

**TEST REPORT**

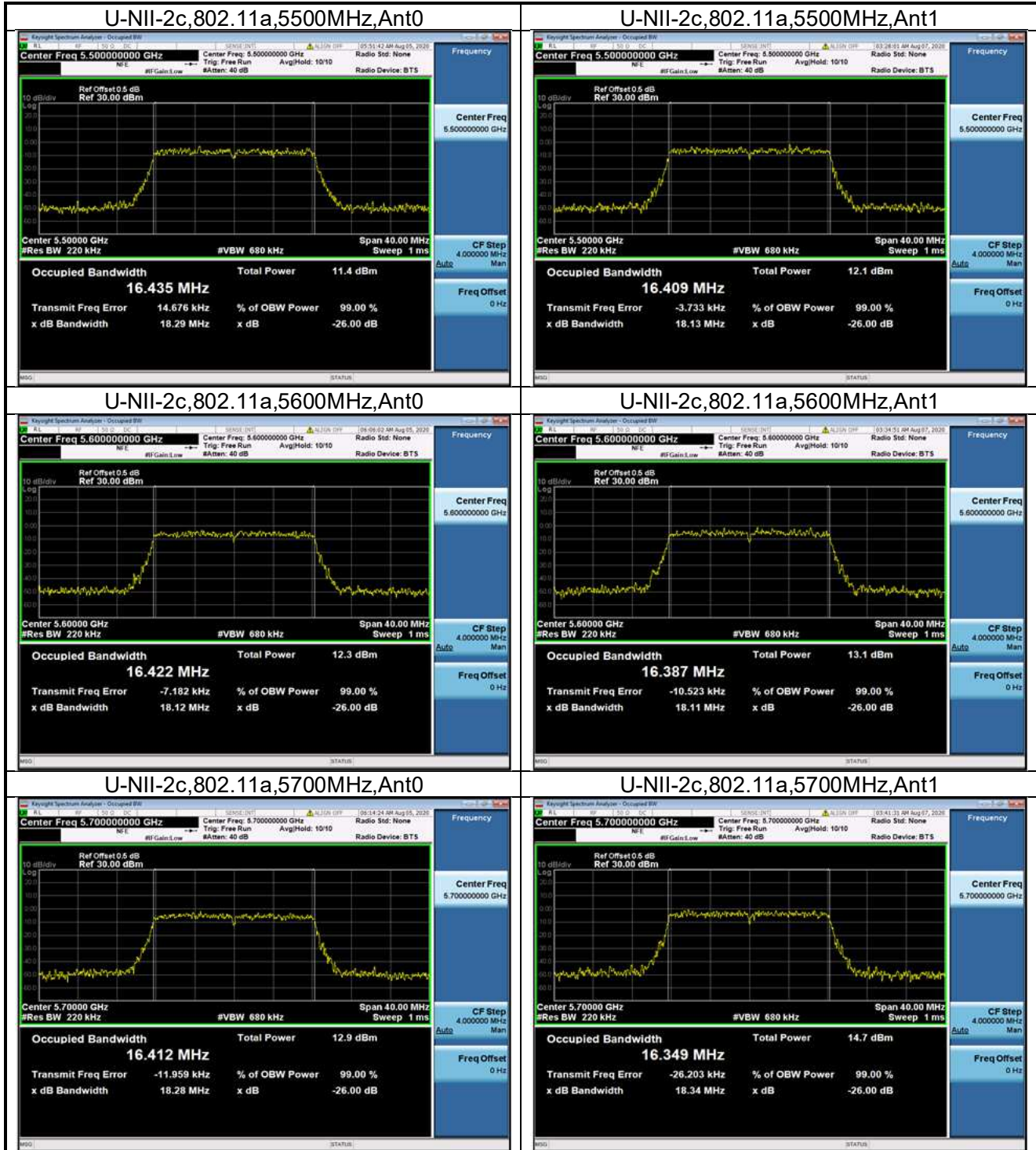
**Appendix C: Test results**

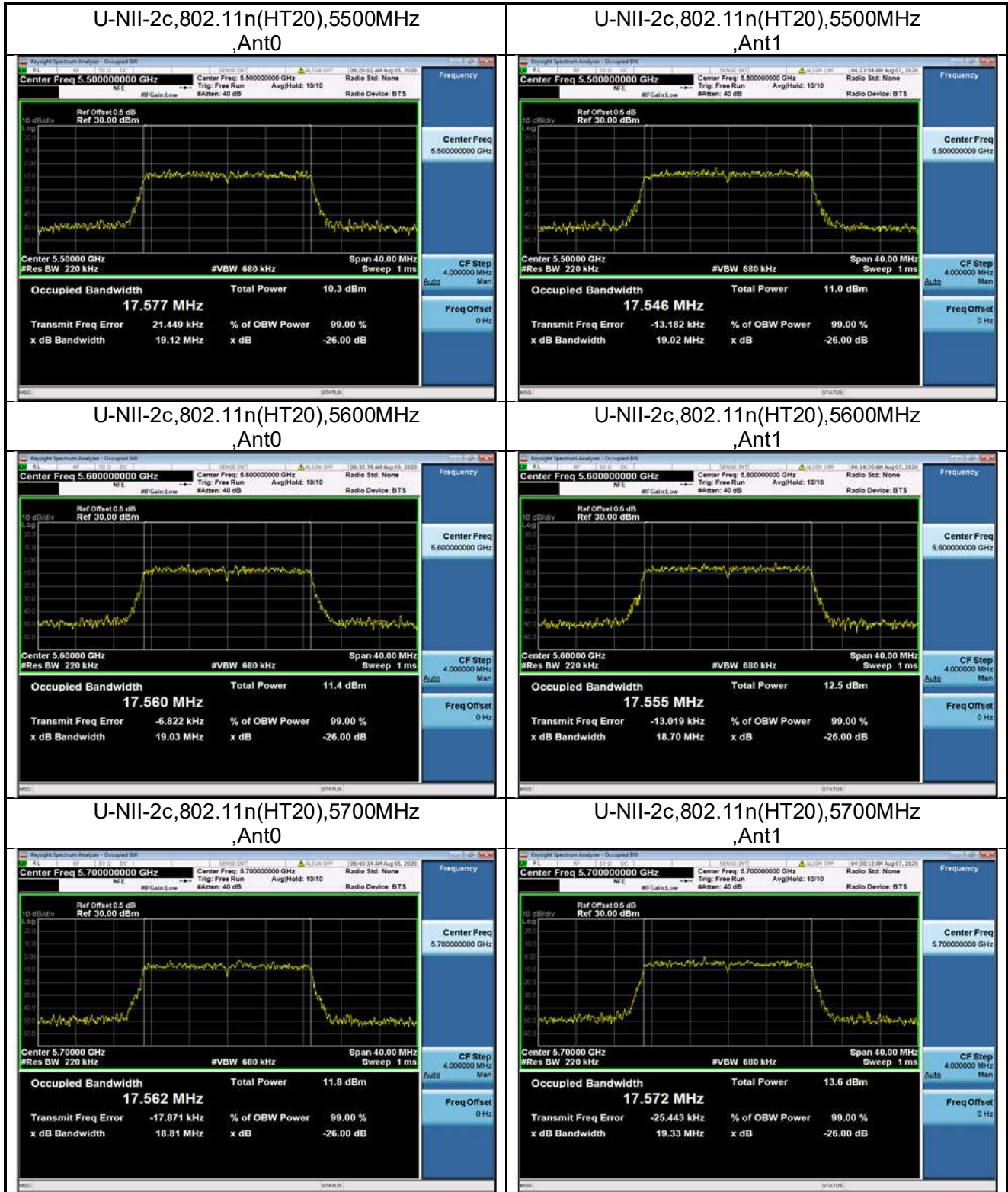
1. Occupied N dB Bandwidth

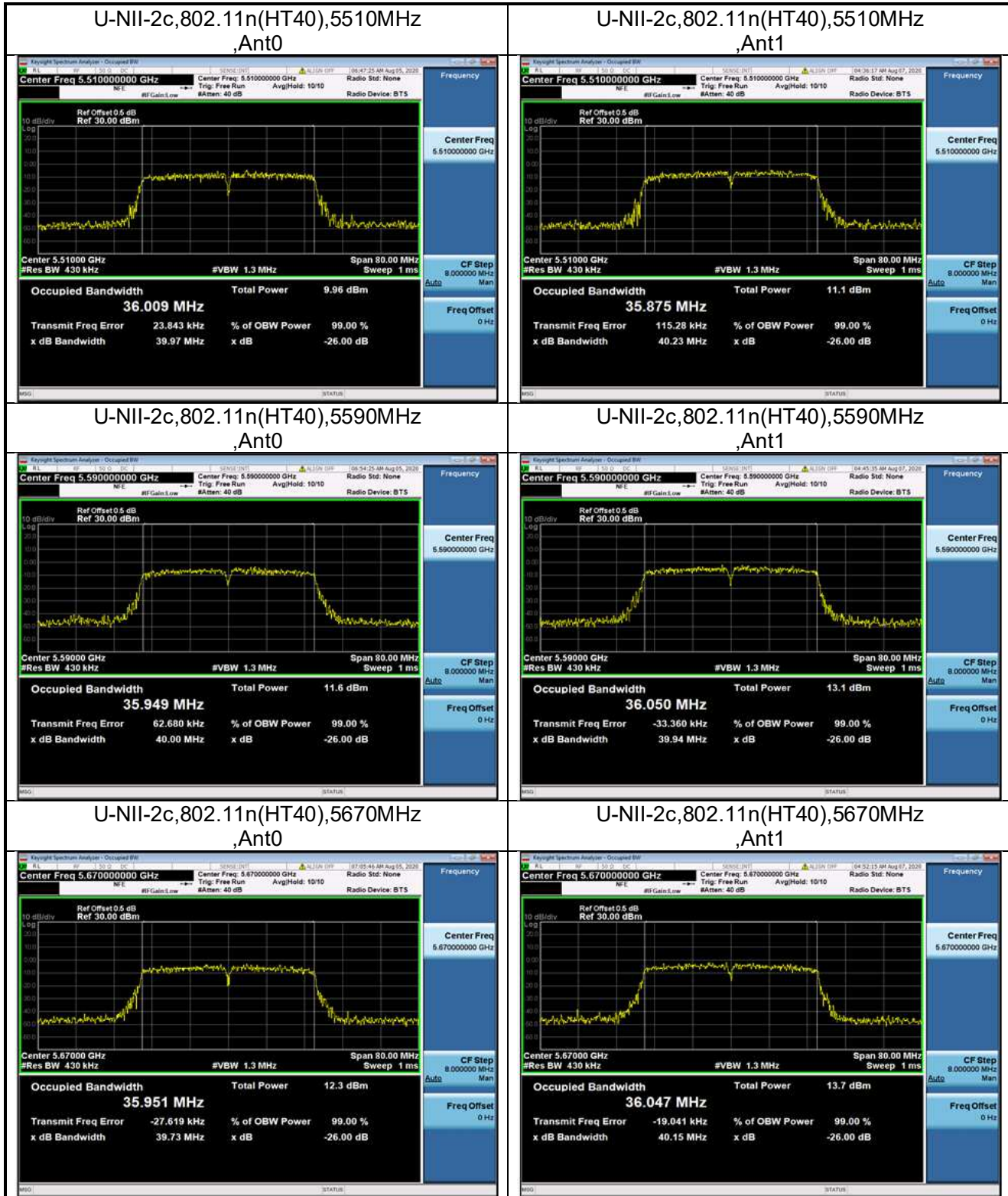
1.1 Test Data

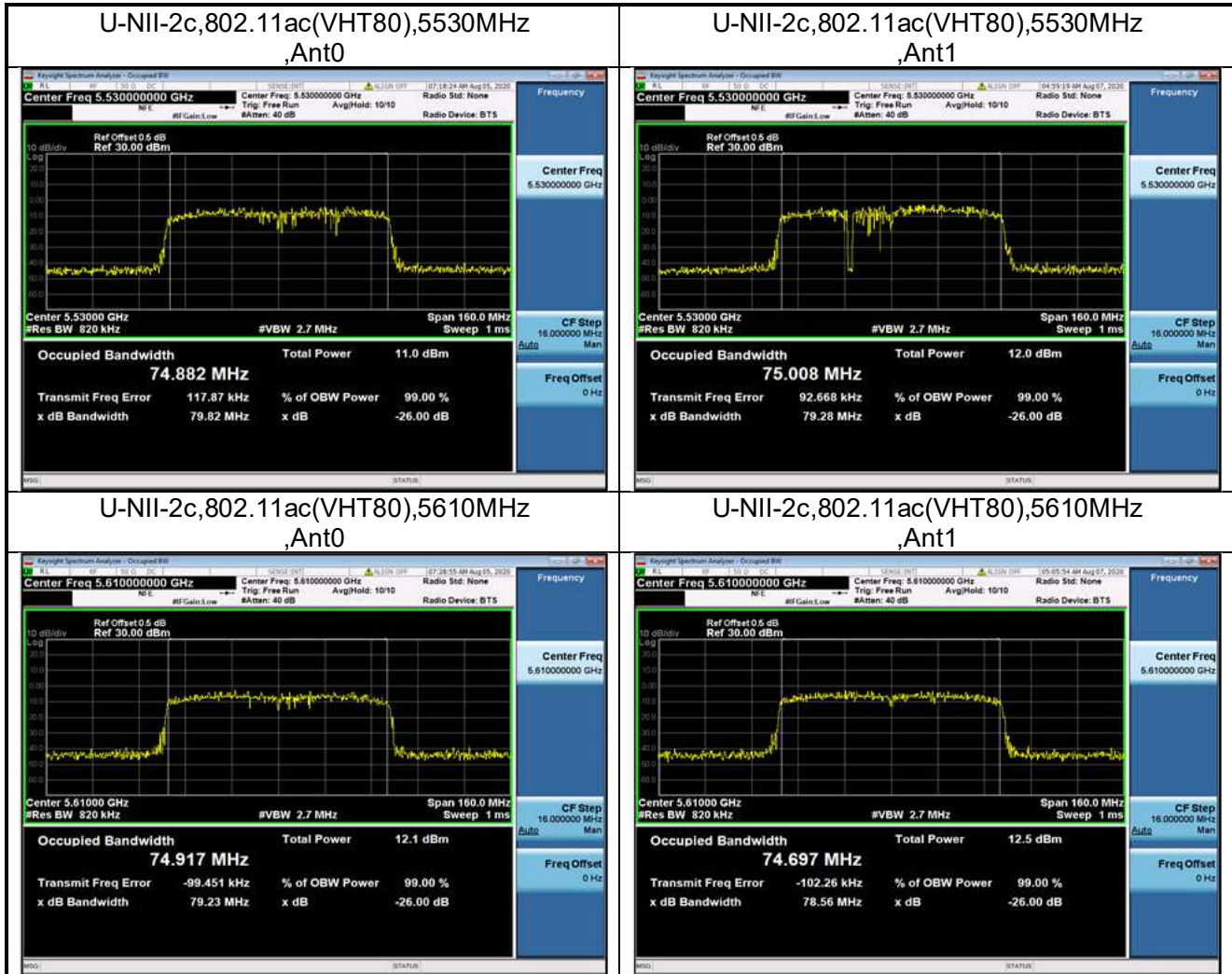
| U-NII-2c Occupied N dB Bandwidth |                      |      |                          |        |
|----------------------------------|----------------------|------|--------------------------|--------|
| Mode                             | Test Frequency (MHz) | Ant  | Occupied Bandwidth (MHz) | Result |
| 802.11a                          | 5500                 | Ant0 | 18.29                    | Pass   |
| 802.11a                          | 5500                 | Ant1 | 18.13                    | Pass   |
| 802.11a                          | 5600                 | Ant0 | 18.12                    | Pass   |
| 802.11a                          | 5600                 | Ant1 | 18.11                    | Pass   |
