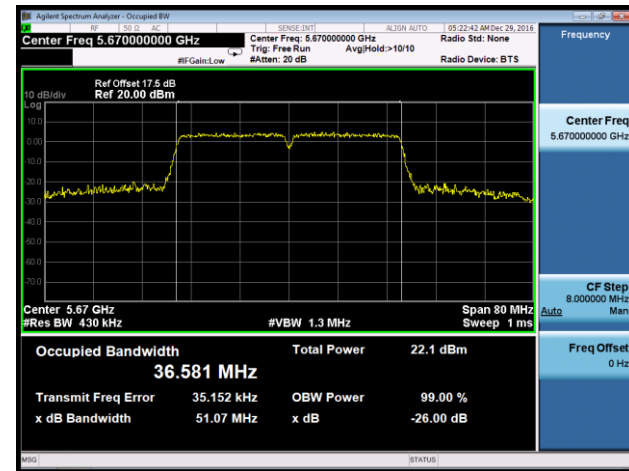
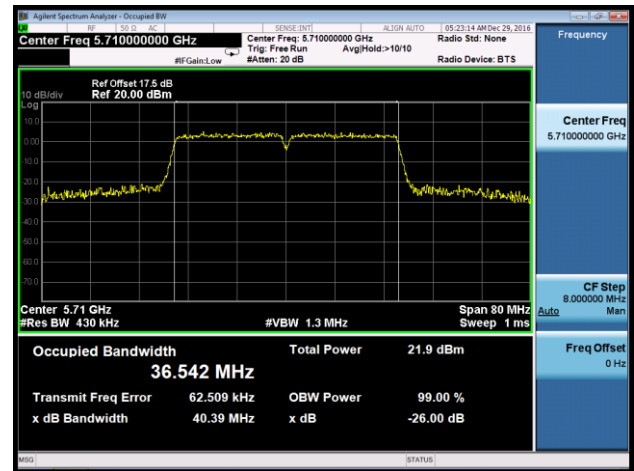
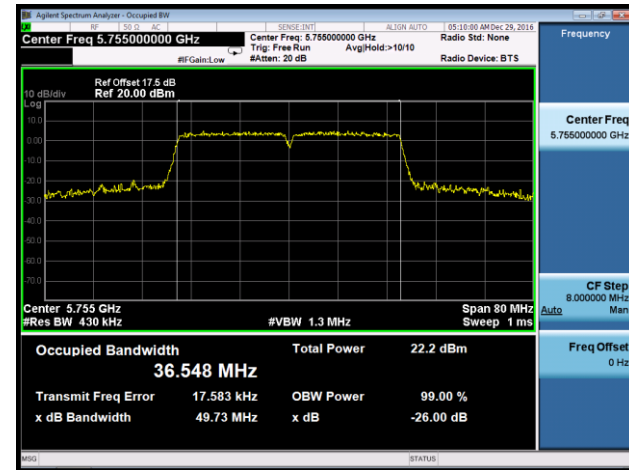
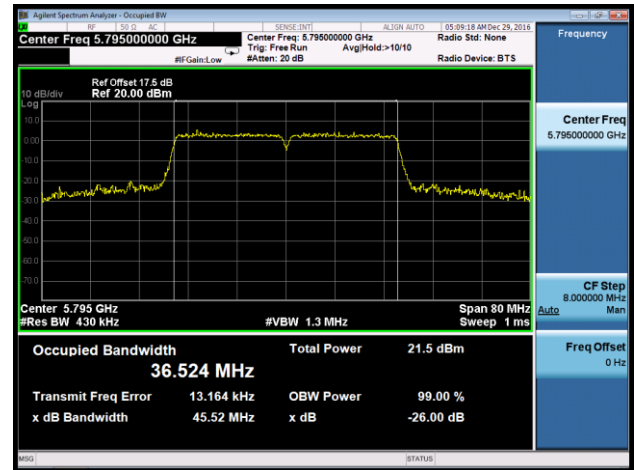
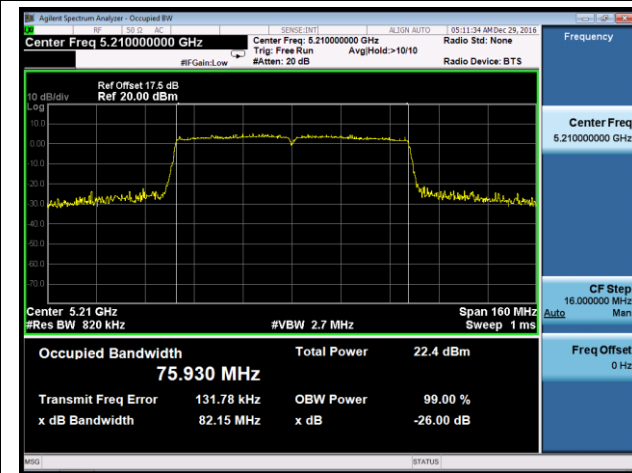
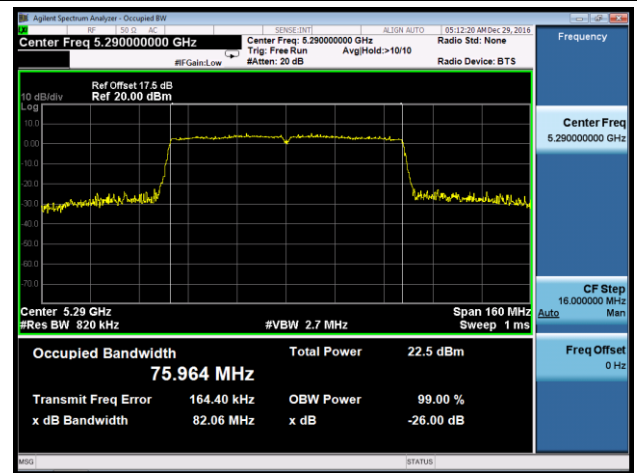
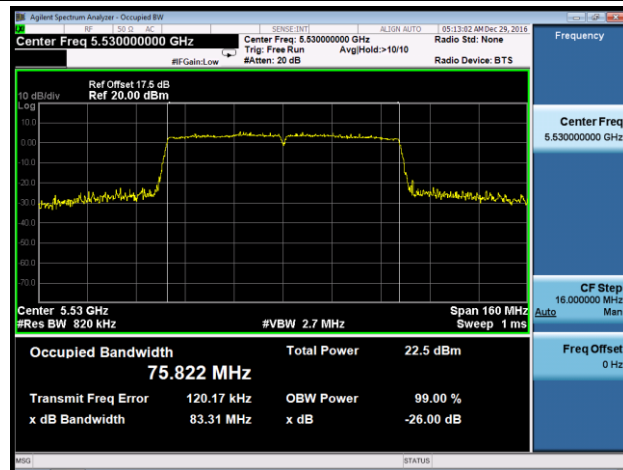
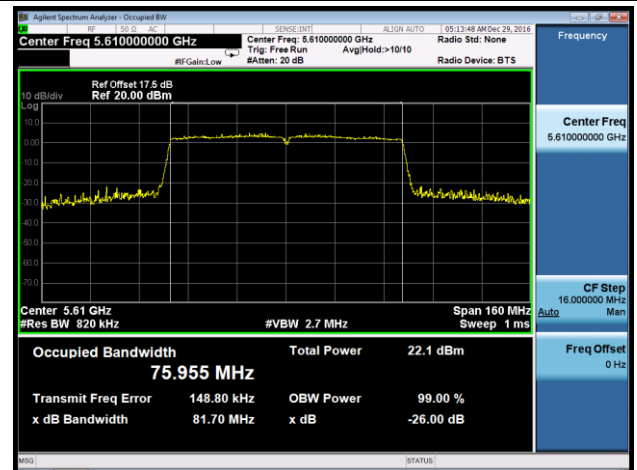
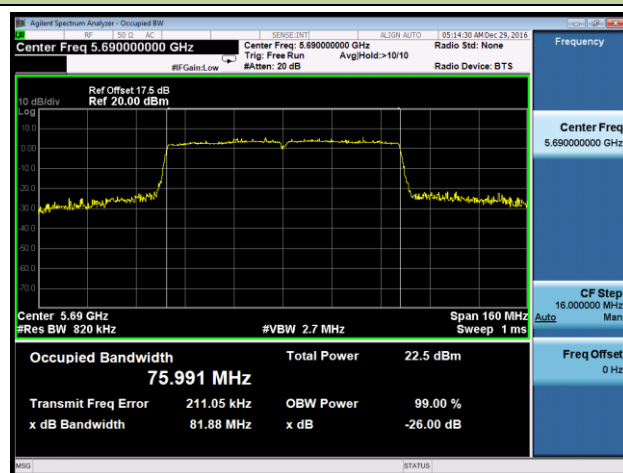
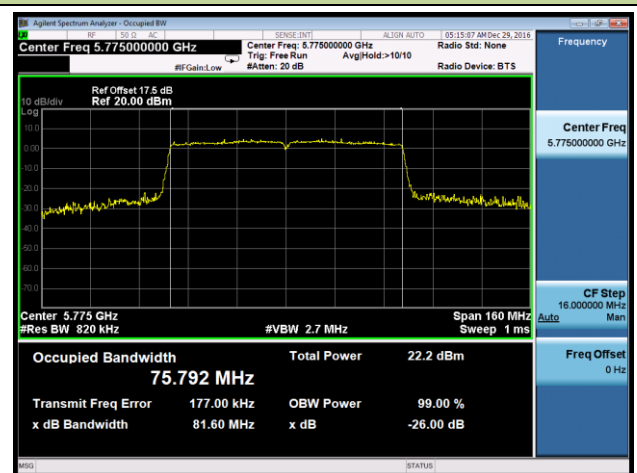


**802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 1**
**Channel 134 (5670MHz)**

**Channel 142 (5710MHz)**

**Channel 151 (5755MHz)**

**Channel 159 (5795MHz)**


**802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Ant 1**
**Channel 42 (5210MHz)**

**Channel 58 (5290MHz)**

**Channel 106 (5530MHz)**

**Channel 122 (5610MHz)**

**Channel 138 (5690MHz)**

**Channel 155 (5755MHz)**


### 7.3. Output Power Measurement

#### 7.3.1. Test Limit

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

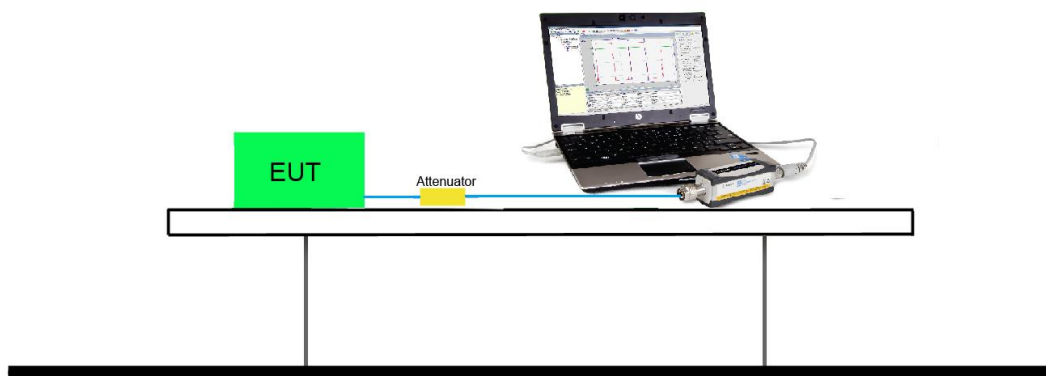
#### 7.3.2. Test Procedure Used

KDB 789033 D02v01r03 - Section E) 3) b) Method PM-G

#### 7.3.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

#### 7.3.4. Test Setup



### 7.3.5. Test Result

Power output test was verified over all data rates of each mode shown as below table.

