered by 802.11ac VHT80 2TX CDD  |                   |
| 5570                     | 802.11ac VHT160 CDD            | 17.11                              | 51.40             |
| 5570                     | 802.11ac VHT160 SDM/STBC       | Covered by 802.11ac VHT160 2TX CDD |                   |
| 5500-5720                | 802.11be EHT20 SU CDD          | 21.18                              | 131.22            |
| 5500-5720                | 802.11be EHT20 Partial RU CDD  | 17.96                              | 62.52             |
| 5500-5720                | 802.11be EHT20 SDM             | Covered by 802.11be EHT20 2TX CDD  |                   |
| 5510-5710                | 802.11be EHT40 SU CDD          | 22.41                              | 174.18            |
| 5510-5710                | 802.11be EHT40 Partial RU CDD  | 17.89                              | 61.52             |
| 5510-5710                | 802.11be EHT40 SDM             | Covered by 802.11be EHT40 2TX CDD  |                   |
| 5530-5690                | 802.11be EHT80 SU CDD          | 22.45                              | 175.79            |
| 5530-5690                | 802.11be EHT80 Partial RU CDD  | 22.46                              | 176.20            |
| 5530-5690                | 802.11be EHT80 SDM             | Covered by 802.11be EHT80 2TX CDD  |                   |
| 5570                     | 802.11be EHT160 SU CDD         | 16.86                              | 48.53             |
| 5570                     | 802.11be EHT160 Partial RU CDD | 18.44                              | 69.82             |
| 5570                     | 802.11be EHT160 SDM            | Covered by 802.11be EHT160 2TX CDD |                   |

**5.8 GHz BAND**

| Frequency Range (MHz)    | Mode                          | Output Power (dBm)                | Output Power (mW) |
|--------------------------|-------------------------------|-----------------------------------|-------------------|
| <b>5.8 GHz band, 1TX</b> |                               |                                   |                   |
| 5745-5825                | 802.11a                       | Covered by 802.11n HT20 1TX       |                   |
| 5745-5825                | 802.11n HT20                  | 19.93                             | 98.40             |
| 5755-5795                | 802.11n HT40                  | 19.94                             | 98.63             |
| 5745-5825                | 802.11ac VHT20                | Covered by 802.11n HT20 1TX       |                   |
| 5755-5795                | 802.11ac VHT40                | Covered by 802.11n HT40 1TX       |                   |
| 5775                     | 802.11ac VHT80                | 19.86                             | 96.83             |
| 5745-5825                | 802.11be EHT20 SU             | 19.93                             | 98.40             |
| 5745-5825                | 802.11be EHT20 Partial RU     | 19.96                             | 99.08             |
| 5755-5795                | 802.11be EHT40 SU             | 19.95                             | 98.86             |
| 5755-5795                | 802.11be EHT40 Partial RU     | 19.91                             | 97.95             |
| 5775                     | 802.11be EHT80 SU             | 19.91                             | 97.95             |
| 5775                     | 802.11be EHT80 Partial RU     | 19.90                             | 97.72             |
| <b>5.8 GHz band, 2TX</b> |                               |                                   |                   |
| 5745-5825                | 802.11n HT20 CDD              | 22.94                             | 196.79            |
| 5745-5825                | 802.11n HT20 SDM/STBC         | Covered by 802.11n HT40 2TX CDD   |                   |
| 5755-5795                | 802.11n HT40 CDD              | 22.90                             | 194.98            |
| 5755-5795                | 802.11n HT40 SDM/STBC         | Covered by 802.11n HT40 2TX CDD   |                   |
| 5745-5825                | 802.11ac VHT20 STM/STBC/CDD   | Covered by 802.11n HT20 2TX CDD   |                   |
| 5755-5795                | 802.11ac VHT40 STM/STBC/CDD   | Covered by 802.11n HT40 2TX CDD   |                   |
| 5775                     | 802.11ac VHT80 CDD            | 22.92                             | 195.88            |
| 5775                     | 802.11ac VHT80 SDM/STBC       | Covered by 802.11ac VHT80 2TX CDD |                   |
| 5745-5825                | 802.11be EHT20 SU CDD         | 22.97                             | 198.15            |
| 5745-5825                | 802.11be EHT20 Partial RU CDD | 22.95                             | 197.24            |
| 5745-5825                | 802.11be EHT20 SDM            | Covered by 802.11be EHT20 2TX CDD |                   |
| 5755-5795                | 802.11be EHT40 SU CDD         | 22.86                             | 193.20            |
| 5755-5795                | 802.11be EHT40 Partial RU CDD | 22.91                             | 195.43            |
| 5755-5795                | 802.11be EHT40 SDM            | Covered by 802.11be EHT40 2TX CDD |                   |
| 5775                     | 802.11be EHT80 SU CDD         | 22.89                             | 194.54            |
| 5775                     | 802.11be EHT80 Partial RU CDD | 22.89                             | 194.54            |
| 5775                     | 802.11be EHT80 SDM            | Covered by 802.11be EHT80 2TX CDD |                   |

## 6.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z on ANT 6, ANT 5 and 2TX. It was determined that Z (Portrait) orientation was the worst-case orientation for ANT 6, Y (Landscape) ANT 5, and Z (Portrait) for 2TX.

802.11n 2TX and 802.11be 2TX modes were used to perform on radiated harmonic spurious final test to cover all SISO modes. Max power was tuned to maximum based on among all the modes. For testing purposes, radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-40GHz, and power line conducted emissions were performed with the EUT set at the 2TX CDD mode among the CDD/SDM modes with power setting equal or higher than FCC conducted SISO modes as worst-case scenario.

For Radiated band edge test all test modes have been investigated with power setting equal or higher than FCC conducted SISO modes as worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

Simultaneous transmission with Bluetooth was investigated, and no noticeable emission was found.

With same power on Full RU and SU higher data rate, investigation were performed on both band edge to determine the worst case, and SU mode was determined to be the worst case.

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. For radiated band edge, the following are the worst-case data rates set for test:

802.11n HT20 mode: MCS7

802.11n HT40 mode: MCS7

802.11ac VHT80 mode: MCS9

802.11ac VHT160 mode MCS9

802.11be: EHT20/ EHT40/ EHT80/EHT160 RU, MRU, and SU mode: MCS11

802.11a and 802.11ac are covered by 802.11n because the modulation and bandwidth of 802.11a, 802.11ac, and 802.11n modes are similar, and the target power of 802.11a and 802.11ac modes are equal to or lower than that of 802.11n mode. The modulation and bandwidth of 802.11ax and 802.11be modes are similar at 20 MHz (40 MHz, 80 MHz, 160 MHz), and the target power of 802.11ax mode is equal to or lower than that of 802.11be mode, and the data rate of 802.11be mode is higher than 802.11ax mode, so 802.11be mode is performed in the test to represent worst-case reporting.

The target power of SDM mode is equal to or lower than that of CDD mode. CDD correlated antenna gain is also worst-case, so CDD mode is performed in the test to represent worst-case reporting.

40MHz/80MHz/160MHz RU242T are covered by 20MHz SU/RU242T and  
 40MHz/80MHz/160MHz RU484T are covered by 40MHz SU/RU because they have the same  
 tune up. Only those indexes with different tune up are set for tests.

After the investigation, the worst case of power and PSD modes selecting for test are as table  
 shown below.

| BW<br>(MHz) | Tone<br>(T)     | RU Index                                   | RU Index<br>(Chipset Support only)                                         | Worst Case Tone<br>(UNII-1) |                | Worst Case Tone<br>(UNII-2A) |                | Worst Case Tone<br>(UNII-2C) |                | Worst Case Tone<br>(UNII-3) |                |
|-------------|-----------------|--------------------------------------------|----------------------------------------------------------------------------|-----------------------------|----------------|------------------------------|----------------|------------------------------|----------------|-----------------------------|----------------|
|             |                 |                                            |                                                                            | Highest<br>Power            | Highest<br>PSD | Highest<br>Power             | Highest<br>PSD | Highest<br>Power             | Highest<br>PSD | Highest<br>Power            | Highest<br>PSD |
| 20          | 26              | 0 ~ 8                                      | 0 ~ 8                                                                      |                             | x              |                              |                |                              |                |                             | x              |
|             | 52              | 37 ~ 40                                    | 37 ~ 40                                                                    |                             |                |                              |                |                              |                |                             |                |
|             | 52 + 26         | 70 ~ 81                                    | 70, 71, 72                                                                 |                             |                |                              |                |                              |                |                             |                |
|             | 106             | 53 ~ 54                                    | 53 ~ 54                                                                    |                             |                |                              | x              |                              | x              |                             |                |
|             | 106 + 26        | 82 ~ 89                                    | 82, 83                                                                     |                             |                |                              |                |                              |                |                             |                |
|             | 242             | 61                                         | 61                                                                         |                             |                |                              |                |                              |                |                             |                |
| 40          | SU              | --                                         | --                                                                         | x                           |                | x                            |                | x                            |                | x                           |                |
|             | 26              | 0 ~ 17                                     | 0 ~ 17                                                                     |                             |                |                              |                |                              |                |                             |                |
|             | 52              | 37 ~ 44                                    | 37 ~ 44                                                                    |                             |                |                              |                |                              |                |                             |                |
|             | 52 + 26         | 70 ~ 81                                    | 70, 72, 73, 74, 75                                                         |                             | x              |                              |                |                              |                |                             |                |
|             | 106             | 53 ~ 56                                    | 53 ~ 56                                                                    |                             |                |                              | x              |                              | x              |                             | x              |
|             | 106 + 26        | 82 ~ 89                                    | 82, 83, 84, 85                                                             |                             |                |                              |                |                              |                |                             |                |
| 80          | 242             | 61 ~ 61                                    | 61 ~ 62                                                                    | x                           |                |                              |                |                              |                |                             |                |
|             | 484             | 65                                         | 65                                                                         |                             |                |                              |                |                              |                |                             |                |
|             | SU              | --                                         | --                                                                         | x                           |                | x                            |                | x                            |                | x                           |                |
|             | 26              | 0 ~ 36                                     | 0 ~ 36                                                                     |                             |                |                              |                |                              |                |                             |                |
|             | 52              | 37 ~ 52                                    | 37 ~ 52                                                                    |                             | x              |                              |                |                              |                |                             |                |
|             | 52 + 26         | 70 ~ 81                                    | 71, 72, 73, 74, 77, 78, 79, 80                                             |                             |                |                              |                |                              |                |                             |                |
| 160         | 106             | 53 ~ 60                                    | 53 ~ 60                                                                    |                             |                |                              | x              |                              | x              |                             | x              |
|             | 106 + 26        | 82 ~ 89                                    | 82, 85, 86, 89                                                             |                             |                |                              |                |                              |                |                             |                |
|             | 242             | 61 ~ 64                                    | 61 ~ 64                                                                    | x                           |                |                              |                |                              |                |                             |                |
|             | 484             | 65 ~ 66                                    | 65 ~ 66                                                                    |                             |                | x                            |                | x                            |                | x                           |                |
|             | 484 + 242       | 90 ~ 93                                    | 90, 91, 92, 93                                                             |                             |                |                              |                |                              |                |                             |                |
|             | 996             | 67                                         | 67                                                                         |                             |                |                              |                |                              |                |                             |                |
| 160         | SU              | --                                         | --                                                                         | x                           |                | x                            |                | x                            |                | x                           |                |
|             | 26              | 0 ~ 536                                    | 0 ~ 536                                                                    |                             |                |                              |                |                              |                |                             |                |
|             | 52              | 37 ~ 552                                   | 37 ~ 552                                                                   |                             | x              |                              | x              |                              | x              |                             |                |
|             | 52 + 26         | 70 ~ 581                                   | sb0: 71, 72, 73, 74, 77, 78, 79, 80<br>sb1: 71, 72, 73, 74, 77, 78, 79, 80 |                             |                |                              |                |                              |                |                             |                |
|             | 106             | 53 ~ 560                                   | 53 ~ 560                                                                   |                             |                |                              |                |                              |                |                             |                |
|             | 106 + 26        | 82 ~ 89                                    | 82, 85, 86, 89                                                             |                             |                |                              |                |                              |                |                             |                |
| 160         | 242             | 61 ~ 564                                   | 61 ~ 564                                                                   | x                           |                | x                            |                | x                            |                |                             |                |
|             | 484             | 65 ~ 566                                   | 65 ~ 566                                                                   |                             |                |                              |                |                              |                |                             |                |
|             | 484 + 242       | 90 ~ 593                                   | sb0: 90, 91, 92, 93<br>sb1: 90, 91, 92, 93                                 |                             |                |                              |                |                              |                |                             |                |
|             | 996             | 67 ~ 567                                   | 67 ~ 567                                                                   |                             |                |                              |                |                              |                |                             |                |
|             | 996 + 484       | sb0: 94, 95<br>sb1: 94, 95                 | sb0: 94, 95<br>sb1: 94, 95                                                 |                             |                |                              |                |                              |                |                             |                |
|             | 996 + 484 + 242 | sb0: 96, 97, 98, 99<br>sb1: 96, 97, 98, 99 | sb0: 96, 97, 98, 99<br>sb1: 96, 97, 98, 99                                 |                             |                |                              |                |                              |                |                             |                |
| 160         | 996x2           | 568                                        | 568                                                                        |                             |                |                              |                |                              |                |                             |                |
|             | SU              | --                                         | --                                                                         | x                           |                | x                            |                | x                            |                |                             |                |

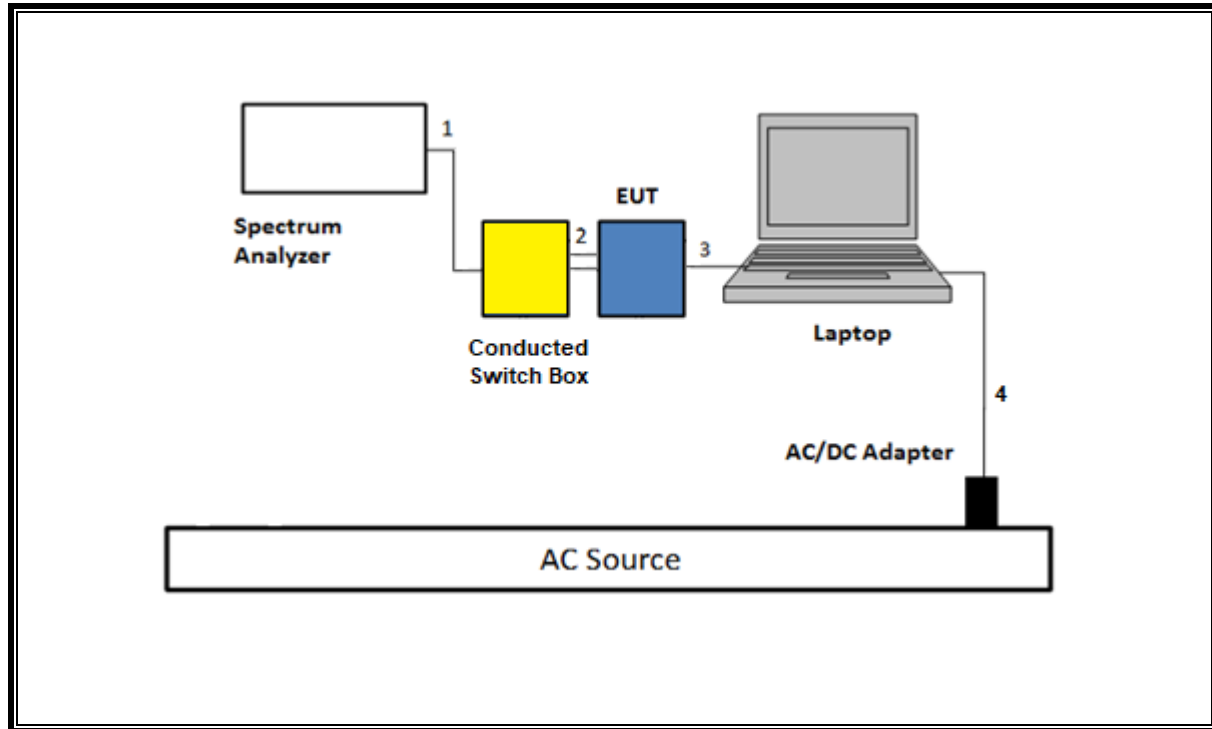
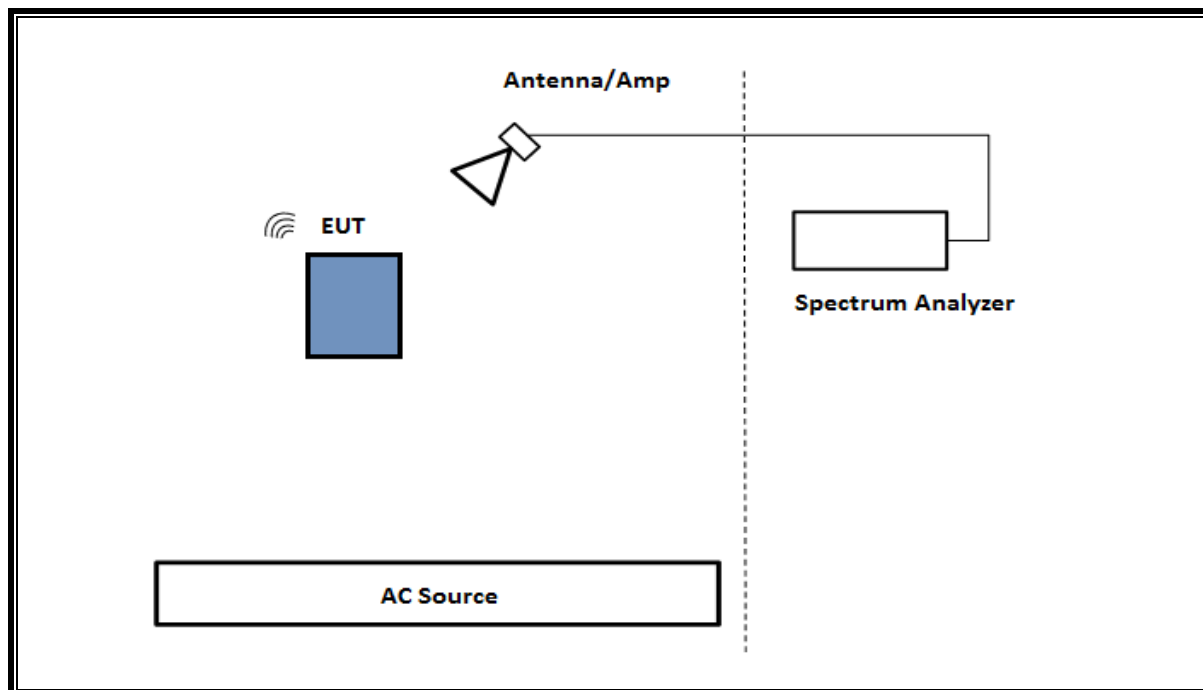
## 6.6. DESCRIPTION OF TEST SETUP

