Keysight Spectrum Analyzer - Occupied BW Center Freq 5.530000000 GHz Center Freq: 5.530000000 GHz Radio Std: None NFE Trig: Free Run Avg|Hold: 10/10 #IFGain:Low #Atten: 30 dB Radio Device: BTS 09:09:57 AM Dec 15, 2017 Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.53 GHz Span 160 MHz #Res BW 820 kHz #VBW 2.7 MHz Sweep 1 ms **Occupied Bandwidth** Total Power 13.7 dBm **75.788 MHz** Transmit Freq Error -26.513 kHz % of OBW Power 99.00 % x dB Bandwidth 80.05 MHz x dB -26.00 dB	Keysight Spectrum Analyzer - Occupied BW Center Freq 5.530000000 GHz Center Freq: 5.530000000 GHz Radio Std: None NFE Trig: Free Run Avg|Hold: 10/10 #IFGain:Low #Atten: 30 dB Radio Device: BTS 09:49:47 AM Dec 15, 2017 Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.53 GHz Span 160 MHz #Res BW 820 kHz #VBW 2.7 MHz Sweep 1 ms **Occupied Bandwidth** Total Power 13.1 dBm **75.716 MHz** Transmit Freq Error -49.535 kHz % of OBW Power 99.00 % x dB Bandwidth 79.69 MHz x dB -26.00 dB
U-NII-2c,802.11ac(VHT80),5610MHz,Ant0	U-NII-2c,802.11ac(VHT80),5610MHz,Ant1
Keysight Spectrum Analyzer - Occupied BW Center Freq 5.610000000 GHz Center Freq: 5.610000000 GHz Radio Std: None NFE Trig: Free Run Avg|Hold: 10/10 #IFGain:Low #Atten: 30 dB Radio Device: BTS 09:04:50 AM Dec 15, 2017 Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.61 GHz Span 160 MHz #Res BW 820 kHz #VBW 2.7 MHz Sweep 1 ms **Occupied Bandwidth** Total Power 17.3 dBm **75.787 MHz** Transmit Freq Error -29.401 kHz % of OBW Power 99.00 % x dB Bandwidth 80.56 MHz x dB -26.00 dB	Keysight Spectrum Analyzer - Occupied BW Center Freq 5.610000000 GHz Center Freq: 5.610000000 GHz Radio Std: None NFE Trig: Free Run Avg|Hold: 10/10 #IFGain:Low #Atten: 30 dB Radio Device: BTS 10:02:03 AM Dec 15, 2017 Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.61 GHz Span 160 MHz #Res BW 820 kHz #VBW 2.7 MHz Sweep 1 ms **Occupied Bandwidth** Total Power 17.4 dBm **75.657 MHz** Transmit Freq Error -2.634 kHz % of OBW Power 99.00 % x dB Bandwidth 79.38 MHz x dB -26.00 dB

3. Occupied Bandwidth

3.1 Test Data

U-NII-2c 99% Occupied Bandwidth				
Mode	Test Frequency(MHz)	Ant	99% Occupied Bandwidth(MHz)	Note
802.11a	5500	Ant0	16.617	-
802.11a	5500	Ant1	16.619	-
802.11a	5600	Ant0	16.608	-
802.11a	5600	Ant1	16.583	-
802.11a	5700	Ant0	16.582	-
802.11a	5700	Ant1	16.536	-
802.11n(HT20)	5500	Ant0	17.664	-
802.11n(HT20)	5500	Ant1	17.592	-
802.11n(HT20)	5600	Ant0	17.687	-
802.11n(HT20)	5600	Ant1	17.634	-
802.11n(HT20)	5700	Ant0	17.624	-
802.11n(HT20)	5700	Ant1	17.588	-
802.11n(HT40)	5510	Ant0	36.289	-
802.11n(HT40)	5510	Ant1	36.262	-
802.11n(HT40)	5590	Ant0	36.355	-
802.11n(HT40)	5590	Ant1	36.295	-
802.11n(HT40)	5670	Ant0	36.236	-
802.11n(HT40)	5670	Ant1	36.236	-
802.11ac(VHT80)	5530	Ant0	75.788	-
802.11ac(VHT80)	5530	Ant1	75.831	-
802.11ac(VHT80)	5610	Ant0	75.748	-
802.11ac(VHT80)	5610	Ant1	75.607	-