| 802.11a                          | 5700                 | Ant0 | 18.28                    | Pass   |
| 802.11a                          | 5700                 | Ant1 | 18.34                    | Pass   |
| 802.11n (HT20)                   | 5500                 | Ant0 | 19.12                    | Pass   |
| 802.11n (HT20)                   | 5500                 | Ant1 | 19.02                    | Pass   |
| 802.11n (HT20)                   | 5600                 | Ant0 | 19.03                    | Pass   |
| 802.11n (HT20)                   | 5600                 | Ant1 | 18.70                    | Pass   |
| 802.11n (HT20)                   | 5700                 | Ant0 | 18.81                    | Pass   |
| 802.11n (HT20)                   | 5700                 | Ant1 | 19.33                    | Pass   |
| 802.11n (HT40)                   | 5510                 | Ant0 | 39.97                    | Pass   |
| 802.11n (HT40)                   | 5510                 | Ant1 | 40.23                    | Pass   |
| 802.11n (HT40)                   | 5590                 | Ant0 | 40.00                    | Pass   |
| 802.11n (HT40)                   | 5590                 | Ant1 | 39.94                    | Pass   |
| 802.11n (HT40)                   | 5670                 | Ant0 | 39.73                    | Pass   |
| 802.11n (HT40)                   | 5670                 | Ant1 | 40.15                    | Pass   |
| 802.11ac (VHT80)                 | 5530                 | Ant0 | 79.82                    | Pass   |
| 802.11ac (VHT80)                 | 5530                 | Ant1 | 79.28                    | Pass   |
| 802.11ac (VHT80)                 | 5610                 | Ant0 | 79.23                    | Pass   |
| 802.11ac (VHT80)                 | 5610                 | Ant1 | 78.56                    | Pass   |

### 1.2 Test Plots









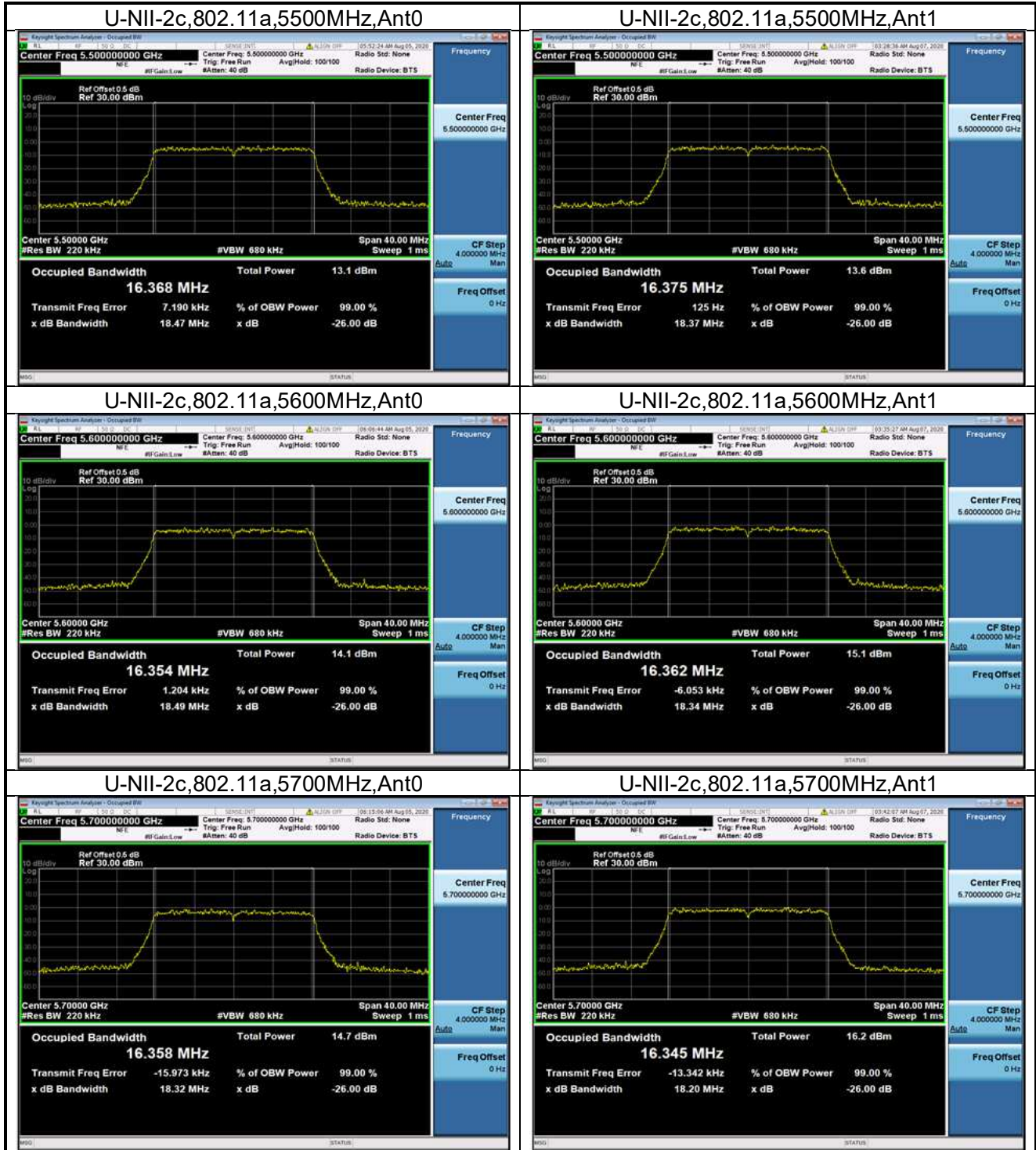
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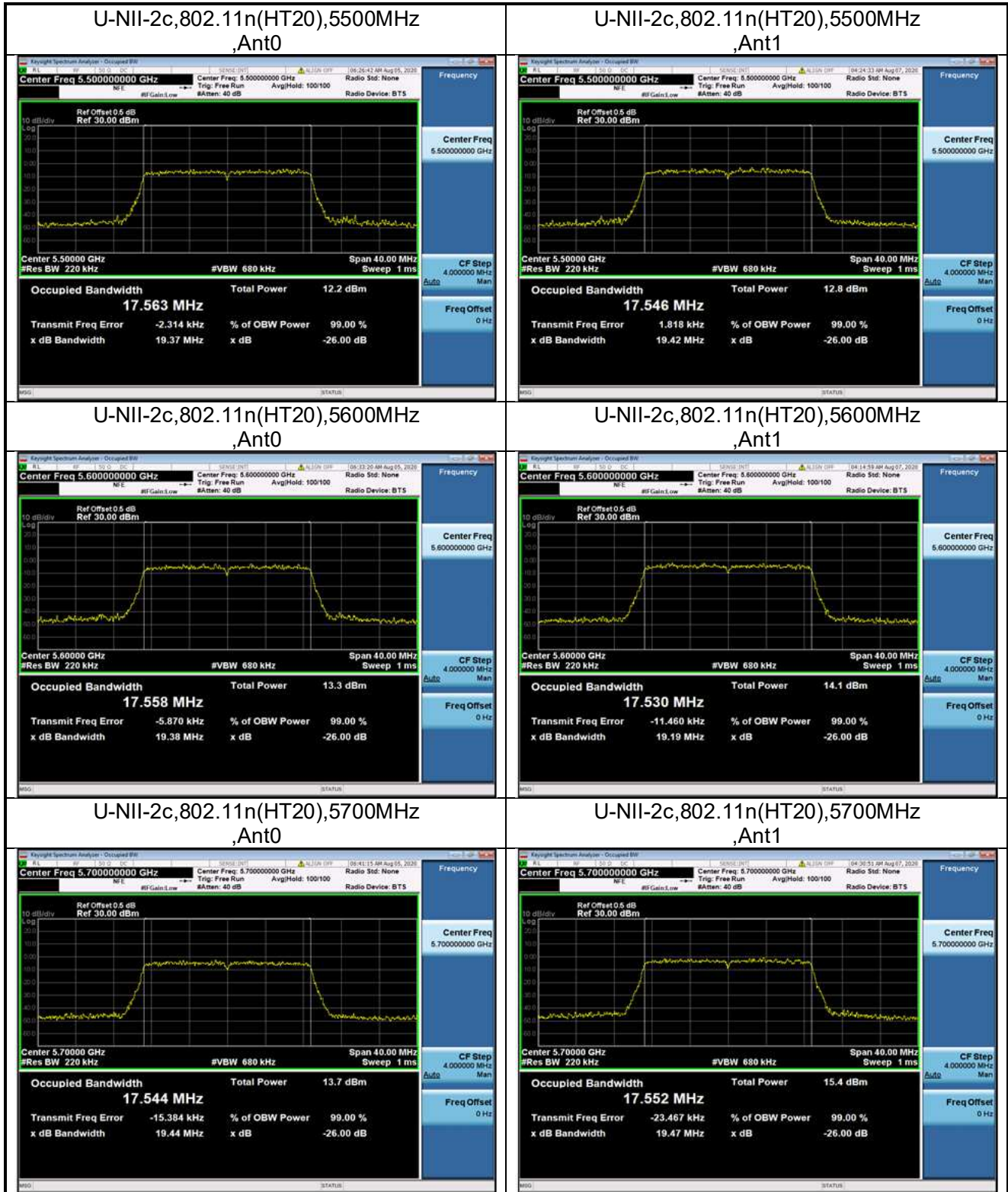
2. 99% Occupied Bandwidth