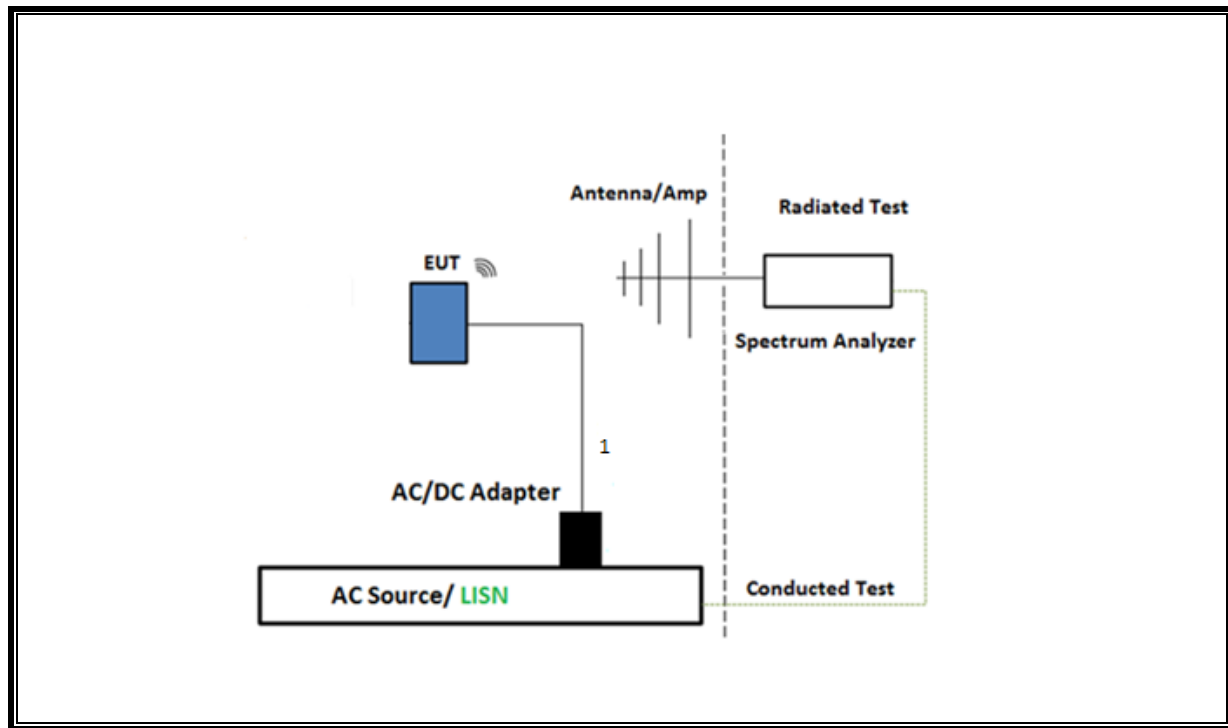
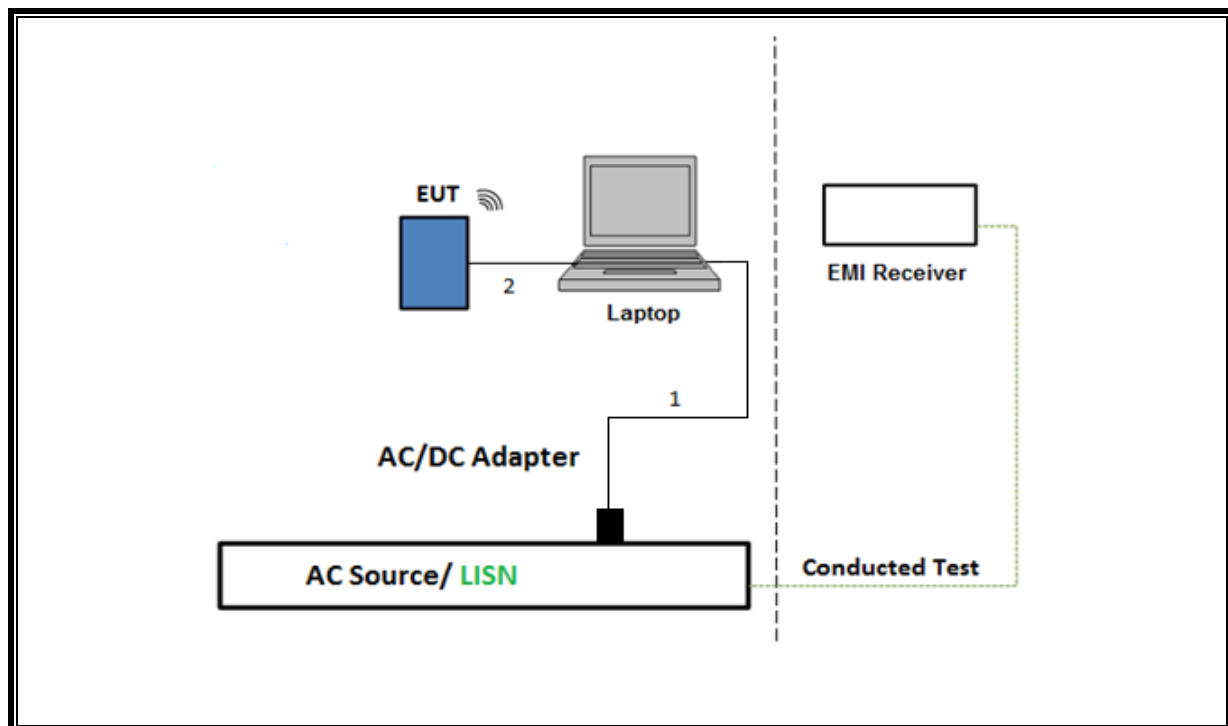
| SUPPORT TEST EQUIPMENT |              |       |                   |             |
|------------------------|--------------|-------|-------------------|-------------|
| Description            | Manufacturer | Model | Serial Number     | FCC ID/ DoC |
| Laptop                 | Apple        | A2338 | FVFDRD40Q05F      | BCGA2338    |
| Laptop AC/DC adapter   | Apple        | A1718 | C4H749207RMGN8RAT | DoC         |
| EUT AC/DC adapter      | Apple        | A2305 | F162163404UPM0685 | DoC         |
| Conducted Switch Box   | UL           | CSB   | 254476            | N/A         |

| I/O CABLES (RF CONDUCTED TEST)                      |         |                      |                |            |                  |                      |
|-----------------------------------------------------|---------|----------------------|----------------|------------|------------------|----------------------|
| Cable No.                                           | Port    | # of Identical Ports | Connector Type | Cable Type | Cable Length (m) | Remarks              |
| 1                                                   | SMA     | 1                    | SMA            | Shielded   | 0.20             | To spectrum Analyzer |
| 2                                                   | Antenna | 2                    | SMA            | Shielded   | 0.20             | EUT to Switchbox     |
| 3                                                   | USB-C   | 1                    | USB-C          | Shielded   | 1.00             | N/A                  |
| 4                                                   | DC      | 1                    | DC             | Shielded   | 2.00             | N/A                  |
| I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST) |         |                      |                |            |                  |                      |
| Cable No.                                           | Port    | # of Identical Ports | Connector Type | Cable Type | Cable Length (m) | Remarks              |
| 1                                                   | DC      | 1                    | DC             | Shielded   | 2.00             | N/A                  |
| 2                                                   | USB     | 1                    | USB-C          | Shielded   | 1.00             | N/A                  |

### TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

**SETUP DIAGRAM FOR CONDUCTED TESTS****SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz**

**SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST****TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**

## 7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10 Section 6.4

## 8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

| TEST EQUIPMENT LIST                                |                           |            |        |             |
|----------------------------------------------------|---------------------------|------------|--------|-------------|
| Description                                        | Manufacturer              | Model      | ID Num | Cal Due     |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 85214  | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 125178 | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 85201  | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A-544 | 90238  | 2025-07-31  |
| Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer  | Keysight Technologies Inc | N9030A     | 80400  | 2026-01-31  |
| Spectrum Analyzer, PXA, 2Hz to 26.5GHz             | Keysight Technologies Inc | N9030B     | 259080 | 2026-04-30  |
| Spectrum Analyzer, PXA, 2Hz to 26.5GHz             | Keysight Technologies Inc | N9030B     | 263108 | 2026-04-30  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 125179 | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 80397  | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 85212  | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 85313  | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 81188  | 2026-05-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A-544 | 87738  | 2026-01-31  |
| PXA Signal Analyzer 2Hz to 44GHz                   | Keysight Technologies Inc | N9030B     | 231739 | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 80398  | 2026-01-31  |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight Technologies Inc | N9030A     | 80396  | 2026-01-31  |
| RF Device, Switch                                  | UL                        | CSB        | 254476 | 2025-10-31  |
| RF Device, Switch                                  | UL                        | CSB        | 245781 | 2026-04-30  |
| RF Device, Switch                                  | UL                        | CSB        | 245262 | 2026-04-30  |
| RF Device, Switch                                  | UL                        | CSB        | 235779 | 2026-06-30  |
| RF Device, Switch                                  | UL                        | CSB        | 245774 | 2026-06-30  |
| RF Device, Switch                                  | UL                        | CSB        | 235778 | *2025-6-03  |
| RF Device, Switch                                  | UL                        | CSB        | 208281 | *2025-06-02 |
| RF Device, Switch                                  | UL                        | CSB        | 245777 | 2026-06-30  |
| RF Device, Switch                                  | UL                        | CSB        | 245782 | 2025-07-31  |
| RF Device, Switch                                  | UL                        | CSB        | 220322 | 2025-10-31  |
| RF Device, Switch                                  | UL                        | CSB        | 245775 | 2026-06-30  |
| RF Device, Switch                                  | UL                        | CSB        | 235783 | *2025-06-16 |
| RF Device, Switch                                  | UL                        | CSB        | 245783 | *2025-06-02 |
| RF Device, Switch                                  | UL                        | CSB        | 262287 | *2025-04-10 |
| RF Device, Switch                                  | UL                        | CSB        | 246773 | 2026-06-30  |
| EMI Test Receiver                                  | Rohde & Schwarz           | ESW44      | 225683 | 2026-2-28   |
| Antenna, Horn 1-18GHz                              | ETS-Lindgren              | 3117       | 226674 | 2027-3-31   |
| Power Sensor, P - series, 50MHz to 18GHz, Wideband | Keysight Technologies Inc | N1921A     | 257703 | 2026-03-31  |
| Power Meter, P-series single channel               | Keysight Technologies Inc | N1911A     | 90756  | 2026-01-31  |

| TEST EQUIPMENT LIST                     |                   |                 |            |             |
|-----------------------------------------|-------------------|-----------------|------------|-------------|
| Description                             | Manufacturer      | Model           | ID Num     | Cal Due     |
| RF Filter Box, 1-18GHz                  | UL-FR1            | RATS 1.0        | 250156     | 2025-10-31  |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | 191428     | 2026-2-28   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 84796      | 2026-10-31  |
| RF Filter Box, 1-18GHz                  | UL-FR1            | Frankenstein    | 230878     | 2026-5-31   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 226673     | 2026-2-28   |
| RF Filter Box, 1-18GHz                  | UL-FR1            | Frankenstein    | 231874     | 2026-6-30   |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | PRE0179372 | 2026-2-28   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 84797      | 2026-10-31  |
| RF Filter Box, 1-18GHz                  | UL-FR1            | UL RATS 2.0     | 225079     | 2026-5-31   |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | 235670     | 2026-2-28   |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | 201497     | 2026-2-28   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 222740     | 2026-9-30   |
| RF Filter Box, 1-18GHz                  | UL-FR1            | Silver Box      | 171389     | 2026-3-31   |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | 245268     | 2026-2-28   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 80707      | 2026-6-30   |
| RF Filter Box, 1-18GHz                  | UL-FR1            | Silver Box      | PRE0181597 | 2026-3-31   |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | 169936     | 2026-2-28   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 200897     | 2026-4-30   |
| RF Filter Box, 1-18GHz                  | UL-FR1            | Frankenstein    | 235614     | 2026-1-31   |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | 223461     | 2026-2-28   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 222741     | 2025-9-30   |
| RF Filter Box, 1-18GHz                  | UL-FR1            | Frankenstein    | 217521     | 2025-8-31   |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | 201499     | 2026-2-28   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 80430      | 2025-9-30   |
| RF Filter Box, 1-18GHz                  | UL-FR1            | Frankenstein 2A | 224478     | 2026-1-31   |
| EMI Test Receiver                       | Rohde & Schwarz   | ESW44           | 223460     | 2026-2-28   |
| Antenna, Horn 1-18GHz                   | ETS-Lindgren      | 3117            | 80403      | 2026-8-31   |
| RF Filter Box, 1-18GHz                  | UL-FR1            | RATS 2.0        | 236726     | 2025-10-31  |
| Antenna, Passive Loop<br>100KHz - 30MHz | ELECTRO-METRICS   | EM-6872         | 170016     | 2026-11-30  |
| Antenna, Passive Loop<br>30Hz - 1MHz    | ELECTRO-METRICS   | EM-6871         | 170014     | 2026-11-30  |
| Amplifier 9 KHz - 1 GHz                 | SONOMA INSTRUMENT | 310N            | 230310     | *2025-05-16 |

| TEST EQUIPMENT LIST                           |                       |                |        |            |
|-----------------------------------------------|-----------------------|----------------|--------|------------|
| Description                                   | Manufacturer          | Model          | ID Num | Cal Due    |
| EMI Test Receiver                             | Rohde & Schwarz       | ESW44          | 223459 | 2026-2-27  |
| Antenna, Horn 1-18GHz                         | ETS-Lindgren          | 3117           | 226672 | 2026-2-29  |
| RF Filter Box, 1-18GHz                        | UL-FR1                | Frankenstein   | 231876 | 2026-4-30  |
| EMI Test Receiver                             | Rohde & Schwarz       | ESW44          | 201501 | 2026-2-28  |
| Antenna, Horn 1-18GHz                         | ETS-Lindgren          | 3117           | 230300 | 2027-3-31  |
| RF Filter Box, 1-18GHz                        | UL-FR1                | RATS 2.0       | 225474 | 2026-5-31  |
| EMI Test Receiver                             | Rohde & Schwarz       | ESW44          | 201498 | 2026-2-28  |
| Antenna, Horn 1-18GHz                         | ETS-Lindgren          | 3117           | 81887  | 2027-3-31  |
| RF Filter Box, 1-18GHz                        | UL-FR1                | RATS 2.0       | 225575 | 2025-11-30 |
| EMI Test Receiver                             | Rohde & Schwarz       | ESW44          | 226078 | 2026-2-28  |
| Antenna, Horn 1-18GHz                         | ETS-Lindgren          | 3117           | 80404  | 2025-8-31  |
| RF Filter Box, 1-18GHz                        | UL-FR1                | RATS 2.0       | 226781 | 2026-5-31  |
| Amplifier                                     | Sonoma Instrument Co. | 310 N          | 79584  | 2026-2-28  |
| EMI Test Receiver                             | Rohde & Schwarz       | ESW44          | 235266 | 2026-2-28  |
| Antenna, Broadband Hybrid, 30MHz to 3GHz      | Sunol Sciences Corp.  | JB3            | 202301 | 2027-2-28  |
| Link File, @3m, 9kHz-1000MHz Hybrid Path Loss | UL-FR1                | Port 0 Factors | 212011 | 2026-2-28  |
| Antenna, Horn 18 to 26.5GHz                   | A.R.A.                | MWH-1826/B     | 81140  | 2026-8-31  |
| RF Device, Active, Amplifier                  | AMPLICAL              | AMP18G26.5-60  | 236106 | *2025-4-18 |
| Antenna, Horn 26.5 to 40GHz                   | A.R.A.                | MWH-2640/B     | 230656 | 2026-8-31  |
| RF Device, Active, Amplifier                  | AMPLICAL              | AMP26G40-60    | 236107 | *2025-4-17 |

| AC Line Conducted                        |                                  |                                      |                      |            |
|------------------------------------------|----------------------------------|--------------------------------------|----------------------|------------|
| Description                              | Manufacturer                     | Model                                | ID Num               | Cal Due    |
| EMI Test Receiver 9kHz-7GHz              | Rohde & Schwarz                  | ESR                                  | 171646               | 2026-02-28 |
| LISN for Conducted Emissions<br>CISPR-16 | Fischer Custom<br>Communications | FCC-LISN-<br>50/250-25-2-01-<br>480V | 175765               | 2026-01-31 |
| Transient Limiter                        | TE                               | TBFL1                                | 207996               | 2025-09-30 |
| UL AUTOMATION SOFTWARE                   |                                  |                                      |                      |            |
| Radiated Software                        | UL                               | UL EMC                               | Ver 9.5, May 1, 2023 |            |
| Conducted Software                       | UL                               | UL EMC                               | 2020.8.16            |            |
| Conducted Software                       | UL                               | Station Tool                         | Ver 7.0              |            |
| AC Line Conducted Software               | UL                               | UL EMC                               | Ver 9.5, Mar 3, 2023 |            |

\*Testing was completed before calibration due date and/or after calibration was completed.

## **9. ANTENNA PORT TEST RESULTS**

### **9.1. ON TIME AND DUTY CYCLE**

#### **LIMITS**

None; for reporting purposes only.

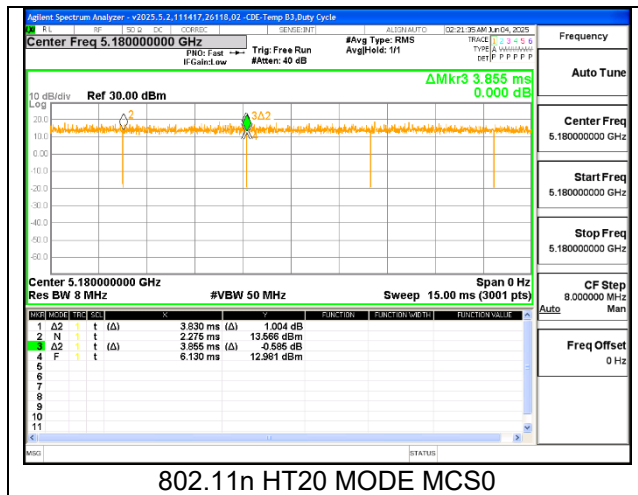
#### **PROCEDURE**

KDB 558074 Zero-Span Spectrum Analyzer Method.

#### **ON TIME AND DUTY CYCLE RESULTS**

| Mode   | Tone     | Data Rate (Mbps) | ON Time T (msec) | Period (msec) | Duty Cycle x (linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) |
|--------|----------|------------------|------------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|
| HT20   | --       | MCS0             | 3.830            | 3.855         | 0.9935                | 99.35%         | 0.00                              | 0.010                 |
|        | --       | MCS7             | 4.005            | 4.030         | 0.9938                | 99.38%         | 0.00                              | 0.010                 |
| HT40   | --       | MCS0             | 4.590            | 4.615         | 0.9946                | 99.46%         | 0.00                              | 0.010                 |
|        | --       | MCS7             | 1.948            | 1.973         | 0.9873                | 98.73%         | 0.00                              | 0.010                 |
| VHT80  | --       | MCS0             | 5.087            | 5.107         | 0.9961                | 99.61%         | 0.00                              | 0.010                 |
|        | --       | MCS9             | 2.061            | 2.085         | 0.9885                | 98.85%         | 0.00                              | 0.010                 |
| VHT160 | --       | MCS0             | 5.293            | 5.32          | 0.9949                | 99.49%         | 0.00                              | 0.010                 |
|        | --       | MCS9             | 1.052            | 1.077         | 0.9768                | 97.68%         | 0.10                              | 0.951                 |
| EHT20  | SU       | MCS0             | 4.625            | 4.65          | 0.9946                | 99.46%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 5.44             | 5.46          | 0.9963                | 99.63%         | 0.00                              | 0.010                 |
|        | 26T      | MCS0             | 2.029            | 2.067         | 0.9816                | 98.16%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
|        | 106T     | MCS0             | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
| EHT40  | SU       | MCS0             | 5.380            | 5.4           | 0.9963                | 99.63%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.98             | 3.007         | 0.9910                | 99.10%         | 0.00                              | 0.010                 |
|        | (52+26)T | MCS0             | 2.029            | 2.067         | 0.9816                | 98.16%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.029            | 2.064         | 0.9830                | 98.30%         | 0.00                              | 0.010                 |
|        | 106T     | MCS0             | 2.029            | 2.064         | 0.9830                | 98.30%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.029            | 2.064         | 0.9830                | 98.30%         | 0.00                              | 0.010                 |
|        | 242T     | MCS0             | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.005            | 2.065         | 0.9709                | 97.09%         | 0.13                              | 0.499                 |
| EHT80  | SU       | MCS0             | 5.14             | 5.16          | 0.9961                | 99.61%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 1.462            | 1.487         | 0.9832                | 98.32%         | 0.00                              | 0.010                 |
|        | 52T      | MCS0             | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
|        | 106T     | MCS0             | 2.029            | 2.067         | 0.9816                | 98.16%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
|        | 242T     | MCS0             | 2.029            | 2.064         | 0.9830                | 98.30%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.029            | 2.064         | 0.9830                | 98.30%         | 0.00                              | 0.010                 |
| EHT160 | 484T     | MCS0             | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.029            | 2.067         | 0.9816                | 98.16%         | 0.00                              | 0.010                 |
|        | SU       | MCS0             | 5.32             | 5.347         | 0.9950                | 99.50%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 0.766            | 0.791         | 0.9684                | 96.84%         | 0.14                              | 1.305                 |
|        | 52T      | MCS0             | 2.029            | 2.064         | 0.9830                | 98.30%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.027            | 2.064         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |
|        | 242T     | MCS0             | 2.028            | 2.064         | 0.9826                | 98.26%         | 0.00                              | 0.010                 |
|        |          | MCS11            | 2.03             | 2.067         | 0.9821                | 98.21%         | 0.00                              | 0.010                 |

Note: There is the same duty cycle factor on 1TX and 2TX

**DUTY CYCLE PLOTS**

## 9.2. 26 dB AND 99% BANDWIDTH

### LIMITS

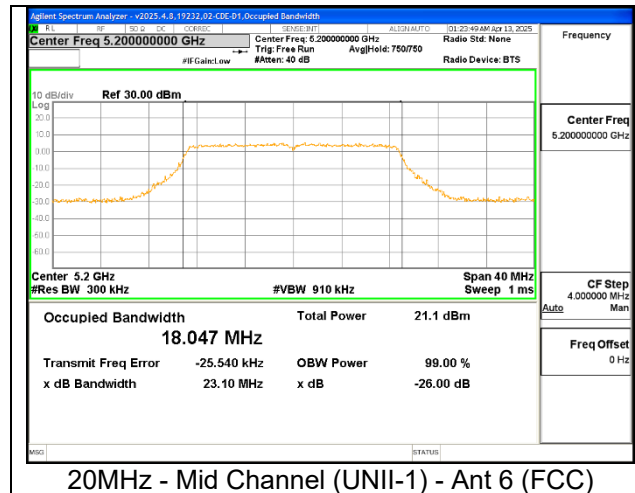
None; for reporting purposes only.

