

Appendix C: Test results

Power level setting using in test:

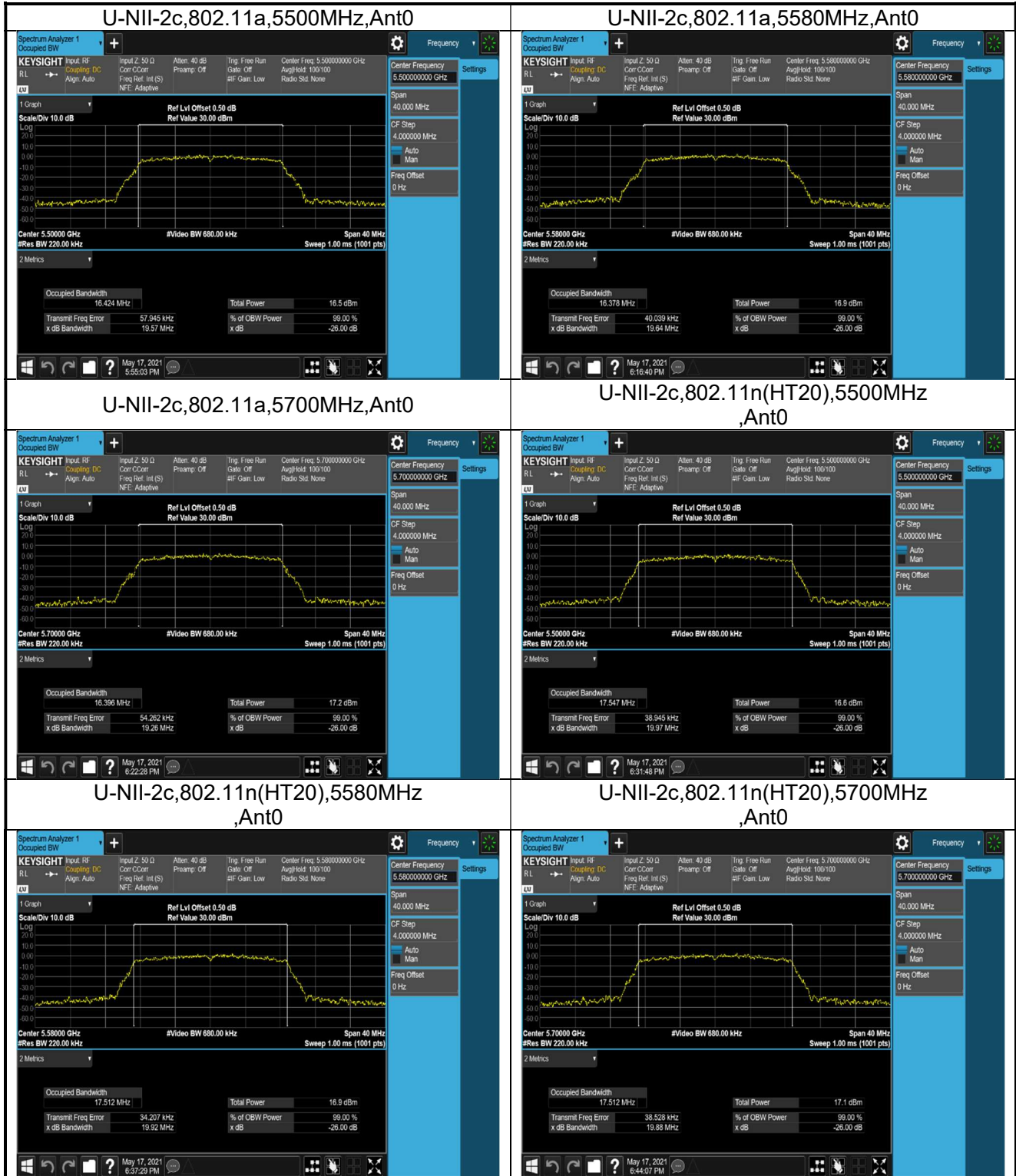
| Channel | 802.11a | 802.11n(HT20) |
|---------|---------|---------------|
| 100 | 13 | 13 |
| 116 | 13 | 13 |
| 140 | 13 | 13 |

