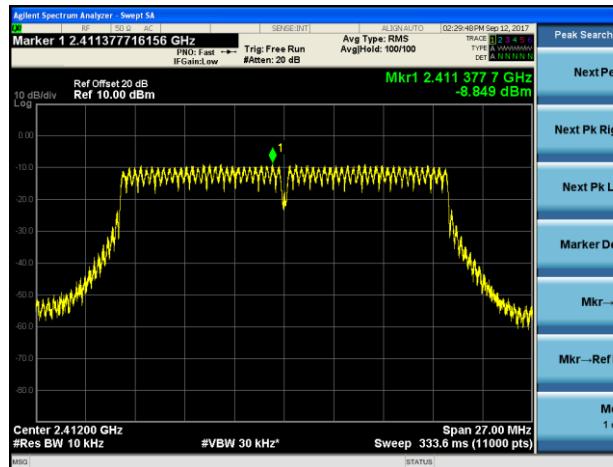
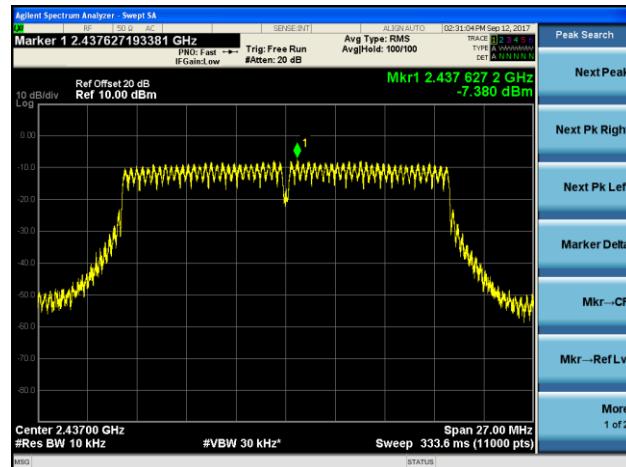
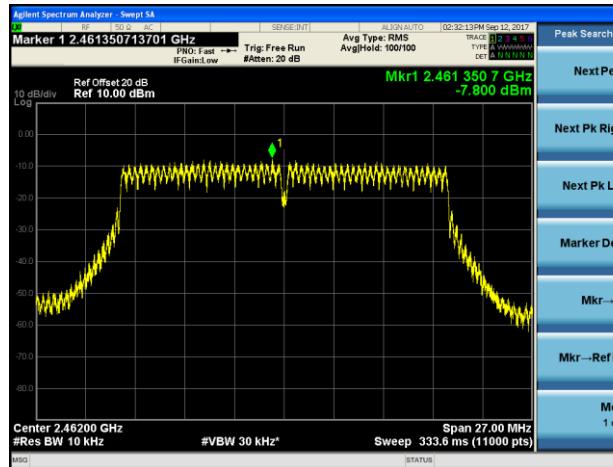
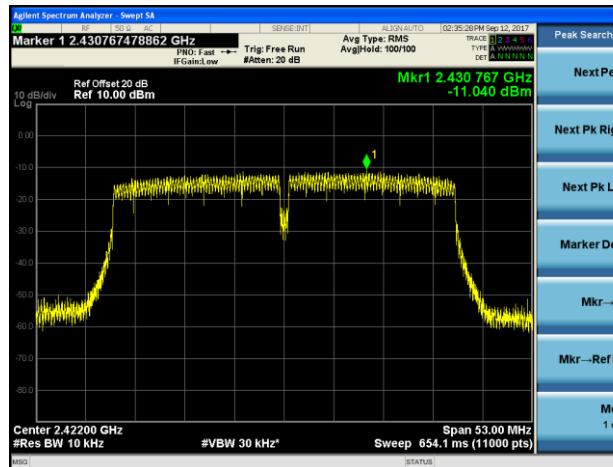
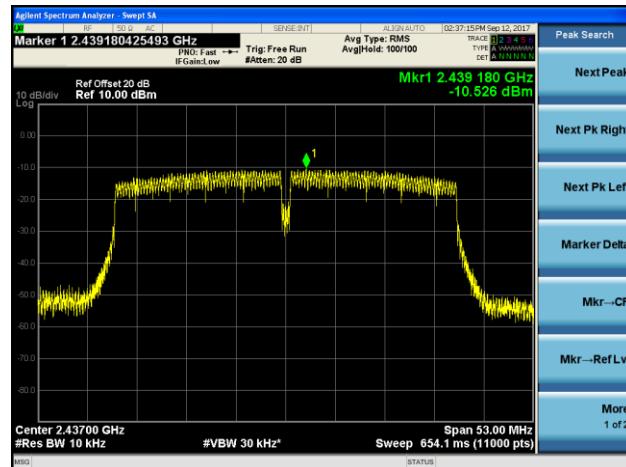
