

DUTY CYCLE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST DESCRIPTION

The transmission pulse duration (T) and Duty Cycle (x) were measured for each of the EUT operating modes per the FCC KDB 789033 D01 General UNII Test Procedures.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, a duty cycle correction factor in dB can be calculated to add to power measurements if required in the method guidance.

$$10 * \text{LOG} (1/x) = \text{dB}$$

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|--------------------------|--------------------|-----------|-----|-----------|-----------|
| Spectrum Analyzer | Agilent | N9010A | AFL | 9/20/2014 | 9/20/2015 |
| DC Block, 40 GHz | Fairview Microwave | SD3379 | AMM | 2/27/2015 | 2/27/2016 |
| Attenuator, 20dB, 40 GHz | Fairview Microwave | SA4018-20 | TQY | 2/27/2015 | 2/27/2016 |
| Signal Generator, 40 GHz | Agilent | N5173B | TIW | 7/15/2014 | 7/15/2017 |

DUTY CYCLE



| | | | |
|-------------------|-------------------------------|--------------------|-----------|
| EUT: | Firebox T50-W (BS5AE7W) | Work Order: | VDEI0009 |
| Serial Number: | 70AF00069-3EB6 | Date: | 08/03/15 |
| Customer: | WatchGuard Technologies, Inc. | Temperature: | 25.5°C |
| Attendees: | None | Relative Humidity: | 44% |
| Customer Project: | None | Bar. Pressure: | 1014 mbar |
| Tested By: | Jonathan Kiefer | Job Site: | TX09 |
| Power: | 110VAC/60Hz | Configuration: | 1 |

TEST SPECIFICATIONS

| | |
|-----------------|------------------|
| Specification: | Method: |
| FCC 15.407:2015 | ANSI C63.10:2013 |

COMMENTS

Chain B corresponds to Chain 1.

DEVIATIONS FROM TEST STANDARD

None

RESULTS

| | | | | Number of Value Limit | | | |
|-------------------|-----------------------|-------------|------------|-----------------------|------|-----|---------|
| | | Pulse Width | Period | Pulses | (%) | (%) | Results |
| Chain B | | | | | | | |
| 802.11(a) 6 Mbps | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 2.02 ms | 2.105 ms | 1 | 95.9 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 2.02 ms | 2.264 ms | 1 | 89.2 | N/A | N/A |
| | High Channel 5240 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5745 MHz | 2.02 ms | 2.149 ms | 1 | 94 | N/A | N/A |
| | Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 5785 MHz | 2.02 ms | 2.106 ms | 1 | 95.9 | N/A | N/A |
| | Mid Channel 5785 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | High Channel 5825 MHz | 2.02 ms | 2.101 ms | 1 | 96.1 | N/A | N/A |
| | High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 802.11(a) 36 Mbps | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 347.235 us | 434.2 us | 1 | 80 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 347.723 us | 421.7 us | 1 | 82.5 | N/A | N/A |
| | High Channel 5240 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | Low Channel 5745 MHz | 347.967 us | 421.9 us | 1 | 82.5 | N/A | N/A |
| | Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 5785 MHz | 348.212 us | 428.3 us | 1 | 81.3 | N/A | N/A |
| | Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5825 MHz | 347.235 us | 425.6 us | 1 | 81.6 | N/A | N/A |
| | High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 802.11(a) 54 Mbps | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 235.667 us | 320.087 us | 1 | 73.6 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 235.623 us | 309.9 us | 1 | 76 | N/A | N/A |