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 | 19.57 | Pass |
| 802.11a | 5580 | Ant0 | 19.64 | Pass |
| 802.11a | 5700 | Ant0 | 19.26 | Pass |
| 802.11n (HT20) | 5500 | Ant0 | 19.97 | Pass |
| 802.11n (HT20) | 5580 | Ant0 | 19.92 | Pass |
| 802.11n (HT20) | 5700 | Ant0 | 19.88 | Pass |

1.2 Test Plots

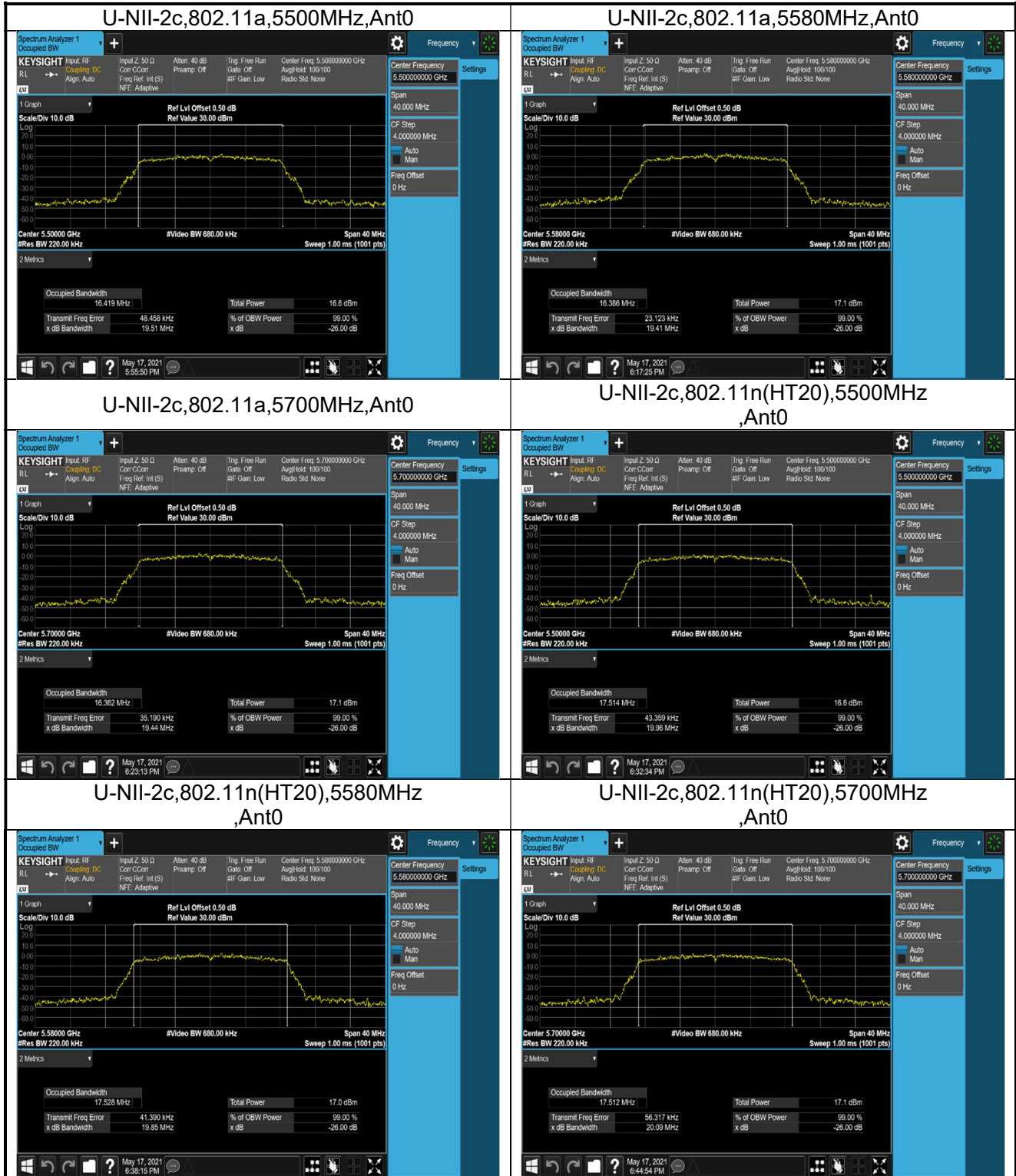


2. 99% Occupied Bandwidth

2.1 Test Data

| U-NII-2c 99% Occupied Bandwidth | | | | |
|---------------------------------|----------------------|------|------------------------------|--------|
| Mode | Test Frequency (MHz) | Ant | 99% Occupied Bandwidth (MHz) | Result |
| 802.11a | 5500 | Ant0 | 16.419 | Pass |
| 802.11a | 5580 | Ant0 | 16.386 | Pass |
| 802.11a | 5700 | Ant0 | 16.362 | Pass |
| 802.11n (HT20) | 5500 | Ant0 | 17.514 | Pass |
| 802.11n (HT20) | 5580 | Ant0 | 17.528 | Pass |
| 802.11n (HT20) | 5700 | Ant0 | 17.512 | Pass |