3.2 Test Plots

U-NII-2c,802.11a,5500MHz,Ant0	U-NII-2c,802.11a,5500MHz,Ant1
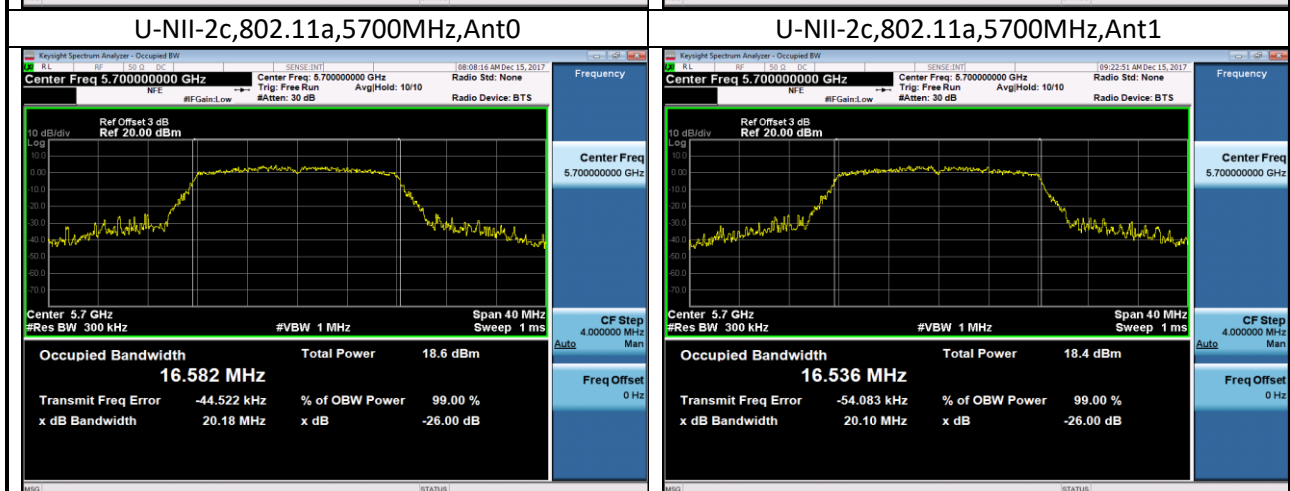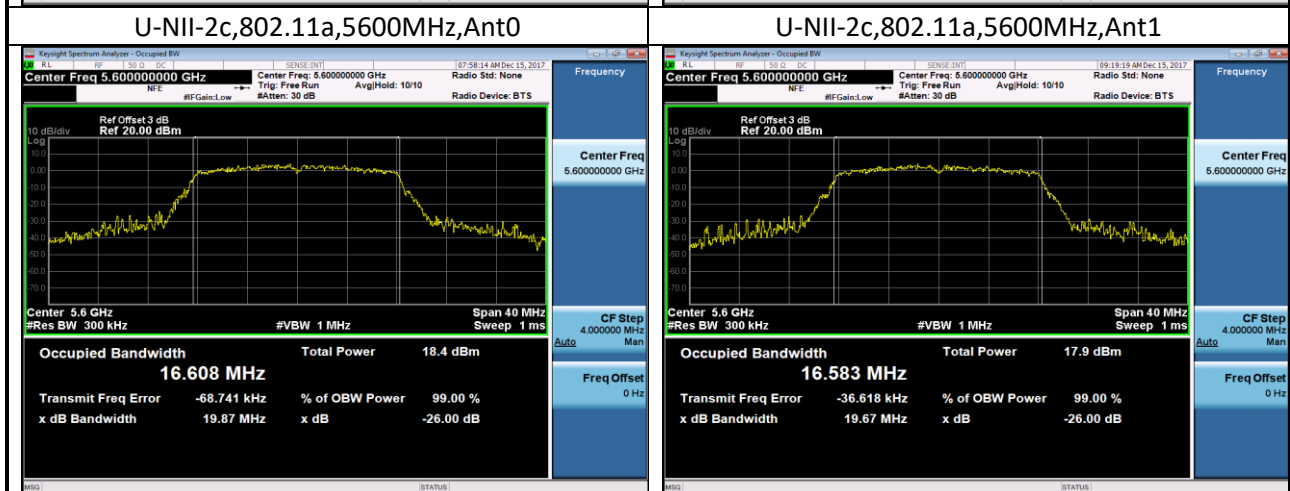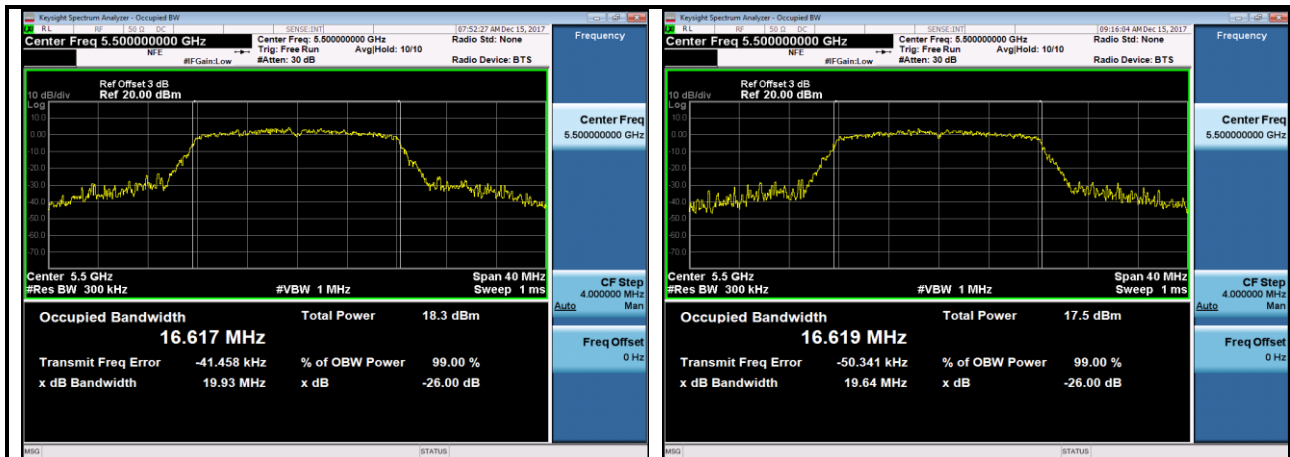
U-NII-2c,802.11a,5600MHz,Ant0	U-NII-2c,802.11a,5600MHz,Ant1
U-NII-2c,802.11a,5700MHz,Ant0	U-NII-2c,802.11a,5700MHz,Ant1
U-NII-2c,802.11n(HT20),5500MHz,Ant0	U-NII-2c,802.11n(HT20),5500MHz,Ant1

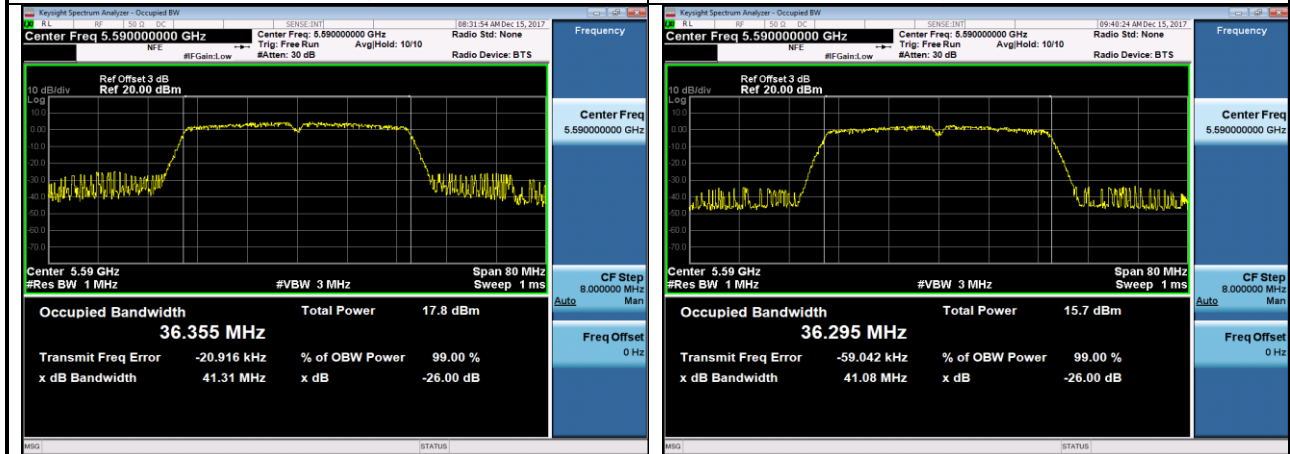|	
U-NII-2c,802.11n(HT20),5600MHz,Ant0	U-NII-2c,802.11n(HT20),5600MHz,Ant1
U-NII-2c,802.11n(HT20),5700MHz,Ant0	U-NII-2c,802.11n(HT20),5700MHz,Ant1
U-NII-2c,802.11n(HT40),5510MHz,Ant0	U-NII-2c,802.11n(HT40),5510MHz,Ant1