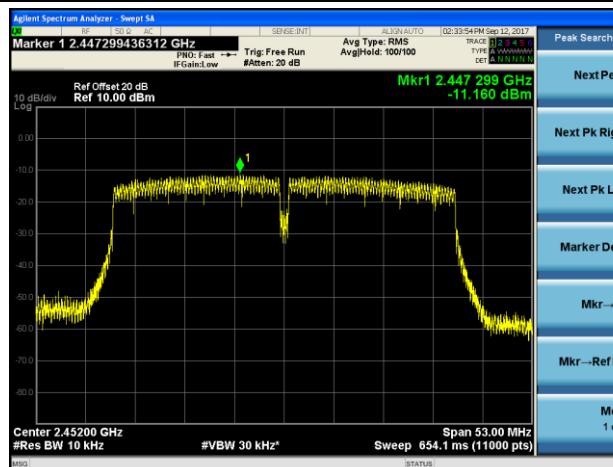
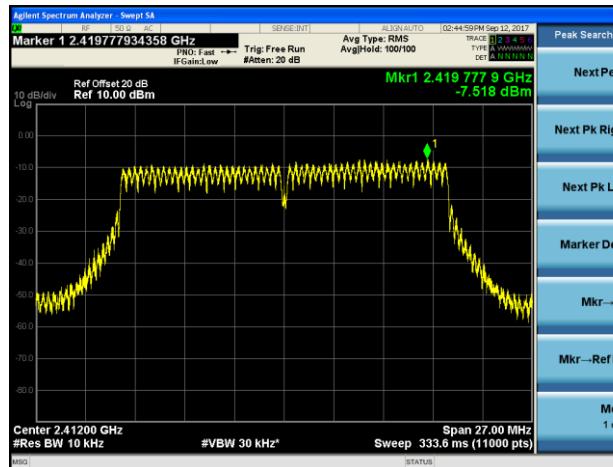
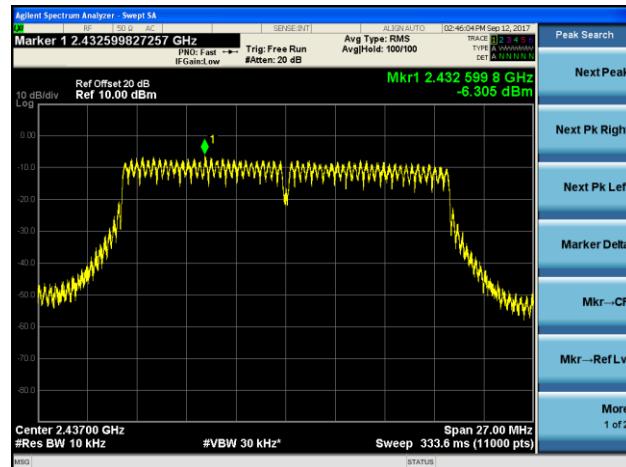
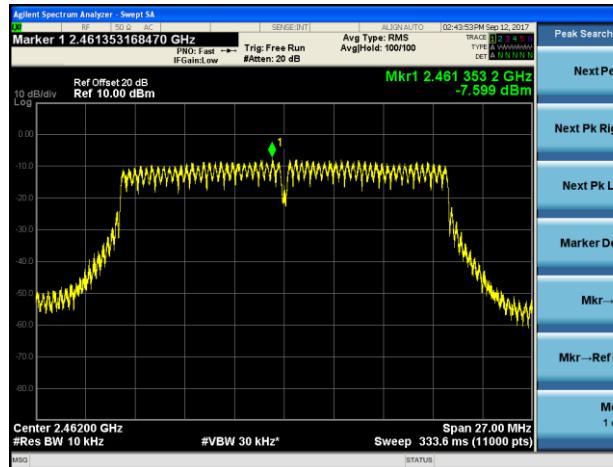
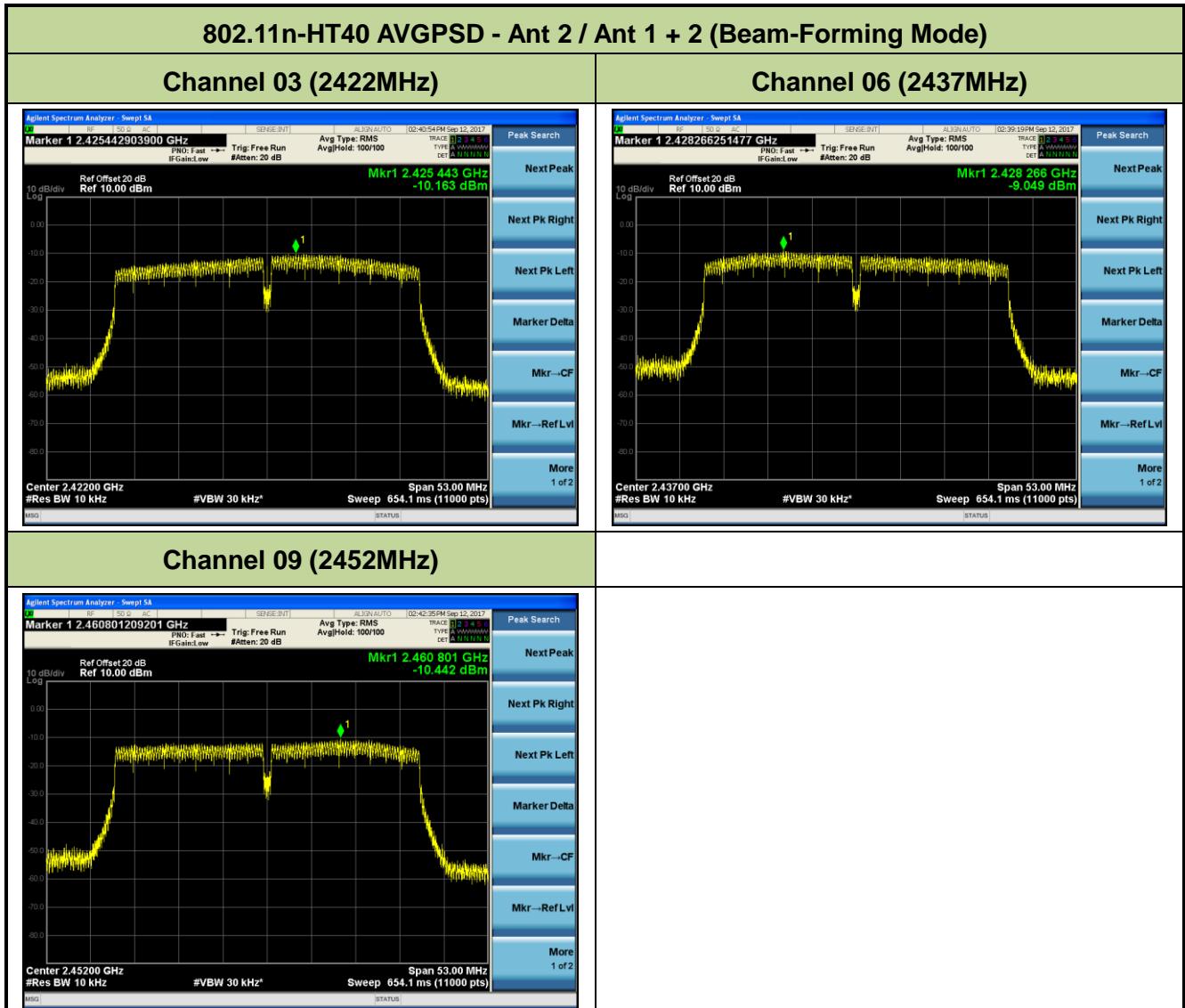