### RESULTS

|            |                                                        |              |                         |
|------------|--------------------------------------------------------|--------------|-------------------------|
| <b>ID:</b> | 33300, 26118, 19232,<br>111250, 28867, 32181,<br>28161 | <b>Date:</b> | 2025-04-01 – 2025-06-27 |
|------------|--------------------------------------------------------|--------------|-------------------------|

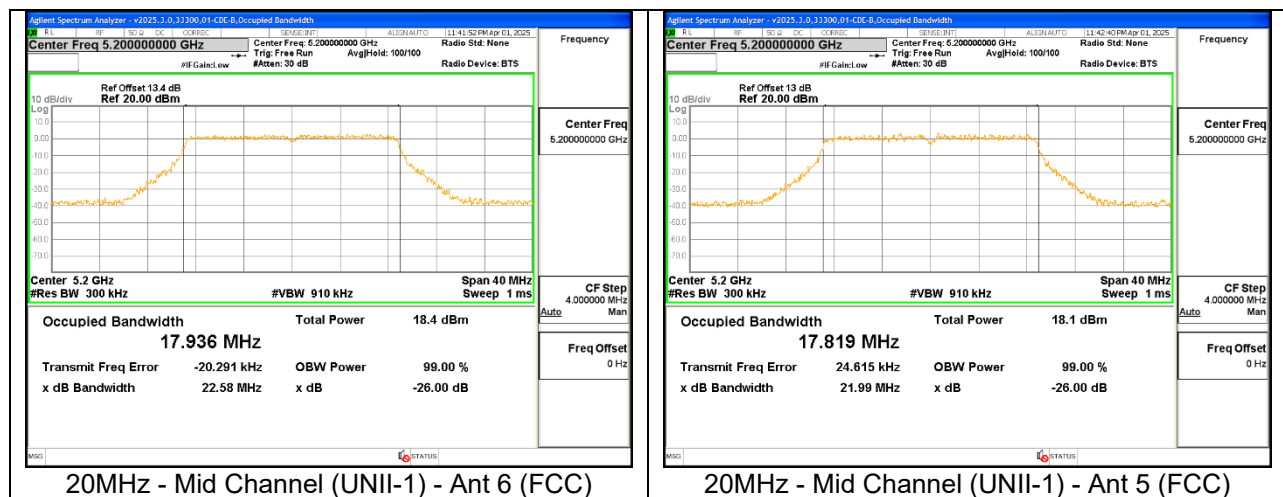
### 9.2.1. 802.11n/ac SISO MODE IN THE UNII-1 BAND

| UNII-1<br>(SISO) | Frequency<br>(MHz) | Channel<br>Number | 26 dB<br>Bandwidth<br>(MHz) |        | 99%<br>Bandwidth<br>(MHz) |          |
|------------------|--------------------|-------------------|-----------------------------|--------|---------------------------|----------|
|                  |                    |                   | Ant 6                       | Ant 5  | Ant 6                     | Ant 5    |
| HT20<br>(FCC)    | 5180               | 36                | 23.05                       | 22.97  | 18.0400                   | 18.0770  |
|                  | 5200               | 40                | 23.10                       | 23.63  | 18.0470                   | 18.0770  |
|                  | 5240               | 48                | 23.32                       | 23.05  | 18.0860                   | 18.0480  |
| HT40<br>(FCC)    | 5190               | 38                | 44.89                       | 45.64  | 36.9100                   | 36.9410  |
|                  | 5230               | 46                | 46.32                       | 45.20  | 37.0000                   | 37.0030  |
| VHT80<br>(FCC)   | 5210               | 42                | 85.34                       | 85.89  | 76.2610                   | 76.1700  |
| VHT160<br>(FCC)  | 5250<br>(Straddle) | 50                | 162.90                      | 163.00 | 154.9600                  | 154.5200 |



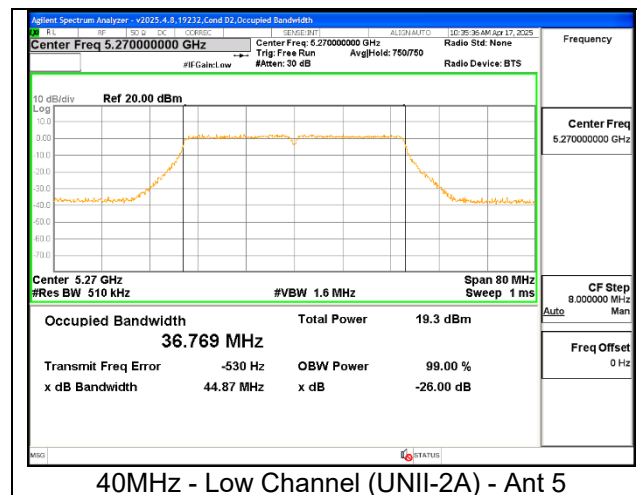
### 9.2.2. 802.11n/ac MIMO CDD MODE IN THE UNII-1 BAND

| UNII-1<br>(MIMO<br>CDD) | Frequency<br>(MHz) | Channel<br>Number | 26 dB<br>Bandwidth<br>(MHz) |        |        | 99%<br>Bandwidth<br>(MHz) |          |        |
|-------------------------|--------------------|-------------------|-----------------------------|--------|--------|---------------------------|----------|--------|
|                         |                    |                   | Ant 6                       | Ant 5  | Min BW | Ant 6                     | Ant 5    | Min BW |
| HT20<br>(FCC)           | 5180               | 36                | 22.41                       | 22.02  | --     | 17.9480                   | 17.8460  | --     |
|                         | 5200               | 40                | 22.58                       | 21.99  | --     | 17.9360                   | 17.8190  | --     |
|                         | 5240               | 48                | 22.24                       | 22.07  | --     | 17.9790                   | 17.8520  | --     |
| HT40<br>(FCC)           | 5190               | 38                | 43.97                       | 42.37  | --     | 36.7170                   | 36.5010  | --     |
|                         | 5230               | 46                | 44.33                       | 43.32  | --     | 36.6560                   | 36.4650  | --     |
| VHT80<br>(FCC)          | 5210               | 42                | 84.79                       | 82.76  | --     | 75.9300                   | 75.8330  | --     |
| VHT160<br>(FCC)         | 5250<br>(Straddle) | 50                | 163.10                      | 162.60 | --     | 154.4900                  | 154.7800 | --     |



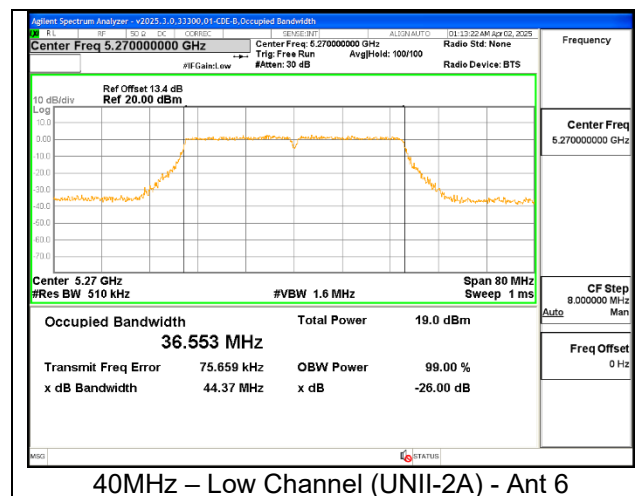
### 9.2.3. 802.11n/ac SISO MODE IN THE UNII-2A BAND

| UNII-2A<br>(SISO) | Frequency<br>(MHz) | Channel<br>Number | 26 dB<br>Bandwidth<br>(MHz) |        | 99%<br>Bandwidth<br>(MHz) |          |
|-------------------|--------------------|-------------------|-----------------------------|--------|---------------------------|----------|
|                   |                    |                   | Ant 6                       | Ant 5  | Ant 6                     | Ant 5    |
| HT20              | 5260               | 52                | 22.57                       | 22.62  | 17.8860                   | 18.0120  |
|                   | 5300               | 60                | 22.41                       | 22.59  | 17.9650                   | 18.0230  |
|                   | 5320               | 64                | 22.44                       | 23.04  | 17.9210                   | 17.9780  |
| HT40              | 5270               | 54                | 43.76                       | 44.87  | 36.6810                   | 36.7690  |
|                   | 5310               | 62                | 44.06                       | 44.85  | 36.6050                   | 36.7550  |
| VHT80             | 5290               | 58                | 85.21                       | 86.74  | 76.0070                   | 75.8880  |
| VHT160            | 5250<br>(Straddle) | 50                | 162.90                      | 163.00 | 154.9600                  | 154.5200 |



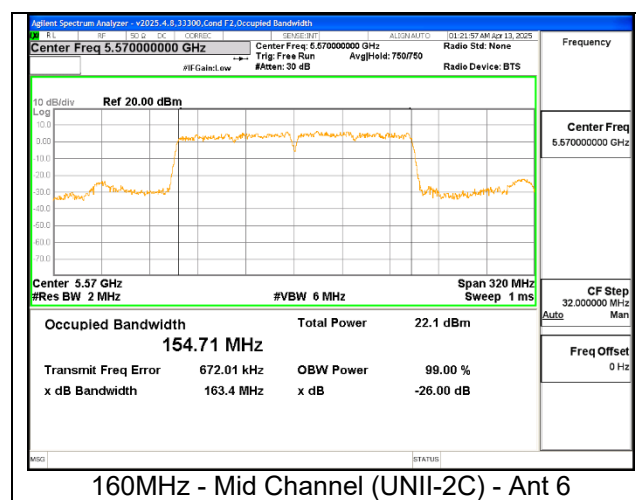
### 9.2.4. 802.11n/ac MIMO CDD MODE IN THE UNII-2A BAND

| UNII-2A<br>(MIMO<br>CDD) | Frequency<br>(MHz) | Channel<br>Number | 26 dB<br>Bandwidth<br>(MHz) |        |        | 99%<br>Bandwidth<br>(MHz) |          |          |
|--------------------------|--------------------|-------------------|-----------------------------|--------|--------|---------------------------|----------|----------|
|                          |                    |                   | Ant 6                       | Ant 5  | Min BW | Ant 6                     | Ant 5    | Min BW   |
| HT20                     | 5260               | 52                | 22.46                       | 21.76  | 21.76  | 17.9240                   | 17.8430  | 17.84    |
|                          | 5300               | 60                | 22.48                       | 22.38  | 22.38  | 17.9220                   | 17.8240  | 17.82    |
|                          | 5320               | 64                | 22.39                       | 22.34  | 22.34  | 17.8910                   | 17.8280  | 17.83    |
| HT40                     | 5270               | 54                | 44.37                       | 43.00  | 43.00  | 36.5530                   | 36.4540  | 36.4540  |
|                          | 5310               | 62                | 44.09                       | 42.53  | 42.53  | 36.6870                   | 36.5300  | 36.5300  |
| VHT80                    | 5290               | 58                | 84.69                       | 83.52  | 83.52  | 75.9540                   | 75.9490  | 75.9490  |
| VHT160                   | 5250<br>(Straddle) | 50                | 163.10                      | 162.60 | 162.60 | 154.4900                  | 154.7800 | 154.4900 |



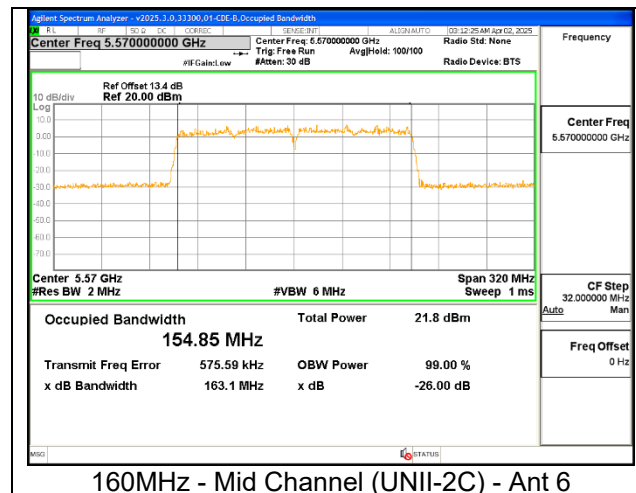
### 9.2.5. 802.11n/ac SISO MODE IN THE UNII-2C BAND

| UNII-2C<br>(SISO) | Frequency<br>(MHz) | Channel<br>Number | 26 dB<br>Bandwidth<br>(MHz) |        | 99%<br>Bandwidth<br>(MHz) |          |
|-------------------|--------------------|-------------------|-----------------------------|--------|---------------------------|----------|
|                   |                    |                   | Ant 6                       | Ant 5  | Ant 6                     | Ant 5    |
| HT20              | 5500               | 100               | 22.66                       | 22.89  | 17.9780                   | 18.0050  |
|                   | 5580               | 116               | 22.92                       | 22.78  | 18.0090                   | 18.0030  |
|                   | 5700               | 140               | 22.94                       | 22.66  | 18.0150                   | 18.0080  |
|                   | 5720<br>(Straddle) | 144               | 22.79                       | 22.67  | 17.9860                   | 18.0320  |
| HT40              | 5510               | 102               | 44.34                       | 45.37  | 36.7720                   | 36.7990  |
|                   | 5550               | 110               | 44.61                       | 45.21  | 36.8010                   | 36.8010  |
|                   | 5670               | 134               | 44.96                       | 44.54  | 36.8190                   | 36.7610  |
|                   | 5710<br>(Straddle) | 142               | 44.43                       | 44.43  | 36.7870                   | 36.7740  |
| VHT80             | 5530               | 106               | 85.68                       | 85.64  | 76.1220                   | 76.0960  |
|                   | 5610               | 122               | 86.15                       | 85.12  | 76.1920                   | 76.1180  |
|                   | 5690<br>(Straddle) | 138               | 85.71                       | 85.82  | 76.1290                   | 76.1810  |
| VHT160            | 5570               | 114               | 163.40                      | 163.50 | 154.7100                  | 154.6900 |



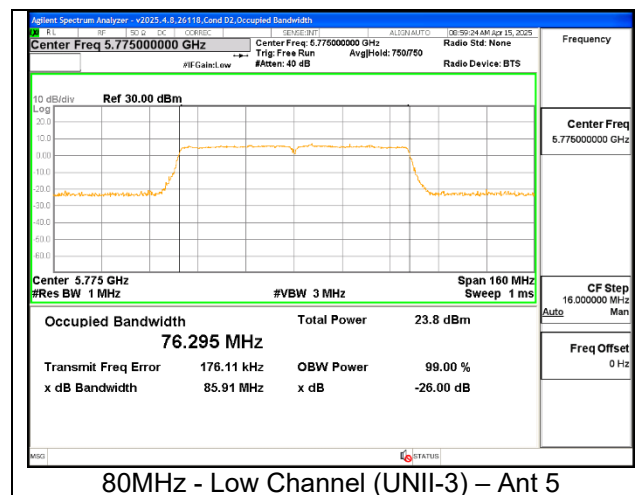
### 9.2.6. 802.11n/ac MIMO CDD MODE IN THE UNII-2C BAND

| UNII-2C<br>(MIMO<br>CDD) | Frequency<br>(MHz) | Channel<br>Number | 26 dB<br>Bandwidth<br>(MHz) |        |        | 99%<br>Bandwidth<br>(MHz) |          |          |
|--------------------------|--------------------|-------------------|-----------------------------|--------|--------|---------------------------|----------|----------|
|                          |                    |                   | Ant 6                       | Ant 5  | Min BW | Ant 6                     | Ant 5    | Min BW   |
| HT20                     | 5500               | 100               | 22.67                       | 22.28  | 22.28  | 17.9700                   | 17.8260  | 17.83    |
|                          | 5580               | 116               | 22.21                       | 22.03  | 22.03  | 17.9160                   | 17.8150  | 17.82    |
|                          | 5700               | 140               | 22.65                       | 22.28  | 22.28  | 17.9410                   | 17.8370  | 17.84    |
|                          | 5720<br>(Straddle) | 144               | 22.09                       | 21.93  | 21.93  | 17.9200                   | 17.8350  | 17.84    |
| HT40                     | 5510               | 102               | 43.91                       | 42.38  | 42.38  | 36.6560                   | 36.5610  | 36.5610  |
|                          | 5550               | 110               | 44.56                       | 42.78  | 42.78  | 36.6760                   | 36.5060  | 36.5060  |
|                          | 5670               | 134               | 44.13                       | 42.80  | 42.80  | 36.6460                   | 36.5480  | 36.5480  |
|                          | 5710<br>(Straddle) | 142               | 44.24                       | 43.30  | 43.30  | 36.6640                   | 36.5470  | 36.5470  |
| VHT80                    | 5530               | 106               | 86.31                       | 83.31  | 83.31  | 75.9450                   | 75.9860  | 75.9450  |
|                          | 5610               | 122               | 85.06                       | 83.35  | 83.35  | 76.1540                   | 76.0370  | 76.0370  |
|                          | 5690<br>(Straddle) | 138               | 86.09                       | 84.17  | 84.17  | 76.0100                   | 75.9720  | 75.9720  |
| VHT160                   | 5570               | 114               | 163.10                      | 163.20 | 163.10 | 154.8500                  | 154.9200 | 154.8500 |



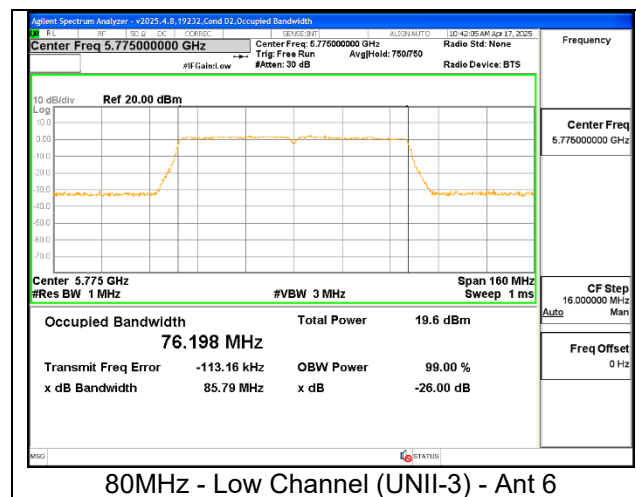
### 9.2.7. 802.11n/ac SISO MODE IN THE UNII-3 BAND

| UNII-3 (SISO) | Frequency (MHz) | Channel Number | 26 dB Bandwidth (MHz) |       | 99% Bandwidth (MHz) |         |
|---------------|-----------------|----------------|-----------------------|-------|---------------------|---------|
|               |                 |                | Ant 6                 | Ant 5 | Ant 6               | Ant 5   |
| HT20          | 5745            | 149            | 22.70                 | 23.04 | 17.9920             | 18.0340 |
|               | 5785            | 157            | 22.77                 | 23.06 | 18.0420             | 18.0300 |
|               | 5825            | 165            | 23.13                 | 22.90 | 18.0190             | 18.0210 |
| HT40          | 5755            | 151            | 44.97                 | 45.22 | 36.9020             | 36.8690 |
|               | 5795            | 159            | 44.68                 | 44.44 | 36.8210             | 36.8480 |
| VHT80         | 5775            | 155            | 85.45                 | 85.91 | 76.3300             | 76.2950 |



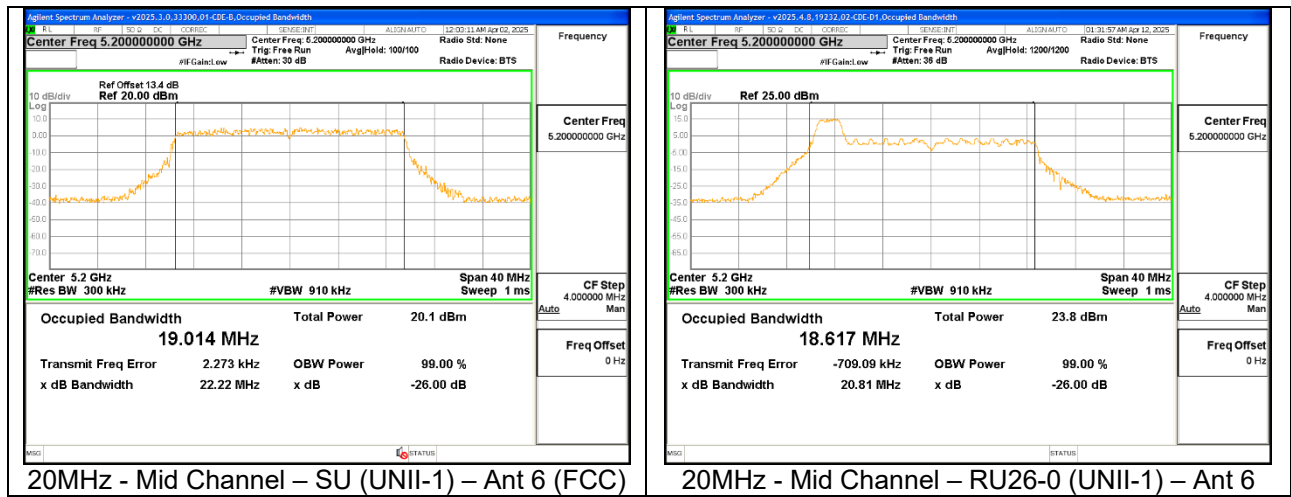
### 9.2.8. 802.11n/ac MIMO CDD MODE IN THE UNII-3 BAND

| UNII-3<br>(MIMO<br>CDD) | Frequency<br>(MHz) | Channel<br>Number | 26 dB<br>Bandwidth<br>(MHz) |       | 99%<br>Bandwidth<br>(MHz) |         |
|-------------------------|--------------------|-------------------|-----------------------------|-------|---------------------------|---------|
|                         |                    |                   | Ant 6                       | Ant 5 | Ant 6                     | Ant 5   |
| HT20                    | 5745               | 149               | 22.59                       | 21.54 | 17.9620                   | 17.8280 |
|                         | 5785               | 157               | 22.62                       | 22.13 | 17.9560                   | 17.8410 |
|                         | 5825               | 165               | 22.32                       | 22.10 | 17.9440                   | 17.8690 |
| HT40                    | 5755               | 151               | 43.58                       | 42.97 | 36.6170                   | 36.4520 |
|                         | 5795               | 159               | 43.44                       | 43.13 | 36.6550                   | 36.5280 |
| VHT80                   | 5775               | 155               | 85.79                       | 83.25 | 76.1980                   | 75.8730 |