2.1 Test Data

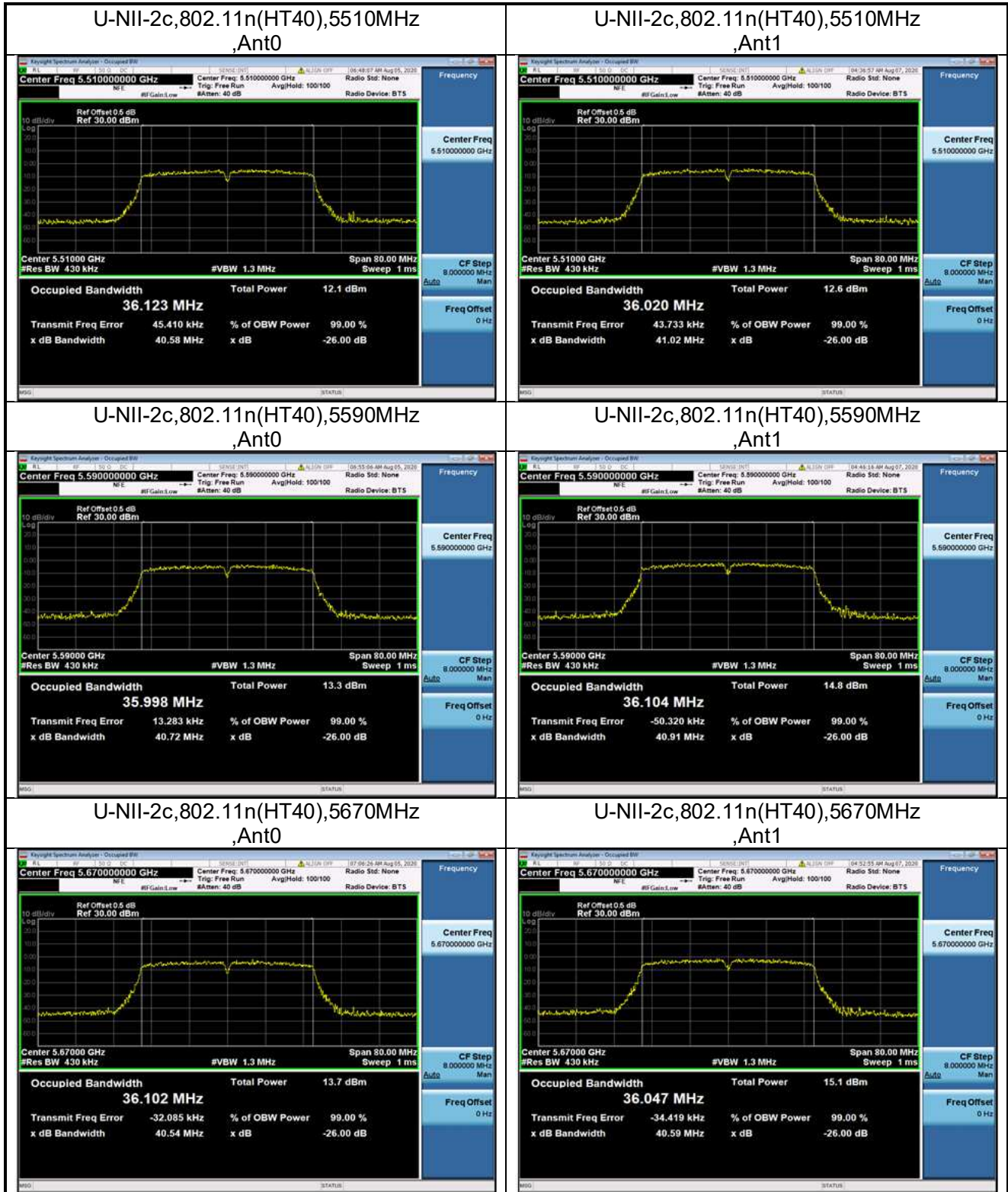
| U-NII-2c 99% Occupied Bandwidth |                      |      |                              |        |
|---------------------------------|----------------------|------|------------------------------|--------|
| Mode                            | Test Frequency (MHz) | Ant  | 99% Occupied Bandwidth (MHz) | Result |
| 802.11a                         | 5500                 | Ant0 | 16.368                       | Pass   |
| 802.11a                         | 5500                 | Ant1 | 16.375                       | Pass   |
| 802.11a                         | 5600                 | Ant0 | 16.354                       | Pass   |
| 802.11a                         | 5600                 | Ant1 | 16.362                       | Pass   |
| 802.11a                         | 5700                 | Ant0 | 16.358                       | Pass   |
| 802.11a                         | 5700                 | Ant1 | 16.345                       | Pass   |
| 802.11n (HT20)                  | 5500                 | Ant0 | 17.563                       | Pass   |
| 802.11n (HT20)                  | 5500                 | Ant1 | 17.546                       | Pass   |
| 802.11n (HT20)                  | 5600                 | Ant0 | 17.558                       | Pass   |
| 802.11n (HT20)                  | 5600                 | Ant1 | 17.530                       | Pass   |
| 802.11n (HT20)                  | 5700                 | Ant0 | 17.544                       | Pass   |
| 802.11n (HT20)                  | 5700                 | Ant1 | 17.552                       | Pass   |
| 802.11n (HT40)                  | 5510                 | Ant0 | 36.123                       | Pass   |
| 802.11n (HT40)                  | 5510                 | Ant1 | 36.020                       | Pass   |
| 802.11n (HT40)                  | 5590                 | Ant0 | 35.998                       | Pass   |
| 802.11n (HT40)                  | 5590                 | Ant1 | 36.104                       | Pass   |
| 802.11n (HT40)                  | 5670                 | Ant0 | 36.102                       | Pass   |
| 802.11n (HT40)                  | 5670                 | Ant1 | 36.047                       | Pass   |
| 802.11ac (VHT80)                | 5530                 | Ant0 | 74.725                       | Pass   |
| 802.11ac (VHT80)                | 5530                 | Ant1 | 74.549                       | Pass   |
| 802.11ac (VHT80)                | 5610                 | Ant0 | 74.644                       | Pass   |
| 802.11ac (VHT80)                | 5610                 | Ant1 | 74.623                       | Pass   |