802.11n-HT20 AVGPSD - Ant 1 / Ant 1 + 2 (Beam-Forming Mode)
Channel 01 (2412MHz)

Channel 06 (2437MHz)

Channel 11 (2462MHz)


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

Channel 06 (2437MHz)

Channel 09 (2452MHz)


802.11n-HT20 AVGPSD - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)
Channel 01 (2412MHz)

Channel 06 (2437MHz)

Channel 11 (2462MHz)




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

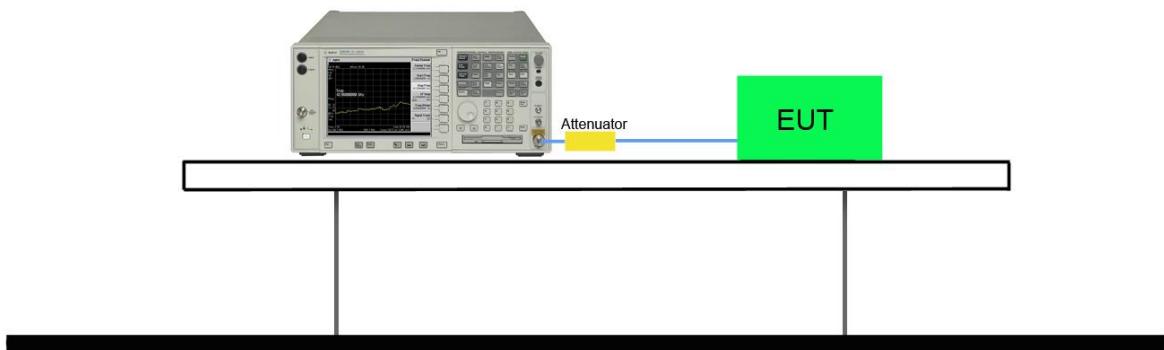
7.5.3. Test Setting

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 | AC220 Wi-Fi AP OD external antenna US | Temperature | 27°C |
| Test Engineer | Kevin Ker | Relative Humidity | 65% |
| Test Site | SR2 | Test Date | 2017/07/23 |
| Test Item | Conducted Band Edge and Out-of-Band Emissions | | |