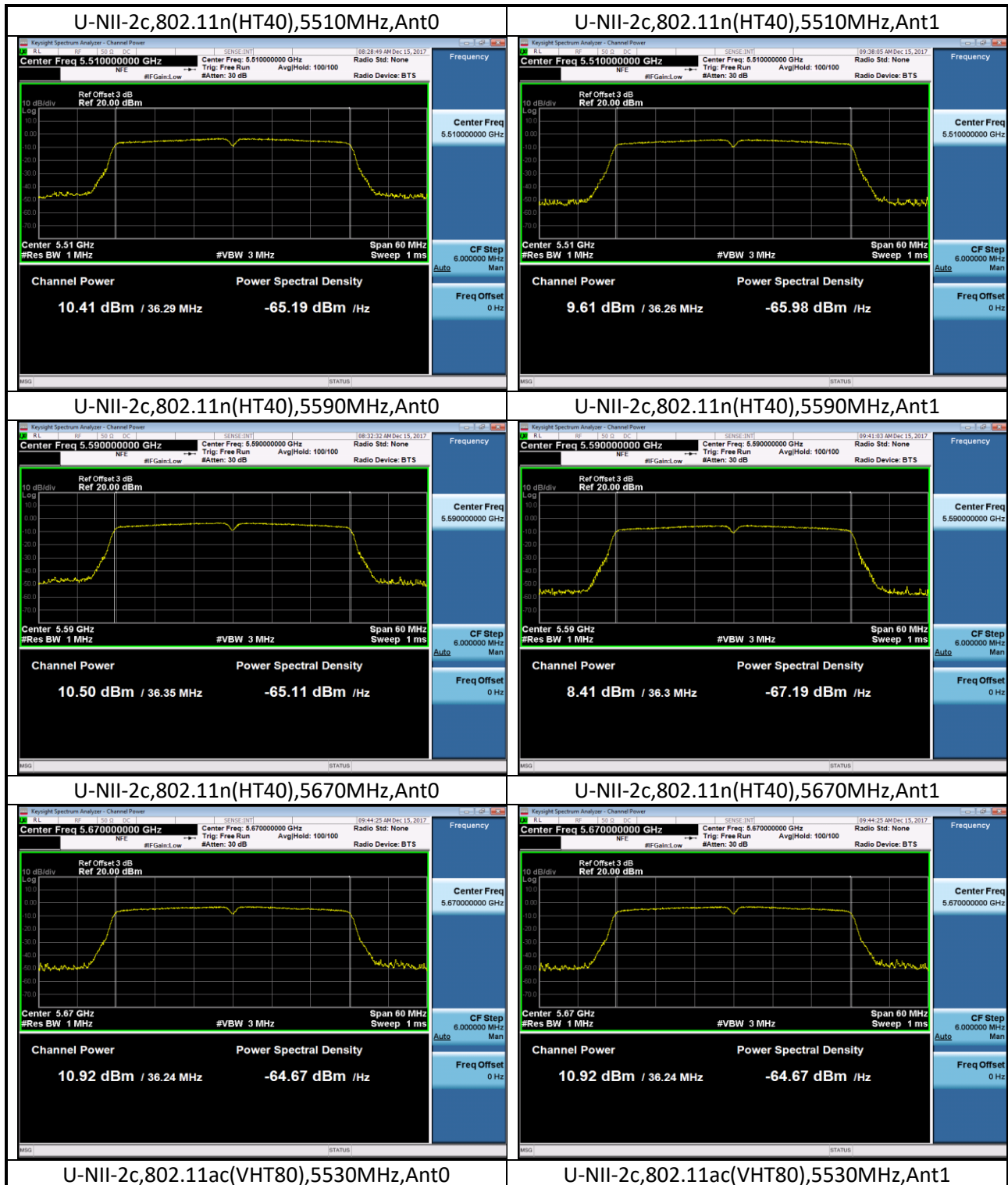|	
U-NII-2c,802.11n(HT40),5590MHz,Ant0	U-NII-2c,802.11n(HT40),5590MHz,Ant1
U-NII-2c,802.11n(HT40),5670MHz,Ant0	U-NII-2c,802.11n(HT40),5670MHz,Ant1
U-NII-2c,802.11ac(VHT80),5530MHz,Ant0	U-NII-2c,802.11ac(VHT80),5530MHz,Ant1