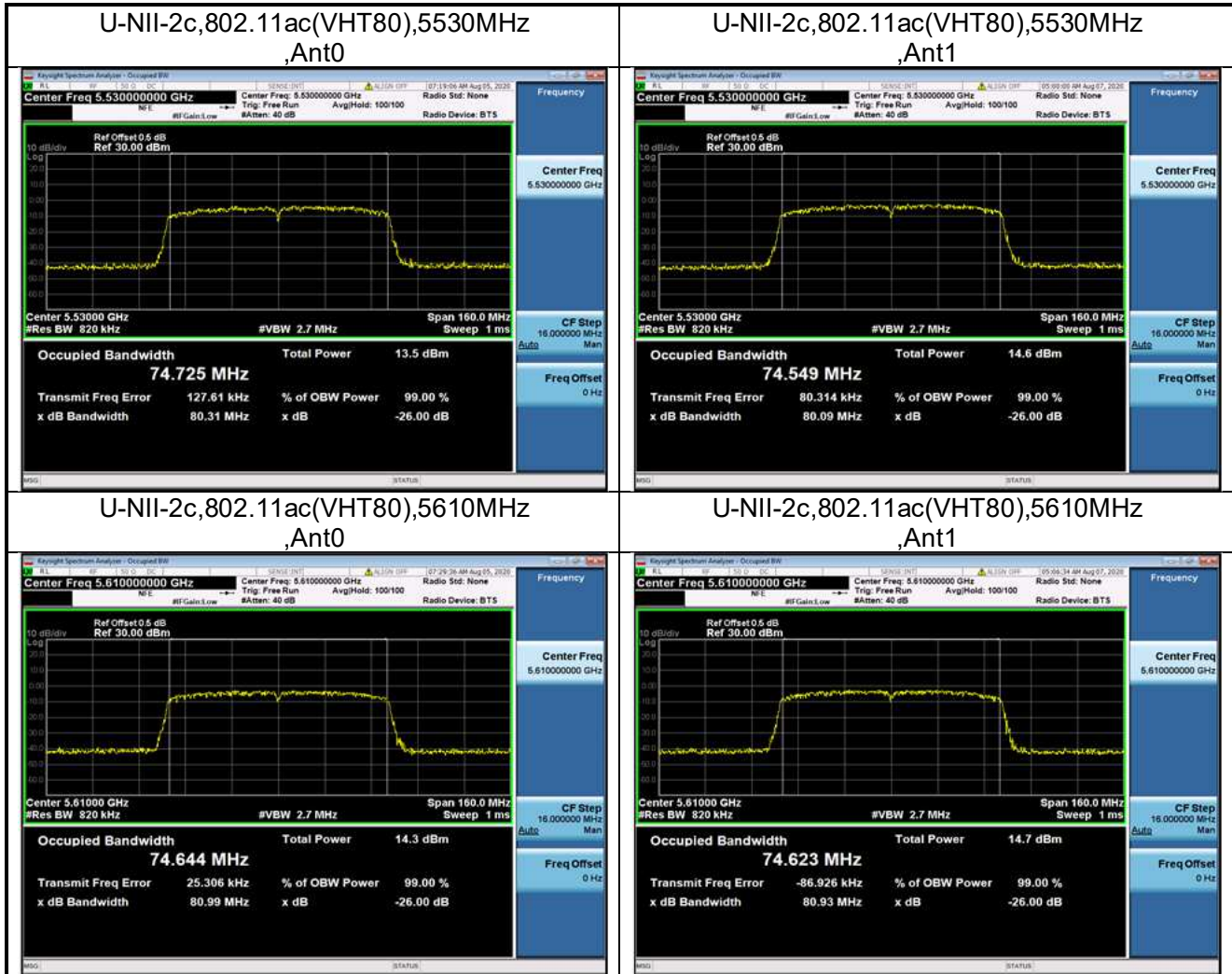
### 2.2 Test Plots











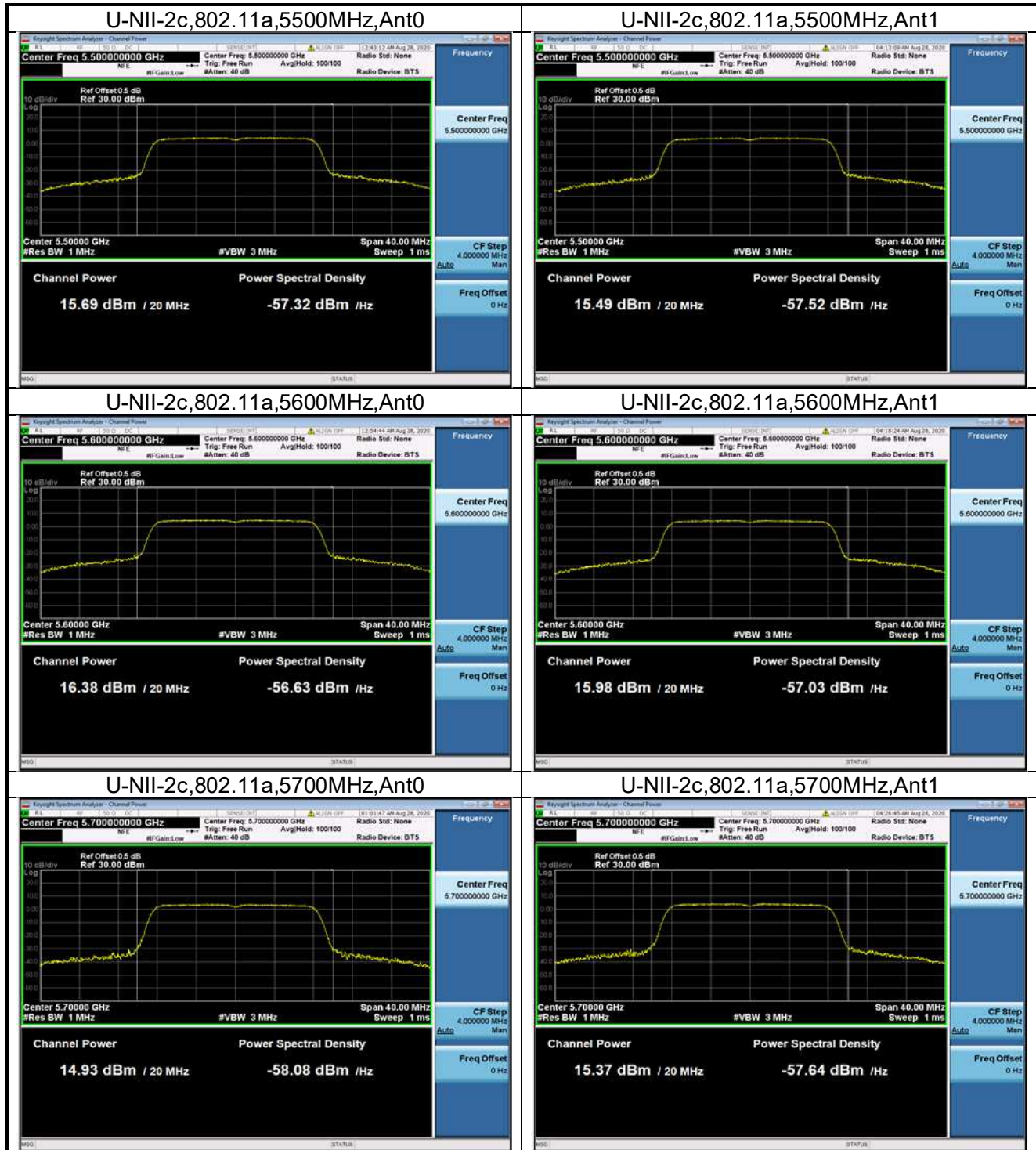