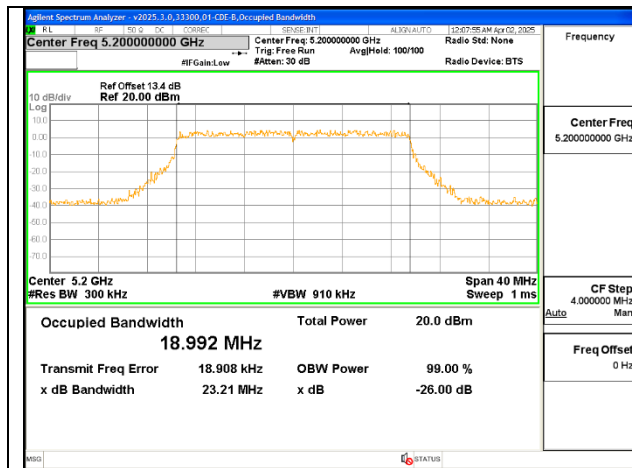
### 9.2.9. 802.11be SISO MODE IN THE UNII-1 BAND

| UNII-1<br>(SISO) | Frequency<br>(MHz) | Channel<br>Number | Tone     | RU<br>Index | 26 dB<br>Bandwidth<br>(MHz) |         | 99%<br>Bandwidth<br>(MHz) |          |
|------------------|--------------------|-------------------|----------|-------------|-----------------------------|---------|---------------------------|----------|
|                  |                    |                   |          |             | Ant 6                       | Ant 5   | Ant 6                     | Ant 5    |
| EHT20<br>(FCC)   | 5180               | 36                | SU       | --          | 21.99                       | 23.03   | 19.0220                   | 19.0550  |
|                  |                    |                   | 26T      | 0           | 18.65                       | 20.82   | 18.6490                   | 18.6980  |
|                  |                    |                   |          | 4           | 16.94                       | 18.20   | 16.9410                   | 16.8780  |
|                  |                    |                   |          | 8           | 18.43                       | 20.61   | 18.4340                   | 18.5400  |
|                  | 5200               | 40                | SU       | --          | 22.22                       | 23.02   | 19.0140                   | 19.0390  |
|                  |                    |                   | 26T      | 0           | 20.81                       | 20.90   | 18.6170                   | 18.6570  |
|                  |                    |                   |          | 4           | 18.28                       | 18.24   | 16.8530                   | 16.8690  |
|                  |                    |                   |          | 8           | 20.55                       | 20.37   | 18.4800                   | 18.5570  |
|                  | 5240               | 48                | SU       | --          | 23.13                       | 23.24   | 19.0070                   | 19.064   |
|                  |                    |                   | 26T      | 0           | 20.61                       | 20.92   | 18.6190                   | 18.6670  |
|                  |                    |                   |          | 4           | 18.25                       | 18.32   | 16.9240                   | 16.9300  |
|                  |                    |                   |          | 8           | 20.37                       | 20.39   | 18.5790                   | 18.5590  |
| EHT40<br>(FCC)   | 5190               | 38                | SU       | --          | 43.69                       | 42.49   | 38.0040                   | 37.9880  |
|                  |                    |                   | 242T     | 61          | 23.49                       | 23.66   | 19.1470                   | 19.2180  |
|                  |                    |                   |          | 62          | 23.11                       | 23.54   | 19.2050                   | 19.1230  |
|                  |                    |                   | (52+26)T | 70          | 20.76                       | 20.79   | 17.2910                   | 17.4610  |
|                  |                    |                   |          | 72          | 20.45                       | 19.98   | 17.3910                   | 17.3580  |
|                  | 5230               | 46                | 75       | 19.81       | 19.91                       | 17.2560 | 17.3320                   |          |
|                  |                    |                   | SU       | --          | 42.48                       | 42.50   | 38.0010                   | 37.9530  |
|                  |                    |                   | 242T     | 61          | 23.30                       | 23.17   | 19.1880                   | 19.2260  |
|                  |                    |                   |          | 62          | 23.52                       | 23.19   | 19.2710                   | 19.1450  |
|                  |                    |                   | (52+26)T | 70          | 20.44                       | 20.93   | 17.3640                   | 17.2470  |
|                  |                    |                   |          | 72          | 20.68                       | 20.73   | 17.3640                   | 17.2440  |
|                  |                    |                   | 75       | 20.32       | 19.93                       | 17.2750 | 17.2940                   |          |
| EHT80<br>(FCC)   | 5210               | 42                | SU       | --          | 85.13                       | 84.88   | 77.4230                   | 77.4210  |
|                  |                    |                   | 242T     | 61          | 35.47                       | 24.68   | 19.6260                   | 19.5030  |
|                  |                    |                   |          | 62          | 32.82                       | 23.53   | 19.6010                   | 19.2600  |
|                  |                    |                   |          | 64          | 29.62                       | 24.87   | 19.4310                   | 19.2310  |
|                  |                    |                   | 52T      | 71          | 21.57                       | 21.50   | 18.6590                   | 18.3860  |
|                  |                    |                   |          | 74          | 21.97                       | 21.83   | 18.6520                   | 18.4800  |
|                  |                    |                   |          | 80          | 20.97                       | 20.86   | 18.3210                   | 18.1890  |
| EHT160<br>(FCC)  | 5250<br>(Straddle) | 50                | SU       | --          | 164.00                      | 163.80  | 156.4600                  | 156.1100 |
|                  |                    |                   | 242T     | 61          | 23.88                       | 23.61   | 19.8320                   | 19.3970  |
|                  |                    |                   |          | 62          | 24.04                       | 23.76   | 19.3310                   | 19.4280  |
|                  |                    |                   |          | S64         | 23.59                       | 23.56   | 19.1980                   | 19.3180  |
|                  |                    |                   | 26T      | 37          | 21.48                       | 21.58   | 19.1320                   | 18.6300  |
|                  |                    |                   |          | 52          | 21.05                       | 21.10   | 18.7710                   | 18.1990  |
|                  |                    |                   |          | S52         | 21.27                       | 21.14   | 18.6390                   | 18.5440  |

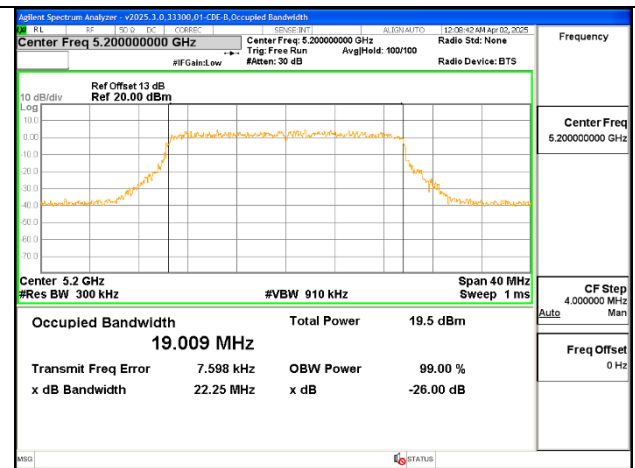


**9.2.10. 802.11be MIMO CDD MODE IN THE UNII-1 BAND**

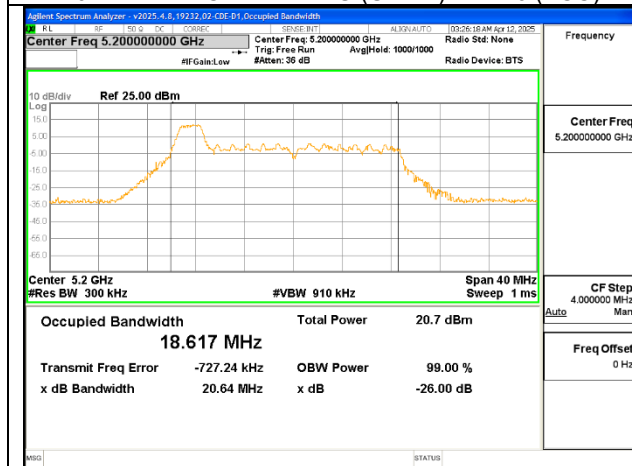
| UNII-1<br>(MIMO<br>CDD) | Frequency<br>(MHz) | Channel<br>Number | Tone     | RU<br>Index | 26 dB<br>Bandwidth<br>(MHz) |       |        | 99%<br>Bandwidth<br>(MHz) |         |        |
|-------------------------|--------------------|-------------------|----------|-------------|-----------------------------|-------|--------|---------------------------|---------|--------|
|                         |                    |                   |          |             | Ant 6                       | Ant 5 | Min BW | Ant 6                     | Ant 5   | Min BW |
| EHT20<br>(FCC)          | 5180               | 36                | SU       | --          | 22.45                       | 22.43 | --     | 19.0310                   | 19.0370 | --     |
|                         |                    |                   | 26T      | 0           | 20.47                       | 20.26 | --     | 18.6990                   | 18.5660 | --     |
|                         |                    |                   |          | 4           | 18.22                       | 18.15 | --     | 16.8720                   | 16.7110 | --     |
|                         |                    |                   |          | 8           | 20.55                       | 20.26 | --     | 18.6070                   | 18.5420 | --     |
|                         | 5200               | 40                | SU       | --          | 23.21                       | 22.25 | --     | 18.9920                   | 19.0090 | --     |
|                         |                    |                   | 26T      | 0           | 20.64                       | 20.51 | --     | 18.6170                   | 18.5670 | --     |
|                         |                    |                   |          | 4           | 18.21                       | 18.19 | --     | 16.7420                   | 16.9110 | --     |
|                         |                    |                   |          | 8           | 20.49                       | 20.47 | --     | 18.4730                   | 18.5410 | --     |
|                         | 5240               | 48                | SU       | --          | 22.74                       | 22.44 | --     | 16.8720                   | 18.9980 | --     |
|                         |                    |                   | 26T      | 0           | 20.95                       | 20.62 | --     | 18.6220                   | 18.5440 | --     |
|                         |                    |                   |          | 4           | 18.21                       | 18.06 | --     | 16.8960                   | 16.8400 | --     |
|                         |                    |                   |          | 8           | 20.48                       | 20.46 | --     | 18.5960                   | 18.4880 | --     |
| EHT40<br>(FCC)          | 5190               | 38                | SU       | --          | 42.40                       | 43.07 | --     | 38.0000                   | 37.9380 | --     |
|                         |                    |                   | 242T     | 61          | 23.87                       | 23.41 | --     | 19.1020                   | 19.0750 | --     |
|                         |                    |                   |          | 62          | 23.17                       | 23.25 | --     | 19.1250                   | 19.0790 | --     |
|                         |                    |                   | (52+26)T | 70          | 20.45                       | 20.12 | --     | 17.3570                   | 17.3430 | --     |
|                         |                    |                   |          | 72          | 20.44                       | 19.85 | --     | 17.3830                   | 17.2790 | --     |
|                         |                    |                   |          | 75          | 19.98                       | 19.43 | --     | 17.3300                   | 17.2150 | --     |
|                         | 5230               | 46                | SU       | --          | 43.52                       | 43.34 | --     | 37.9110                   | 38.0060 | --     |
|                         |                    |                   | 242T     | 61          | 23.18                       | 22.80 | --     | 19.1200                   | 19.0670 | --     |
|                         |                    |                   |          | 62          | 23.90                       | 23.11 | --     | 19.1550                   | 19.1000 | --     |
|                         |                    |                   | (52+26)T | 70          | 20.42                       | 19.81 | --     | 17.3850                   | 17.2150 | --     |
|                         |                    |                   |          | 72          | 20.34                       | 19.68 | --     | 17.4180                   | 17.3850 | --     |
|                         |                    |                   |          | 75          | 19.80                       | 19.12 | --     | 17.3960                   | 17.3290 | --     |
| EHT80<br>(FCC)          | 5210               | 42                | SU       | --          | 84.78                       | 83.05 | --     | 77.4630                   | 77.4800 | --     |
|                         |                    |                   | 242T     | 61          | 24.38                       | 25.79 | --     | 19.4930                   | 19.3780 | --     |
|                         |                    |                   |          | 62          | 24.52                       | 23.17 | --     | 19.3260                   | 19.3560 | --     |
|                         |                    |                   |          | 64          | 29.16                       | 29.18 | --     | 19.4090                   | 19.3680 | --     |
|                         |                    |                   | 52T      | 71          | 21.33                       | 20.59 | --     | 18.5860                   | 18.1750 | --     |
|                         |                    |                   |          | 74          | 21.22                       | 20.55 | --     | 18.5210                   | 18.0830 | --     |
|                         |                    |                   |          | 80          | 20.24                       | 20.94 | --     | 18.7600                   | 18.4000 | --     |
|                         |                    |                   | SU       | --          | 163.6                       | 163.2 | --     | 155.9                     | 156.09  | --     |
| EHT160<br>(FCC)         | 5250<br>(Straddle) | 50                | 242T     | S52         | 23.53                       | 23.53 | --     | 19.698                    | 19.746  | --     |
|                         |                    |                   |          | 62          | 23.61                       | 23.65 | --     | 19.547                    | 19.717  | --     |
|                         |                    |                   |          | S64         | 23.98                       | 23.58 | --     | 19.892                    | 20.765  | --     |
|                         |                    |                   | 52T      | --          | 21.21                       | 20.78 | --     | 19.256                    | 18.454  | --     |
|                         |                    |                   |          | 37          | 21.51                       | 20.69 | --     | 18.647                    | 18.185  | --     |
|                         |                    |                   |          | 52          | 20.7                        | 20.89 | --     | 18.536                    | 18.28   | --     |
|                         |                    |                   | SU       | --          | 163.6                       | 163.2 | --     | 155.9                     | 156.09  | --     |



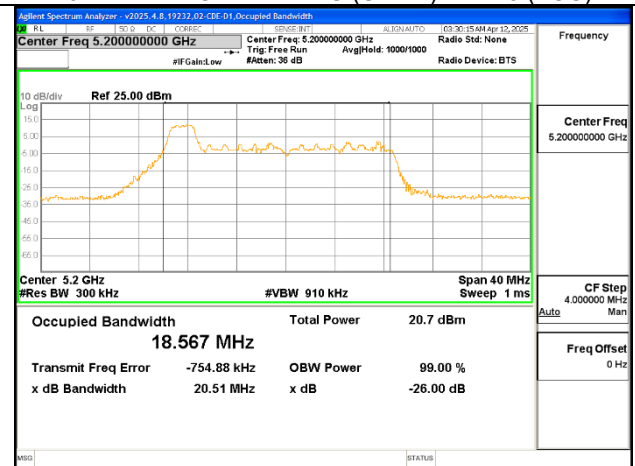
20MHz - Mid Channel – SU (UNII-1) – Ant 6 (FCC)



20MHz - Mid Channel – SU (UNII-1) – Ant 5 (FCC)



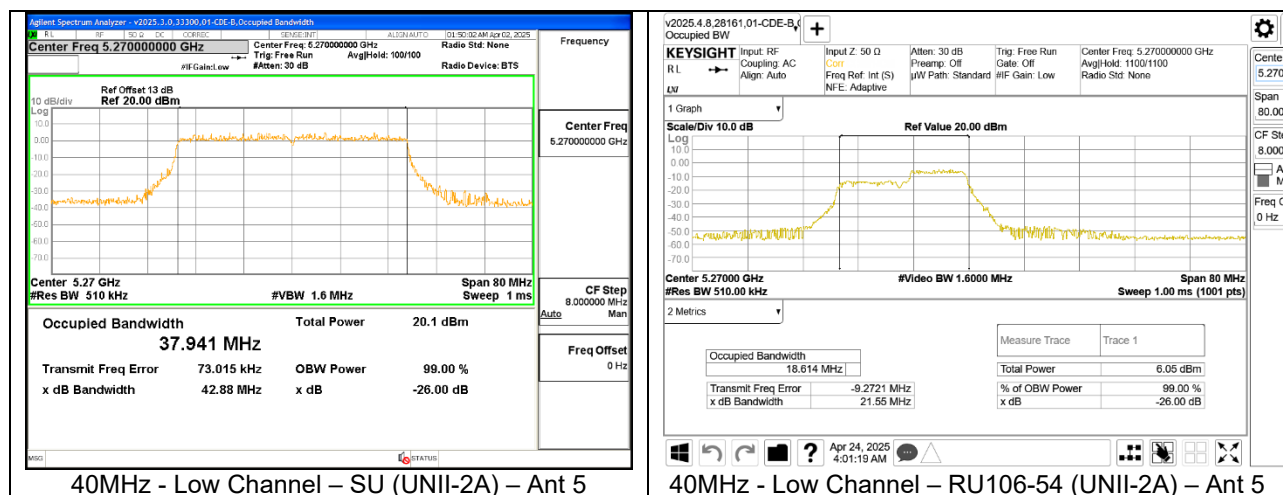
20MHz - Mid Channel – RU26-0 (UNII-1) – Ant 6 (FCC)



20MHz - Mid Channel - RU26-0 (UNII-1) – Ant 5 (FCC)

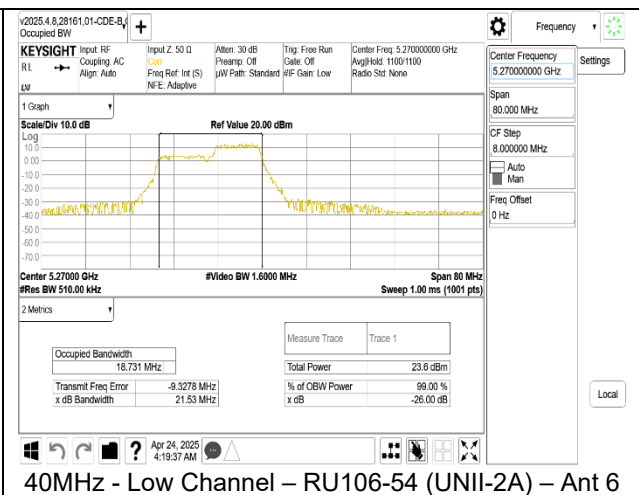
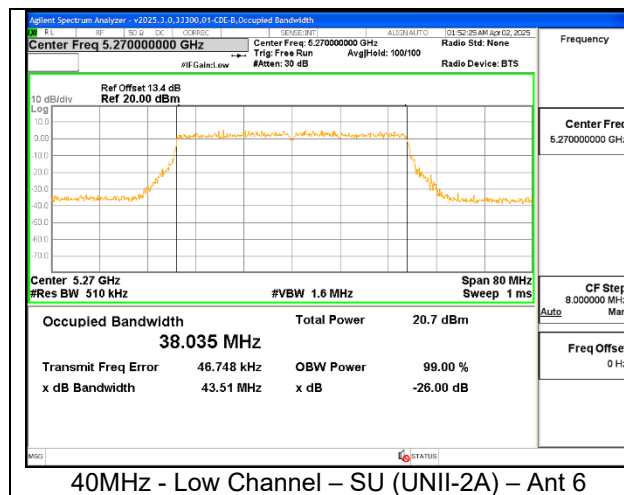
### 9.2.11. 802.11be SISO MODE IN THE UNII-2A BAND

| UNII-2A (SISO) | Frequency (MHz) | Channel Number | Tone | RU Index | 26 dB Bandwidth (MHz) |        | 99% Bandwidth (MHz) |          |
|----------------|-----------------|----------------|------|----------|-----------------------|--------|---------------------|----------|
|                |                 |                |      |          | Ant 6                 | Ant 5  | Ant 6               | Ant 5    |
| EHT20          | 5260            | 52             | SU   | --       | 22.26                 | 22.12  | 18.9990             | 19.0100  |
|                |                 |                | 106T | 53       | 21.93                 | 21.93  | 18.2970             | 18.2970  |
|                |                 |                |      | 54       | 20.72                 | 20.72  | 18.1730             | 18.1730  |
|                | 5300            | 60             | SU   | --       | 22.88                 | 21.58  | 19.0290             | 18.9890  |
|                |                 |                | 106T | 53       | 22.01                 | 22.01  | 18.2670             | 18.2670  |
|                |                 |                |      | 54       | 21.04                 | 21.04  | 18.2060             | 18.2060  |
| EHT40          | 5270            | 54             | SU   | --       | 22.42                 | 22.00  | 19.0100             | 19.0020  |
|                |                 |                | 106T | 53       | 21.70                 | 21.70  | 18.2580             | 18.2580  |
|                |                 |                |      | 54       | 21.33                 | 21.33  | 18.1460             | 18.1460  |
|                | 5310            | 62             | SU   | --       | 42.94                 | 42.58  | 37.9090             | 38.0120  |
|                |                 |                | 106T | 53       | 22.51                 | 22.26  | 18.1490             | 18.1310  |
|                |                 |                |      | 54       | 21.96                 | 21.83  | 18.6700             | 18.6600  |
| EHT80          | 5290            | 58             | SU   | --       | 84.15                 | 82.96  | 77.5580             | 77.4310  |
|                |                 |                | 484T | 65       | 44.93                 | 44.01  | 38.2070             | 38.1960  |
|                |                 |                |      | 66       | 44.30                 | 44.11  | 38.2250             | 38.2130  |
|                |                 |                | 106T | 53       | 21.46                 | 21.46  | 18.1720             | 18.1720  |
|                |                 |                |      | 56       | 21.53                 | 21.53  | 18.1900             | 18.1900  |
|                |                 |                |      | 60       | 21.03                 | 21.03  | 18.0780             | 18.0780  |
| EHT160         | 5250 (Straddle) | 50             | SU   | --       | 164.00                | 163.80 | 156.4600            | 156.1100 |
|                |                 |                | 242T | 61       | 23.88                 | 23.61  | 19.8320             | 19.3970  |
|                |                 |                |      | 62       | 24.04                 | 23.76  | 19.3310             | 19.4280  |
|                |                 |                |      | S64      | 23.59                 | 23.56  | 19.1980             | 19.3180  |
|                |                 |                | 52T  | 37       | 21.48                 | 21.58  | 19.1320             | 18.6300  |
|                |                 |                |      | 52       | 21.05                 | 21.10  | 18.7710             | 18.1990  |
|                |                 |                |      | S52      | 21.27                 | 21.14  | 18.6390             | 18.5440  |