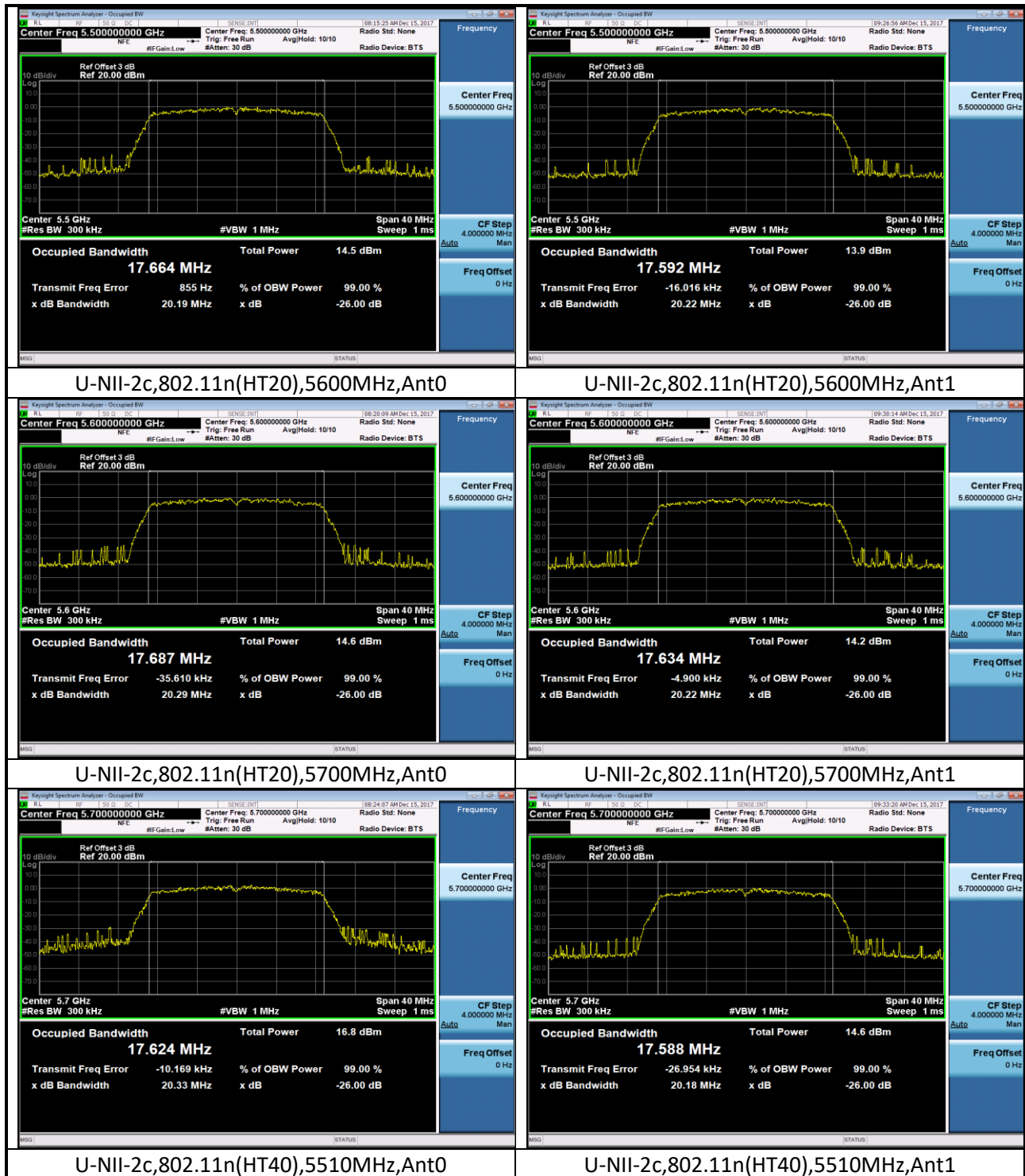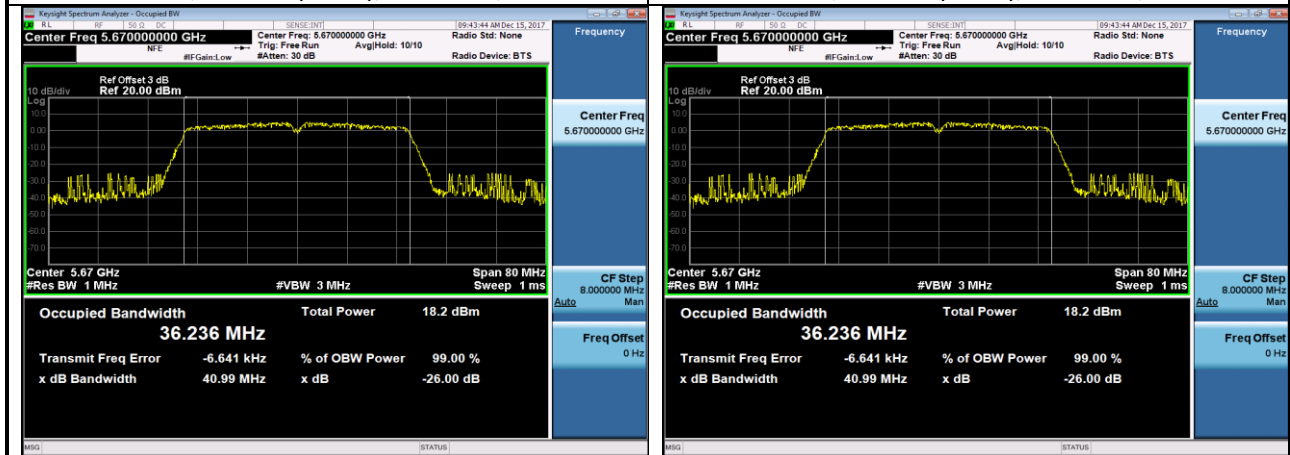
U-NII-2c,802.11ac(VHT80),5610MHz,Ant0	U-NII-2c,802.11ac(VHT80),5610MHz,Ant1
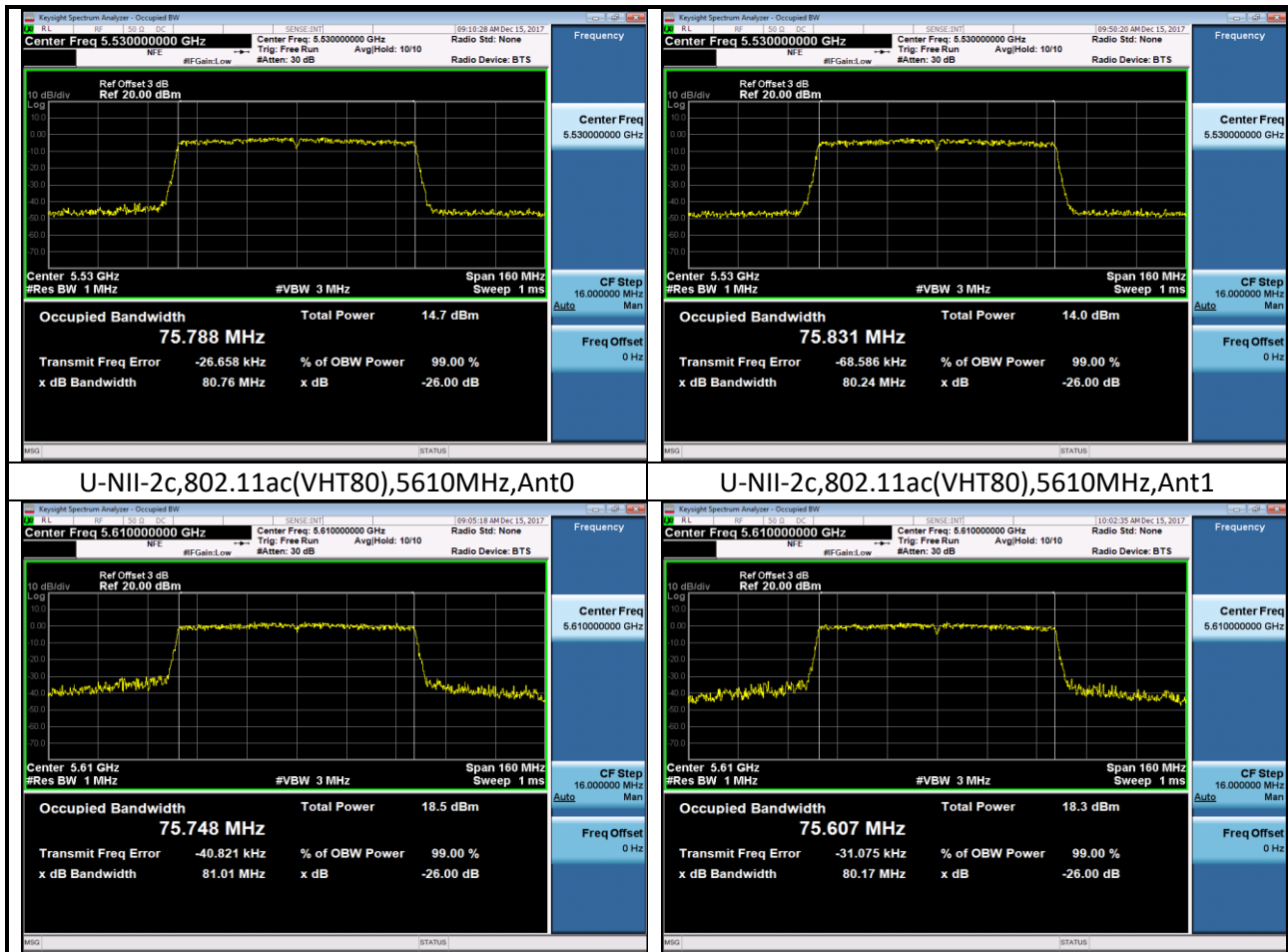
4. Maximum conducted output power and e.i.r.p