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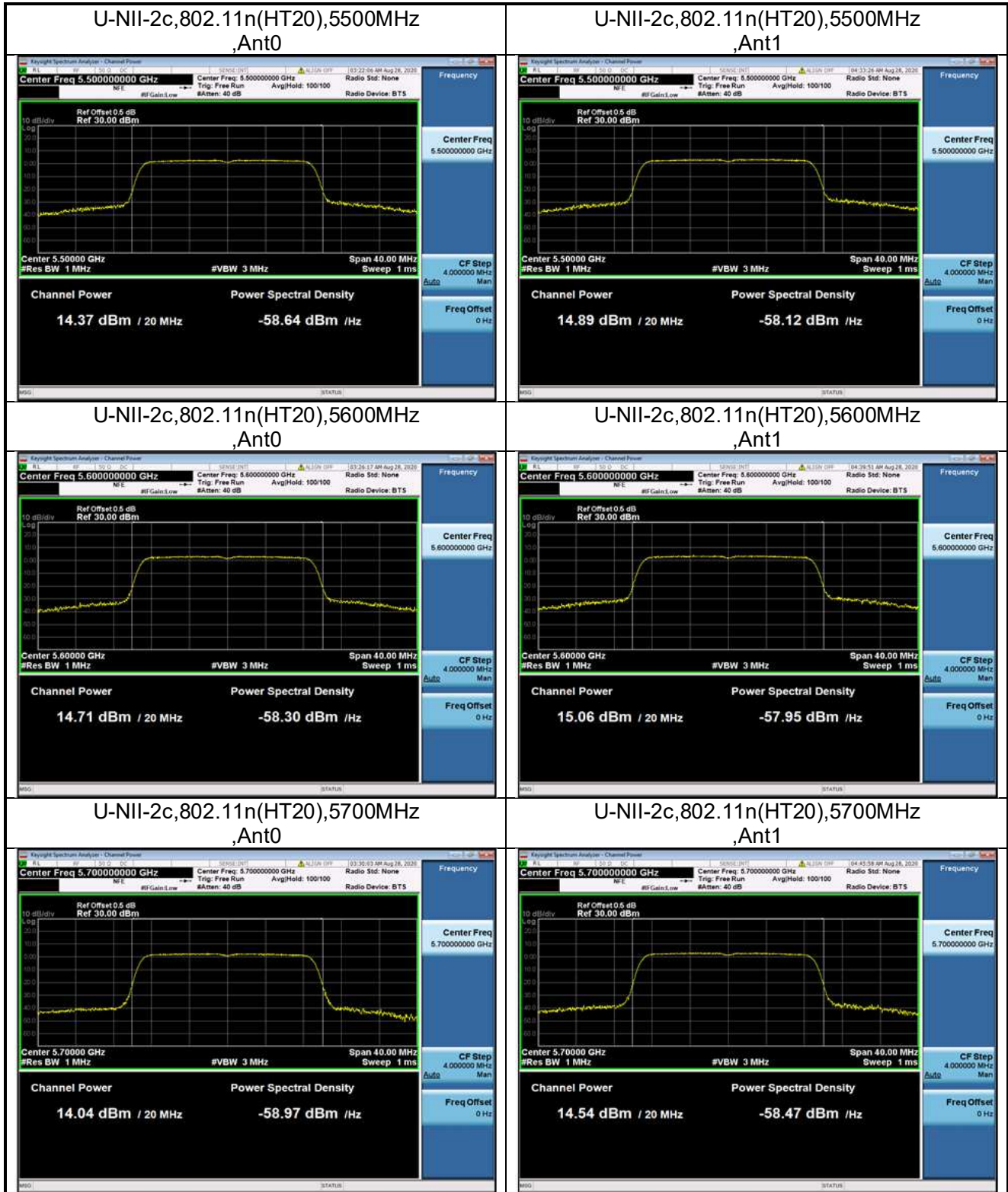
3. AVGSA Output Power