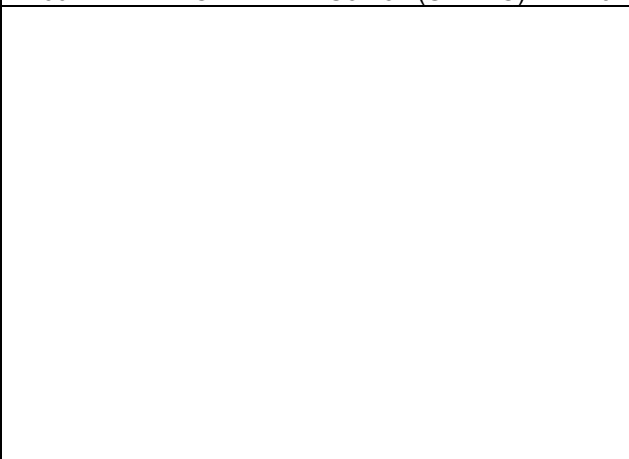
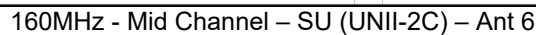
## 9.2.12. 802.11be MIMO CDD MODE IN THE UNII-2A BAND

| UNII-2A<br>(MIMO<br>CDD) | Frequency<br>(MHz) | Channel<br>Number | Tone | RU<br>Index | 26 dB<br>Bandwidth<br>(MHz) |       |        | 99%<br>Bandwidth<br>(MHz) |         |         |
|--------------------------|--------------------|-------------------|------|-------------|-----------------------------|-------|--------|---------------------------|---------|---------|
|                          |                    |                   |      |             | Ant 6                       | Ant 5 | Min BW | Ant 6                     | Ant 5   | Min BW  |
| EHT20                    | 5260               | 52                | SU   | --          | 22.74                       | 22.35 | 22.35  | 19.0280                   | 18.9840 | 18.9840 |
|                          |                    |                   | 106T | 53          | 21.77                       | 20.75 | 20.75  | 18.2430                   | 18.1710 | 18.1710 |
|                          |                    |                   |      | 54          | 20.87                       | 20.54 | 20.54  | 18.2050                   | 18.0970 | 18.0970 |
|                          | 5300               | 60                | SU   | --          | 22.35                       | 22.34 | 22.34  | 19.0090                   | 19.0390 | 19.0090 |
|                          |                    |                   | 106T | 53          | 21.76                       | 20.68 | 20.68  | 18.2650                   | 18.1970 | 18.1970 |
|                          |                    |                   |      | 54          | 20.89                       | 20.63 | 20.63  | 18.1830                   | 18.1050 | 18.1050 |
|                          | 5320               | 64                | SU   | --          | 23.04                       | 22.39 | 22.39  | 19.0050                   | 19.0290 | 19.0050 |
|                          |                    |                   | 106T | 53          | 21.77                       | 20.77 | 20.77  | 18.2980                   | 18.2010 | 18.2010 |
|                          |                    |                   |      | 54          | 21.21                       | 20.34 | 20.34  | 18.1170                   | 18.0960 | 18.0960 |
| EHT40                    | 5270               | 54                | SU   | --          | 43.51                       | 43.35 | 43.35  | 38.0350                   | 37.9390 | 37.9390 |
|                          |                    |                   | 106T | 53          | 21.89                       | 21.39 | 21.39  | 18.1240                   | 18.0070 | 18.0070 |
|                          |                    |                   |      | 54          | 21.53                       | 21.09 | 21.09  | 18.7310                   | 18.5340 | 18.5340 |
|                          | 5310               | 62                | 106T | 56          | 21.38                       | 20.88 | 20.88  | 18.0230                   | 17.9790 | 17.9790 |
|                          |                    |                   |      | 53          | 22.14                       | 21.40 | 21.40  | 18.1230                   | 17.9790 | 17.9790 |
|                          |                    |                   |      | 54          | 21.81                       | 21.31 | 21.31  | 18.7350                   | 18.5630 | 18.5630 |
|                          |                    |                   | SU   | --          | 43.16                       | 42.34 | 42.34  | 38.0380                   | 37.9460 | 37.9460 |
|                          |                    |                   |      | 53          | 22.14                       | 21.40 | 21.40  | 18.1230                   | 17.9790 | 17.9790 |
|                          |                    |                   |      | 54          | 21.81                       | 21.31 | 21.31  | 18.7350                   | 18.5630 | 18.5630 |
| EHT80                    | 5290               | 58                | SU   | --          | 84.58                       | 83.74 | 83.74  | 77.4350                   | 77.4190 | 77.4190 |
|                          |                    |                   | 484T | 65          | 44.62                       | 43.93 | 43.93  | 38.1410                   | 38.1290 | 38.1290 |
|                          |                    |                   |      | 66          | 44.02                       | 43.70 | 43.70  | 38.1350                   | 38.1650 | 38.1350 |
|                          | 5290               | 58                | 106T | 53          | 22.17                       | 20.93 | 20.93  | 18.1790                   | 18.0350 | 18.0350 |
|                          |                    |                   |      | 56          | 21.08                       | 21.13 | 21.08  | 18.1040                   | 18.0010 | 18.0010 |
|                          |                    |                   |      | 60          | 21.21                       | 20.92 | 20.92  | 18.1850                   | 17.9960 | 17.9960 |
|                          |                    |                   | SU   | --          | 163.6                       | 163.2 | 163.2  | 155.9                     | 156.09  | 155.9   |
|                          |                    |                   |      | 61          | 23.53                       | 23.53 | 23.53  | 19.698                    | 19.746  | 19.698  |
|                          |                    |                   |      | 62          | 23.61                       | 23.65 | 23.61  | 19.547                    | 19.717  | 19.547  |
| EHT160                   | 5250<br>(Straddle) | 50                | 242T | S64         | 23.98                       | 23.58 | 23.58  | 19.892                    | 20.765  | 19.892  |
|                          |                    |                   |      | 0           | 21.21                       | 20.78 | 20.78  | 19.256                    | 18.454  | 18.454  |
|                          |                    |                   |      | 36          | 21.51                       | 20.69 | 20.69  | 18.647                    | 18.185  | 18.185  |
|                          | 5250<br>(Straddle) | 50                | 52T  | S36         | 20.7                        | 20.89 | 20.7   | 18.536                    | 18.28   | 18.28   |
|                          |                    |                   |      |             |                             |       |        |                           |         |         |
|                          |                    |                   |      |             |                             |       |        |                           |         |         |
|                          |                    |                   | SU   | --          |                             |       |        |                           |         |         |
|                          |                    |                   |      |             |                             |       |        |                           |         |         |
|                          |                    |                   |      |             |                             |       |        |                           |         |         |



**9.2.13. 802.11be SISO MODE IN THE UNII-2C BAND**

| UNII-2C<br>(SISO) | Frequency<br>(MHz) | Channel<br>Number | Tone | RU<br>Index | 26 dB<br>Bandwidth<br>(MHz) |        | 99%<br>Bandwidth<br>(MHz) |          |
|-------------------|--------------------|-------------------|------|-------------|-----------------------------|--------|---------------------------|----------|
|                   |                    |                   |      |             | Ant 6                       | Ant 5  | Ant 6                     | Ant 5    |
| EHT20             | 5500               | 100               | SU   | --          | 23.09                       | 22.92  | 19.0120                   | 19.0430  |
|                   |                    |                   | 106T | 53          | 21.72                       | 21.71  | 18.2920                   | 18.2850  |
|                   |                    |                   |      | 54          | 21.10                       | 21.15  | 18.2340                   | 18.1600  |
|                   | 5580               | 116               | SU   | --          | 23.17                       | 22.65  | 19.0670                   | 19.0400  |
|                   |                    |                   | 106T | 53          | 21.45                       | 21.88  | 18.2090                   | 18.2540  |
|                   |                    |                   |      | 54          | 21.03                       | 21.36  | 18.1940                   | 18.2080  |
|                   | 5700               | 140               | SU   | --          | 23.10                       | 23.43  | 19.0380                   | 19.0480  |
|                   |                    |                   | 106T | 53          | 21.51                       | 22.11  | 18.2640                   | 18.2970  |
|                   |                    |                   |      | 54          | 21.07                       | 21.38  | 18.2050                   | 18.2410  |
|                   | 5720<br>(Straddle) | 144               | SU   | --          | 22.74                       | 23.00  | 19.0880                   | 19.0140  |
|                   |                    |                   | 106T | 53          | 21.79                       | 22.20  | 18.3570                   | 18.3190  |
|                   |                    |                   |      | 54          | 20.99                       | 21.21  | 18.1780                   | 18.1470  |
| EHT40             | 5510               | 102               | SU   | --          | 44.76                       | 43.40  | 37.9850                   | 38.0040  |
|                   |                    |                   | 106T | 53          | 22.28                       | 22.27  | 18.0840                   | 18.1310  |
|                   |                    |                   |      | 54          | 21.39                       | 21.61  | 18.5000                   | 18.6920  |
|                   |                    |                   |      | 56          | 21.11                       | 20.92  | 18.0660                   | 18.1190  |
|                   | 5550               | 110               | SU   | --          | 43.88                       | 43.69  | 38.0690                   | 38.0200  |
|                   |                    |                   | 106T | 53          | 22.09                       | 22.14  | 18.1050                   | 18.1660  |
|                   |                    |                   |      | 54          | 21.14                       | 21.40  | 18.5590                   | 18.6910  |
|                   |                    |                   |      | 56          | 21.52                       | 21.20  | 18.0940                   | 18.1120  |
|                   | 5670               | 134               | SU   | --          | 43.68                       | 44.16  | 38.0660                   | 38.0470  |
|                   |                    |                   | 106T | 53          | 22.34                       | 22.09  | 18.1430                   | 18.1240  |
|                   |                    |                   |      | 54          | 21.75                       | 21.76  | 18.7230                   | 18.7090  |
|                   |                    |                   |      | 56          | 21.29                       | 21.61  | 18.1020                   | 18.1180  |
|                   | 5710<br>(Straddle) | 142               | SU   | --          | 44.21                       | 44.25  | 38.0060                   | 38.0640  |
|                   |                    |                   | 106T | 53          | 22.02                       | 21.79  | 18.1020                   | 18.0330  |
|                   |                    |                   |      | 54          | 21.48                       | 21.44  | 18.6650                   | 18.5450  |
|                   |                    |                   |      | 56          | 21.38                       | 21.53  | 17.9590                   | 18.0390  |
| EHT80             | 5530               | 106               | SU   | --          | 84.96                       | 85.23  | 77.6630                   | 77.6660  |
|                   |                    |                   | 484T | 65          | 44.36                       | 44.21  | 38.1470                   | 38.2150  |
|                   |                    |                   |      | 66          | 44.37                       | 44.20  | 38.1470                   | 38.0750  |
|                   |                    |                   | 106T | 53          | 22.26                       | 21.51  | 18.2030                   | 18.0900  |
|                   |                    |                   |      | 56          | 21.19                       | 21.60  | 18.0190                   | 18.1980  |
|                   |                    |                   |      | 60          | 20.99                       | 21.14  | 18.0850                   | 18.2050  |
|                   | 5610               | 122               | SU   | --          | 84.47                       | 84.83  | 77.7420                   | 77.6520  |
|                   |                    |                   | 484T | 65          | 44.63                       | 44.38  | 38.1610                   | 38.1790  |
|                   |                    |                   |      | 66          | 43.66                       | 44.21  | 38.1030                   | 38.1180  |
|                   |                    |                   | 106T | 53          | 20.49                       | 21.87  | 18.0530                   | 18.2050  |
|                   |                    |                   |      | 56          | 21.35                       | 21.35  | 18.0730                   | 18.2190  |
|                   |                    |                   |      | 60          | 20.94                       | 21.11  | 17.9650                   | 18.1650  |
|                   | 5690<br>(Straddle) | 138               | SU   | --          | 85.14                       | 84.92  | 77.5800                   | 77.6020  |
|                   |                    |                   | 484T | 65          | 44.35                       | 44.66  | 38.1310                   | 38.1560  |
|                   |                    |                   |      | 66          | 44.60                       | 44.29  | 38.1740                   | 38.1180  |
|                   |                    |                   | 106T | 53          | 22.57                       | 22.38  | 17.8670                   | 18.1380  |
|                   |                    |                   |      | 56          | 21.27                       | 20.70  | 17.8210                   | 17.9520  |
|                   |                    |                   |      | 60          | 20.75                       | 21.04  | 18.1950                   | 18.0620  |
| EHT160            | 5570               | 106               | SU   | --          | 164.60                      | 164.10 | 156.2900                  | 156.3900 |
|                   |                    |                   | 242T | 61          | 23.92                       | 23.60  | 19.3680                   | 19.3810  |
|                   |                    |                   |      | 62          | 23.49                       | 23.49  | 19.2290                   | 19.1940  |
|                   |                    |                   |      | S64         | 23.23                       | 23.41  | 19.2540                   | 19.4140  |
|                   |                    |                   | 52T  | 37          | 21.17                       | 21.04  | 18.3820                   | 17.9980  |
|                   |                    |                   |      | 52          | 20.98                       | 20.78  | 18.1080                   | 18.2820  |
|                   |                    |                   |      | S52         | 20.40                       | 20.74  | 18.1210                   | 18.2830  |
|                   |                    |                   |      |             |                             |        |                           |          |



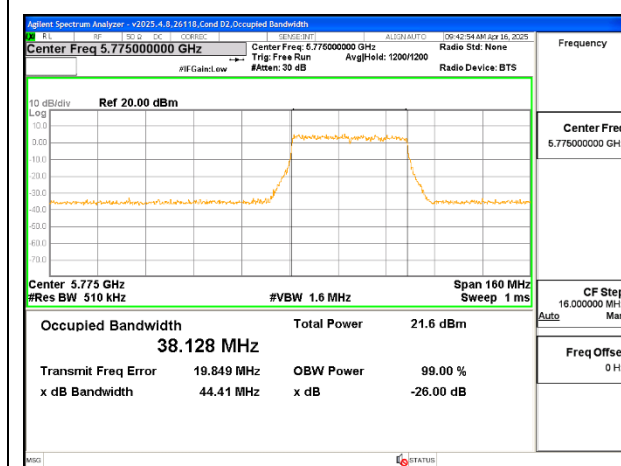
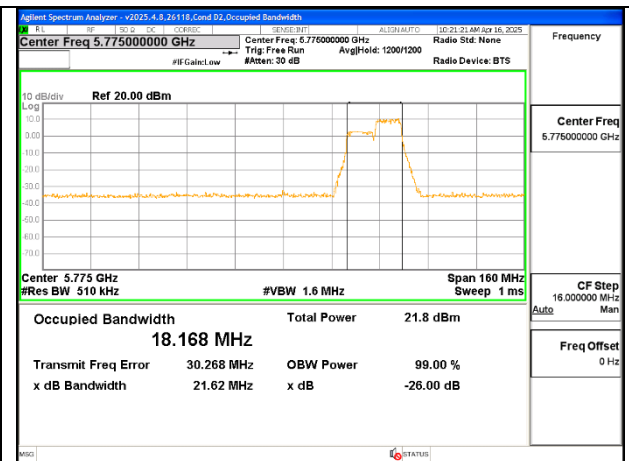
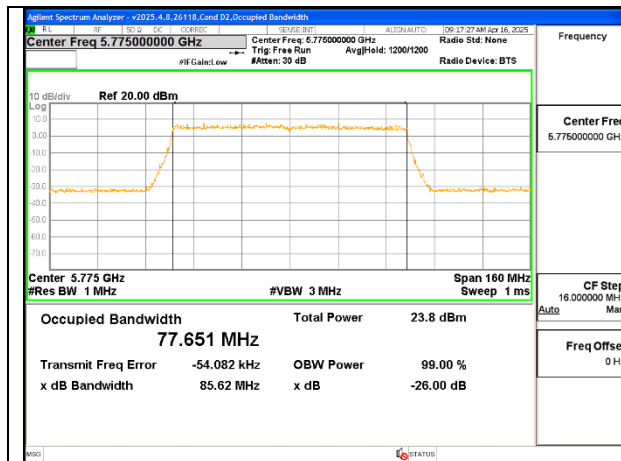
**9.2.14. 802.11be MIMO CDD MODE IN THE UNII-2C BAND**

| UNII-2C<br>(MIMO<br>CDD) | Frequency<br>(MHz) | Channel<br>Number | Tone | RU<br>Index | 26 dB<br>Bandwidth<br>(MHz) |       |        | 99%<br>Bandwidth<br>(MHz) |         |         |
|--------------------------|--------------------|-------------------|------|-------------|-----------------------------|-------|--------|---------------------------|---------|---------|
|                          |                    |                   |      |             | Ant 6                       | Ant 5 | Min BW | Ant 6                     | Ant 5   | Min BW  |
| EHT20                    | 5500               | 100               | SU   | --          | 23.06                       | 22.08 | 22.08  | 19.0180                   | 19.0210 | 19.0180 |
|                          |                    |                   | 106T | 53          | 22.02                       | 20.82 | 20.82  | 18.3120                   | 18.1690 | 18.1690 |
|                          |                    |                   |      | 54          | 22.98                       | 20.56 | 20.56  | 18.1900                   | 18.1090 | 18.1090 |
|                          | 5580               | 116               | SU   | --          | 22.88                       | 22.10 | 22.10  | 19.0420                   | 19.0500 | 19.0420 |
|                          |                    |                   | 106T | 53          | 21.64                       | 20.79 | 20.79  | 18.2920                   | 18.1770 | 18.1770 |
|                          |                    |                   |      | 54          | 20.95                       | 20.57 | 20.57  | 18.1600                   | 18.1490 | 18.1490 |
|                          | 5700               | 140               | SU   | --          | 22.07                       | 21.90 | 21.90  | 18.9740                   | 19.0160 | 18.9740 |
|                          |                    |                   | 106T | 53          | 21.85                       | 20.91 | 20.91  | 18.2800                   | 18.1630 | 18.1630 |
|                          |                    |                   |      | 54          | 21.42                       | 20.81 | 20.81  | 18.1360                   | 18.1630 | 18.1360 |
|                          | 5720<br>(Straddle) | 144               | SU   | --          | 22.72                       | 22.36 | 22.36  | 19.0160                   | 18.9930 | 18.9930 |
|                          |                    |                   | 106T | 53          | 21.57                       | 21.05 | 21.05  | 18.3270                   | 18.1850 | 18.1850 |
|                          |                    |                   |      | 54          | 21.19                       | 20.66 | 20.66  | 18.1420                   | 18.1500 | 18.1420 |
| EHT40                    | 5510               | 102               | SU   | --          | 42.87                       | 43.25 | 42.87  | 38.0030                   | 37.9250 | 37.9250 |
|                          |                    |                   | 106T | 53          | 22.16                       | 21.60 | 21.60  | 18.0810                   | 17.9340 | 17.9340 |
|                          |                    |                   |      | 54          | 21.85                       | 20.90 | 20.90  | 18.6960                   | 18.5910 | 18.5910 |
|                          |                    |                   |      | 56          | 21.41                       | 21.09 | 21.09  | 18.0850                   | 17.9530 | 17.9530 |
|                          | 5550               | 110               | SU   | --          | 44.60                       | 43.13 | 43.13  | 38.0040                   | 37.9840 | 37.9840 |
|                          |                    |                   | 106T | 53          | 21.83                       | 21.45 | 21.45  | 18.1440                   | 18.0590 | 18.0590 |
|                          |                    |                   |      | 54          | 21.59                       | 21.39 | 21.39  | 18.7680                   | 18.6490 | 18.6490 |
|                          |                    |                   |      | 56          | 21.46                       | 20.78 | 20.78  | 18.1770                   | 17.9270 | 17.9270 |
|                          | 5670               | 134               | SU   | --          | 44.14                       | 42.18 | 42.18  | 37.9500                   | 37.9720 | 37.9500 |
|                          |                    |                   | 106T | 53          | 22.00                       | 21.04 | 21.04  | 18.1030                   | 17.9390 | 17.9390 |
|                          |                    |                   |      | 54          | 21.39                       | 21.43 | 21.39  | 18.6140                   | 18.6140 | 18.6140 |
|                          |                    |                   |      | 56          | 21.23                       | 20.76 | 20.76  | 18.1040                   | 18.0190 | 18.0190 |
|                          | 5710<br>(Straddle) | 142               | SU   | --          | 42.88                       | 43.14 | 42.88  | 37.9770                   | 37.9280 | 37.9280 |
|                          |                    |                   | 106T | 53          | 22.16                       | 21.47 | 21.47  | 18.1640                   | 17.9820 | 17.9820 |
|                          |                    |                   |      | 54          | 21.79                       | 21.28 | 21.28  | 18.7020                   | 18.5600 | 18.5600 |
|                          |                    |                   |      | 56          | 21.22                       | 20.76 | 20.76  | 18.0480                   | 17.9870 | 17.9870 |
| EHT80                    | 5530               | 106               | SU   | --          | 84.18                       | 84.25 | 84.18  | 77.4050                   | 77.6940 | 77.4050 |
|                          |                    |                   | 484T | 65          | 44.67                       | 43.80 | 43.80  | 38.1480                   | 38.0580 | 38.0580 |
|                          |                    |                   |      | 66          | 44.48                       | 44.01 | 44.01  | 38.0760                   | 38.1160 | 38.0760 |
|                          |                    |                   | 106T | 53          | 22.39                       | 20.50 | 20.50  | 18.1420                   | 17.8550 | 17.8550 |
|                          |                    |                   |      | 56          | 21.33                       | 20.98 | 20.98  | 18.0250                   | 17.9620 | 17.9620 |
|                          |                    |                   |      | 60          | 21.17                       | 20.79 | 20.79  | 18.0110                   | 17.9630 | 17.9630 |
|                          | 5610               | 122               | SU   | --          | 84.54                       | 83.41 | 83.41  | 77.4780                   | 77.5250 | 77.4780 |
|                          |                    |                   | 484T | 65          | 44.40                       | 43.50 | 43.50  | 38.1970                   | 38.0890 | 38.0890 |
|                          |                    |                   |      | 66          | 44.04                       | 43.43 | 43.43  | 38.1770                   | 38.0590 | 38.0590 |
|                          |                    |                   | 106T | 53          | 21.61                       | 21.37 | 21.37  | 18.2420                   | 18.0920 | 18.0920 |
|                          |                    |                   |      | 56          | 21.07                       | 20.70 | 20.70  | 18.0920                   | 18.0710 | 18.0710 |
|                          |                    |                   |      | 60          | 21.07                       | 20.92 | 20.92  | 18.1780                   | 18.1050 | 18.1050 |
|                          | 5690<br>(Straddle) | 138               | SU   | --          | 84.03                       | 84.10 | 84.03  | 77.4430                   | 77.5290 | 77.4430 |
|                          |                    |                   | 484T | 65          | 44.61                       | 43.94 | 43.94  | 38.1600                   | 38.0920 | 38.0920 |
|                          |                    |                   |      | 66          | 44.31                       | 43.12 | 43.12  | 38.1410                   | 38.0580 | 38.0580 |
|                          |                    |                   | 106T | 53          | 21.31                       | 21.62 | 21.31  | 18.1580                   | 17.9370 | 17.9370 |
|                          |                    |                   |      | 56          | 21.56                       | 20.78 | 20.78  | 18.1710                   | 18.0100 | 18.0100 |
|                          |                    |                   |      | 60          | 20.41                       | 20.57 | 20.41  | 18.1970                   | 17.7220 | 17.7220 |
| EHT160                   | 5570               | 106               | SU   | --          | 164.4                       | 163.6 | 163.6  | 156.22                    | 156.3   | 156.22  |
|                          |                    |                   | 242T | 61          | 23.54                       | 23.12 | 23.12  | 19.428                    | 19.297  | 19.297  |
|                          |                    |                   |      | 62          | 23.73                       | 22.87 | 22.87  | 19.218                    | 19.145  | 19.145  |
|                          |                    |                   |      | S64         | 23.36                       | 23.37 | 23.36  | 19.271                    | 19.356  | 19.271  |
|                          |                    |                   | 52T  | 37          | 21.38                       | 20.61 | 20.61  | 18.341                    | 18.193  | 18.193  |
|                          |                    |                   |      | 52          | 20.6                        | 20.67 | 20.6   | 18.319                    | 18.053  | 18.053  |
|                          |                    |                   |      | S52         | 21.13                       | 20.43 | 20.43  | 18.128                    | 18.112  | 18.112  |
|                          |                    |                   |      |             |                             |       |        |                           |         |         |