4.1 Test Data

U-NII-2c AVGSA Output Power							
Mode	Test Frequency(MHz)	Ant	Duty Cycle Factor (dB)	Power (dBm)	Total Power (dBm)	Limit (dBm)	Result
802.11a	5500	Ant0	0.11	13.77	13.77	24	Pass
802.11a	5500	Ant1	0.11	13.10	13.10	24	Pass
802.11a	5600	Ant0	0.11	13.97	13.97	24	Pass
802.11a	5600	Ant1	0.11	13.61	13.61	24	Pass
802.11a	5700	Ant0	0.11	14.04	14.04	24	Pass
802.11a	5700	Ant1	0.10	13.84	13.84	24	Pass
802.11n(HT20)	5500	Ant0	0.12	10.41	13.08	24	Pass
802.11n(HT20)	5500	Ant1	0.11	9.69			
802.11n(HT20)	5600	Ant0	0.12	10.55	13.35	24	Pass
802.11n(HT20)	5600	Ant1	0.11	10.11			
802.11n(HT20)	5700	Ant0	0.12	12.67	14.67	24	Pass
802.11n(HT20)	5700	Ant1	0.12	10.35			
802.11n(HT40)	5510	Ant0	0.24	10.65	13.27	24	Pass
802.11n(HT40)	5510	Ant1	0.22	9.83			
802.11n(HT40)	5590	Ant0	0.22	10.72	12.82	24	Pass
802.11n(HT40)	5590	Ant1	0.24	8.65			
802.11n(HT40)	5670	Ant0	0.22	11.14	14.15	24	Pass
802.11n(HT40)	5670	Ant1	0.22	11.14			
802.11ac(VHT80)	5530	Ant0	0.74	6.70	9.13	24	Pass
802.11ac(VHT80)	5530	Ant1	0.75	5.46			
802.11ac(VHT80)	5610	Ant0	0.75	10.41	13.26	24	Pass
802.11ac(VHT80)	5610	Ant1	0.74	10.08			

4.2 Test Plots

U-NII-2c,802.11n(HT40),5510MHz,Ant0	U-NII-2c,802.11n(HT40),5510MHz,Ant1
U-NII-2c,802.11n(HT40),5590MHz,Ant0	U-NII-2c,802.11n(HT40),5590MHz,Ant1
U-NII-2c,802.11n(HT40),5670MHz,Ant0	U-NII-2c,802.11n(HT40),5670MHz,Ant1
U-NII-2c,802.11ac(VHT80),5530MHz,Ant0	U-NII-2c,802.11ac(VHT80),5530MHz,Ant1