For 1TX \_ Ant 1 port:

Test Mode	Bandwidth	Channel	Frequency (MHz)	Data Rate/ MCS	Average Power (dBm)
802.11a	20	100	5500	6Mbps	16.22
				24Mbps	16.06
				54Mbps	15.85
802.11n	20	100	5500	MCS0	16.11
				MCS4	15.92
				MCS7	15.68
802.11n	40	102	5510	MCS0	13.83
				MCS4	13.64
				MCS7	13.40
802.11ac	20	100	5500	MCS0	16.33
				MCS4	16.01
				MCS8	15.79
802.11ac	40	102	5510	MCS0	13.65
				MCS4	13.48
				MCS9	13.24
802.11ac	80	106	5530	MCS0	13.74
				MCS4	13.57
				MCS9	13.39



Product	ACCESS POINT	Temperature	22°C
Test Engineer	Kevin Ker	Relative Humidity	50%
Test Site	SR1	Test Date	2016/12/28

**1TX \_ Ant 1**

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Average Power Limit (dBm)	Result
802.11a	6Mbps	52	5260	16.72	≤ 23.68	Pass
802.11a	6Mbps	60	5300	16.76	≤ 23.68	Pass
802.11a	6Mbps	64	5320	16.75	≤ 23.68	Pass
802.11a	6Mbps	100	5500	16.22	≤ 23.68	Pass
802.11a	6Mbps	120	5600	16.41	≤ 23.68	Pass
802.11a	6Mbps	140	5700	16.35	≤ 23.68	Pass
802.11a	6Mbps	144	5720	16.23	≤ 23.68	Pass
802.11n-HT20	MCS0	52	5260	16.56	≤ 23.68	Pass
802.11n-HT20	MCS0	60	5300	16.75	≤ 23.68	Pass
802.11n-HT20	MCS0	64	5320	16.53	≤ 23.68	Pass
802.11n-HT20	MCS0	100	5500	16.11	≤ 23.68	Pass
802.11n-HT20	MCS0	120	5600	16.14	≤ 23.68	Pass
802.11n-HT20	MCS0	140	5700	16.13	≤ 23.68	Pass
802.11n-HT20	MCS0	144	5720	16.15	≤ 23.68	Pass
802.11n-HT40	MCS0	54	5270	16.86	≤ 23.68	Pass
802.11n-HT40	MCS0	62	5310	15.91	≤ 23.68	Pass
802.11n-HT40	MCS0	102	5510	13.83	≤ 23.68	Pass
802.11n-HT40	MCS0	118	5590	16.47	≤ 23.68	Pass
802.11n-HT40	MCS0	134	5670	16.46	≤ 23.68	Pass
802.11n-HT40	MCS0	142	5710	16.31	≤ 23.68	Pass
802.11ac-VHT20	MCS0	52	5260	16.76	≤ 23.68	Pass
802.11ac-VHT20	MCS0	60	5300	16.77	≤ 23.68	Pass
802.11ac-VHT20	MCS0	64	5320	16.78	≤ 23.68	Pass
802.11ac-VHT20	MCS0	100	5500	16.33	≤ 23.68	Pass
802.11ac-VHT20	MCS0	120	5600	16.36	≤ 23.68	Pass
802.11ac-VHT20	MCS0	140	5700	16.26	≤ 23.68	Pass
802.11ac-VHT20	MCS0	144	5720	16.23	≤ 23.68	Pass

Note: Power Limit (dBm) = 23.98 dBm - (6.3dBi - 6 dBi) = 23.68 dBm.

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Average Power Limit (dBm)	Result
802.11ac-VHT40	MCS0	54	5270	16.66	≤ 23.68	Pass
802.11ac-VHT40	MCS0	62	5310	15.67	≤ 23.68	Pass
802.11ac-VHT40	MCS0	102	5510	13.65	≤ 23.68	Pass
802.11ac-VHT40	MCS0	118	5590	16.52	≤ 23.68	Pass
802.11ac-VHT40	MCS0	134	5670	16.55	≤ 23.68	Pass
802.11ac-VHT40	MCS0	142	5710	16.41	≤ 23.68	Pass
802.11ac-VHT80	MCS0	58	5290	15.31	≤ 23.68	Pass
802.11ac-VHT80	MCS0	106	5530	13.74	≤ 23.68	Pass
802.11ac-VHT80	MCS0	122	5610	16.11	≤ 23.68	Pass
802.11ac-VHT80	MCS0	138	5690	16.03	≤ 23.68	Pass

Note: Power Limit (dBm) = 23.98 dBm - (6.3dBi - 6 dBi) = 23.68 dBm.

**CDD Mode**
**2TX \_ Ant 1 + 2**

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
802.11a	6Mbps	52	5260	16.78	16.71	19.76	≤ 23.98	Pass
802.11a	6Mbps	60	5300	16.88	16.67	19.79	≤ 23.98	Pass
802.11a	6Mbps	64	5320	16.78	16.61	19.71	≤ 23.98	Pass
802.11a	6Mbps	100	5500	16.15	16.28	19.23	≤ 23.98	Pass
802.11a	6Mbps	120	5600	16.41	16.35	19.39	≤ 23.98	Pass
802.11a	6Mbps	140	5700	14.28	13.57	16.95	≤ 23.98	Pass
802.11a	6Mbps	144	5720	16.51	16.64	19.59	≤ 23.98	Pass
802.11n-HT20	MCS0	52	5260	16.92	16.71	19.83	≤ 23.98	Pass
802.11n-HT20	MCS0	60	5300	16.72	16.58	19.66	≤ 23.98	Pass
802.11n-HT20	MCS0	64	5320	16.81	16.46	19.65	≤ 23.98	Pass
802.11n-HT20	MCS0	100	5500	15.01	14.64	17.84	≤ 23.98	Pass
802.11n-HT20	MCS0	120	5600	16.42	16.21	19.33	≤ 23.98	Pass
802.11n-HT20	MCS0	140	5700	14.84	14.15	17.52	≤ 23.98	Pass
802.11n-HT20	MCS0	144	5720	16.41	16.48	19.46	≤ 23.98	Pass
802.11n-HT40	MCS0	54	5270	16.86	16.61	19.75	≤ 23.98	Pass
802.11n-HT40	MCS0	62	5310	15.08	14.51	17.81	≤ 23.98	Pass
802.11n-HT40	MCS0	102	5510	12.77	12.24	15.52	≤ 23.98	Pass
802.11n-HT40	MCS0	118	5590	17.22	16.47	19.87	≤ 23.98	Pass
802.11n-HT40	MCS0	134	5670	16.98	16.11	19.58	≤ 23.98	Pass
802.11n-HT40	MCS0	141	5710	16.78	16.03	19.43	≤ 23.98	Pass
802.11ac-VHT20	MCS0	52	5260	16.74	16.62	19.69	≤ 23.98	Pass
802.11ac-VHT20	MCS0	60	5300	16.73	16.63	19.69	≤ 23.98	Pass
802.11ac-VHT20	MCS0	64	5320	16.83	16.58	19.72	≤ 23.98	Pass
802.11ac-VHT20	MCS0	100	5500	14.99	14.81	17.91	≤ 23.98	Pass
802.11ac-VHT20	MCS0	120	5600	16.54	16.24	19.40	≤ 23.98	Pass
802.11ac-VHT20	MCS0	140	5700	14.35	13.62	17.01	≤ 23.98	Pass
802.11ac-VHT20	MCS0	144	5720	16.40	16.48	19.45	≤ 23.98	Pass

Note: Total Average Power (dBm) =  $10 \cdot \log\{10^{(\text{Ant 1 Average Power}/10)} + 10^{(\text{Ant 2 Average Power}/10)}\}$  (dBm).

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
802.11ac-VHT40	MCS0	54	5270	16.58	16.26	19.43	≤ 23.98	Pass
802.11ac-VHT40	MCS0	62	5310	14.27	13.54	16.93	≤ 23.98	Pass
802.11ac-VHT40	MCS0	102	5510	12.07	11.55	14.83	≤ 23.98	Pass
802.11ac-VHT40	MCS0	118	5590	16.26	16.72	19.51	≤ 23.98	Pass
802.11ac-VHT40	MCS0	134	5670	14.51	14.07	17.31	≤ 23.98	Pass
802.11ac-VHT40	MCS0	142	5710	16.75	17.17	19.98	≤ 23.98	Pass
802.11ac-VHT80	MCS0	58	5290	13.28	12.76	16.04	≤ 23.98	Pass
802.11ac-VHT80	MCS0	106	5530	12.48	11.02	14.82	≤ 23.98	Pass
802.11ac-VHT80	MCS0	122	5610	16.53	16.36	19.46	≤ 23.98	Pass
802.11ac-VHT80	MCS0	138	5690	16.09	16.75	19.44	≤ 23.98	Pass

Note: Total Average Power (dBm) =  $10 \cdot \log\{10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)}\}$  (dBm).



**Beam-Forming Mode**
**2TX \_ Ant 1 + 2**

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
802.11n-HT20	MCS0	52	5260	16.17	16.30	19.25	≤ 22.98	Pass
802.11n-HT20	MCS0	60	5300	15.93	16.58	19.28	≤ 22.98	Pass
802.11n-HT20	MCS0	64	5320	16.38	16.21	19.31	≤ 22.98	Pass
802.11n-HT20	MCS0	100	5500	14.38	13.98	17.19	≤ 22.98	Pass
802.11n-HT20	MCS0	120	5600	16.15	15.36	18.78	≤ 22.98	Pass
802.11n-HT20	MCS0	140	5700	13.01	12.32	15.69	≤ 22.98	Pass
802.11n-HT20	MCS0	144	5720	15.52	15.74	18.64	≤ 22.98	Pass
802.11n-HT40	MCS0	54	5270	16.12	16.31	19.23	≤ 22.98	Pass
802.11n-HT40	MCS0	62	5310	12.60	12.74	15.68	≤ 22.98	Pass
802.11n-HT40	MCS0	102	5510	13.75	13.51	16.64	≤ 22.98	Pass
802.11n-HT40	MCS0	118	5590	16.91	16.48	19.71	≤ 22.98	Pass
802.11n-HT40	MCS0	134	5670	16.91	16.33	19.64	≤ 22.98	Pass
802.11n-HT40	MCS0	142	5710	16.91	16.01	19.49	≤ 22.98	Pass
802.11ac-VHT20	MCS0	52	5260	16.08	16.05	19.08	≤ 22.98	Pass
802.11ac-VHT20	MCS0	60	5300	16.51	16.27	19.40	≤ 22.98	Pass
802.11ac-VHT20	MCS0	64	5320	15.82	16.32	19.09	≤ 22.98	Pass
802.11ac-VHT20	MCS0	100	5500	14.68	14.61	17.66	≤ 22.98	Pass
802.11ac-VHT20	MCS0	120	5600	16.49	16.01	19.27	≤ 22.98	Pass
802.11ac-VHT20	MCS0	140	5700	14.11	14.21	17.17	≤ 22.98	Pass
802.11ac-VHT20	MCS0	144	5720	16.54	16.13	19.35	≤ 22.98	Pass

Note 1: Total Average Power (dBm) =  $10 \cdot \log\{10^{(\text{Ant 1 Average Power}/10)} + 10^{(\text{Ant 2 Average Power}/10)}\}$  (dBm).

Note 2: Power Limit (dBm) = 23.98 dBm - (7dBi - 6 dBi) = 22.98 dBm.

