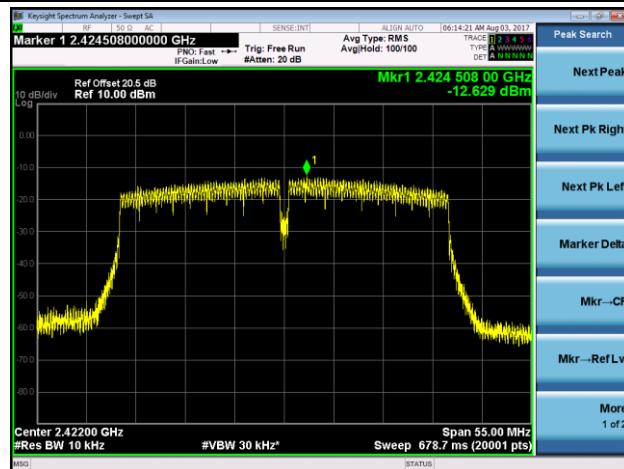
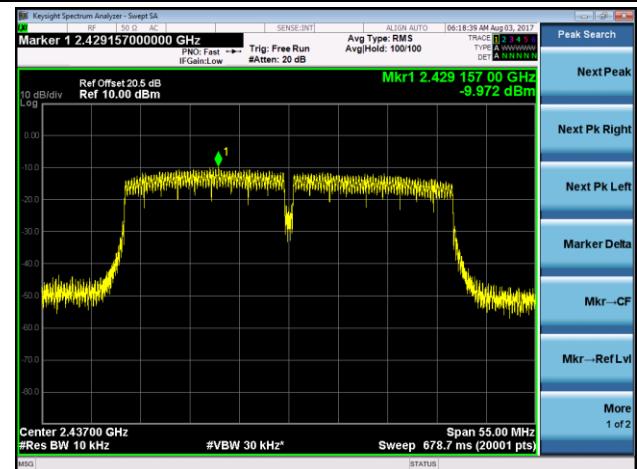