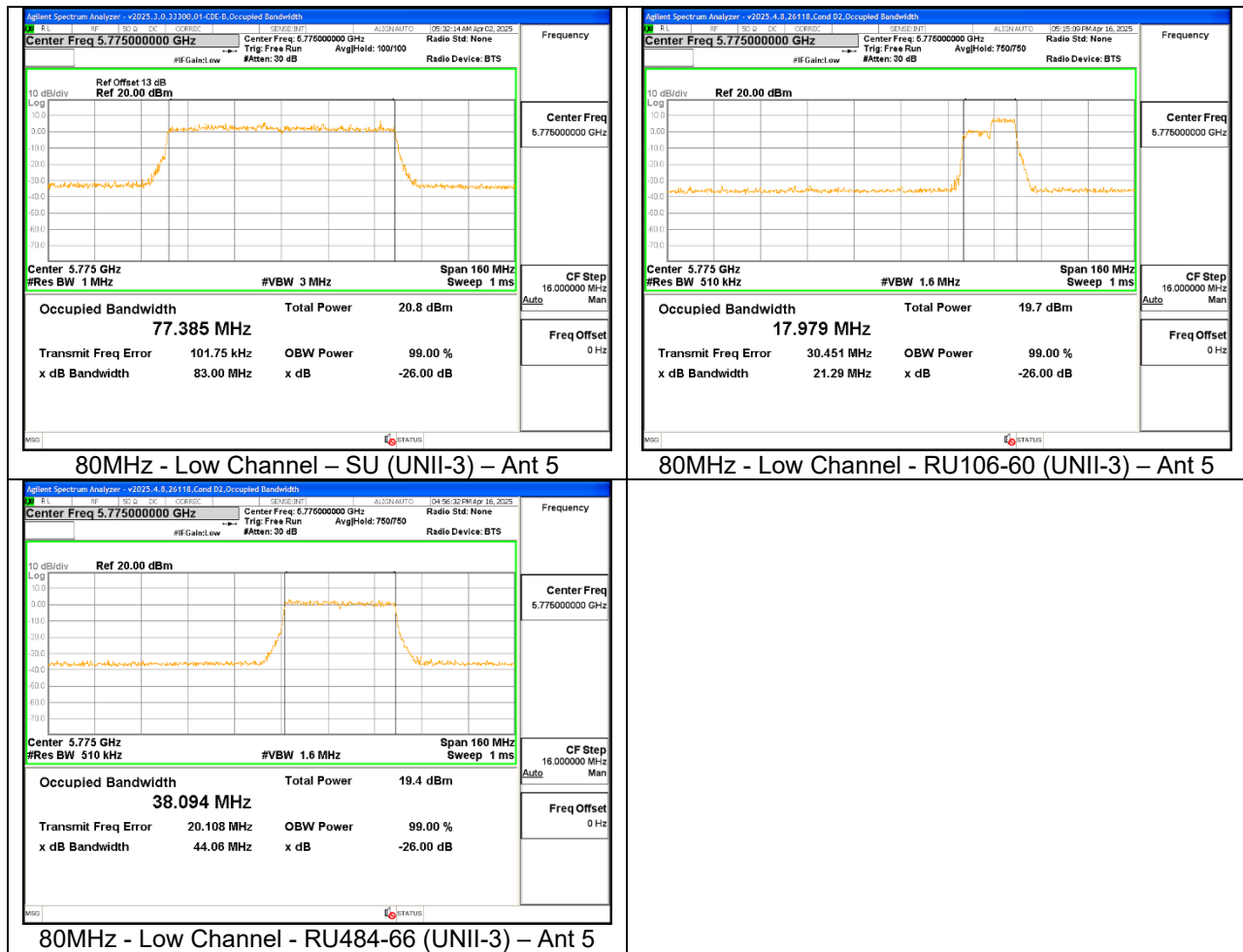
**9.2.15. 802.11be SISO MODE IN THE UNII-3 BAND**

| UNII-3<br>(SISO) | Frequency<br>(MHz) | Channel<br>Number | Tone | RU<br>Index | 26 dB<br>Bandwidth<br>(MHz) |       | 99%<br>Bandwidth<br>(MHz) |         |
|------------------|--------------------|-------------------|------|-------------|-----------------------------|-------|---------------------------|---------|
|                  |                    |                   |      |             | Ant 6                       | Ant 5 | Ant 6                     | Ant 5   |
| EHT20            | 5745               | 149               | SU   | --          | 23.03                       | 23.45 | 19.0150                   | 19.0630 |
|                  |                    |                   | 26T  | 0           | 20.46                       | 20.62 | 18.6240                   | 18.7120 |
|                  |                    |                   |      | 4           | 18.16                       | 18.20 | 16.8850                   | 16.9040 |
|                  |                    |                   |      | 8           | 20.41                       | 20.42 | 18.5140                   | 18.5280 |
|                  | 5785               | 157               | SU   | --          | 23.14                       | 23.27 | 19.0700                   | 19.0420 |
|                  |                    |                   | 26T  | 0           | 20.64                       | 20.84 | 18.5900                   | 18.6720 |
|                  |                    |                   |      | 4           | 18.14                       | 18.27 | 16.9100                   | 16.9560 |
|                  |                    |                   |      | 8           | 20.63                       | 20.49 | 18.5010                   | 18.5320 |
|                  | 5825               | 165               | SU   | --          | 23.10                       | 22.86 | 19.0610                   | 19.0380 |
|                  |                    |                   | 26T  | 0           | 20.58                       | 20.56 | 18.6310                   | 18.6630 |
|                  |                    |                   |      | 4           | 18.37                       | 18.17 | 19.8940                   | 16.9290 |
|                  |                    |                   |      | 8           | 20.46                       | 20.77 | 18.5440                   | 18.5360 |
| EHT40            | 5755               | 151               | SU   | --          | 44.08                       | 45.16 | 37.9970                   | 38.0060 |
|                  |                    |                   | 106T | 53          | 22.28                       | 21.73 | 18.1710                   | 18.2000 |
|                  |                    |                   |      | 54          | 21.56                       | 21.39 | 18.6270                   | 18.5890 |
|                  |                    |                   |      | 56          | 21.36                       | 21.49 | 18.0300                   | 18.1300 |
|                  | 5795               | 159               | SU   | --          | 44.14                       | 44.28 | 37.9950                   | 37.9690 |
|                  |                    |                   | 106T | 53          | 22.14                       | 22.24 | 18.1370                   | 18.1090 |
|                  |                    |                   |      | 54          | 21.53                       | 21.92 | 18.6250                   | 18.6290 |
|                  |                    |                   |      | 56          | 21.49                       | 21.21 | 18.0860                   | 18.0920 |
| EHT80            | 5775               | 155               | SU   | --          | 85.62                       | 85.18 | 77.6510                   | 77.5280 |
|                  |                    |                   | 484T | 65          | 44.75                       | 44.59 | 38.1850                   | 38.1230 |
|                  |                    |                   |      | 66          | 44.41                       | 44.72 | 38.1280                   | 38.1830 |
|                  |                    |                   | 106T | 53          | 22.16                       | 22.26 | 18.2120                   | 18.2650 |
|                  |                    |                   |      | 56          | 21.37                       | 21.77 | 18.2490                   | 18.2020 |
|                  |                    |                   |      | 60          | 21.62                       | 21.02 | 18.1680                   | 18.1310 |



**9.2.16. 802.11be MIMO CDD MODE IN THE UNII-3 BAND**

| UNII-3<br>(MIMO<br>CDD) | Frequency<br>(MHz) | Channel<br>Number | Tone | RU<br>Index | 26 dB<br>Bandwidth<br>(MHz) |       | 99%<br>Bandwidth<br>(MHz) |         |
|-------------------------|--------------------|-------------------|------|-------------|-----------------------------|-------|---------------------------|---------|
|                         |                    |                   |      |             | Ant 6                       | Ant 5 | Ant 6                     | Ant 5   |
| EHT20                   | 5745               | 149               | SU   | --          | 22.42                       | 22.07 | 18.9820                   | 19.0790 |
|                         |                    |                   | 26T  | 0           | 20.67                       | 20.58 | 18.6540                   | 18.5490 |
|                         |                    |                   |      | 4           | 18.21                       | 18.19 | 16.8680                   | 16.7100 |
|                         |                    |                   |      | 8           | 20.63                       | 20.28 | 18.4720                   | 18.4770 |
|                         | 5785               | 157               | SU   | --          | 23.21                       | 22.64 | 19.0160                   | 17.0320 |
|                         |                    |                   | 26T  | 0           | 20.64                       | 20.47 | 18.6400                   | 18.5520 |
|                         |                    |                   |      | 4           | 18.30                       | 18.17 | 16.8610                   | 16.6460 |
|                         |                    |                   |      | 8           | 20.58                       | 20.21 | 18.5090                   | 18.5500 |
|                         | 5825               | 165               | SU   | --          | 22.48                       | 22.15 | 19.0170                   | 18.9890 |
|                         |                    |                   | 26T  | 0           | 20.86                       | 20.02 | 18.7010                   | 18.4000 |
|                         |                    |                   |      | 4           | 18.39                       | 18.22 | 16.9340                   | 16.7240 |
|                         |                    |                   |      | 8           | 20.72                       | 20.26 | 18.5860                   | 18.4700 |
| EHT40                   | 5755               | 151               | SU   | --          | 43.59                       | 43.42 | 38.0240                   | 37.9180 |
|                         |                    |                   | 106T | 53          | 22.41                       | 20.90 | 18.1490                   | 18.0180 |
|                         |                    |                   |      | 54          | 21.59                       | 21.06 | 18.5560                   | 18.5480 |
|                         |                    |                   |      | 56          | 21.25                       | 20.79 | 18.1120                   | 17.9970 |
|                         | 5795               | 159               | SU   | --          | 42.98                       | 42.45 | 38.0250                   | 38.0500 |
|                         |                    |                   | 106T | 53          | 21.84                       | 21.60 | 18.1190                   | 17.9980 |
|                         |                    |                   |      | 54          | 21.75                       | 21.15 | 18.6990                   | 18.5440 |
|                         |                    |                   |      | 56          | 21.19                       | 20.81 | 18.1100                   | 18.0390 |
| EHT80                   | 5775               | 155               | SU   | --          | 84.91                       | 83.00 | 77.5440                   | 77.3850 |
|                         |                    |                   | 484T | 65          | 44.92                       | 44.14 | 37.1870                   | 38.0880 |
|                         |                    |                   |      | 66          | 45.11                       | 44.06 | 38.1910                   | 38.0940 |
|                         |                    |                   | 106T | 53          | 22.49                       | 20.97 | 18.0400                   | 18.0550 |
|                         |                    |                   |      | 56          | 20.81                       | 20.99 | 18.1280                   | 18.0140 |
|                         |                    |                   |      | 60          | 21.49                       | 21.29 | 18.2850                   | 17.9790 |



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### 9.3. BANDWIDTH VERIFICATION OF CHANNEL PUNCTURING IN THE DFS BANDS

#### LIMITS

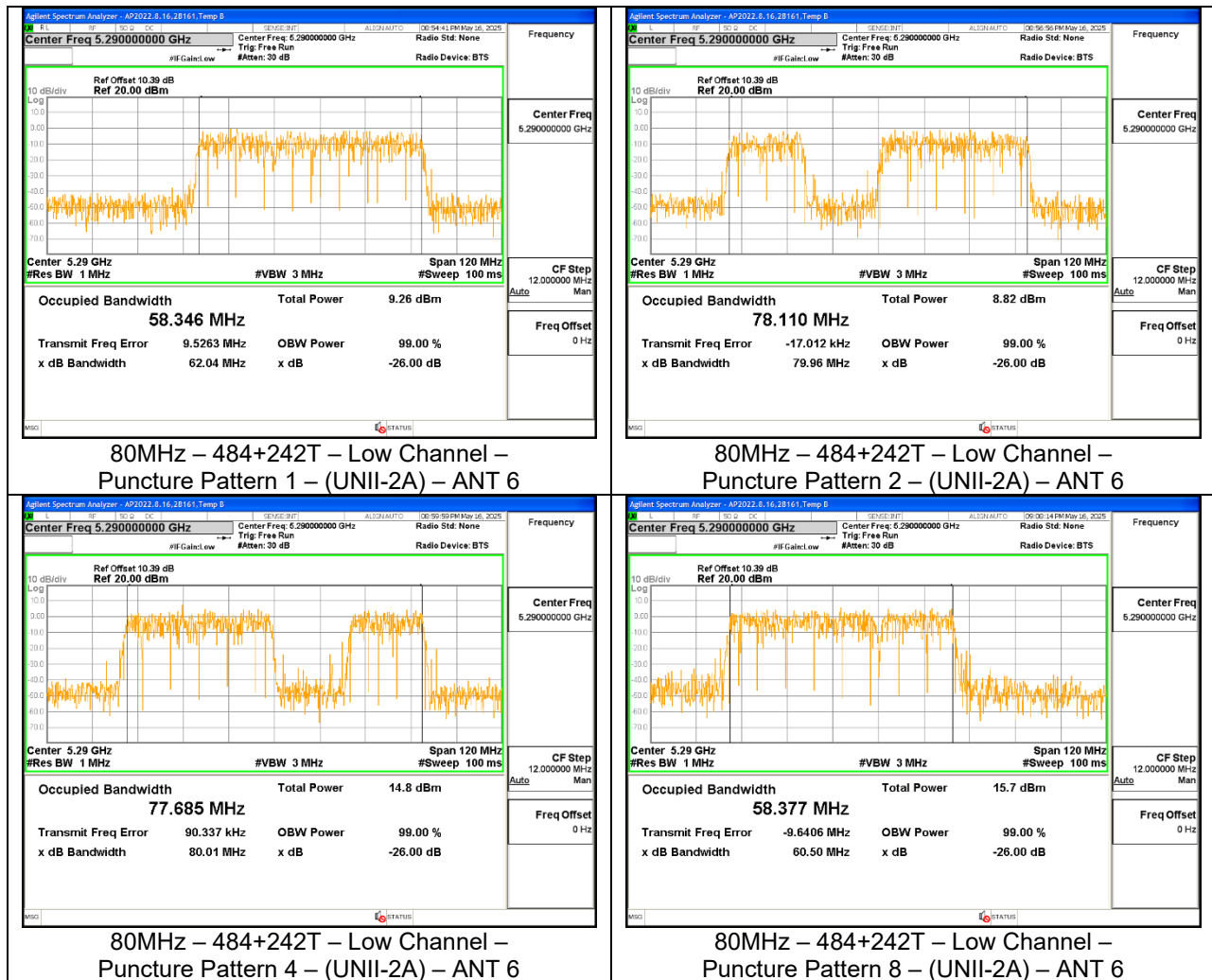
When a 20 MHz portion is punctured the remaining emissions do not bleed into the notched channel, i.e., 26 dB or 99% bandwidth is contained outside of the notched band.

#### RESULTS

|            |       |              |            |
|------------|-------|--------------|------------|
| <b>ID:</b> | 28161 | <b>Date:</b> | 2025-05-16 |
|------------|-------|--------------|------------|

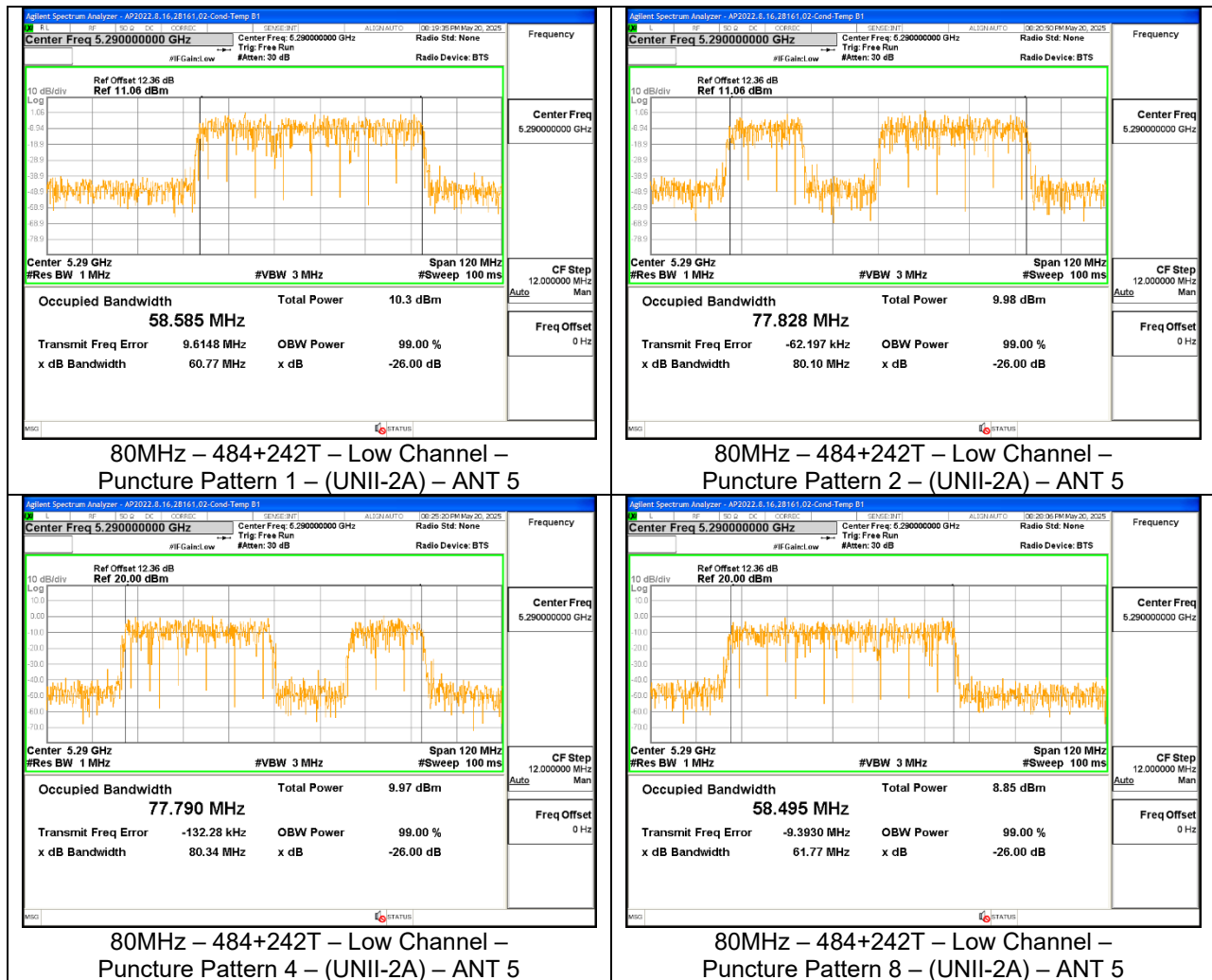
**9.3.1. 802.11be EHT80 SISO MODE**

| EHT80   | SISO | Frequency<br>(MHz) | Channel<br>Number | Tone    | Puncturing<br>Pattern | Full Channel    |        |                                                | Left<br>Bandwidth | Right<br>Bandwidth |
|---------|------|--------------------|-------------------|---------|-----------------------|-----------------|--------|------------------------------------------------|-------------------|--------------------|
|         |      |                    |                   |         |                       | Bandwidth (MHz) |        | Chan Punc<br>>26dB?<br>Yes = Pass<br>No = Fail |                   |                    |
|         |      |                    |                   |         |                       | 26dB            | 99% BW |                                                | 99% BW (MHz)      |                    |
| UNII-2A | ANT6 | 5290               | 58                | 484+242 | 1                     | 62.04           | 58.35  | Yes                                            |                   |                    |
|         |      |                    |                   |         | 2                     | 79.96           | 78.11  | Yes                                            | 19.15             | 38.1800            |
|         |      |                    |                   |         | 4                     | 80.01           | 77.69  | Yes                                            | 38.03             | 19.4810            |
| 8       |      | 60.50              | 58.38             | Yes     |                       |                 |        |                                                |                   |                    |
| UNII-2C |      | 5530               | 106               | 484+242 | 1                     | 61.11           | 58.35  | Yes                                            |                   |                    |
|         |      |                    |                   |         | 2                     | 80.69           | 77.56  | Yes                                            | 19.40             | 37.9720            |
|         |      |                    |                   |         | 4                     | 78.78           | 77.79  | Yes                                            | 38.08             | 19.2380            |
|         |      | 8                  | 60.86             |         | 58.71                 | Yes             |        |                                                |                   |                    |
|         |      | 1                  | 60.59             |         | 58.65                 | Yes             |        |                                                |                   |                    |
|         |      | 2                  | 80.29             |         | 77.43                 | Yes             | 19.28  | 37.6170                                        |                   |                    |
|         |      | 4                  | 80.10             |         | 78.01                 | Yes             | 38.07  | 19.2170                                        |                   |                    |
|         |      | 8                  | 60.86             |         | 58.17                 | Yes             |        |                                                |                   |                    |
|         |      | 1                  | 60.96             |         | 58.25                 | Yes             |        |                                                |                   |                    |
|         |      | 2                  | 79.76             |         | 77.58                 | Yes             | 19.33  | 38.1760                                        |                   |                    |
|         |      | 4                  | 80.14             |         | 77.86                 | Yes             | 37.92  | 19.2530                                        |                   |                    |
|         |      | 8                  | 60.69             |         | 58.59                 | Yes             |        |                                                |                   |                    |
| UNII-2A | ANT5 | 5290               | 58                | 484+242 | 1                     | 60.52           | 58.57  | Yes                                            |                   |                    |
|         |      |                    |                   |         | 2                     | 83.00           | 77.68  | Yes                                            | 19.38             | 38.1950            |
|         |      |                    |                   |         | 4                     | 79.85           | 77.37  | Yes                                            | 38.19             | 19.2310            |
| 8       |      | 60.63              | 58.33             | Yes     |                       |                 |        |                                                |                   |                    |
| UNII-2C |      | 5530               | 106               | 484+242 | 1                     | 60.71           | 58.57  | Yes                                            |                   |                    |
|         |      |                    |                   |         | 2                     | 80.74           | 77.91  | Yes                                            | 19.36             | 38.2290            |
|         |      |                    |                   |         | 4                     | 81.33           | 77.08  | Yes                                            | 38.34             | 19.2080            |
|         |      | 8                  | 60.55             |         | 58.67                 | Yes             |        |                                                |                   |                    |
|         |      | 1                  | 60.74             |         | 58.53                 | Yes             |        |                                                |                   |                    |
|         |      | 2                  | 80.14             |         | 77.56                 | Yes             | 19.20  | 18.2450                                        |                   |                    |
|         |      | 4                  | 80.24             |         | 77.44                 | Yes             | 38.18  | 19.1760                                        |                   |                    |
|         |      | 8                  | 60.31             |         | 58.37                 | Yes             |        |                                                |                   |                    |
|         |      | 1                  | 60.43             |         | 58.53                 | Yes             |        |                                                |                   |                    |
|         |      | 2                  | 80.06             |         | 77.60                 | Yes             | 19.19  | 38.0890                                        |                   |                    |
|         |      | 4                  | 80.41             |         | 77.86                 | Yes             | 38.23  | 19.3890                                        |                   |                    |
|         |      | 8                  | 61.98             |         | 58.58                 | Yes             |        |                                                |                   |                    |