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
802.11ac-VHT40	MCS0	54	5270	16.95	16.51	19.75	≤ 22.98	Pass
802.11ac-VHT40	MCS0	62	5310	12.37	12.76	15.58	≤ 22.98	Pass
802.11ac-VHT40	MCS0	102	5510	12.23	11.92	15.09	≤ 22.98	Pass
802.11ac-VHT40	MCS0	118	5590	16.95	16.66	19.82	≤ 22.98	Pass
802.11ac-VHT40	MCS0	134	5670	16.67	16.25	19.48	≤ 22.98	Pass
802.11ac-VHT40	MCS0	142	5710	16.77	16.13	19.47	≤ 22.98	Pass
802.11ac-VHT80	MCS0	58	5290	13.44	12.99	16.23	≤ 22.98	Pass
802.11ac-VHT80	MCS0	106	5530	13.86	13.45	16.67	≤ 22.98	Pass
802.11ac-VHT80	MCS0	122	5610	16.51	15.92	19.24	≤ 22.98	Pass
802.11ac-VHT80	MCS0	138	5690	16.37	15.77	19.09	≤ 22.98	Pass

Note 1: Total Average Power (dBm) =  $10 \cdot \log\{10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)}\}$  (dBm).

Note 2: Power Limit (dBm) = 23.98 dBm - (7dBi - 6 dBi) = 22.98 dBm.

## 7.4. Transmit Power Control

### 7.4.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

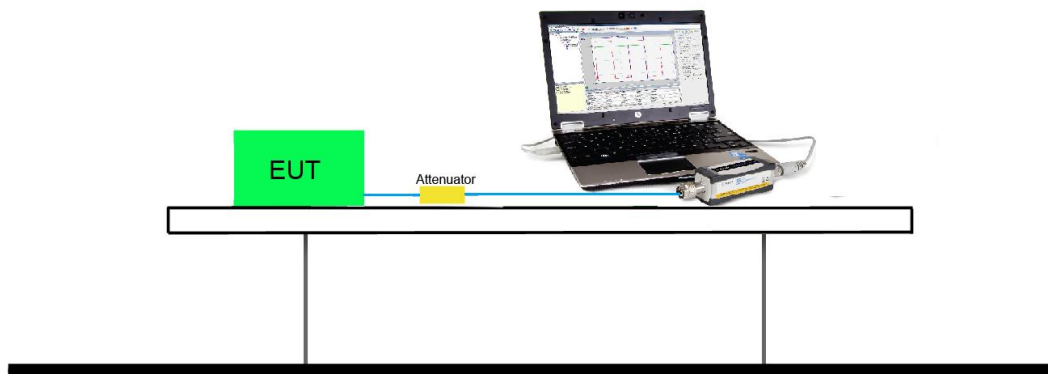
### 7.4.2. Test Procedure Used

KDB 789033 D02v01 - Section E) 3) b) Method PM-G

### 7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### 7.4.4. Test Setup



### 7.4.5. Test Result

A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

## 7.5. Power Spectral Density Measurement

### 7.5.1. Test Limit

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

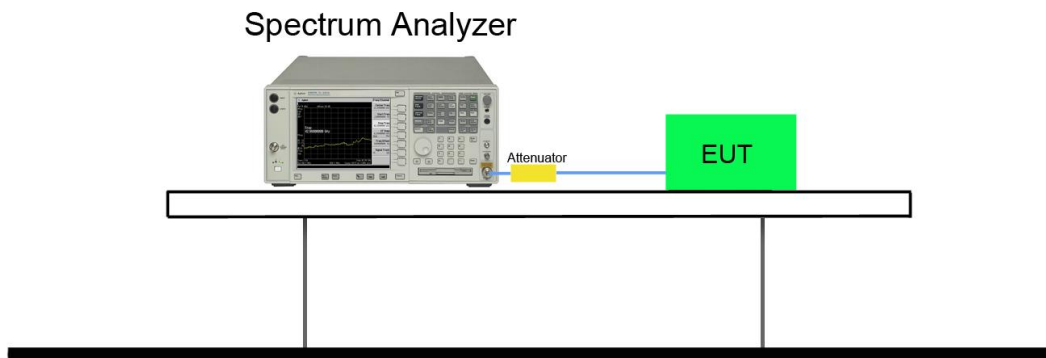
### 7.5.2. Test Procedure Used

KDB 789033 D02v01r03 - Section F

### 7.5.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,  
RBW = 100 kHz
4. VBW = 3MHz
5. Number of sweep points  $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add  $10 \cdot \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add  $10 \cdot \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.
11. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor  $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 7$  dB to the measured result

### 7.5.4. Test Setup



### 7.5.5. Test Result

Product	ACCESS POINT	Temperature	22°C
Test Engineer	Kevin Ker	Relative Humidity	50%
Test Site	SR1	Test Date	2016/12/28

#### 1TX \_ Ant 1

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6	52	5260	4.17	95.16	4.39	≤ 10.70	Pass
11a	6	60	5300	4.56	95.16	4.78	≤ 10.70	Pass
11a	6	64	5320	4.77	95.16	4.99	≤ 10.70	Pass
11a	6	100	5500	5.48	95.16	5.70	≤ 10.70	Pass
11a	6	120	5600	6.10	95.16	6.31	≤ 10.70	Pass
11a	6	140	5700	5.81	95.16	6.03	≤ 10.70	Pass
11a	6	144	5720	5.47	95.16	5.68	≤ 10.70	Pass
11n-HT20	26	52	5260	5.62	95.05	5.84	≤ 10.70	Pass
11n-HT20	26	60	5300	5.57	95.05	5.79	≤ 10.70	Pass
11n-HT20	26	64	5320	5.50	95.05	5.72	≤ 10.70	Pass
11n-HT20	26	100	5500	5.00	95.05	5.22	≤ 10.70	Pass
11n-HT20	26	120	5600	5.39	95.05	5.61	≤ 10.70	Pass
11n-HT20	26	140	5700	5.27	95.05	5.49	≤ 10.70	Pass
11n-HT20	26	144	5720	5.25	95.05	5.47	≤ 10.70	Pass
11n-HT40	54	54	5270	1.01	90.41	1.45	≤ 10.70	Pass
11n-HT40	54	62	5310	-0.16	90.41	0.28	≤ 10.70	Pass
11n-HT40	54	102	5510	-1.29	90.41	-0.85	≤ 10.70	Pass
11n-HT40	54	118	5590	2.87	90.41	3.31	≤ 10.70	Pass
11n-HT40	54	134	5670	2.94	90.41	3.38	≤ 10.70	Pass
11n-HT40	54	142	5710	2.66	90.41	3.09	≤ 10.70	Pass

Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) = Ant 1 PSD (dBm/ MHz)

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) = Ant 1 PSD (dBm/ MHz) + 10\*log(1/Duty Cycle).

Note 3: PSD Limit (dBm/ MHz) = 11 dBm/ MHz - (6.3dBi - 6dBi) = 10.7 dBm/ MHz.

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT20	26	52	5260	4.00	98.47	4.00	≤ 10.70	Pass
11ac-VHT20	26	60	5300	4.46	98.47	4.46	≤ 10.70	Pass
11ac-VHT20	26	64	5320	4.35	98.47	4.35	≤ 10.70	Pass
11ac-VHT20	26	100	5500	5.15	98.47	5.15	≤ 10.70	Pass
11ac-VHT20	26	120	5600	5.90	98.47	5.90	≤ 10.70	Pass
11ac-VHT20	26	140	5700	5.39	98.47	5.39	≤ 10.70	Pass
11ac-VHT20	26	144	5720	5.17	98.47	5.17	≤ 10.70	Pass
11ac-VHT40	54	54	5270	0.96	97.03	1.09	≤ 10.70	Pass
11ac-VHT40	54	62	5310	0.18	97.03	0.31	≤ 10.70	Pass
11ac-VHT40	54	102	5510	-1.09	97.03	-0.96	≤ 10.70	Pass
11ac-VHT40	54	118	5590	2.78	97.03	2.91	≤ 10.70	Pass
11ac-VHT40	54	134	5670	2.86	97.03	2.99	≤ 10.70	Pass
11ac-VHT40	54	142	5710	2.60	97.03	2.73	≤ 10.70	Pass
11ac-VHT80	117.2	58	5290	-3.31	93.79	-3.03	≤ 10.70	Pass
11ac-VHT80	117.2	106	5530	-3.76	93.79	-3.48	≤ 10.70	Pass
11ac-VHT80	117.2	122	5610	-0.24	93.79	0.04	≤ 10.70	Pass
11ac-VHT80	117.2	138	5690	-0.71	93.79	-0.43	≤ 10.70	Pass

Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) = Ant 1 PSD (dBm/ MHz)

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) = Ant 1 PSD (dBm/ MHz) + 10\*log(1/Duty Cycle).

Note 3: PSD Limit (dBm/ MHz) = 11 dBm/ MHz - (6.3dBi - 6dBi) = 10.7 dBm/ MHz.

**CDD Mode**
**2TX \_ Ant 1 + 2**

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6	52	5260	4.54	4.65	95.16	7.82	≤ 10.00	Pass
11a	6	60	5300	4.72	4.43	95.16	7.80	≤ 10.00	Pass
11a	6	64	5320	4.86	4.61	95.16	7.96	≤ 10.00	Pass
11a	6	100	5500	3.98	3.82	95.16	7.13	≤ 10.00	Pass
11a	6	120	5600	5.66	5.70	95.16	8.91	≤ 10.00	Pass
11a	6	140	5700	3.24	3.61	95.16	6.65	≤ 10.00	Pass
11a	6	144	5720	5.75	4.98	95.16	8.61	≤ 10.00	Pass
11n-HT20	26	52	5260	4.13	4.35	95.05	7.47	≤ 10.00	Pass
11n-HT20	26	60	5300	4.33	4.28	95.05	7.54	≤ 10.00	Pass
11n-HT20	26	64	5320	4.32	4.20	95.05	7.49	≤ 10.00	Pass
11n-HT20	26	100	5500	3.18	2.78	95.05	6.22	≤ 10.00	Pass
11n-HT20	26	120	5600	5.24	4.31	95.05	8.03	≤ 10.00	Pass
11n-HT20	26	140	5700	3.62	3.72	95.05	6.90	≤ 10.00	Pass
11n-HT20	26	144	5720	5.42	4.29	95.05	8.12	≤ 10.00	Pass
11n-HT40	54	54	5270	1.04	0.82	90.41	4.38	≤ 10.00	Pass
11n-HT40	54	62	5310	-0.74	-1.31	90.41	2.43	≤ 10.00	Pass
11n-HT40	54	102	5510	-2.17	-2.75	90.41	1.00	≤ 10.00	Pass
11n-HT40	54	118	5590	3.37	1.43	90.41	5.96	≤ 10.00	Pass
11n-HT40	54	134	5670	2.81	2.40	90.41	6.06	≤ 10.00	Pass
11n-HT40	54	142	5710	2.48	2.39	90.41	5.89	≤ 10.00	Pass

Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\} + 10 \cdot \log(1/\text{Duty Cycle})$ .

Note 3: PSD Limit (dBm/ MHz) = 11 dBm/ MHz - (7dBi - 6dBi) = 10 dBm/ MHz.



Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT20	26	52	5260	4.20	4.30	98.47	7.26	≤ 10.00	Pass
11ac-VHT20	26	60	5300	4.40	4.46	98.47	7.44	≤ 10.00	Pass
11ac-VHT20	26	64	5320	4.36	4.27	98.47	7.33	≤ 10.00	Pass
11ac-VHT20	26	100	5500	3.38	2.98	98.47	6.19	≤ 10.00	Pass
11ac-VHT20	26	120	5600	5.81	5.62	98.47	8.73	≤ 10.00	Pass
11ac-VHT20	26	140	5700	2.98	2.70	98.47	5.85	≤ 10.00	Pass
11ac-VHT20	26	144	5720	5.37	4.55	98.47	7.99	≤ 10.00	Pass
11ac-VHT40	54	54	5270	1.42	0.83	97.03	4.28	≤ 10.00	Pass
11ac-VHT40	54	62	5310	-1.08	-1.49	97.03	1.86	≤ 10.00	Pass
11ac-VHT40	54	102	5510	-2.61	-3.13	97.03	0.28	≤ 10.00	Pass
11ac-VHT40	54	118	5590	3.17	2.68	97.03	6.07	≤ 10.00	Pass
11ac-VHT40	54	134	5670	0.39	-0.31	97.03	3.20	≤ 10.00	Pass
11ac-VHT40	54	142	5710	2.64	2.18	97.03	5.55	≤ 10.00	Pass
11ac-VHT80	117.2	58	5290	-5.30	-5.94	93.79	-2.32	≤ 10.00	Pass
11ac-VHT80	117.2	106	5530	-5.83	-6.49	93.79	-2.86	≤ 10.00	Pass
11ac-VHT80	117.2	122	5610	0.35	-0.26	93.79	3.35	≤ 10.00	Pass
11ac-VHT80	117.2	138	5690	-0.08	-0.85	93.79	2.84	≤ 10.00	Pass

Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10 \cdot \log(1/\text{Duty Cycle})\}$ .