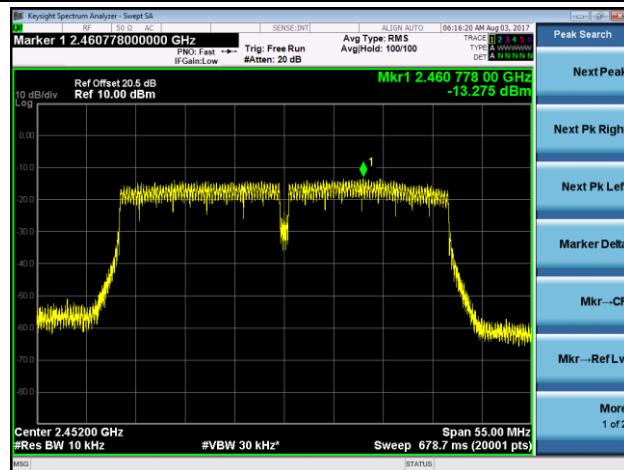
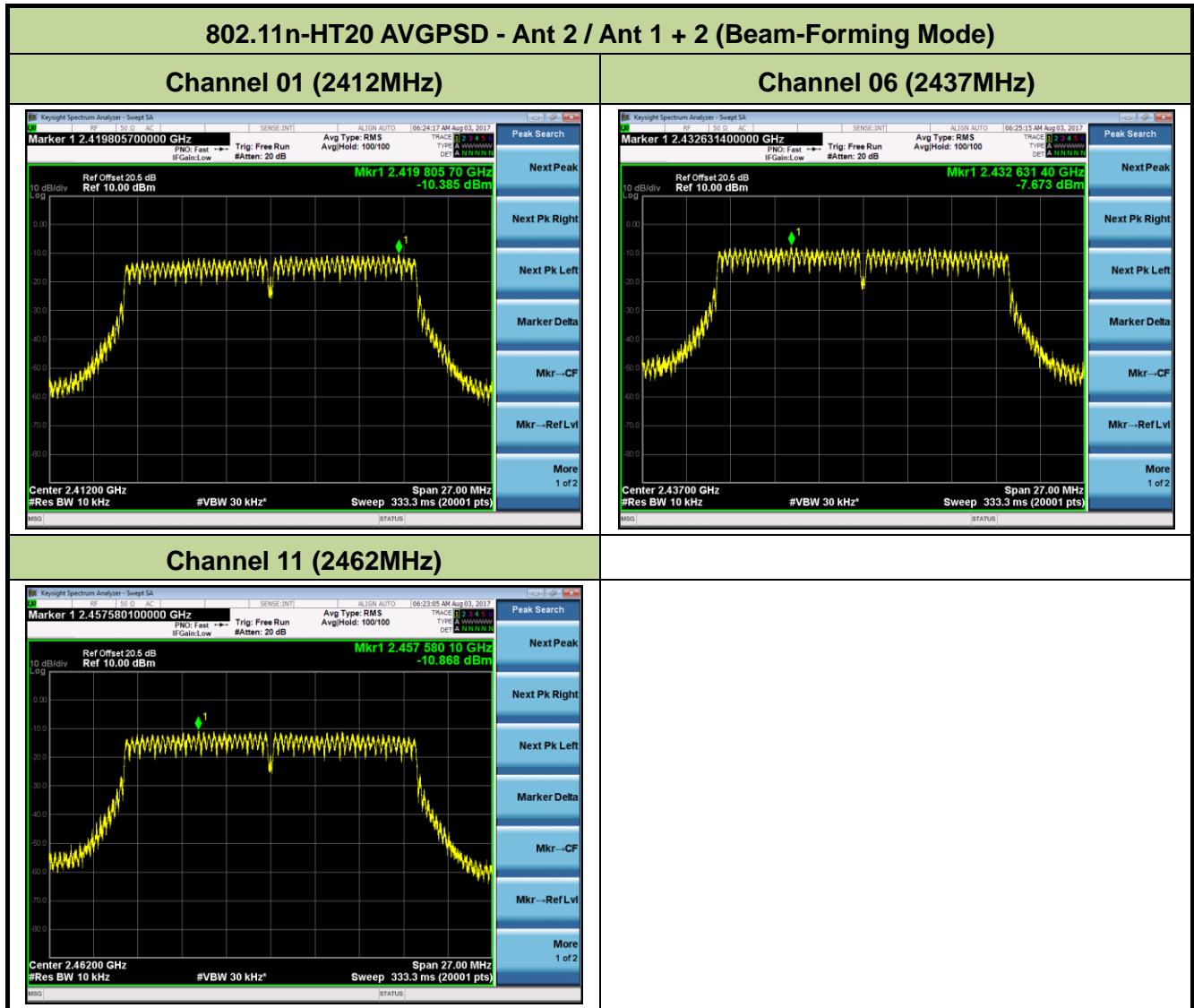
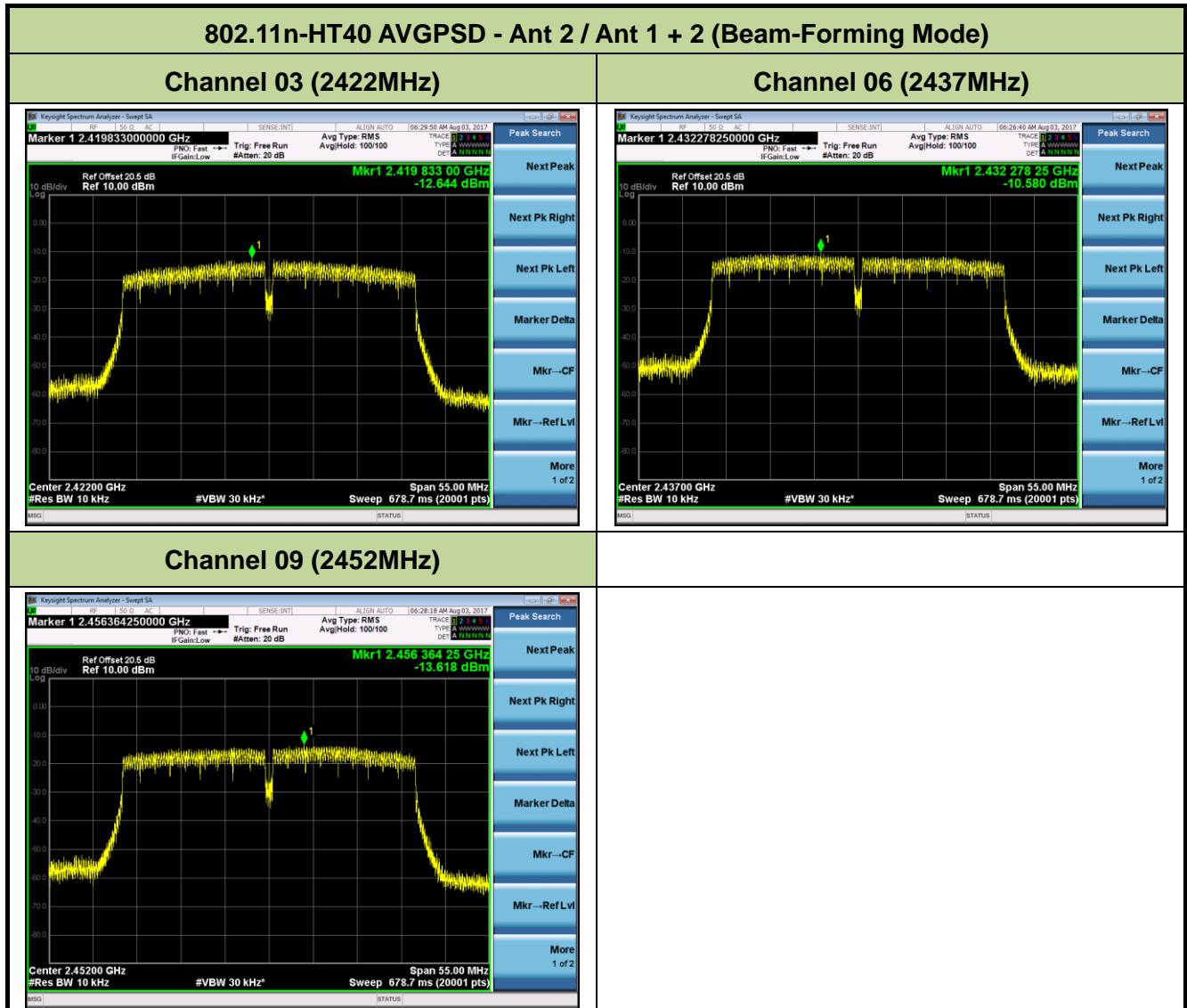