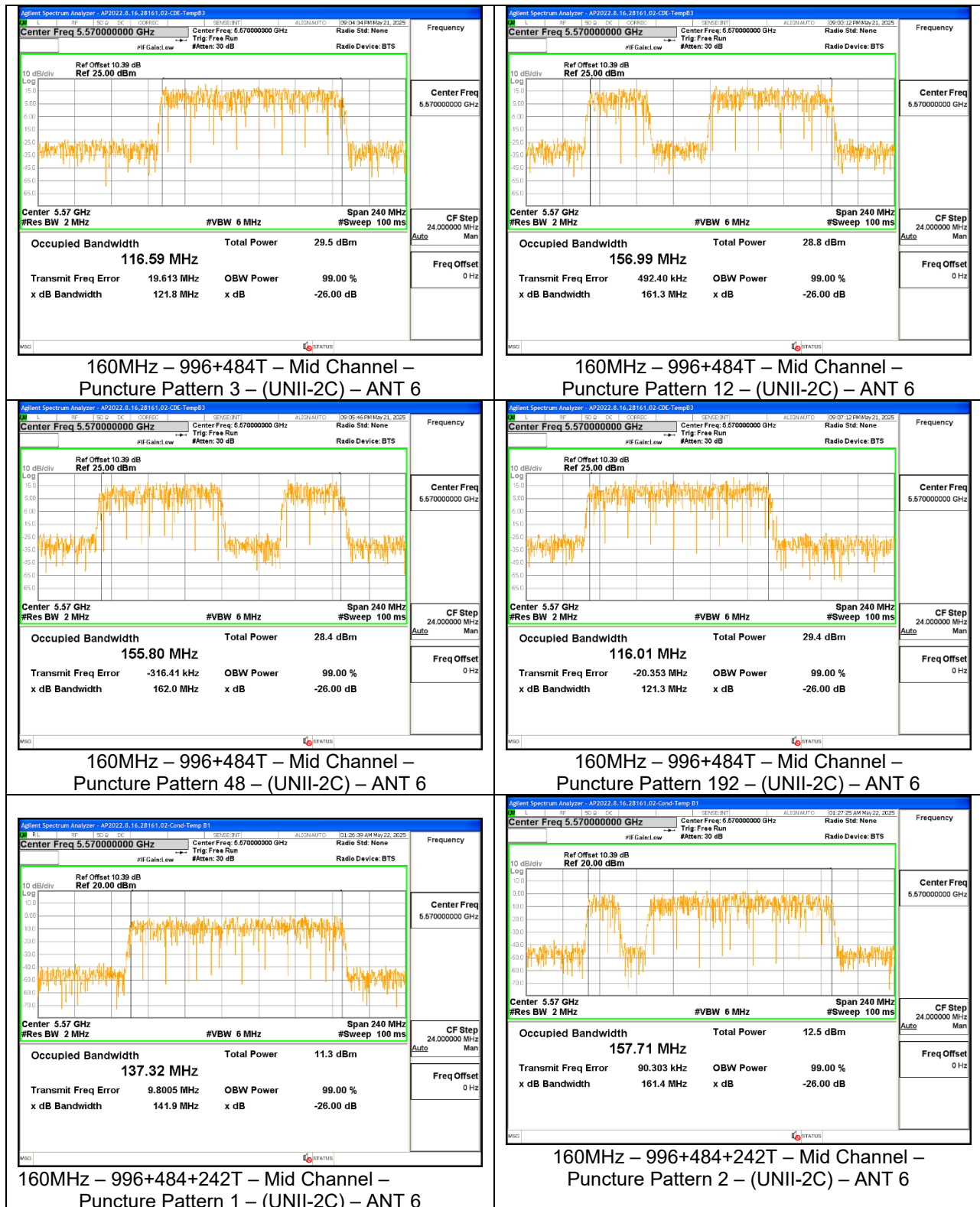
### 9.3.2. 802.11be EHT80 MIMO CDD MODE

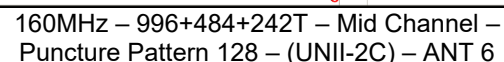
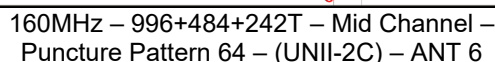
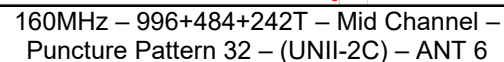
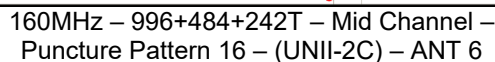
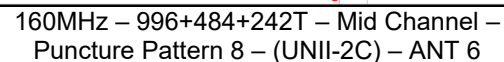
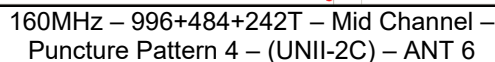
| EHT80   | MIMO<br>(CDD) | Frequency<br>(MHz) | Channel<br>Number | Tone    | Puncturing<br>Pattern | Full Channel    |        |                                                | Left<br>Bandwidth | Right<br>Bandwidth |
|---------|---------------|--------------------|-------------------|---------|-----------------------|-----------------|--------|------------------------------------------------|-------------------|--------------------|
|         |               |                    |                   |         |                       | Bandwidth (MHz) |        | Chan Punc<br>>26dB?<br>Yes = Pass<br>No = Fail |                   |                    |
|         |               |                    |                   |         |                       | 26dB            | 99% BW |                                                | 99% BW (MHz)      |                    |
| UNII-2a | ANT6          | 5290               | 58                | 484+242 | 1                     | 60.27           | 58.42  | Yes                                            |                   |                    |
|         |               |                    |                   |         | 2                     | 80.10           | 77.52  | Yes                                            | 19.12             | 37.7930            |
|         |               |                    |                   |         | 4                     | 79.78           | 77.42  | Yes                                            | 37.85             | 19.1580            |
|         |               |                    |                   |         | 8                     | 60.71           | 58.41  | Yes                                            |                   |                    |
| UNII-2c |               | 5530               | 106               | 484+242 | 1                     | 61.49           | 58.65  | Yes                                            |                   |                    |
|         |               |                    |                   |         | 2                     | 80.22           | 77.84  | Yes                                            | 19.32             | 37.7630            |
|         |               |                    |                   |         | 4                     | 79.85           | 77.76  | Yes                                            | 38.21             | 19.4210            |
|         |               |                    |                   |         | 8                     | 60.65           | 58.44  | Yes                                            |                   |                    |
|         |               | 5610               | 122               |         | 1                     | 60.66           | 58.16  | Yes                                            |                   |                    |
|         |               |                    |                   |         | 2                     | 79.95           | 77.14  | Yes                                            | 19.33             | 38.2340            |
|         |               |                    |                   |         | 4                     | 79.85           | 77.90  | Yes                                            | 37.89             | 19.2980            |
|         |               |                    |                   |         | 8                     | 60.93           | 58.68  | Yes                                            |                   |                    |
|         |               | 5690<br>(Straddle) | 138               |         | 1                     | 60.49           | 58.34  | Yes                                            |                   |                    |
|         |               |                    |                   |         | 2                     | 80.01           | 77.95  | Yes                                            | 19.20             | 37.7540            |
|         |               |                    |                   |         | 4                     | 79.74           | 78.05  | Yes                                            | 37.92             | 19.2230            |
|         |               |                    |                   |         | 8                     | 60.54           | 58.16  | Yes                                            |                   |                    |
| UNII-2a | ANT5          | 5290               | 58                | 484+242 | 1                     | 60.77           | 58.59  | Yes                                            |                   |                    |
|         |               |                    |                   |         | 2                     | 80.10           | 77.83  | Yes                                            | 19.29             | 38.2450            |
|         |               |                    |                   |         | 4                     | 80.34           | 77.79  | Yes                                            | 38.06             | 19.2600            |
|         |               |                    |                   |         | 8                     | 61.77           | 58.50  | Yes                                            |                   |                    |
| UNII-2c |               | 5530               | 106               | 484+242 | 1                     | 61.44           | 58.63  | Yes                                            |                   |                    |
|         |               |                    |                   |         | 2                     | 79.77           | 77.33  | Yes                                            | 19.37             | 38.1530            |
|         |               |                    |                   |         | 4                     | 79.95           | 77.44  | Yes                                            | 38.13             | 19.4820            |
|         |               |                    |                   |         | 8                     | 60.88           | 58.52  | Yes                                            |                   |                    |
|         |               | 5610               | 122               |         | 1                     | 60.66           | 58.40  | Yes                                            |                   |                    |
|         |               |                    |                   |         | 2                     | 80.22           | 77.78  | Yes                                            | 19.29             | 19.2940            |
|         |               |                    |                   |         | 4                     | 80.10           | 77.51  | Yes                                            | 37.87             | 19.3600            |
|         |               |                    |                   |         | 8                     | 61.37           | 58.24  | Yes                                            |                   |                    |
|         |               | 5690<br>(Straddle) | 138               |         | 1                     | 60.50           | 58.22  | Yes                                            |                   |                    |
|         |               |                    |                   |         | 2                     | 80.46           | 77.79  | Yes                                            | 19.24             | 38.0890            |
|         |               |                    |                   |         | 4                     | 80.51           | 77.75  | Yes                                            | 38.00             | 19.3590            |
|         |               |                    |                   |         | 8                     | 61.77           | 57.87  | Yes                                            |                   |                    |



**9.3.3. 802.11be EHT160 SISO MODE**

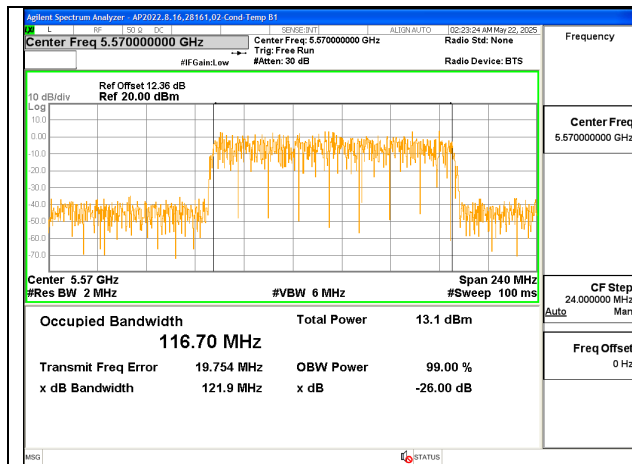
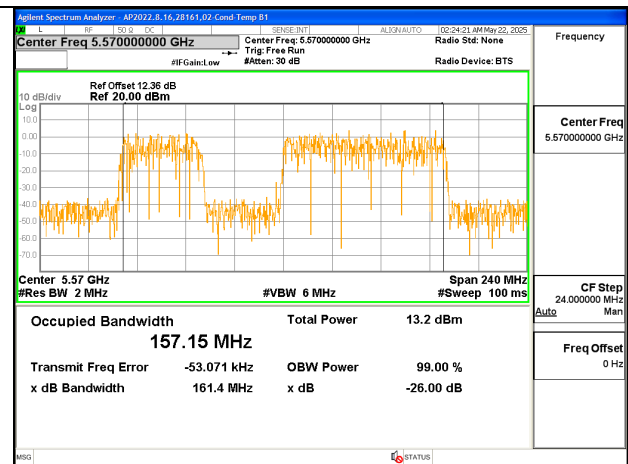
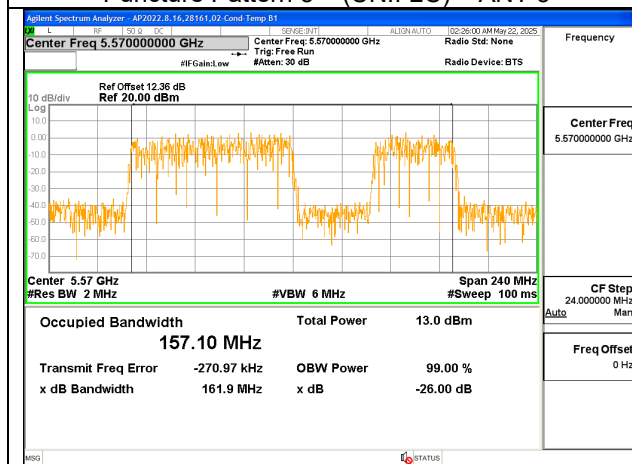
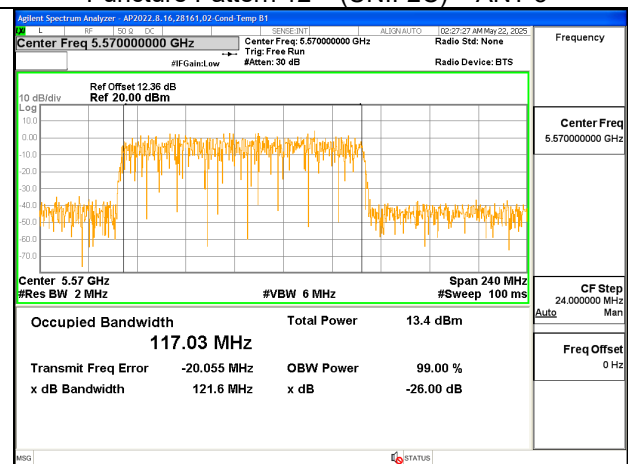
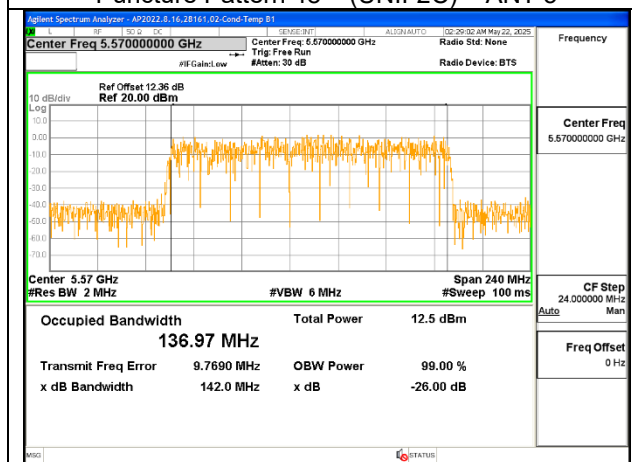
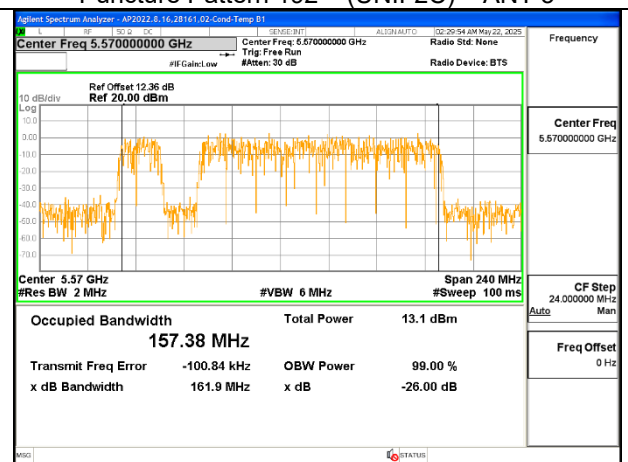
| EHT160  | SISO | Frequency<br>(MHz) | Channel<br>Number | Tone        | Puncturing<br>Pattern | Full Channel    |         |                         | Left<br>Bandwidth | Right<br>Bandwidth |
|---------|------|--------------------|-------------------|-------------|-----------------------|-----------------|---------|-------------------------|-------------------|--------------------|
|         |      |                    |                   |             |                       | Bandwidth (MHz) |         | Chan Punc<br>>26dB?     |                   |                    |
|         |      |                    |                   |             |                       | 26dB            | 99% BW  | Yes = Pass<br>No = Fail | 99% BW (MHz)      |                    |
| UNII-2A | ANT6 | 5250<br>(Straddle) | 50                | 996+484     | 3                     | 122.20          | 117.10  | Yes                     |                   |                    |
|         |      |                    |                   |             | 12                    | 161.00          | 156.70  | Yes                     | 39.01             | 77.5060            |
|         |      |                    |                   |             | 48                    | 161.50          | 156.90  | Yes                     | 78.42             | 38.8210            |
|         |      |                    |                   |             | 192                   | 121.90          | 117.41  | Yes                     |                   |                    |
|         |      |                    |                   | 996+484+242 | 1                     | 141.60          | 138.00  | Yes                     |                   |                    |
|         |      |                    |                   |             | 2                     | 161.30          | 157.46  | Yes                     | 20.18             | 117.4300           |
|         |      |                    |                   |             | 4                     | 161.90          | 156.75  | Yes                     | 39.10             | 98.1840            |
|         |      |                    |                   |             | 8                     | 161.60          | 156.23  | Yes                     | 58.81             | 78.3490            |
|         |      |                    |                   |             | 16                    | 160.90          | 154.36  | Yes                     | 78.13             | 59.0850            |
|         |      |                    |                   |             | 32                    | 160.50          | 156.37  | Yes                     | 98.08             | 36.3900            |
|         |      |                    |                   |             | 64                    | 160.90          | 156.13  | Yes                     | 117.01            | 20.1950            |
|         |      |                    |                   |             | 128                   | 142.40          | 136.54  | Yes                     |                   |                    |
| 996+484 |      | 3                  | 121.80            | 116.59      | Yes                   |                 |         |                         |                   |                    |
|         |      | 12                 | 161.30            | 156.99      | Yes                   | 38.77           | 78.2140 |                         |                   |                    |
|         |      | 48                 | 162.00            | 155.80      | Yes                   | 78.31           | 38.6050 |                         |                   |                    |
|         |      | 192                | 121.30            | 116.01      | Yes                   |                 |         |                         |                   |                    |
|         |      | 996+484+242        | 1                 | 141.90      | 137.32                | Yes             |         |                         |                   |                    |
|         |      |                    | 2                 | 161.40      | 157.71                | Yes             | 20.41   | 117.3800                |                   |                    |
|         |      |                    | 4                 | 161.30      | 156.25                | Yes             | 39.09   | 98.1390                 |                   |                    |
|         |      |                    | 8                 | 161.20      | 156.72                | Yes             | 59.08   | 78.4900                 |                   |                    |
| 16      |      |                    | 161.30            | 156.24      | Yes                   | 77.46           | 59.3950 |                         |                   |                    |
| 32      |      |                    | 162.00            | 156.52      | Yes                   | 98.06           | 38.9540 |                         |                   |                    |
| 64      |      |                    | 161.70            | 156.86      | Yes                   | 117.44          | 20.2430 |                         |                   |                    |
| 128     |      |                    | 142.40            | 137.28      | Yes                   |                 |         |                         |                   |                    |
| UNII-2A | ANT5 | 5250<br>(Straddle) | 50                | 996+484     | 3                     | 121.50          | 117.19  | Yes                     |                   |                    |
|         |      |                    |                   |             | 12                    | 161.30          | 156.89  | Yes                     | 38.71             | 78.0210            |
|         |      |                    |                   |             | 48                    | 161.10          | 156.64  | Yes                     | 78.17             | 38.6400            |
|         |      |                    |                   |             | 192                   | 120.80          | 116.68  | Yes                     |                   |                    |
|         |      |                    |                   | 996+484+242 | 1                     | 141.80          | 138.18  | Yes                     |                   |                    |
|         |      |                    |                   |             | 2                     | 161.40          | 156.21  | Yes                     | 20.16             | 117.3400           |
|         |      |                    |                   |             | 4                     | 160.80          | 155.65  | Yes                     | 39.05             | 97.5380            |
|         |      |                    |                   |             | 8                     | 160.20          | 155.02  | Yes                     | 59.34             | 78.0720            |
|         |      |                    |                   |             | 16                    | 161.80          | 156.53  | Yes                     | 78.00             | 58.9580            |
|         |      |                    |                   |             | 32                    | 161.10          | 156.41  | Yes                     | 99.11             | 38.7150            |
|         |      |                    |                   |             | 64                    | 161.70          | 156.39  | Yes                     | 117.42            | 20.3690            |
|         |      |                    |                   |             | 128                   | 142.60          | 137.20  | Yes                     |                   |                    |
| 996+484 |      | 3                  | 121.90            | 117.11      | Yes                   |                 |         |                         |                   |                    |
|         |      | 12                 | 161.50            | 156.42      | Yes                   | 38.94           | 78.0710 |                         |                   |                    |
|         |      | 48                 | 161.50            | 156.19      | Yes                   | 77.66           | 39.2550 |                         |                   |                    |
|         |      | 192                | 121.80            | 116.78      | Yes                   |                 |         |                         |                   |                    |
|         |      | 996+484+242        | 1                 | 142.20      | 137.11                | Yes             |         |                         |                   |                    |
|         |      |                    | 2                 | 161.50      | 157.03                | Yes             | 20.36   | 117.4500                |                   |                    |
|         |      |                    | 4                 | 161.60      | 156.08                | Yes             | 38.91   | 98.9350                 |                   |                    |
|         |      |                    | 8                 | 162.90      | 156.51                | Yes             | 58.77   | 78.5010                 |                   |                    |
| 16      |      |                    | 160.70            | 156.80      | Yes                   | 77.72           | 58.9200 |                         |                   |                    |
| 32      |      |                    | 161.70            | 156.77      | Yes                   | 97.82           | 38.9040 |                         |                   |                    |
| 64      |      |                    | 161.20            | 156.27      | Yes                   | 117.50          | 20.3320 |                         |                   |                    |
| 128     |      |                    | 142.00            | 136.65      | Yes                   |                 |         |                         |                   |                    |