U-NII-2c,802.11ac(VHT80),5610MHz,Ant0	U-NII-2c,802.11ac(VHT80),5610MHz,Ant1
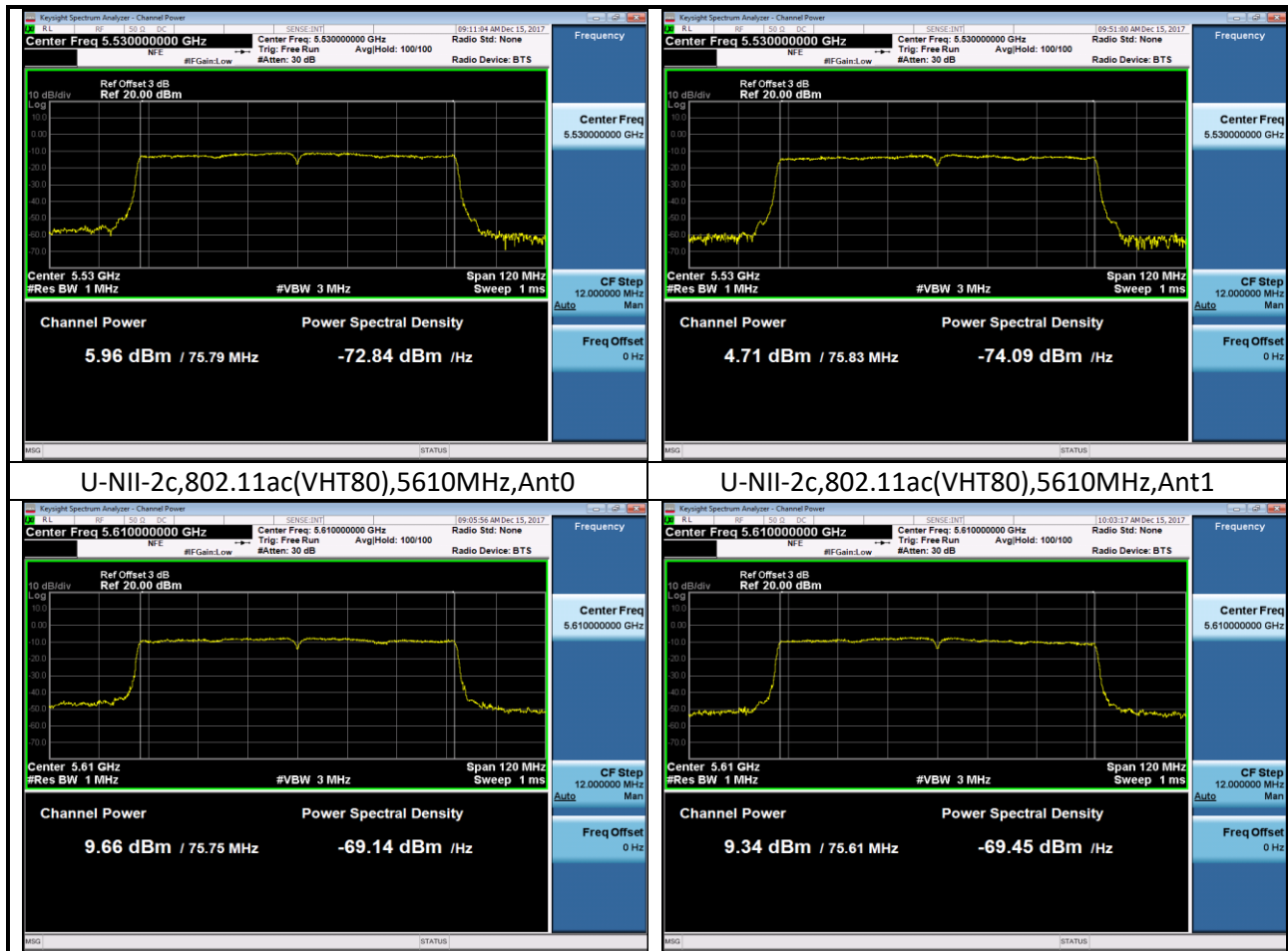
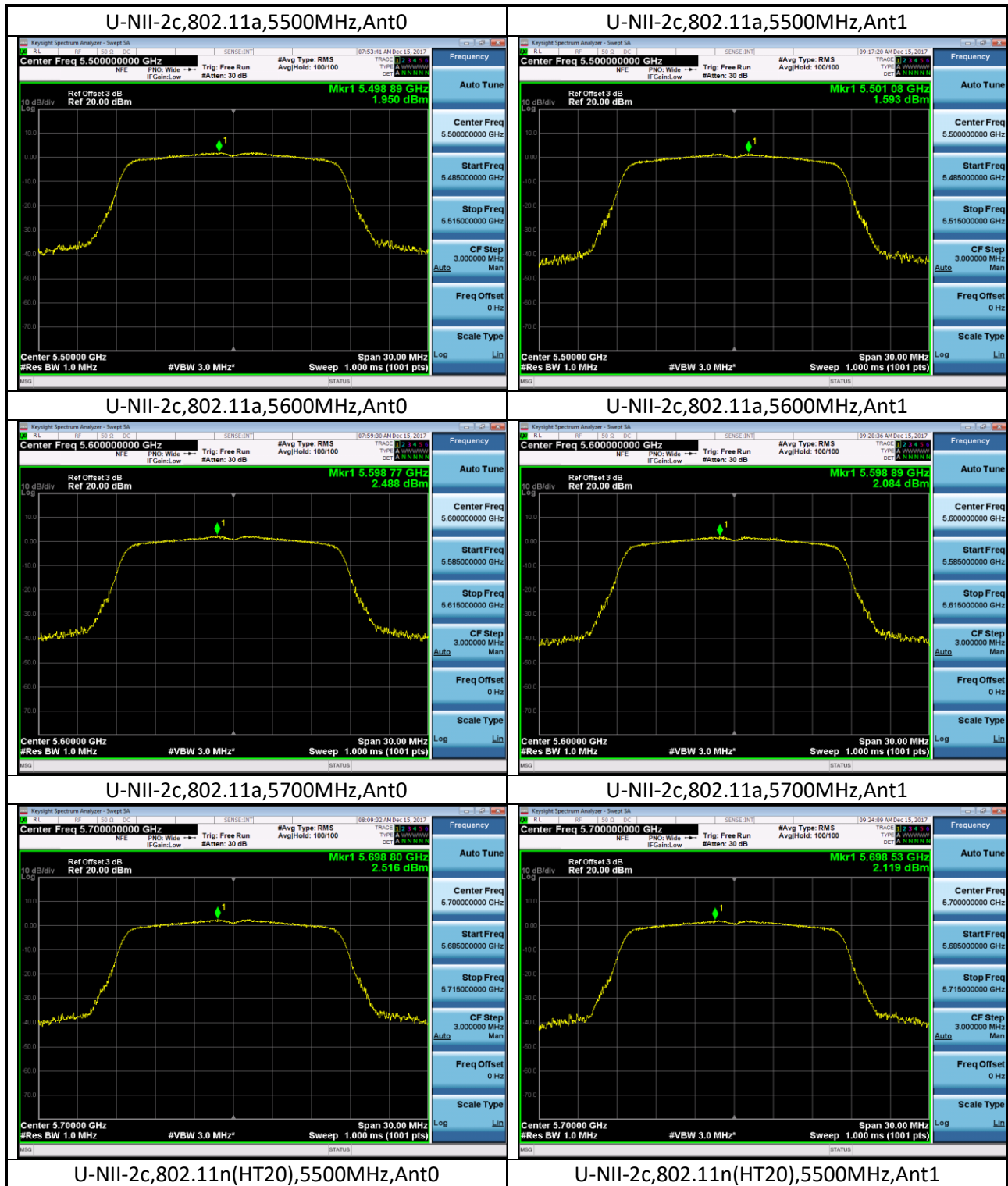5. Power spectral density