2.2 Test Plots

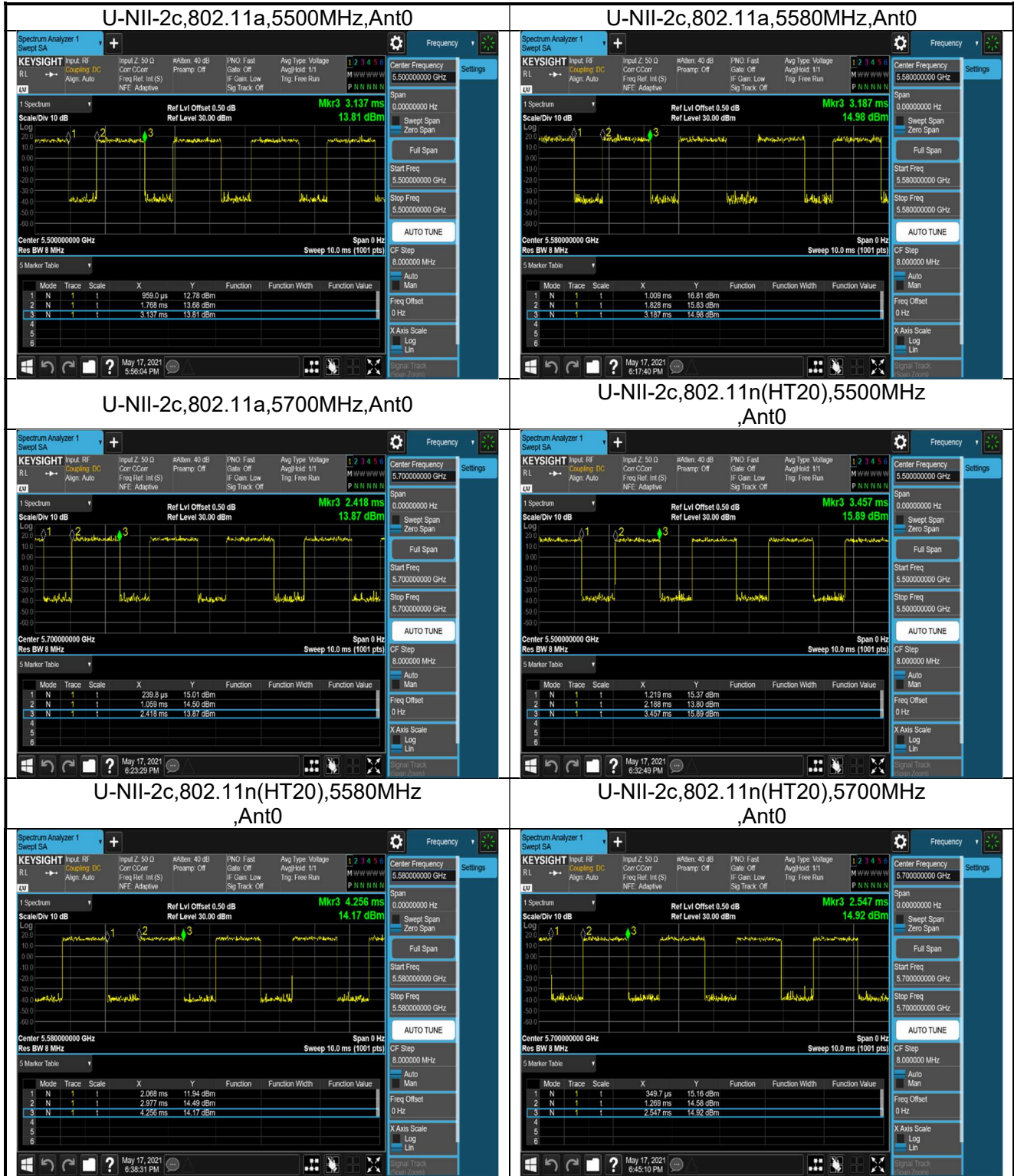


3. Duty Cycle

3.1 Test Data

| U-NII-2c Duty Cycle | | | | |
|---------------------|----------------------|------|----------------|------------------------|
| Mode | Test Frequency (MHz) | Ant | Duty Cycle (%) | Duty Cycle Factor (dB) |
| 802.11a | 5500 | Ant0 | 62.84 | 2.02 |
| 802.11a | 5580 | Ant0 | 62.39 | 2.05 |
| 802.11a | 5700 | Ant0 | 62.39 | 2.05 |
| 802.11n (HT20) | 5500 | Ant0 | 56.70 | 2.46 |
| 802.11n (HT20) | 5580 | Ant0 | 58.45 | 2.33 |
| 802.11n (HT20) | 5700 | Ant0 | 58.18 | 2.35 |