Note 3: PSD Limit (dBm/ MHz) = 11 dBm/ MHz - (7dBi - 6dBi) = 10 dBm/ MHz.

**Beam-Forming Mode**
**2TX \_ Ant 1 + 2**

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11n-HT20	26	52	5260	2.70	2.90	95.05	6.03	≤ 10.00	Pass
11n-HT20	26	60	5300	2.71	3.06	95.05	6.12	≤ 10.00	Pass
11n-HT20	26	64	5320	2.95	2.89	95.05	6.15	≤ 10.00	Pass
11n-HT20	26	100	5500	1.62	2.06	95.05	5.08	≤ 10.00	Pass
11n-HT20	26	120	5600	3.03	3.45	95.05	6.48	≤ 10.00	Pass
11n-HT20	26	140	5700	1.32	2.27	95.05	5.05	≤ 10.00	Pass
11n-HT20	26	144	5720	3.32	3.54	95.05	6.66	≤ 10.00	Pass
11n-HT40	54	54	5270	-0.62	-0.42	90.41	2.93	≤ 10.00	Pass
11n-HT40	54	62	5310	-2.41	-2.21	90.41	1.14	≤ 10.00	Pass
11n-HT40	54	102	5510	-2.96	-2.58	90.41	0.68	≤ 10.00	Pass
11n-HT40	54	118	5590	1.16	1.28	90.41	4.67	≤ 10.00	Pass
11n-HT40	54	134	5670	1.28	0.57	90.41	4.39	≤ 10.00	Pass
11n-HT40	54	142	5710	1.89	0.89	90.41	4.87	≤ 10.00	Pass
11ac-VHT20	26	52	5260	2.71	3.04	98.47	5.96	≤ 10.00	Pass
11ac-VHT20	26	60	5300	2.69	3.40	98.47	6.14	≤ 10.00	Pass
11ac-VHT20	26	64	5320	2.83	3.04	98.47	6.01	≤ 10.00	Pass
11ac-VHT20	26	100	5500	1.93	2.06	98.47	5.07	≤ 10.00	Pass
11ac-VHT20	26	120	5600	3.32	3.37	98.47	6.42	≤ 10.00	Pass
11ac-VHT20	26	140	5700	2.00	2.61	98.47	5.39	≤ 10.00	Pass
11ac-VHT20	26	144	5720	3.23	3.85	98.47	6.63	≤ 10.00	Pass

Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\} + 10 \cdot \log(1/\text{Duty Cycle})$ .

Note 3: PSD Limit (dBm/ MHz) = 11 dBm/ MHz - (7dBi - 6dBi) = 10 dBm/ MHz.

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT40	54	54	5270	2.30	1.98	97.03	5.28	≤ 10.00	Pass
11ac-VHT40	54	62	5310	-2.71	-2.57	97.03	0.50	≤ 10.00	Pass
11ac-VHT40	54	102	5510	-3.16	-2.92	97.03	0.10	≤ 10.00	Pass
11ac-VHT40	54	118	5590	2.23	-0.34	97.03	4.27	≤ 10.00	Pass
11ac-VHT40	54	134	5670	1.78	1.55	97.03	4.81	≤ 10.00	Pass
11ac-VHT40	54	142	5710	1.64	1.44	97.03	4.68	≤ 10.00	Pass
11ac-VHT80	117.2	58	5290	-5.89	-6.43	93.79	-2.86	≤ 10.00	Pass
11ac-VHT80	117.2	106	5530	-6.26	-6.33	93.79	-3.01	≤ 10.00	Pass
11ac-VHT80	117.2	122	5610	-1.53	-1.55	93.79	1.75	≤ 10.00	Pass
11ac-VHT80	117.2	138	5690	-1.73	-2.20	93.79	1.33	≤ 10.00	Pass

Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$

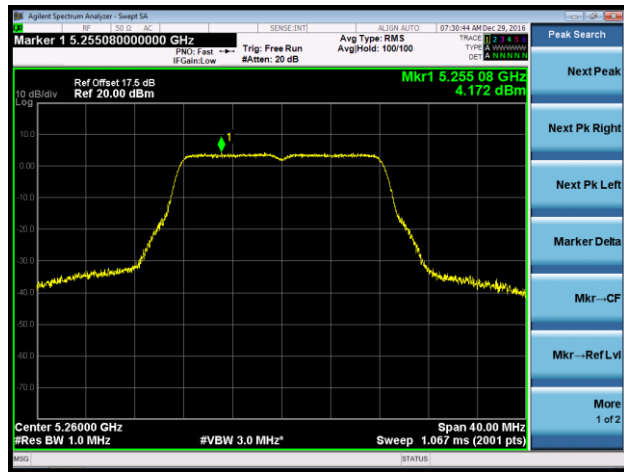
Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\} + 10 \cdot \log(1/\text{Duty Cycle})$ .

Note 3: PSD Limit (dBm/ MHz) = 11 dBm/ MHz - (7dBi - 6dBi) = 10 dBm/ MHz.

1TX \_ Ant 1

802.11a Power Spectral Density - Ant 1

Channel 52 (5260MHz)



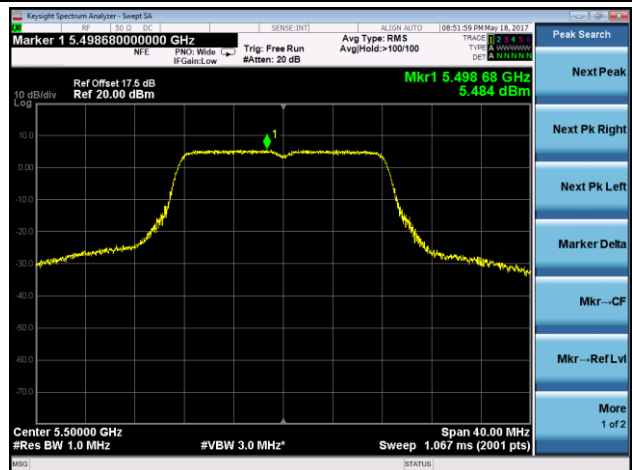
Channel 60 (5300MHz)



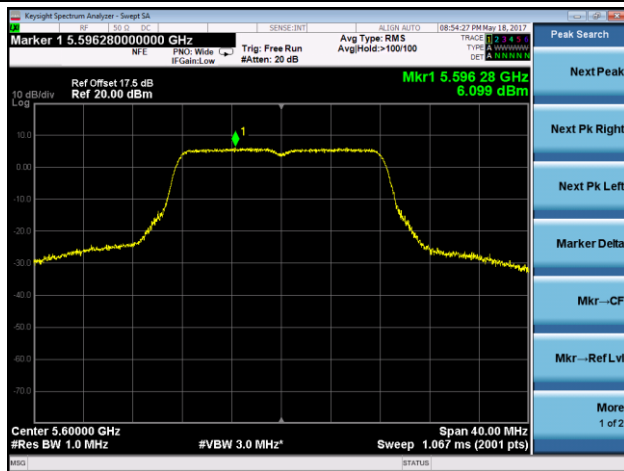
Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)

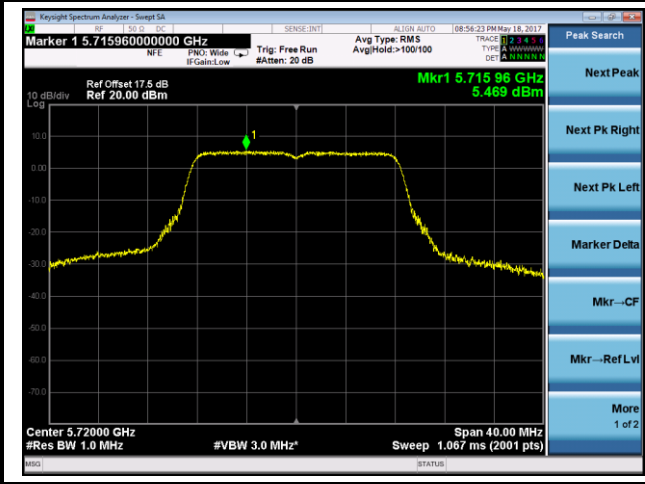


Channel 140 (5700MHz)



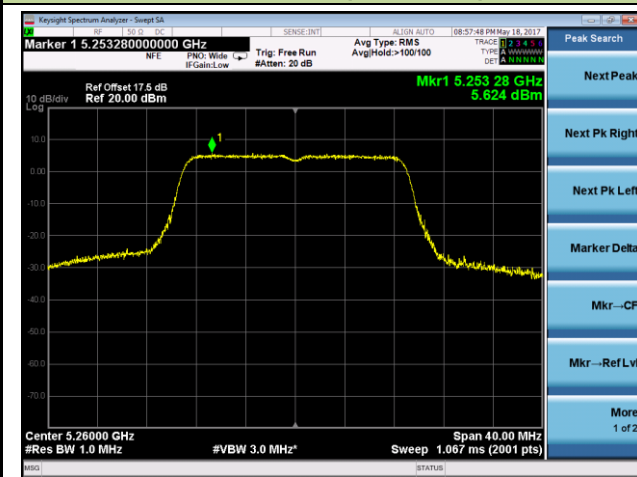
### 802.11a Power Spectral Density - Ant 1

#### Channel 144 (5720MHz)

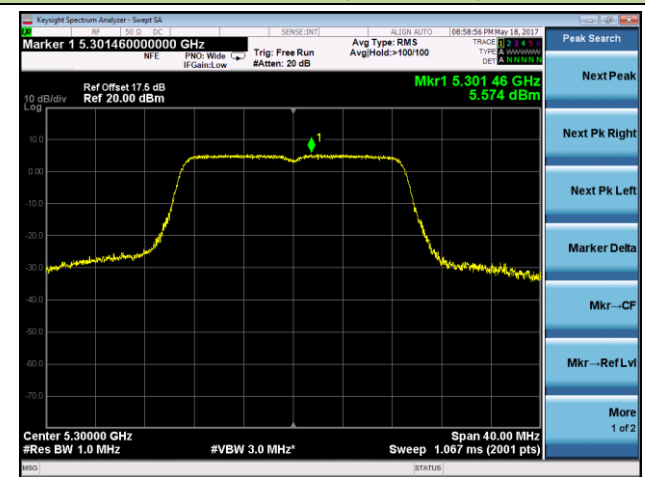


### 802.11n-HT20 Power Spectral Density - Ant 1

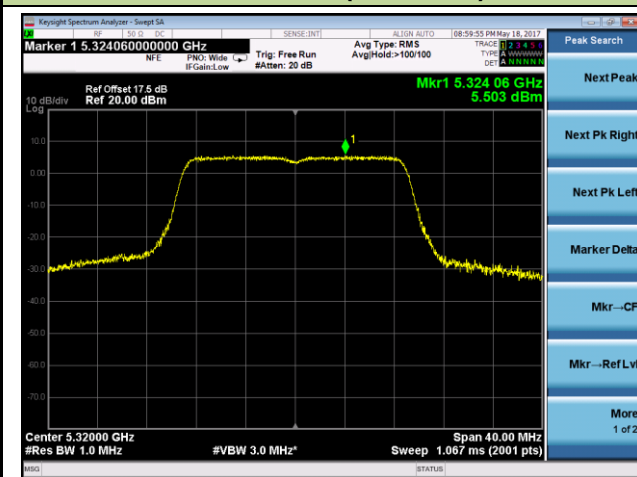
#### Channel 52 (5260MHz)