   5.1 Test Data

<table>
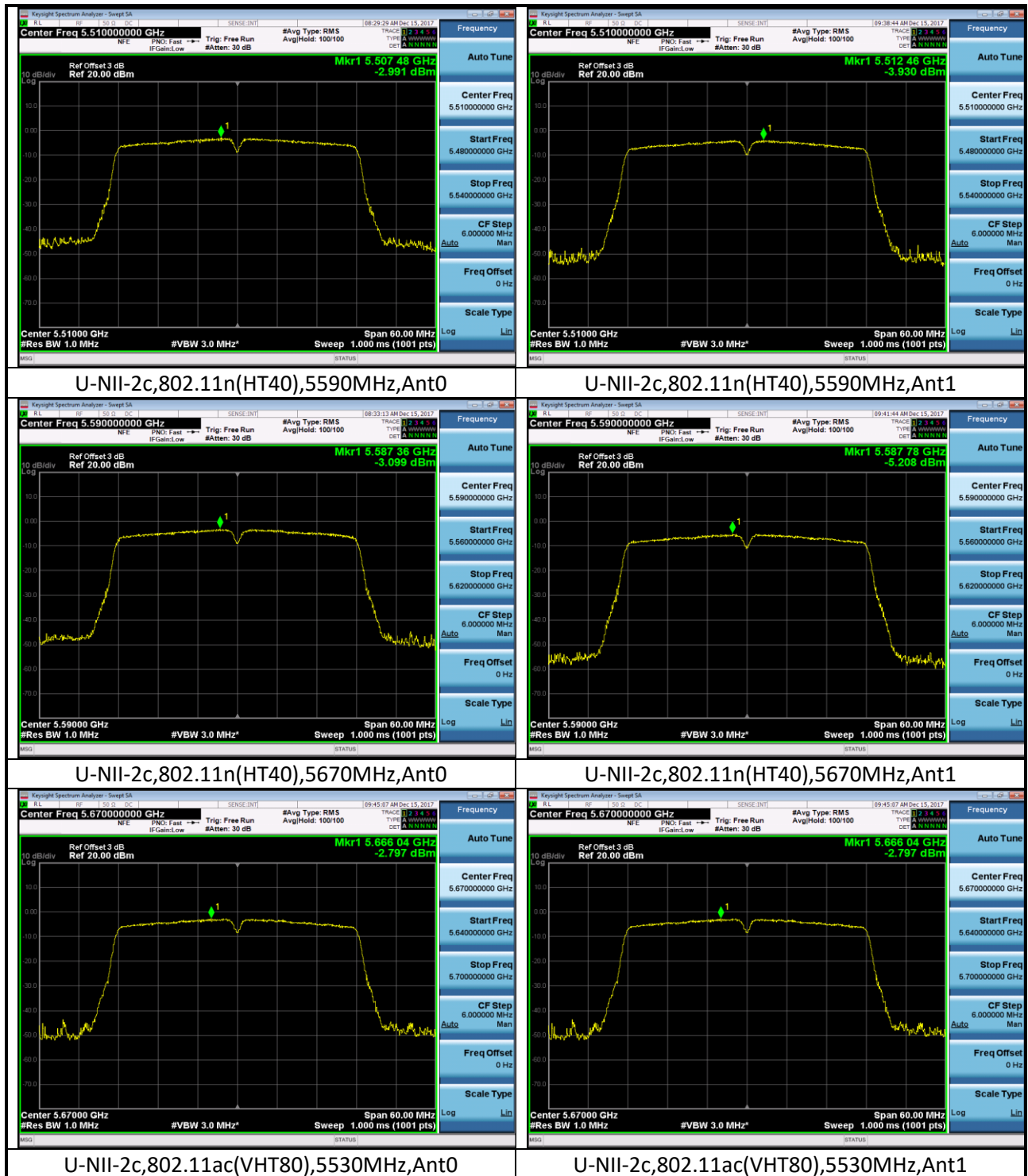<tr><td colspan="8">U-NII-2c AVGSA Power Spectral Density</td></tr>
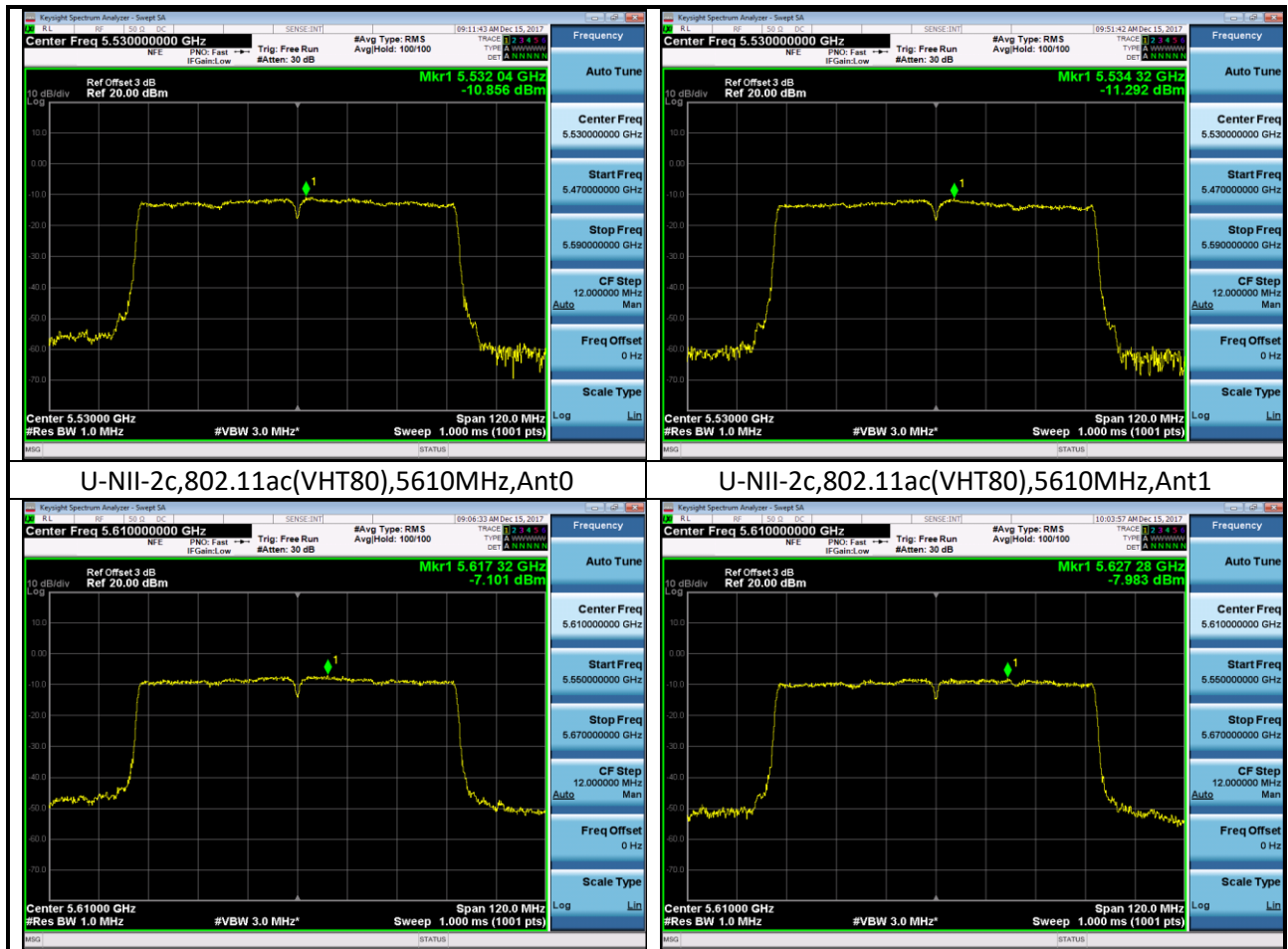<tr><td>Mode</td><td>Test Frequency(MHz)</td><td>Ant</td><td>Duty Cycle Factor (dB)</td><td>PSD (dBm/ MHz)</td><td>Total PSD (dBm/ MHz)</td><td>Limit (dBm/ MHz)</td><td>Result</td></tr>
<tr><td>802.11a</td><td>5500</td><td>Ant0</td><td>0.11</td><td>2.060</td><td>2.060</td><td>11</td><td>Pass</td></tr>
<tr><td>802.11a</td><td>5500</td><td>Ant1</td><td>0.11</td><td>1.703</td><td>1.703</td><td>11</td><td>Pass</td></tr>
<tr><td>802.11a</td><td>5600</td><td>Ant0</td><td>0.11</td><td>2.598</td><td>2.598</td><td>11</td><td>Pass</td></tr>
<tr><td>802.11a</td><td>5600</td><td>Ant1</td><td>0.11</td><td>2.194</td><td>2.194</td><td>11</td><td>Pass</td></tr>
<tr><td>802.11a</td><td>5700</td><td>Ant0</td><td>0.11</td><td>2.626</td><td>2.626</td><td>11</td><td>Pass</td></tr>
<tr><td>802.11a</td><td>5700</td><td>Ant1</td><td>0.10</td><td>2.219</td><td>2.219</td><td>11</td><td>Pass</td></tr>
<tr><td>802.11n(HT20)</td><td>5500</td><td>Ant0</td><td>0.12</td><td>-1.647</td><td rowspan="2">0.964</td><td rowspan="2">11</td><td rowspan="2">Pass</td></tr>
<tr><td>802.11n(HT20)</td><td>5500</td><td>Ant1</td><td>0.11</td><td>-2.487</td></tr>
<tr><td>802.11n(HT20)</td><td>5600</td><td>Ant0</td><td>0.12</td><td>-1.439</td><td rowspan="2">1.294</td><td rowspan="2">11</td><td rowspan="2">Pass</td></tr>
<tr><td>802.11n(HT20)</td><td>5600</td><td>Ant1</td><td>0.11</td><td>-2.013</td></tr>
<tr><td>802.11n(HT20)</td><td>5700</td><td>Ant0</td><td>0.12</td><td>0.437</td><td rowspan="2">2.491</td><td rowspan="2">11</td><td rowspan="2">Pass</td></tr>
<tr><td>802.11n(HT20)</td><td>5700</td><td>Ant1</td><td>0.12</td><td>-1.748</td></tr>
<tr><td>802.11n(HT40)</td><td>5510</td><td>Ant0</td><td>0.24</td><td>-2.751</td><td rowspan="2">-0.194</td><td rowspan="2">11</td><td rowspan="2">Pass</td></tr>
<tr><td>802.11n(HT40)</td><td>5510</td><td>Ant1</td><td>0.22</td><td>-3.710</td></tr>
<tr><td>802.11n(HT40)</td><td>5590</td><td>Ant0</td><td>0.22</td><td>-2.879</td><td rowspan="2">-0.789</td><td rowspan="2">11</td><td rowspan="2">Pass</td></tr>
<tr><td>802.11n(HT40)</td><td>5590</td><td>Ant1</td><td>0.24</td><td>-4.968</td></tr>
<tr><td>802.11n(HT40)</td><td>5670</td><td>Ant0</td><td>0.22</td><td>-2.577</td><td rowspan="2">0.433</td><td rowspan="2">11</td><td rowspan="2">Pass</td></tr>
<tr><td>802.11n(HT40)</td><td>5670</td><td>Ant1</td><td>0.22</td><td>-2.577</td></tr>
<tr><td>802.11ac(VHT80)</td><td>5530</td><td>Ant0</td><td>0.74</td><td>-10.116</td><td rowspan="2">-7.313</td><td rowspan="2">11</td><td rowspan="2">Pass</td></tr>
<tr><td>802.11ac(VHT80)</td><td>5530</td><td>Ant1</td><td>0.75</td><td>-10.542</td></tr>
<tr><td>802.11ac(VHT80)</td><td>5610</td><td>Ant0</td><td>0.75</td><td>-6.351</td><td rowspan="2">-3.764</td><td rowspan="2">11</td><td rowspan="2">Pass</td></tr>
<tr><td>802.11ac(VHT80)</td><td>5610</td><td>Ant1</td><td>0.74</td><td>-7.243</td></tr>
</table>