| Test Mode | Data Rate / MCS | Channel No. | Frequency (MHz) | Limit (dBc) | Limit (dBc to dBm) | Result |
|--------------|-----------------|-------------|-----------------|-------------|--------------------|--------|
| Ant 1 | | | | | | |
| 802.11b | 1Mbps | 01 | 2412 | 30 | -17.33 | Pass |
| 802.11b | 1Mbps | 06 | 2437 | 30 | -17.32 | Pass |
| 802.11b | 1Mbps | 11 | 2462 | 30 | -17.20 | Pass |
| 802.11g | 6Mbps | 01 | 2412 | 30 | -21.27 | Pass |
| 802.11g | 6Mbps | 06 | 2437 | 30 | -20.24 | Pass |
| 802.11g | 6Mbps | 11 | 2462 | 30 | -21.50 | Pass |
| 802.11n-HT20 | MCS0 | 01 | 2412 | 30 | -21.89 | Pass |
| 802.11n-HT20 | MCS0 | 06 | 2437 | 30 | -20.32 | Pass |
| 802.11n-HT20 | MCS0 | 11 | 2462 | 30 | -21.57 | Pass |
| 802.11n-HT40 | MCS0 | 03 | 2422 | 30 | -25.49 | Pass |
| 802.11n-HT40 | MCS0 | 06 | 2437 | 30 | -22.46 | Pass |
| 802.11n-HT40 | MCS0 | 09 | 2452 | 30 | -23.88 | Pass |
| Ant 2 | | | | | | |
| 802.11b | 1Mbps | 01 | 2412 | 30 | -16.64 | Pass |
| 802.11b | 1Mbps | 06 | 2437 | 30 | -16.66 | Pass |
| 802.11b | 1Mbps | 11 | 2462 | 30 | -16.58 | Pass |
| 802.11g | 6Mbps | 01 | 2412 | 30 | -20.03 | Pass |
| 802.11g | 6Mbps | 06 | 2437 | 30 | -19.26 | Pass |
| 802.11g | 6Mbps | 11 | 2462 | 30 | -20.27 | Pass |
| 802.11n-HT20 | MCS0 | 01 | 2412 | 30 | -21.05 | Pass |
| 802.11n-HT20 | MCS0 | 06 | 2437 | 30 | -19.28 | Pass |
| 802.11n-HT20 | MCS0 | 11 | 2462 | 30 | -20.77 | Pass |
| 802.11n-HT40 | MCS0 | 03 | 2422 | 30 | -24.88 | Pass |
| 802.11n-HT40 | MCS0 | 06 | 2437 | 30 | -21.04 | Pass |
| 802.11n-HT40 | MCS0 | 09 | 2452 | 30 | -24.20 | Pass |

| Test Mode | Data Rate / MCS | Channel No. | Frequency (MHz) | Limit (dBc) | Limit (dBc to dBm) | Result |
|-------------------|-----------------|-------------|-----------------|-------------|--------------------|--------|
| Ant 1 / Ant 1 + 2 | | | | | | |
| 802.11b | 1Mbps | 01 | 2412 | 30 | -16.65 | Pass |
| 802.11b | 1Mbps | 06 | 2437 | 30 | -16.73 | Pass |
| 802.11b | 1Mbps | 11 | 2462 | 30 | -16.44 | Pass |
| 802.11g | 6Mbps | 01 | 2412 | 30 | -21.04 | Pass |
| 802.11g | 6Mbps | 06 | 2437 | 30 | -19.21 | Pass |
| 802.11g | 6Mbps | 11 | 2462 | 30 | -21.74 | Pass |
| 802.11n-HT20 | MCS0 | 01 | 2412 | 30 | -20.35 | Pass |
| 802.11n-HT20 | MCS0 | 06 | 2437 | 30 | -19.15 | Pass |
| 802.11n-HT20 | MCS0 | 11 | 2462 | 30 | -22.70 | Pass |
| 802.11n-HT40 | MCS0 | 03 | 2422 | 30 | -27.04 | Pass |
| 802.11n-HT40 | MCS0 | 06 | 2437 | 30 | -21.05 | Pass |
| 802.11n-HT40 | MCS0 | 09 | 2452 | 30 | -23.85 | Pass |