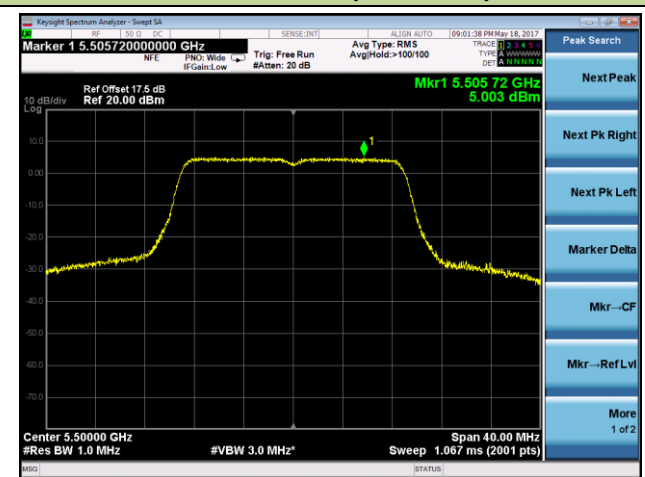
#### Channel 60 (5300MHz)



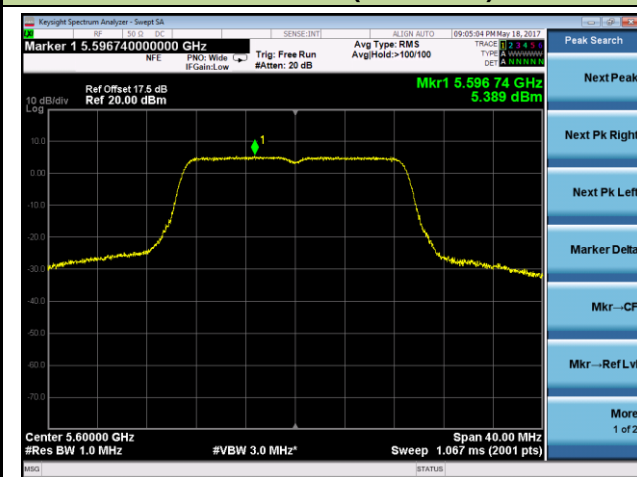
#### Channel 64 (5320MHz)



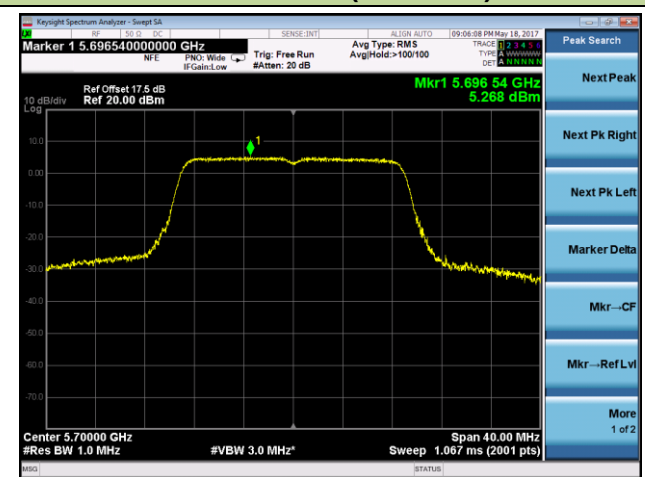
#### Channel 100 (5500MHz)



#### Channel 120 (5600MHz)

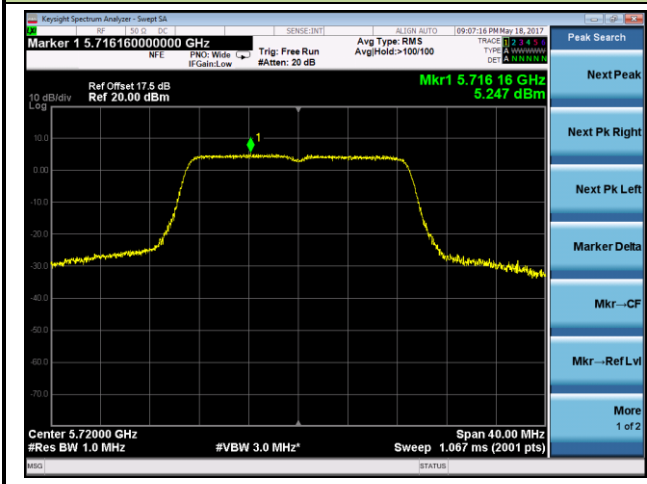


#### Channel 140 (5700MHz)



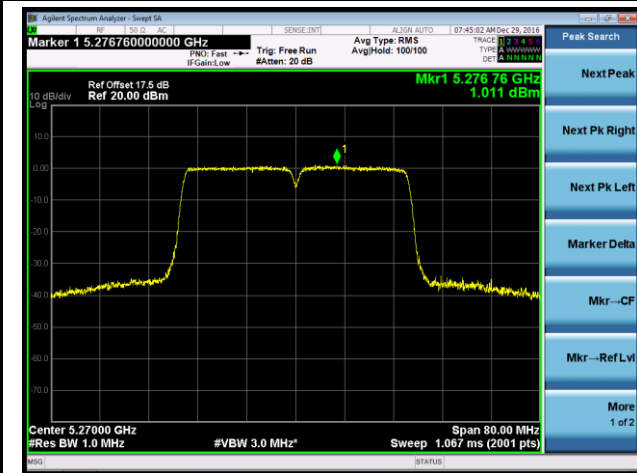
### 802.11n-HT20 Power Spectral Density - Ant 1