   5.2 Test Plots

U-NII-2c,802.11a,5500MHz,Ant0	U-NII-2c,802.11a,5500MHz,Ant1
U-NII-2c,802.11a,5600MHz,Ant0	U-NII-2c,802.11a,5600MHz,Ant1
U-NII-2c,802.11a,5700MHz,Ant0	U-NII-2c,802.11a,5700MHz,Ant1
U-NII-2c,802.11n(HT20),5500MHz,Ant0	U-NII-2c,802.11n(HT20),5500MHz,Ant1

U-NII-2c,802.11n(HT20),5600MHz,Ant0

U-NII-2c,802.11n(HT20),5600MHz,Ant1

U-NII-2c,802.11n(HT20),5700MHz,Ant0

U-NII-2c,802.11n(HT20),5700MHz,Ant1

U-NII-2c,802.11n(HT40),5510MHz,Ant0

U-NII-2c,802.11n(HT40),5510MHz,Ant1

U-NII-2c,802.11n(HT40),5590MHz,Ant0

U-NII-2c,802.11n(HT40),5590MHz,Ant1

U-NII-2c,802.11n(HT40),5670MHz,Ant0

U-NII-2c,802.11n(HT40),5670MHz,Ant1

U-NII-2c,802.11ac(VHT80),5530MHz,Ant0

U-NII-2c,802.11ac(VHT80),5530MHz,Ant1

U-NII-2c,802.11ac(VHT80),5610MHz,Ant0	U-NII-2c,802.11ac(VHT80),5610MHz,Ant1

U-NII-3

1. Duty Cycle

   1.1 Test Data

U-NII-3 Duty Cycle				
Mode	Test Frequency(MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11a	5745	Ant0	97.66	0.10
802.11a	5745	Ant1	97.66	0.10
802.11a	5785	Ant0	97.66	0.10
802.11a	5785	Ant1	97.66	0.10
802.11a	5825	Ant0	97.43	0.11
802.11a	5825	Ant1	97.43	0.11
802.11n(HT20)	5745	Ant0	97.26	0.12
802.11n(HT20)	5745	Ant1	97.50	0.11
802.11n(HT20)	5785	Ant0	97.50	0.11
802.11n(HT20)	5785	Ant1	97.50	0.11
802.11n(HT20)	5825	Ant0	97.50	0.11
802.11n(HT20)	5825	Ant1	97.26	0.12
802.11n(HT40)	5755	Ant0	95.12	0.22
802.11n(HT40)	5755	Ant1	94.63	0.24
802.11n(HT40)	5795	Ant0	95.10	0.22
802.11n(HT40)	5795	Ant1	95.10	0.22
802.11ac(VHT80)	5775	Ant0	84.13	0.75
802.11ac(VHT80)	5775	Ant1	84.13	0.75

   1.2 Test Plots

U-NII-3,802.11a,5745MHz,Ant0	U-NII-3,802.11a,5745MHz,Ant1