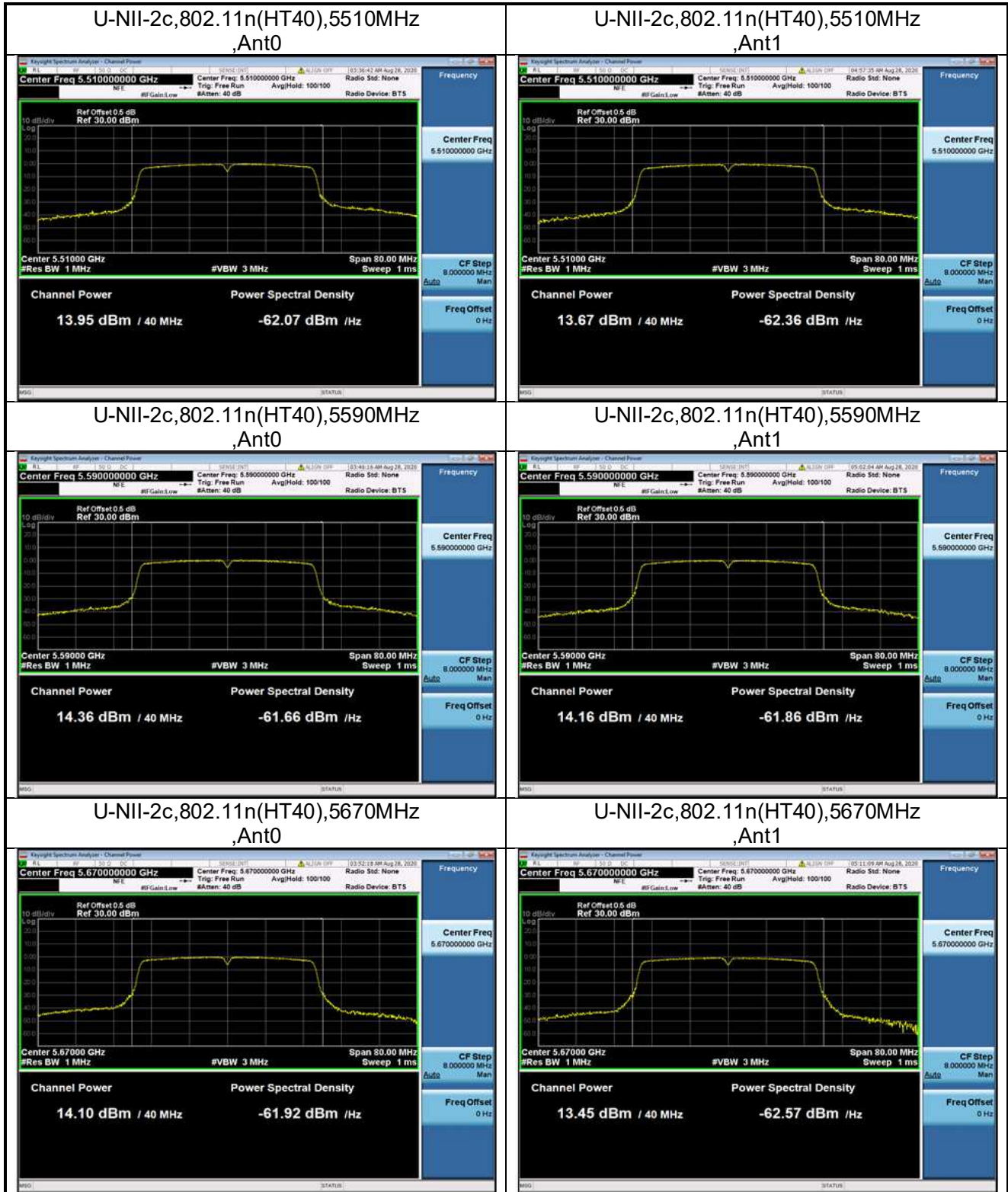
3.1 Test Data

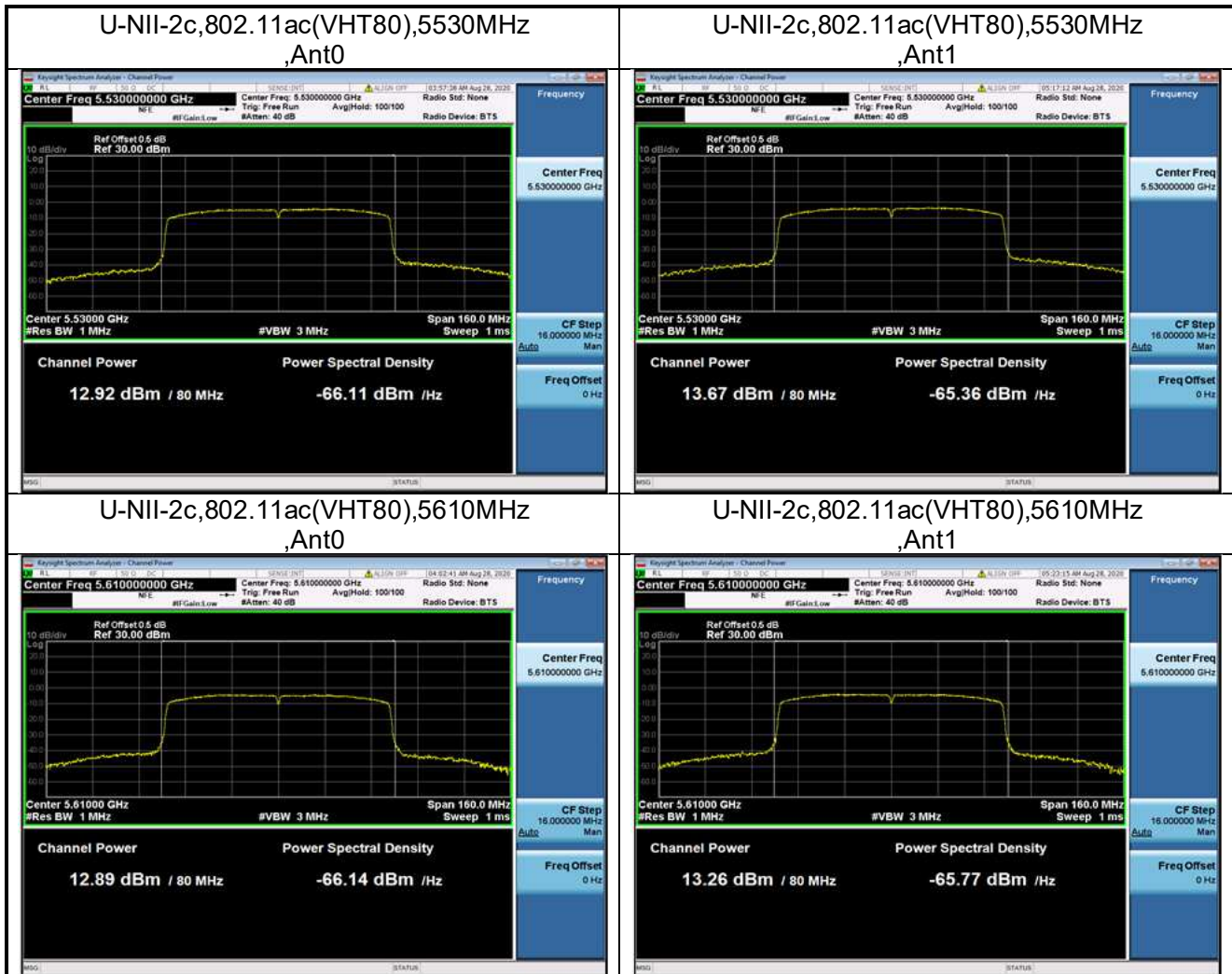
| U-NII-2a AVGSA Output Power |                      |      |                        |                 |                   |                 |                |            |        |
|-----------------------------|----------------------|------|------------------------|-----------------|-------------------|-----------------|----------------|------------|--------|
| Mode                        | Test Frequency (MHz) | Ant  | Duty Cycle Factor (dB) | Max Power (dBm) | Total Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) | EIRP (dBm) | Result |
| 802.11a                     | 5500                 | Ant0 | 0.00                   | 15.69           | 15.69             | 24              | 23             | 19.37      | Pass   |
| 802.11a                     | 5500                 | Ant1 | 0.00                   | 15.49           | 15.49             | 24              | 23             | 18.86      | Pass   |
| 802.11a                     | 5600                 | Ant0 | 0.00                   | 16.38           | 16.38             | 24              | 23             | 20.06      | Pass   |
| 802.11a                     | 5600                 | Ant1 | 0.00                   | 15.98           | 15.98             | 24              | 23             | 19.35      | Pass   |
| 802.11a                     | 5700                 | Ant0 | 0.00                   | 14.93           | 14.93             | 24              | 23             | 18.61      | Pass   |
| 802.11a                     | 5700                 | Ant1 | 0.00                   | 15.37           | 15.37             | 24              | 23             | 18.74      | Pass   |
| 802.11n (HT20)              | 5500                 | Ant0 | 0.00                   | 14.37           | 17.65             | 24              | 23             | 21.18      | Pass   |
| 802.11n (HT20)              | 5500                 | Ant1 | 0.00                   | 14.89           |                   |                 |                |            |        |
| 802.11n (HT20)              | 5600                 | Ant0 | 0.00                   | 14.71           | 17.90             | 24              | 23             | 21.43      | Pass   |
| 802.11n (HT20)              | 5600                 | Ant1 | 0.00                   | 15.06           |                   |                 |                |            |        |
| 802.11n (HT20)              | 5700                 | Ant0 | 0.00                   | 14.04           | 17.31             | 24              | 23             | 20.84      | Pass   |
| 802.11n (HT20)              | 5700                 | Ant1 | 0.00                   | 14.54           |                   |                 |                |            |        |
| 802.11n (HT40)              | 5510                 | Ant0 | 0.00                   | 13.95           | 16.82             | 24              | 24             | 20.35      | Pass   |
| 802.11n (HT40)              | 5510                 | Ant1 | 0.00                   | 13.67           |                   |                 |                |            |        |
| 802.11n (HT40)              | 5590                 | Ant0 | 0.00                   | 14.36           | 17.27             | 24              | 24             | 20.80      | Pass   |
| 802.11n (HT40)              | 5590                 | Ant1 | 0.00                   | 14.16           |                   |                 |                |            |        |
| 802.11n (HT40)              | 5670                 | Ant0 | 0.00                   | 14.10           | 16.80             | 24              | 24             | 20.33      | Pass   |
| 802.11n (HT40)              | 5670                 | Ant1 | 0.00                   | 13.45           |                   |                 |                |            |        |
| 802.11ac (VHT80)            | 5530                 | Ant0 | 0.00                   | 12.92           | 16.32             | 24              | 24             | 19.85      | Pass   |
| 802.11ac (VHT80)            | 5530                 | Ant1 | 0.00                   | 13.67           |                   |                 |                |            |        |
| 802.11ac (VHT80)            | 5610                 | Ant0 | 0.00                   | 12.89           | 16.09             | 24              | 24             | 19.62      | Pass   |