#### Channel 144 (5720MHz)

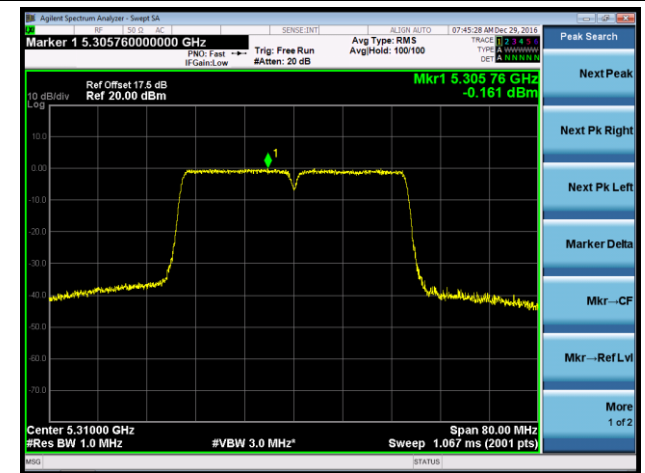


### 802.11n-HT40 Power Spectral Density - Ant 1

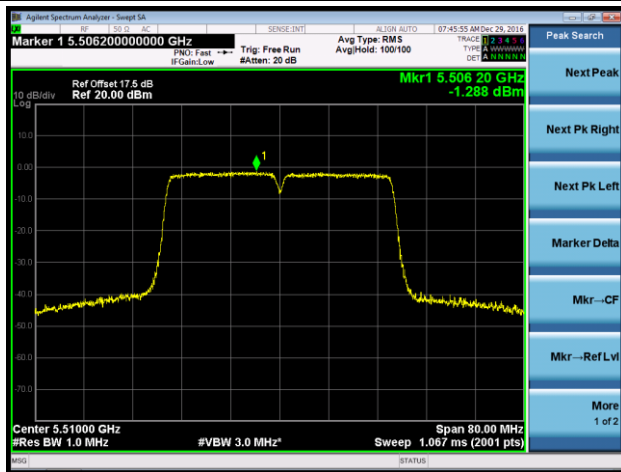
**Channel 54 (5270MHz)**



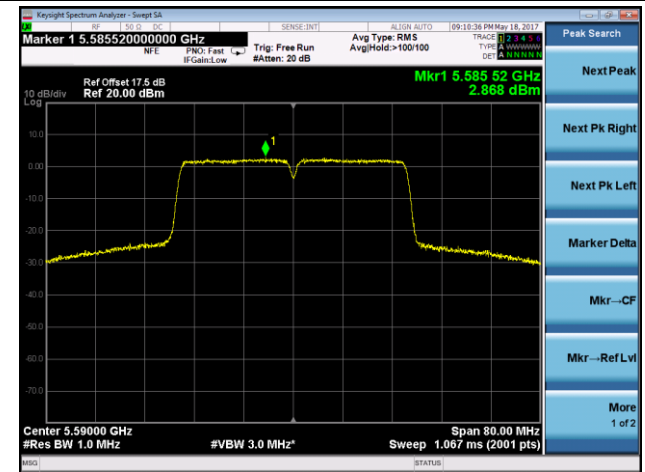
**Channel 62 (5310MHz)**



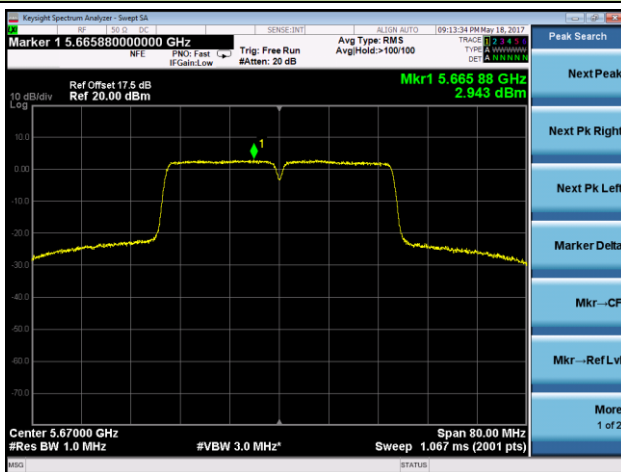
**Channel 102 (5510MHz)**



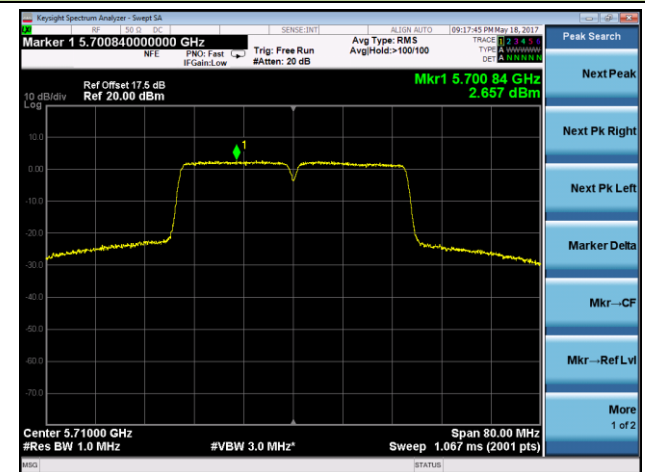
**Channel 118 (5590MHz)**



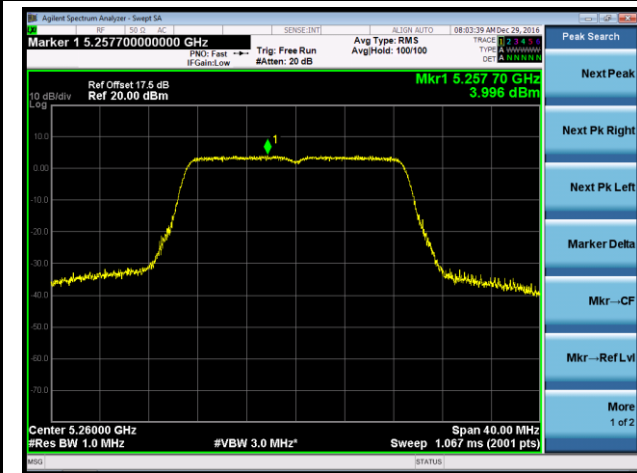
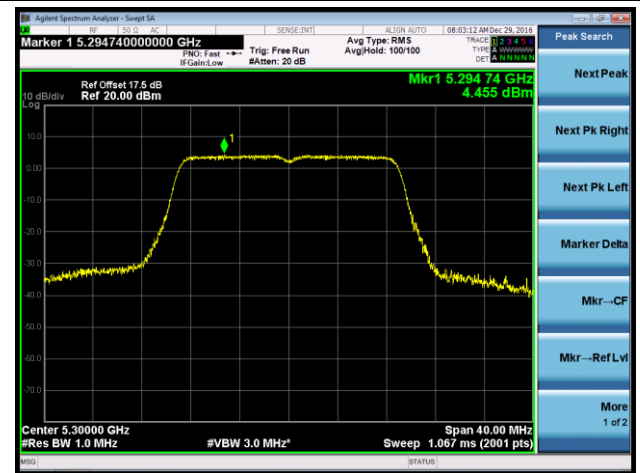
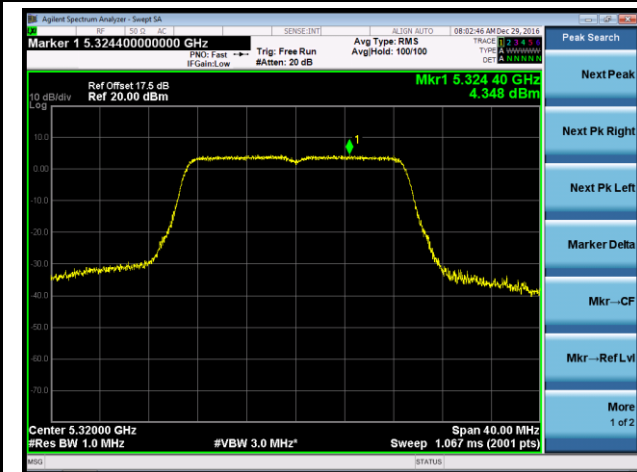
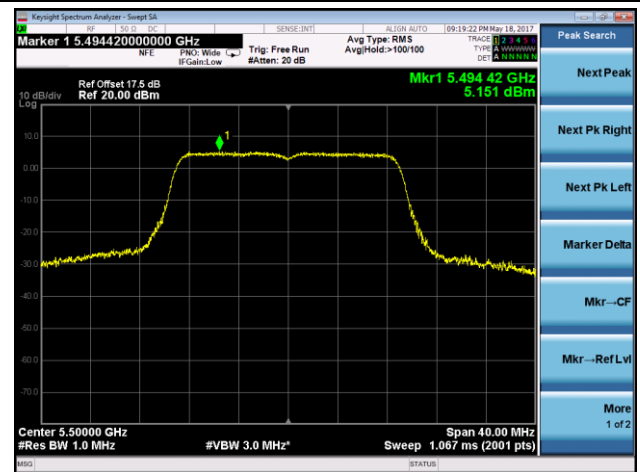
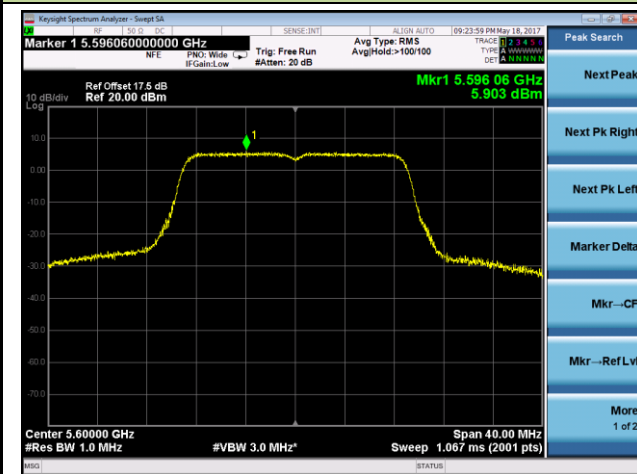
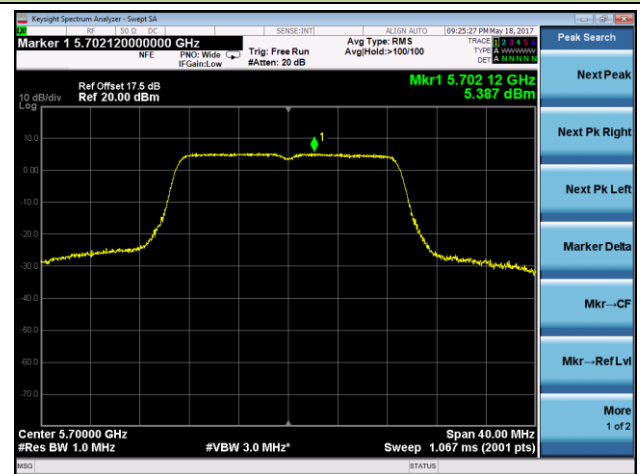
**Channel 134 (5670MHz)**



**Channel 142 (5710MHz)**

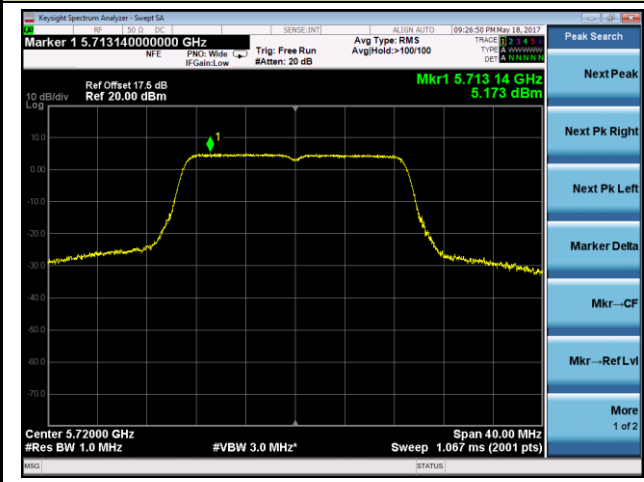




**802.11ac-VHT20 Power Spectral Density - Ant 1**
**Channel 52 (5260MHz)**

**Channel 60 (5300MHz)**

**Channel 64 (5320MHz)**

**Channel 100 (5500MHz)**

**Channel 120 (5600MHz)**

**Channel 140 (5700MHz)**


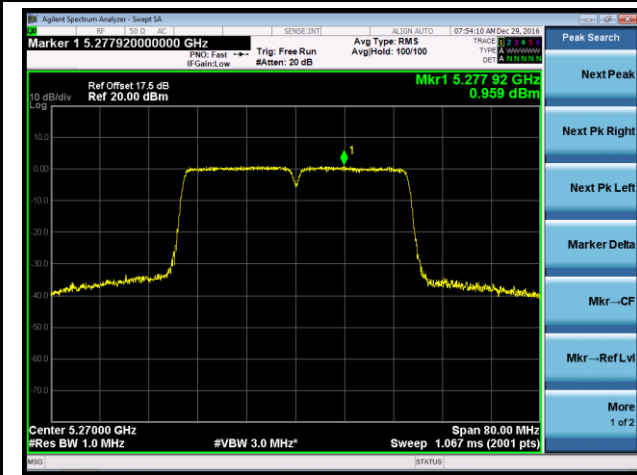
802.11ac-VHT20 Power Spectral Density - Ant 1

Channel 144 (5720MHz)