3.2 Test Plots

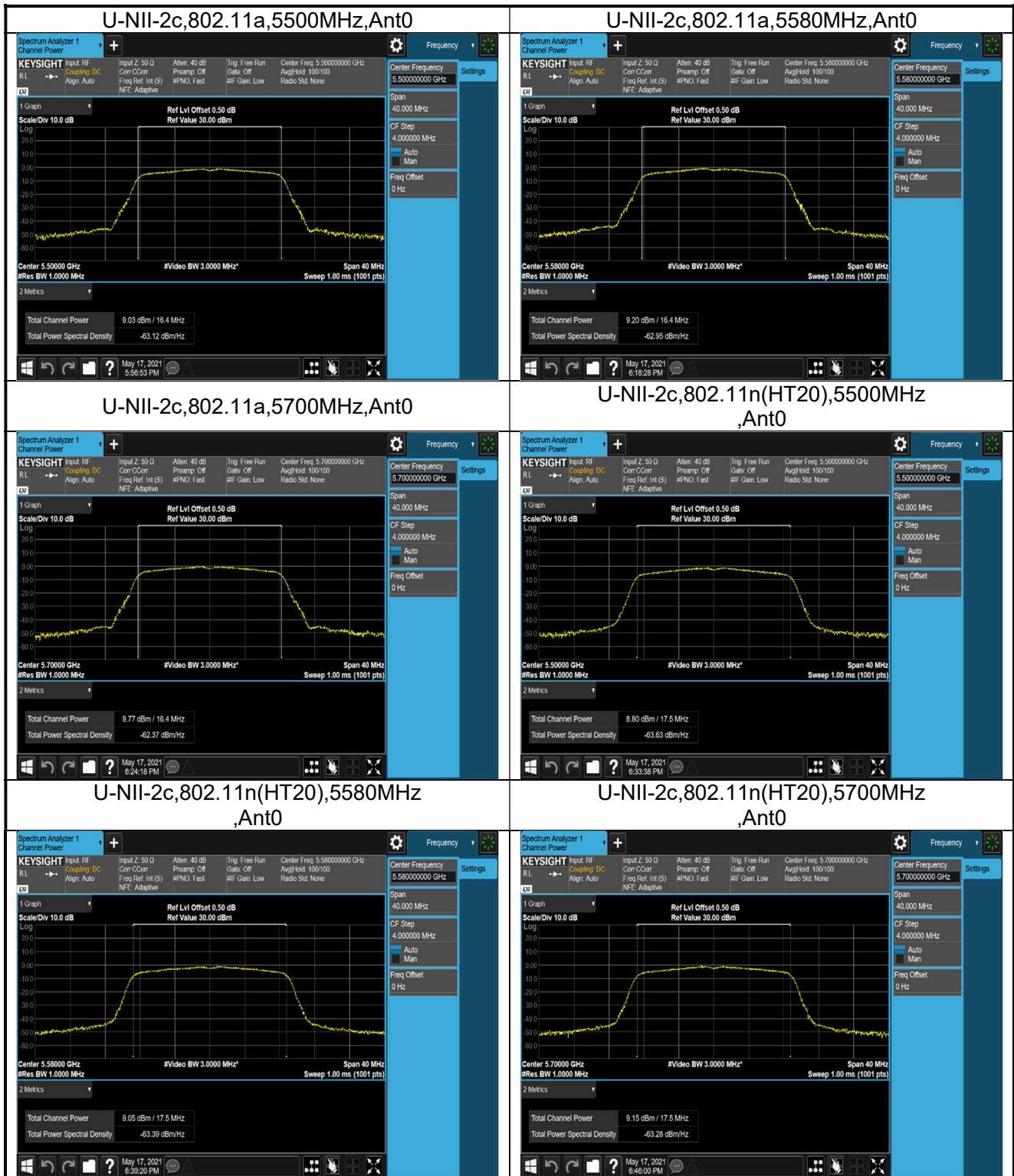


4. AVGSA Output Power

4.1 Test Data

| U-NII-2c AVGSA Output Power | | | | | | | | |
|-----------------------------|----------------------|------|------------------------|-----------------|-------------|------------|---------------|--------|
| Mode | Test Frequency (MHz) | Ant | Duty Cycle Factor (dB) | Max Power (dBm) | Limit (dBm) | EIRP (dBm) | IC Limit (dB) | Result |
| 802.11a | 5500 | Ant0 | 2.02 | 11.05 | 24 | 15.58 | 23 | Pass |
| 802.11a | 5580 | Ant0 | 2.05 | 11.25 | 24 | 15.78 | 23 | Pass |
| 802.11a | 5700 | Ant0 | 2.05 | 11.82 | 24 | 16.35 | 23 | Pass |
| 802.11n (HT20) | 5500 | Ant0 | 2.46 | 11.26 | 24 | 15.79 | 23 | Pass |
| 802.11n (HT20) | 5580 | Ant0 | 2.33 | 11.38 | 24 | 15.91 | 23 | Pass |
| 802.11n (HT20) | 5700 | Ant0 | 2.35 | 11.50 | 24 | 16.03 | 23 | Pass |

4.2 Test Plots