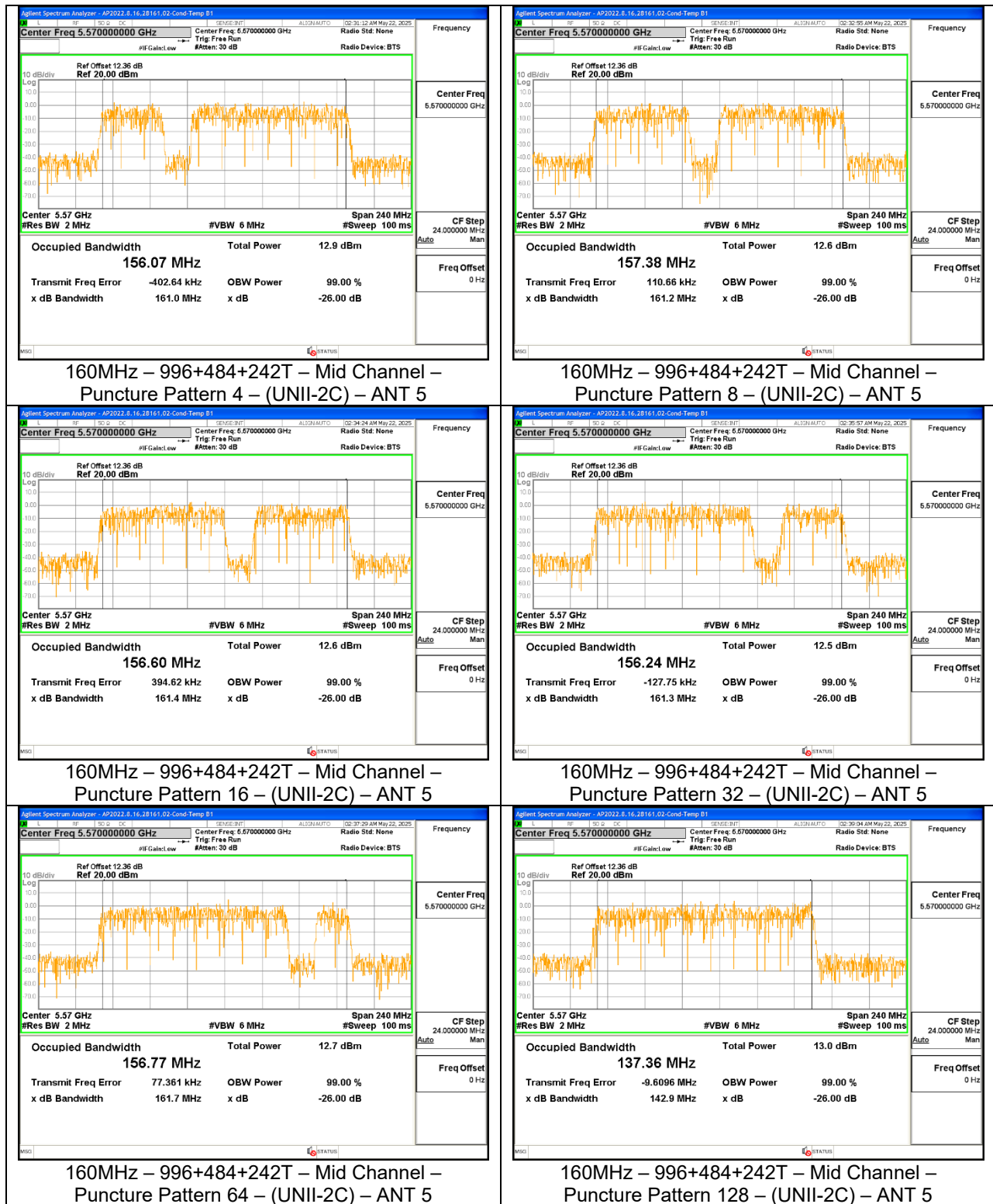




**9.3.4. 802.11be EHT160 MIMO CDD MODE**

| EHT160  | MIMO<br>(CDD) | Frequency<br>(MHz) | Channel<br>Number | Tone        | Puncturing<br>Pattern | Full Channel    |        |                                                | Left<br>Bandwidth | Right<br>Bandwidth |
|---------|---------------|--------------------|-------------------|-------------|-----------------------|-----------------|--------|------------------------------------------------|-------------------|--------------------|
|         |               |                    |                   |             |                       | Bandwidth (MHz) |        | Chan Punc<br>>26dB?<br>Yes = Pass<br>No = Fail |                   |                    |
|         |               |                    |                   |             |                       | 26dB            | 99% BW |                                                | 99% BW (MHz)      |                    |
| UNII-2a | ANT6          | 5250<br>(Straddle) | 50                | 996+484     | 3                     | 121.40          | 117.42 | Yes                                            |                   |                    |
|         |               |                    |                   |             | 12                    | 161.70          | 156.98 | Yes                                            | 38.51             | 78.0250            |
|         |               |                    |                   |             | 48                    | 161.10          | 157.17 | Yes                                            | 78.16             | 38.7370            |
|         |               |                    |                   |             | 192                   | 121.20          | 117.45 | Yes                                            |                   |                    |
|         |               |                    |                   | 996+484+242 | 1                     | 141.60          | 136.32 | Yes                                            |                   |                    |
|         |               |                    |                   |             | 2                     | 161.40          | 155.69 | Yes                                            | 20.27             | 117.0100           |
|         |               |                    |                   |             | 4                     | 161.40          | 156.66 | Yes                                            | 38.96             | 38.3380            |
|         |               |                    |                   |             | 8                     | 161.60          | 156.46 | Yes                                            | 58.87             | 77.5930            |
|         |               |                    |                   |             | 16                    | 161.70          | 155.61 | Yes                                            | 77.60             | 59.1720            |
|         |               |                    |                   |             | 32                    | 161.40          | 156.00 | Yes                                            | 98.57             | 38.9670            |
|         |               |                    |                   |             | 64                    | 161.10          | 156.84 | Yes                                            | 117.29            | 20.3300            |
|         |               |                    |                   |             | 128                   | 142.80          | 136.74 | Yes                                            |                   |                    |
|         |               | 5570               | 114               | 996+484     | 3                     | 121.80          | 116.87 | Yes                                            |                   |                    |
|         |               |                    |                   |             | 12                    | 162.00          | 157.10 | Yes                                            | 39.17             | 77.9900            |
|         |               |                    |                   |             | 48                    | 161.80          | 157.52 | Yes                                            | 77.58             | 38.9510            |
|         |               |                    |                   |             | 192                   | 121.90          | 117.17 | Yes                                            |                   |                    |
|         |               |                    |                   | 996+484+242 | 1                     | 141.90          | 136.66 | Yes                                            |                   |                    |
|         |               |                    |                   |             | 2                     | 162.10          | 156.34 | Yes                                            | 20.24             | 118.2900           |
|         |               |                    |                   |             | 4                     | 161.20          | 156.74 | Yes                                            | 38.98             | 98.5650            |
|         |               |                    |                   |             | 8                     | 161.10          | 156.29 | Yes                                            | 59.27             | 77.8230            |
|         |               |                    |                   |             | 16                    | 161.70          | 157.05 | Yes                                            | 77.87             | 58.8240            |
|         |               |                    |                   |             | 32                    | 162.00          | 157.50 | Yes                                            | 98.82             | 38.7110            |
|         |               |                    |                   |             | 64                    | 161.90          | 156.75 | Yes                                            | 117.67            | 20.0710            |
|         |               |                    |                   |             | 128                   | 142.60          | 136.24 | Yes                                            |                   |                    |
| UNII-2a | ANT5          | 5250<br>(Straddle) | 50                | 996+484     | 3                     | 121.90          | 117.08 | Yes                                            |                   |                    |
|         |               |                    |                   |             | 12                    | 161.70          | 157.16 | Yes                                            | 38.74             | 78.4820            |
|         |               |                    |                   |             | 48                    | 161.80          | 157.23 | Yes                                            | 78.37             | 38.6270            |
|         |               |                    |                   |             | 192                   | 121.60          | 117.18 | Yes                                            |                   |                    |
|         |               |                    |                   | 996+484+242 | 1                     | 141.90          | 136.56 | Yes                                            |                   |                    |
|         |               |                    |                   |             | 2                     | 161.50          | 156.86 | Yes                                            | 20.38             | 117.7400           |
|         |               |                    |                   |             | 4                     | 162.40          | 156.57 | Yes                                            | 38.95             | 38.4910            |
|         |               |                    |                   |             | 8                     | 161.50          | 156.29 | Yes                                            | 58.39             | 77.8250            |
|         |               |                    |                   |             | 16                    | 162.10          | 155.76 | Yes                                            | 77.61             | 59.1730            |
|         |               |                    |                   |             | 32                    | 162.50          | 155.40 | Yes                                            | 98.88             | 38.8940            |
|         |               |                    |                   |             | 64                    | 161.30          | 156.53 | Yes                                            | 117.81            | 20.3400            |
|         |               |                    |                   |             | 128                   | 142.40          | 136.88 | Yes                                            |                   |                    |
|         |               | 5570               | 114               | 996+484     | 3                     | 121.90          | 116.70 | Yes                                            |                   |                    |
|         |               |                    |                   |             | 12                    | 161.40          | 157.15 | Yes                                            | 38.91             | 77.7340            |
|         |               |                    |                   |             | 48                    | 161.90          | 157.10 | Yes                                            | 76.90             | 38.5720            |
|         |               |                    |                   |             | 192                   | 121.60          | 117.03 | Yes                                            |                   |                    |
|         |               |                    |                   | 996+484+242 | 1                     | 142.00          | 136.97 | Yes                                            |                   |                    |
|         |               |                    |                   |             | 2                     | 161.90          | 157.38 | Yes                                            | 20.31             | 117.4800           |
|         |               |                    |                   |             | 4                     | 161.00          | 156.07 | Yes                                            | 39.12             | 97.9960            |
|         |               |                    |                   |             | 8                     | 161.20          | 157.38 | Yes                                            | 59.38             | 78.5340            |
|         |               |                    |                   |             | 16                    | 161.40          | 156.60 | Yes                                            | 78.35             | 59.4890            |
|         |               |                    |                   |             | 32                    | 161.30          | 156.24 | Yes                                            | 97.28             | 38.8730            |
|         |               |                    |                   |             | 64                    | 161.70          | 156.77 | Yes                                            | 117.55            | 20.3990            |
|         |               |                    |                   |             | 128                   | 142.90          | 137.36 | Yes                                            |                   |                    |

160MHz – 996+484T – Mid Channel –  
Puncture Pattern 3 – (UNII-2C) – ANT 5160MHz – 996+484T – Mid Channel –  
Puncture Pattern 12 – (UNII-2C) – ANT 5160MHz – 996+484T – Mid Channel –  
Puncture Pattern 48 – (UNII-2C) – ANT 5160MHz – 996+484T – Mid Channel –  
Puncture Pattern 192 – (UNII-2C) – ANT 5160MHz – 996+484+242T – Mid Channel –  
Puncture Pattern 1 – (UNII-2C) – ANT 5160MHz – 996+484+242T – Mid Channel –  
Puncture Pattern 2 – (UNII-2C) – ANT 5



## **9.4. 6 dB BANDWIDTH**

### **LIMITS**

FCC §15.407 (e)

RSS-247 6.2.4.1

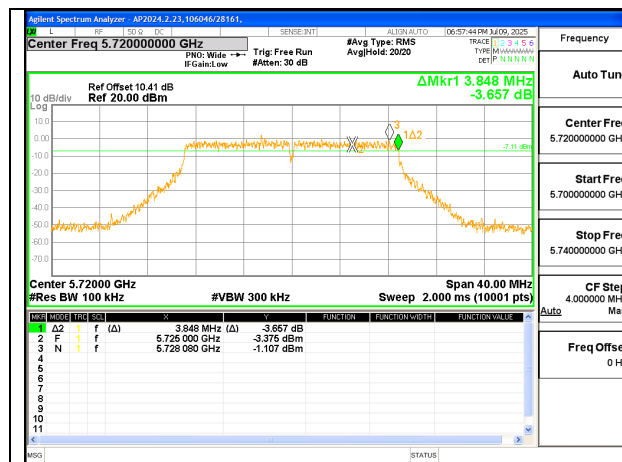
The minimum 6 dB bandwidth shall be at least 500 kHz.

### **RESULTS**

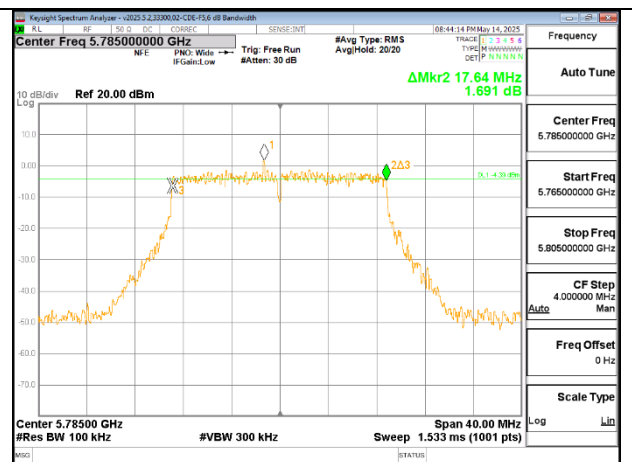
For 6dB bandwidth measurements, the 802.11be HT20 was tested at 26T as a worst-case scenario. For straddle channels, 52T was tested as worst-case as 26T is not supported.

### 9.4.1. 802.11n/ac SISO MODE IN THE 5.8 GHz BAND

| UNII-3<br>(SISO) | Frequency<br>(MHz) | Channel<br>Number | 6 dB BW<br>(MHz) |        |
|------------------|--------------------|-------------------|------------------|--------|
|                  |                    |                   | Ant 6            | Ant 5  |
| HT20             | 5720<br>(Straddle) | 144               | 3.848            | 3.856  |
|                  | 5745               | 149               | 17.760           | 17.800 |
|                  | 5785               | 157               | 17.640           | 17.680 |
|                  | 5825               | 165               | 17.880           | 17.720 |
| HT40             | 5710<br>(Straddle) | 142               | 3.240            | 3.256  |
|                  | 5755               | 151               | 36.560           | 36.640 |
|                  | 5795               | 159               | 36.480           | 36.240 |
| VHT80            | 5690<br>(Straddle) | 138               | 3.256            | 3.240  |
|                  | 5775               | 155               | 76.640           | 76.320 |



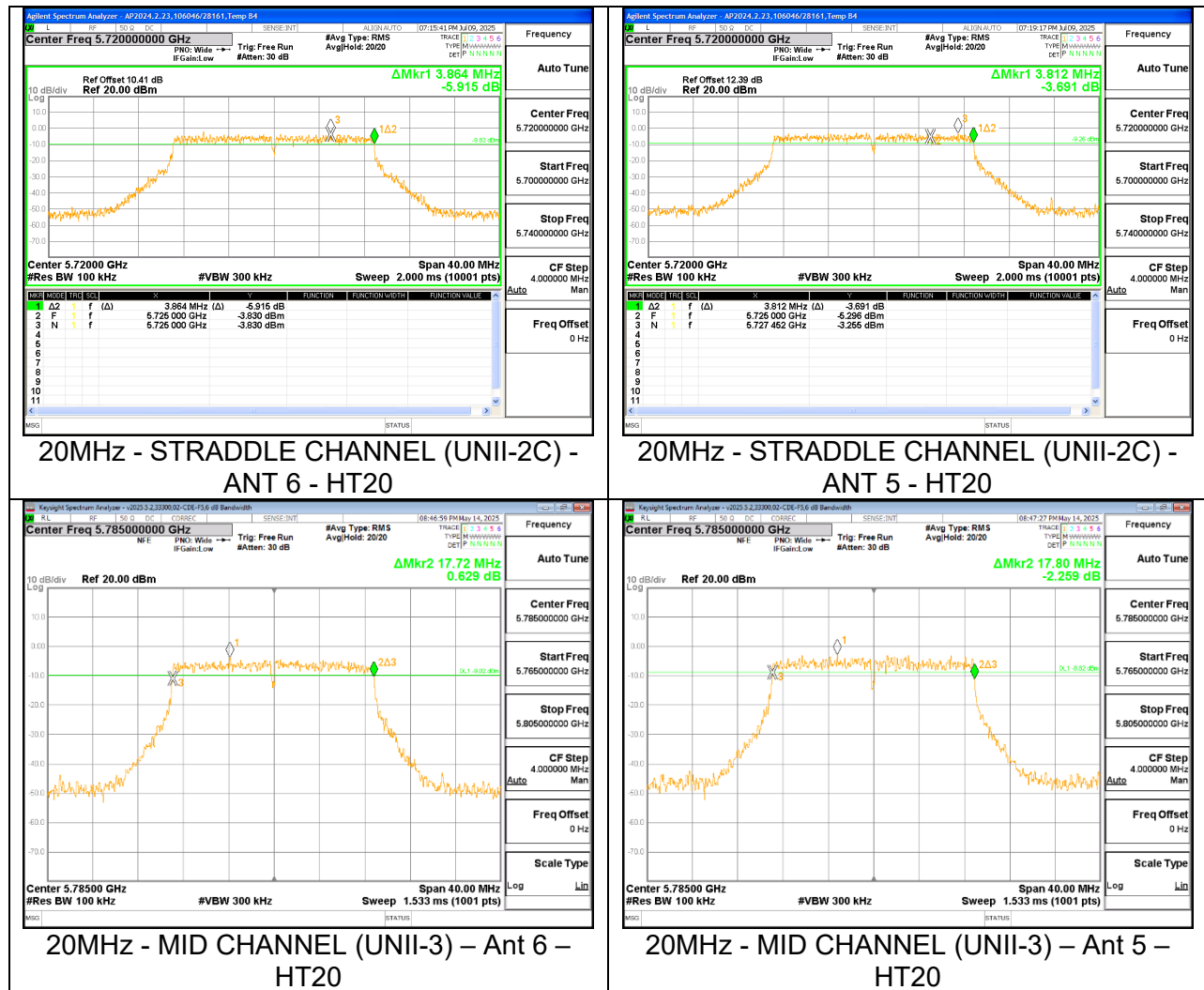
20MHz - STRADDLE CHANNEL (UNII-2C) -  
ANT 6 - HT20



20MHz - MID CHANNEL (UNII-3) – Ant 6 –  
HT20

**9.4.2. 802.11n/ac MIMO CDD MODE IN THE 5.8 GHz BAND**

| UNII-3<br>(MIMO CDD) | Frequency<br>(MHz) | Channel<br>Number | 6 dB BW<br>(MHz) |        |
|----------------------|--------------------|-------------------|------------------|--------|
|                      |                    |                   | Ant 6            | Ant 5  |
| <b>HT20</b>          | 5720<br>(Straddle) | 144               | 3.864            | 3.812  |
|                      | 5745               | 149               | 17.640           | 17.640 |
|                      | 5785               | 157               | 17.720           | 17.800 |
|                      | 5825               | 165               | 17.720           | 17.840 |
| <b>HT40</b>          | 5710<br>(Straddle) | 142               | 3.240            | 3.240  |
|                      | 5755               | 151               | 36.640           | 36.720 |
|                      | 5795               | 159               | 36.560           | 36.640 |
| <b>VHT80</b>         | 5690<br>(Straddle) | 138               | 3.192            | 3.240  |
|                      | 5775               | 155               | 76.640           | 76.640 |



**9.4.3. 802.11be SISO MODE IN THE 5.8 GHz BAND**

| UNII-3<br>(SISO) | Frequency<br>(MHz) | Channel<br>Number | Tone | RU<br>Index | 6 dB BW<br>(MHz) |       |
|------------------|--------------------|-------------------|------|-------------|------------------|-------|
|                  |                    |                   |      |             | Ant 6            | Ant 5 |
| EHT20            | 5720<br>(Straddle) | 144               | SU   | --          | --               | --    |
|                  |                    |                   | 52T  |             |                  |       |
|                  |                    |                   |      | 40          | 3.924            | 4.028 |
|                  | 5745               | 149               | SU   | --          | --               | --    |
|                  |                    |                   | 26T  | 0           | 1.960            | 2.040 |
|                  |                    |                   |      | 4           | 2.560            | 2.600 |
|                  |                    |                   |      | 8           | 2.120            | 2.040 |
|                  | 5785               | 157               | SU   | --          | --               | --    |
|                  |                    |                   | 26T  | 0           | 2.000            | 2.080 |
|                  |                    |                   |      | 4           | 2.640            | 2.680 |
|                  |                    |                   |      | 8           | 2.040            | 2.080 |
|                  | 5825               | 165               | SU   | --          | --               | --    |
|                  |                    |                   | 26T  | 0           | 2.080            | 2.040 |
|                  |                    |                   |      | 4           | 2.640            | 2.640 |
|                  |                    |                   |      | 8           | 2.120            | 2.120 |
| EHT40            | 5710<br>(Straddle) | 142               | SU   | --          | --               | --    |
|                  |                    |                   | 52T  |             |                  |       |
|                  |                    |                   |      | 44          | 3.960            | 3.992 |
|                  | 5755               | 151               | SU   | --          | --               | --    |
|                  |                    |                   | 26t  | 0           | 2.160            | 2.160 |
|                  |                    |                   |      | 9           | 2.240            | 2.080 |
|                  |                    |                   |      | 17          | 2.000            | 2.160 |
|                  | 5795               | 159               | SU   | --          | --               | --    |
|                  |                    |                   | 26T  | 0           | 2.160            | 2.160 |
|                  |                    |                   |      | 9           | 2.160            | 2.240 |
| EHT80            | 5690<br>(Straddle) | 138               | SU   | --          | --               | --    |
|                  |                    |                   | 52T  |             |                  |       |
|                  |                    |                   |      | 52          | 3.992            | 4.040 |
|                  | 5775               | 155               | SU   | --          | --               | --    |
|                  |                    |                   | 26T  | 0           | 2.400            | 2.240 |
|                  |                    |                   |      | 18          | 2.240            | 2.240 |
|                  |                    |                   |      | 36          | 2.400            | 2.400 |