**802.11n-HT40 AVGPSD - Ant 1 / Ant 1 + 2 (Beam-Forming Mode)**
**Channel 03 (2422MHz)**

**Channel 06 (2437MHz)**

**Channel 09 (2452MHz)**






## **7.5. Conducted Band Edge and Out-of-Band Emissions**

### **7.5.1. Test Limit**

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

### **7.5.2. Test Procedure Used**

KDB 558074 D01v04 - Section 11.2 & Section 11.3

### **7.5.3. Test Setting**

#### **Reference level measurement**

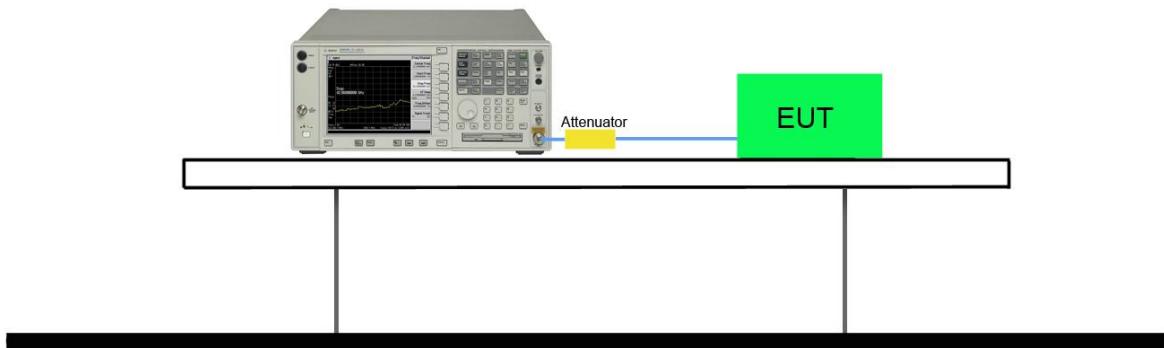
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to  $\geq$  1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW  $\geq$  3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

#### **Emission level measurement**

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

#### 7.5.4. Test Setup

Spectrum Analyzer



### 7.5.5. Test Result

Product	AC220i Wi-Fi AP ID omni antenna US	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2017/08/03
Test Item	Conducted Band Edge and Out-of-Band Emissions		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Measurement Level (dBm)	Limit (dBc to dBm)	Result
<b>Ant 1</b>						
11b	1Mbps	01	2412	-37.73	-17.17	Pass
11b	1Mbps	06	2437	-40.67	-17.10	Pass
11b	1Mbps	11	2462	-41.17	-17.04	Pass
11g	6Mbps	01	2412	-30.97	-20.71	Pass
11g	6Mbps	06	2437	-40.71	-19.67	Pass
11g	6Mbps	11	2462	-40.84	-20.79	Pass
11n-HT20	MCS0	01	2412	-30.01	-20.72	Pass
11n-HT20	MCS0	06	2437	-41.56	-19.70	Pass
11n-HT20	MCS0	11	2462	-41.21	-20.76	Pass
11n-HT40	MCS0	03	2422	-33.18	-24.27	Pass
11n-HT40	MCS0	06	2437	-41.53	-21.75	Pass
11n-HT40	MCS0	09	2452	-38.58	-24.53	Pass
<b>Ant 2</b>						
11b	1Mbps	01	2412	-37.73	-17.03	Pass
11b	1Mbps	06	2437	-41.56	-17.20	Pass
11b	1Mbps	11	2462	-41.40	-17.08	Pass
11g	6Mbps	01	2412	-28.58	-19.50	Pass
11g	6Mbps	06	2437	-41.50	-20.02	Pass
11g	6Mbps	11	2462	-36.32	-19.91	Pass
11n-HT20	MCS0	01	2412	-28.32	-19.64	Pass
11n-HT20	MCS0	06	2437	-42.50	-20.06	Pass
11n-HT20	MCS0	11	2462	-37.75	-20.24	Pass
11n-HT40	MCS0	03	2422	-30.12	-22.70	Pass
11n-HT40	MCS0	06	2437	-42.10	-22.04	Pass
11n-HT40	MCS0	09	2452	-33.82	-22.75	Pass

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Measurement Level (dBm)	Limit (dBc to dBm)	Result
Ant 1 / Ant 1 + 2						
11b	1Mbps	01	2412	-36.67	-17.00	Pass
11b	1Mbps	06	2437	-42.60	-17.26	Pass
11b	1Mbps	11	2462	-41.54	-16.97	Pass
11g	6Mbps	01	2412	-28.52	-19.97	Pass
11g	6Mbps	06	2437	-43.54	-19.91	Pass
11g	6Mbps	11	2462	-40.87	-20.68	Pass
11n-HT20	MCS0	01	2412	-32.70	-22.01	Pass
11n-HT20	MCS0	06	2437	-42.19	-19.78	Pass
11n-HT20	MCS0	11	2462	-42.76	-21.71	Pass
11n-HT40	MCS0	03	2422	-31.32	-23.70	Pass
11n-HT40	MCS0	06	2437	-43.06	-22.05	Pass
11n-HT40	MCS0	09	2452	-36.59	-24.37	Pass