5. AVGSA Power Spectral Density

5.1 Test Data

| U-NII-2c AVGSA Power Spectral Density | | | | | | | | |
|---------------------------------------|----------------------|------|------------------------|---------------|-----------------|--------------------|--------------------|--------|
| Mode | Test Frequency (MHz) | Ant | Duty Cycle Factor (dB) | PSD (dBm/MHz) | Limit (dBm/MHz) | EIRP PSD (dBm/MHz) | IC Limit (dBm/MHz) | Result |
| 802.11a | 5500 | Ant0 | 2.02 | 1.338 | 10 | 5.868 | 11 | Pass |
| 802.11a | 5580 | Ant0 | 2.05 | 1.569 | 10 | 6.099 | 11 | Pass |
| 802.11a | 5700 | Ant0 | 2.05 | 2.355 | 10 | 6.885 | 11 | Pass |
| 802.11n (HT20) | 5500 | Ant0 | 2.46 | 1.168 | 10 | 5.698 | 11 | Pass |
| 802.11n (HT20) | 5580 | Ant0 | 2.33 | 2.133 | 10 | 6.663 | 11 | Pass |
| 802.11n (HT20) | 5700 | Ant0 | 2.35 | 1.805 | 10 | 6.335 | 11 | Pass |

5.2 Test Plots