| 802.11ac (VHT80)            | 5610                 | Ant1 | 0.00                   | 13.26           |                   |                 |                |            |        |

### 3.2 Test Plots









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4. AVGSA Power Spectral Density

4.1 Test Data

| U-NII-2a AVGSA Power Spectral Density |                      |      |                        |           |                 |           |             |        |
|---------------------------------------|----------------------|------|------------------------|-----------|-----------------|-----------|-------------|--------|
| Mode                                  | Test Frequency (MHz) | Ant  | Duty Cycle Factor (dB) | PSD (dBm) | Total PSD (dBm) | RBW (kHz) | Limit (dBm) | Result |
| 802.11a                               | 5500                 | Ant0 | 0.00                   | 4.591     | 4.591           | 1000      | 11          | Pass   |
| 802.11a                               | 5500                 | Ant1 | 0.00                   | 4.513     | 4.513           | 1000      | 11          | Pass   |
| 802.11a                               | 5600                 | Ant0 | 0.00                   | 4.894     | 4.894           | 1000      | 11          | Pass   |
| 802.11a                               | 5600                 | Ant1 | 0.00                   | 4.462     | 4.462           | 1000      | 11          | Pass   |
| 802.11a                               | 5700                 | Ant0 | 0.00                   | 3.140     | 3.140           | 1000      | 11          | Pass   |
| 802.11a                               | 5700                 | Ant1 | 0.00                   | 3.900     | 3.900           | 1000      | 11          | Pass   |
| 802.11n (HT20)                        | 5500                 | Ant0 | 0.00                   | 2.697     | 6.211           | 1000      | 11          | Pass   |
| 802.11n (HT20)                        | 5500                 | Ant1 | 0.00                   | 3.652     |                 |           |             |        |
| 802.11n (HT20)                        | 5600                 | Ant0 | 0.00                   | 2.869     | 6.115           | 1000      | 11          | Pass   |
| 802.11n (HT20)                        | 5600                 | Ant1 | 0.00                   | 3.328     |                 |           |             |        |
| 802.11n (HT20)                        | 5700                 | Ant0 | 0.00                   | 1.832     | 5.354           | 1000      | 11          | Pass   |
| 802.11n (HT20)                        | 5700                 | Ant1 | 0.00                   | 2.801     |                 |           |             |        |
| 802.11n (HT40)                        | 5510                 | Ant0 | 0.00                   | -0.194    | 2.813           | 1000      | 11          | Pass   |
| 802.11n (HT40)                        | 5510                 | Ant1 | 0.00                   | -0.200    |                 |           |             |        |
| 802.11n (HT40)                        | 5590                 | Ant0 | 0.00                   | 0.498     | 3.396           | 1000      | 11          | Pass   |
| 802.11n (HT40)                        | 5590                 | Ant1 | 0.00                   | 0.271     |                 |           |             |        |
| 802.11n (HT40)                        | 5670                 | Ant0 | 0.00                   | 0.153     | 2.811           | 1000      | 11          | Pass   |
| 802.11n (HT40)                        | 5670                 | Ant1 | 0.00                   | -0.583    |                 |           |             |        |
| 802.11ac (VHT80)                      | 5530                 | Ant0 | 0.00                   | -4.175    | -0.765          | 1000      | 11          | Pass   |
| 802.11ac (VHT80)                      | 5530                 | Ant1 | 0.00                   | -3.410    |                 |           |             |        |
| 802.11ac (VHT80)                      | 5610                 | Ant0 | 0.00                   | -4.591    | -1.145          | 1000      | 11          | Pass   |
| 802.11ac (VHT80)                      | 5610                 | Ant1 | 0.00                   | -3.759    |                 |           |             |        |



### 4.2 Test Plots