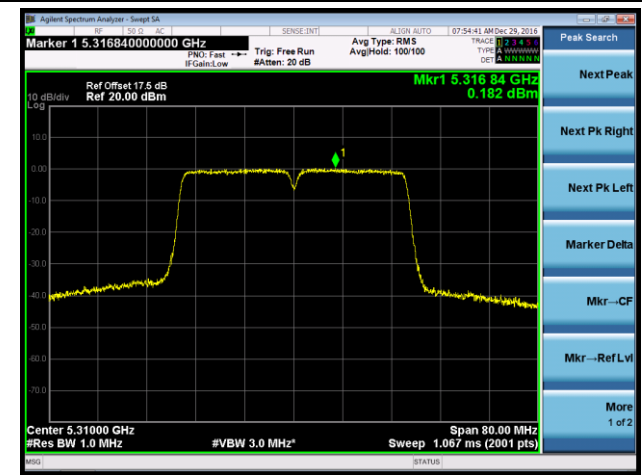


### 802.11ac-VHT40 Power Spectral Density - Ant 1

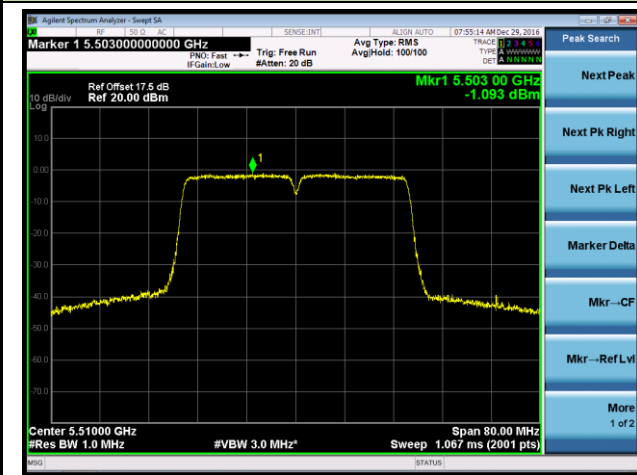
**Channel 54 (5270MHz)**



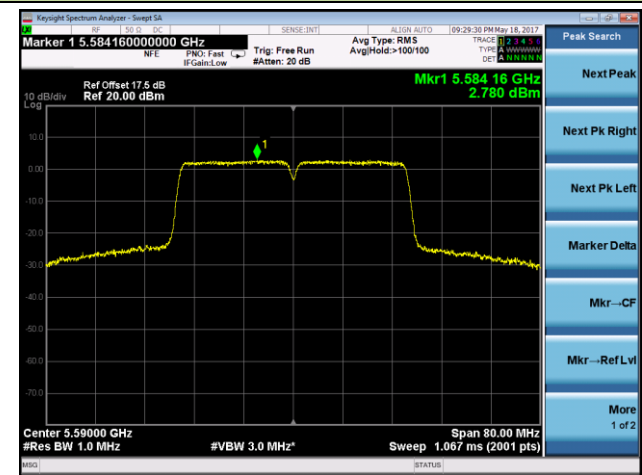
**Channel 62 (5310MHz)**



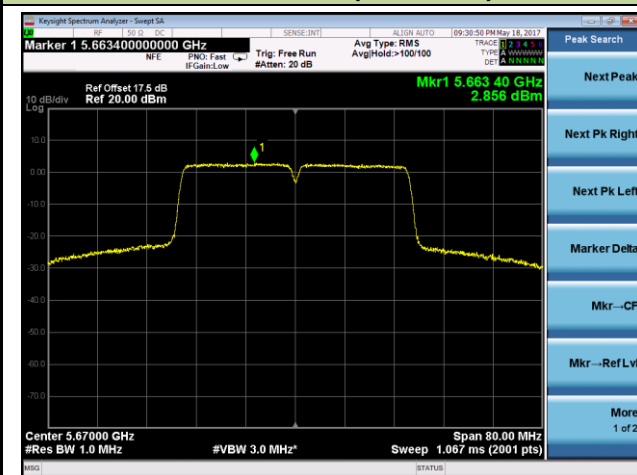
**Channel 102 (5510MHz)**



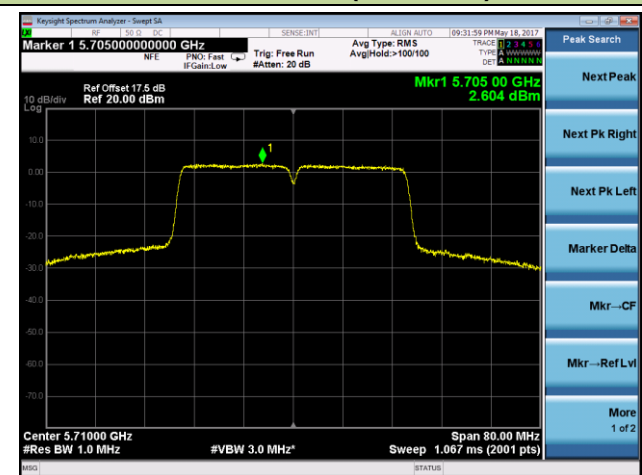
**Channel 118 (5590MHz)**



**Channel 134 (5670MHz)**

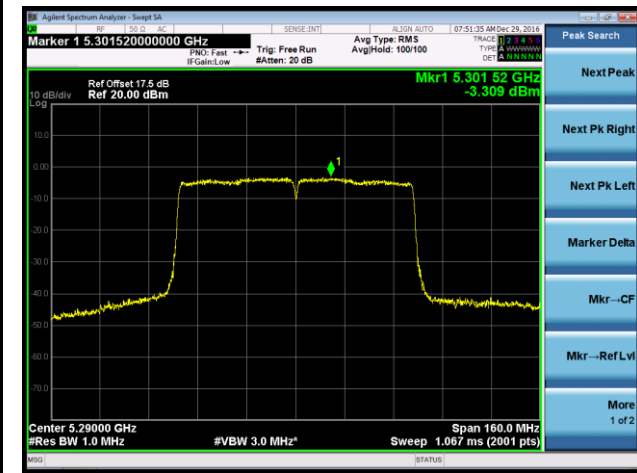


**Channel 142 (5710MHz)**

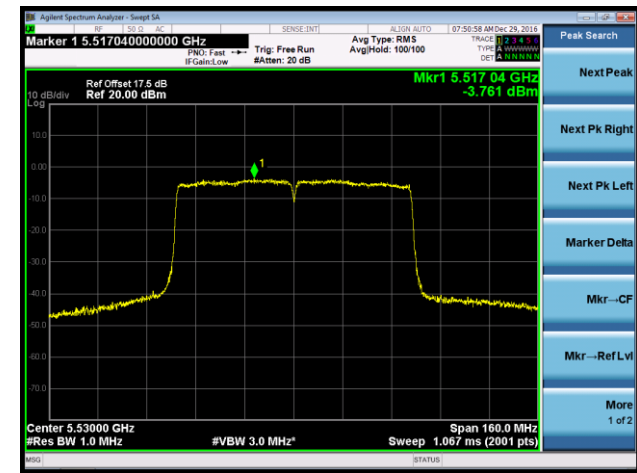


802.11ac-VHT80 Power Spectral Density - Ant 1

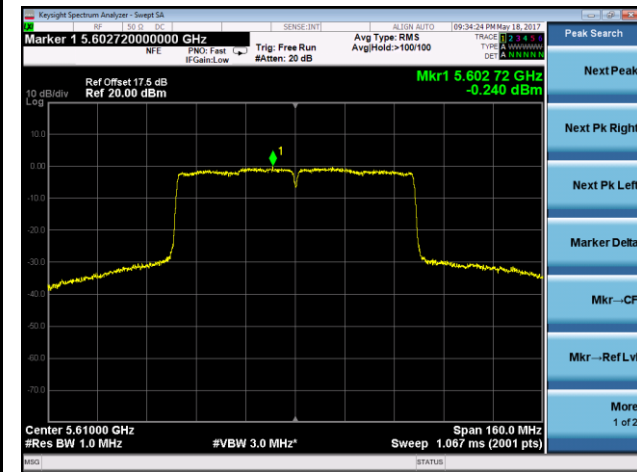
Channel 58 (5290MHz)



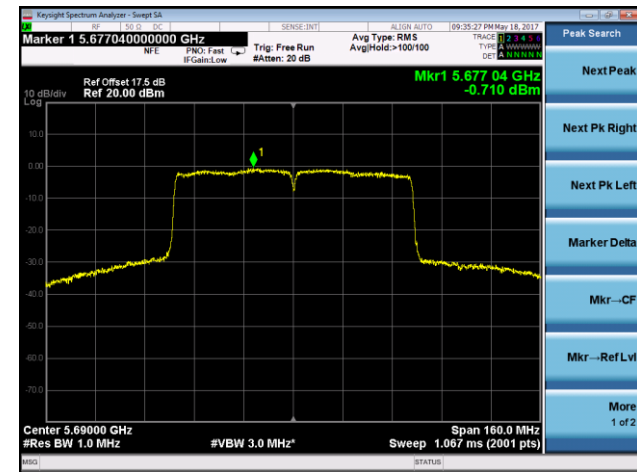
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

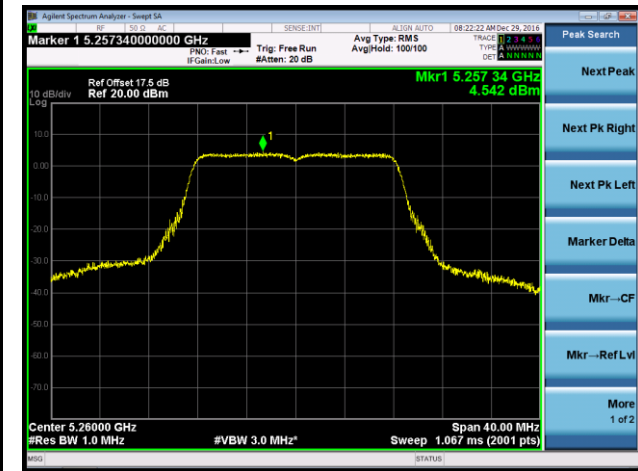


**CDD Mode**

2TX \_ Ant 1 + 2

**802.11a Power Spectral Density - Ant 1 / Ant 1 + 2**

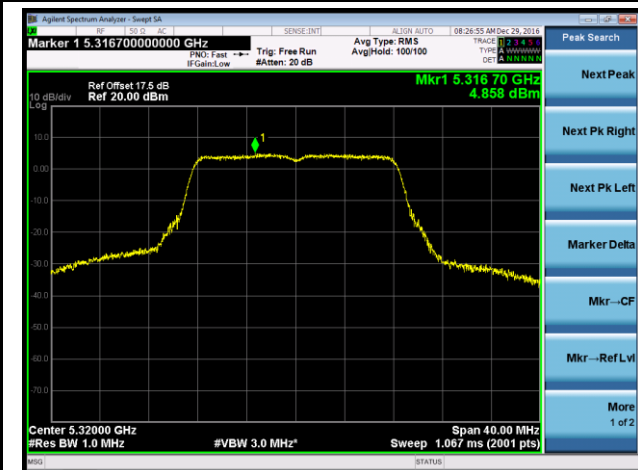
**Channel 52 (5260MHz)**



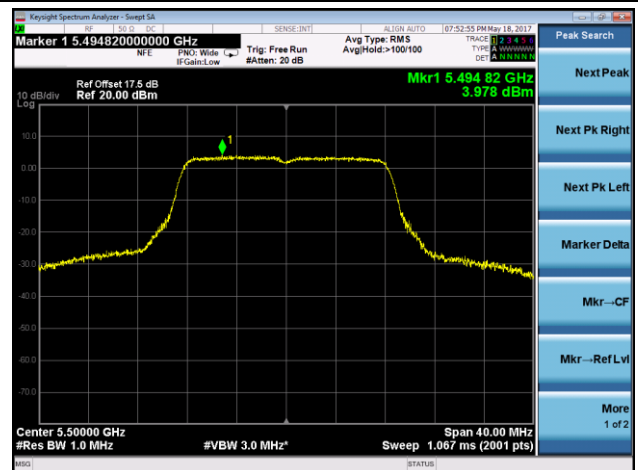
**Channel 60 (5300MHz)**



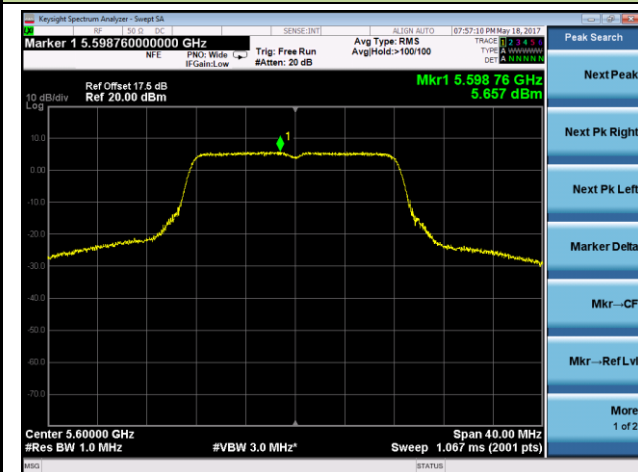
**Channel 64 (5320MHz)**



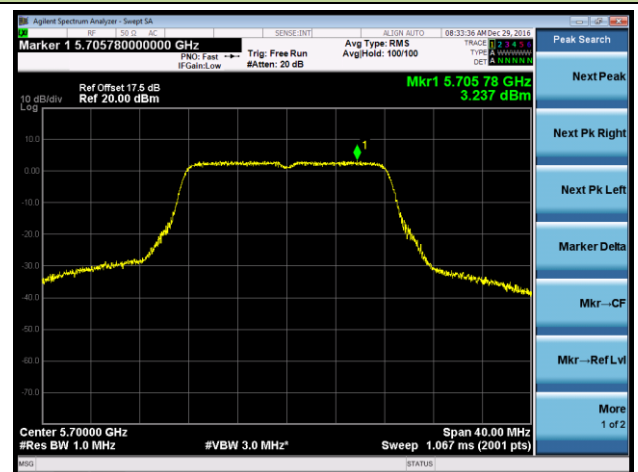
**Channel 100 (5500MHz)**



**Channel 120 (5600MHz)**

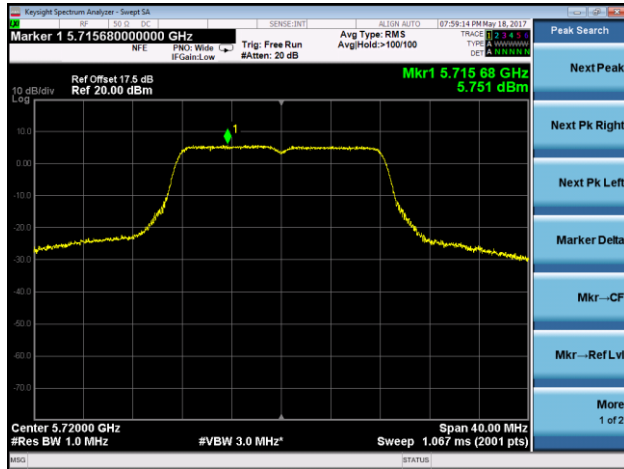


**Channel 140 (5700MHz)**



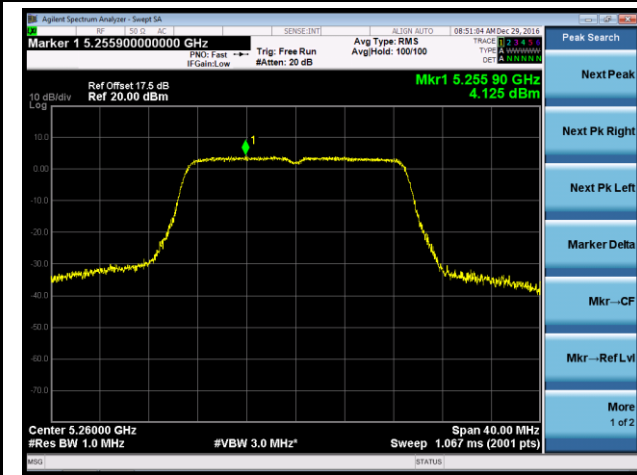
802.11a Power Spectral Density - Ant 1 / Ant 1 + 2

Channel 144 (5720MHz)

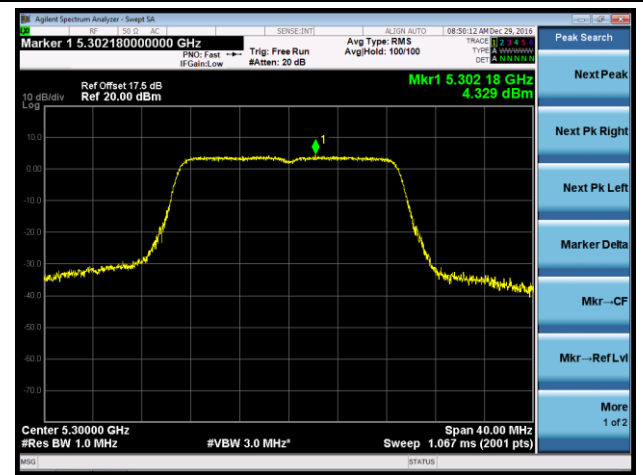


### 802.11n-HT20 Power Spectral Density - Ant 1 / Ant 1 + 2

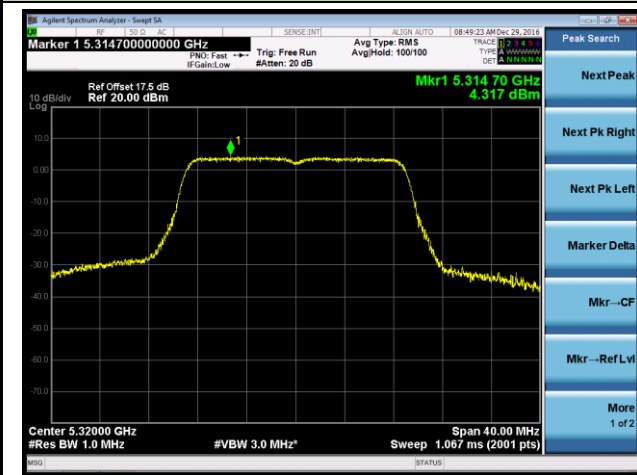
**Channel 52 (5260MHz)**



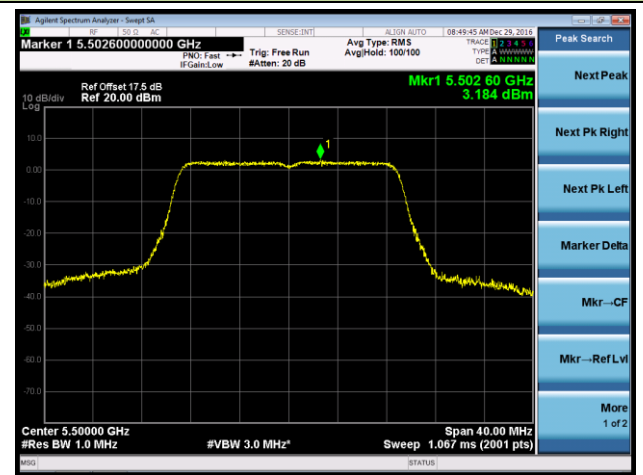
**Channel 60 (5300MHz)**



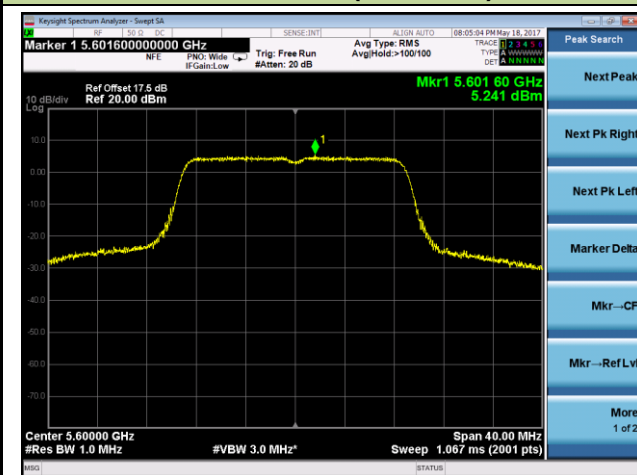
**Channel 64 (5320MHz)**



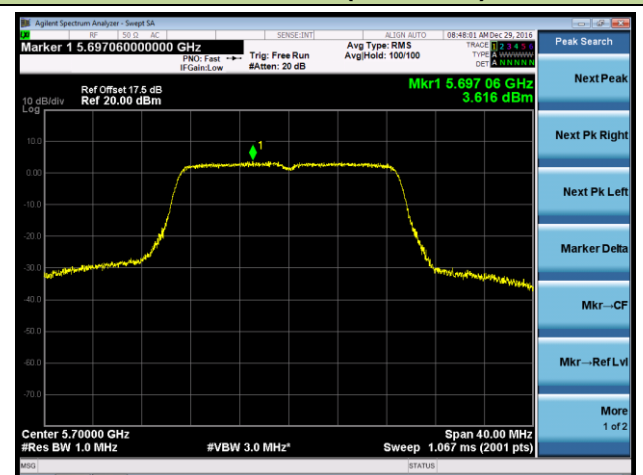
**Channel 100 (5500MHz)**



**Channel 120 (5600MHz)**

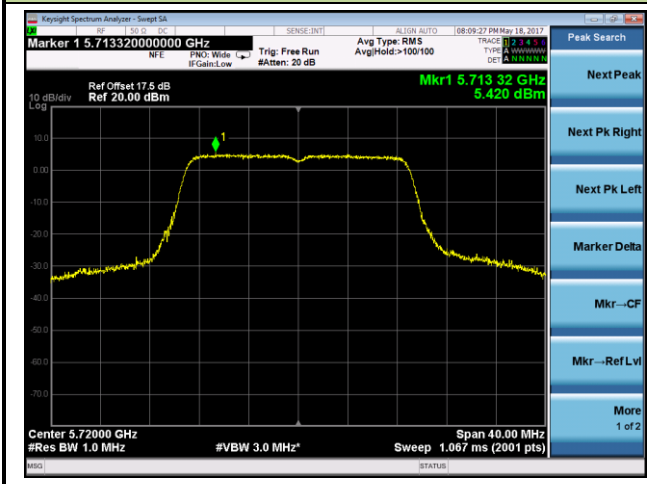


**Channel 140 (5700MHz)**



802.11n-HT20 Power Spectral Density - Ant 1 / Ant 1 + 2

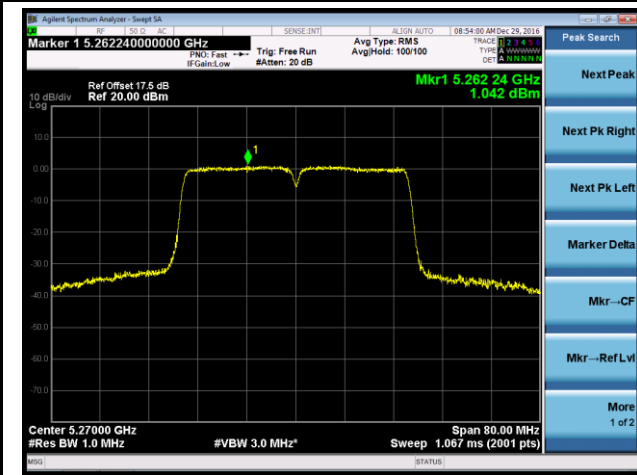
Channel 144 (5720MHz)



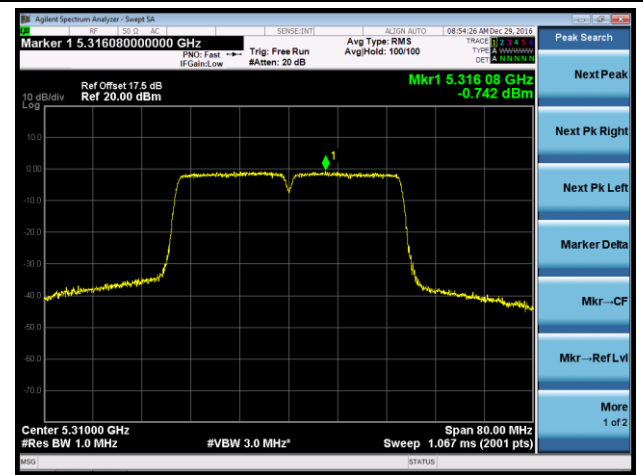


### 802.11n-HT40 Power Spectral Density - Ant 1 / Ant 1 + 2

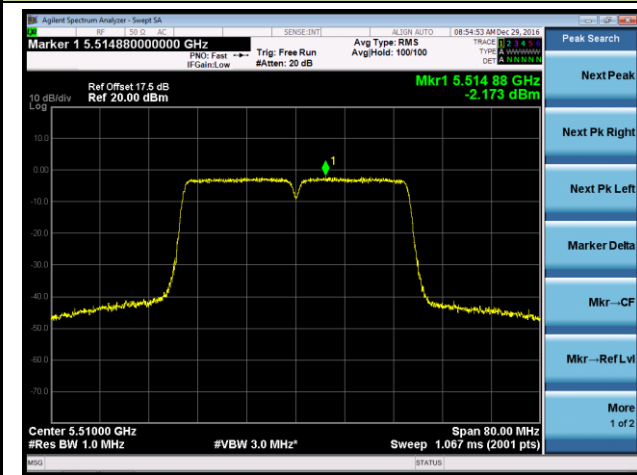
**Channel 54 (5270MHz)**



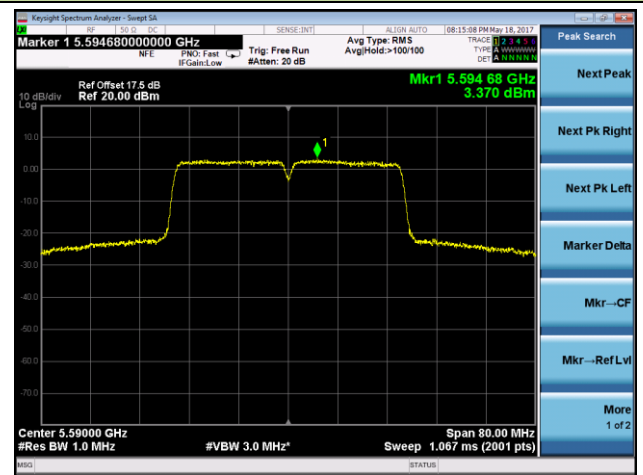
**Channel 62 (5310MHz)**



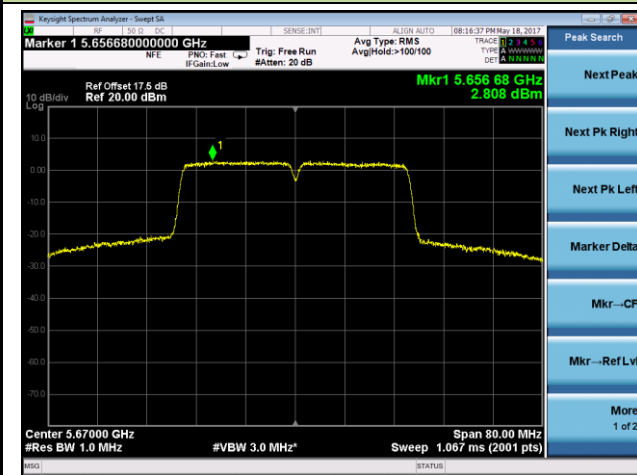
**Channel 102 (5510MHz)**



**Channel 118 (5590MHz)**



**Channel 134 (5670MHz)**



**Channel 142 (5710MHz)**