DUTY CYCLE

| | | | | Number of Value | | Limit | |
|---------------------------|-----------------------|------------|------------|-----------------|------|---------|-----|
| | Pulse Width | Period | Pulses | (%) | (%) | Results | |
| | High Channel 5240 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5745 MHz | 234.447 us | 309.6 us | 1 | 75.7 | N/A | N/A |
| | Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 5785 MHz | 235.423 us | 312.8 us | 1 | 75.3 | N/A | N/A |
| | Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5825 MHz | 236.112 us | 309.9 us | 1 | 76.2 | N/A | N/A |
| | High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 802.11(n) HT, MCS0 | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 1.881 ms | 1.981 ms | 1 | 94.9 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 1.88 ms | 2.05 ms | 1 | 91.7 | N/A | N/A |
| | High Channel 5240 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | Low Channel 5745 MHz | 1.879 ms | 2.014 ms | 1 | 93.3 | N/A | N/A |
| | Low Channel 5745 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | Mid Channel 5785 MHz | 1.881 ms | 1.961 ms | 1 | 95.9 | N/A | N/A |
| | Mid Channel 5785 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | High Channel 5825 MHz | 1.88 ms | 1.981 ms | 1 | 94.9 | N/A | N/A |
| | High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 40 MHz | | | | | | | |
| | Low Channel 5190 MHz | 893.669 us | 999.9 us | 1 | 89.4 | N/A | N/A |
| | Low Channel 5190 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | High Channel 5230 MHz | 894.1 us | 996.3 us | 1 | 89.7 | N/A | N/A |
| | High Channel 5230 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5755 MHz | 912.7 us | 1.033 ms | 1 | 88.4 | N/A | N/A |
| | Low Channel 5755 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | High Channel 5795 MHz | 894.03 us | 1.001 ms | 1 | 89.3 | N/A | N/A |
| | High Channel 5795 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 80 MHz | | | | | | | |
| | Low Channel 5210 MHz | 219.977 us | 320.083 us | 1 | 68.7 | N/A | N/A |
| | Low Channel 5210 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | Low Channel 5775 MHz | 218.335 us | 417.6 us | 1 | 52.3 | N/A | N/A |
| | Low Channel 5775 MHz | N/A | N/A | 7 | N/A | N/A | N/A |
| 802.11(n) HT, MCS7 | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 213.182 us | 292.545 us | 1 | 72.9 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 215.323 us | 289.6 us | 1 | 74.4 | N/A | N/A |
| | High Channel 5240 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5745 MHz | 215.523 us | 297.6 us | 1 | 72.4 | N/A | N/A |
| | Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 5785 MHz | 216.112 us | 292.2 us | 1 | 74 | N/A | N/A |
| | Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5825 MHz | 215.379 us | 289.6 us | 1 | 74.4 | N/A | N/A |

DUTY CYCLE

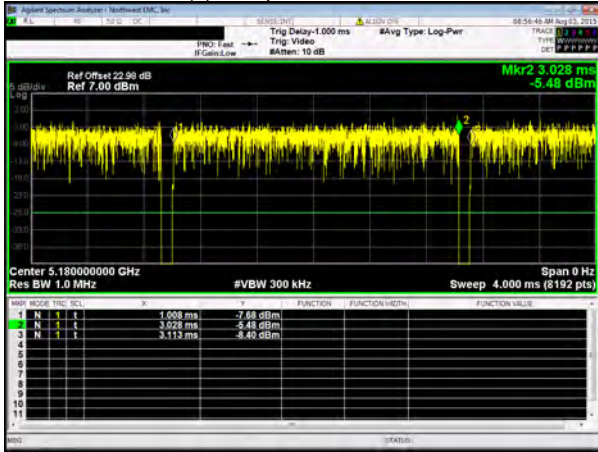
| | | | | Number of Value | | Limit | |
|---------------------------------------|-----------------------|------------|------------|-----------------|------|---------|-----|
| | Pulse Width | Period | Pulses | (%) | (%) | Results | |
| | High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 40 MHz | | | | | | | |
| | Low Channel 5190 MHz | 94.467 us | 204.3 us | 1 | 46.2 | N/A | N/A |
| | Low Channel 5190 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5230 MHz | 94.223 us | 196.6 us | 1 | 47.9 | N/A | N/A |
| | High Channel 5230 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | Low Channel 5755 MHz | 95.212 us | 197.8 us | 1 | 48.1 | N/A | N/A |
| | Low Channel 5755 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5795 MHz | 120.106 us | 221.206 us | 1 | 54.3 | N/A | N/A |
| | High Channel 5795 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| 802.11(ac) VHT, MCS8 (256-QAM) | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 187.523 us | 264.7 us | 1 | 70.8 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 187.523 us | 261.7 us | 1 | 71.7 | N/A | N/A |
| | High Channel 5240 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5745 MHz | 187.967 us | 261.7 us | 1 | 71.8 | N/A | N/A |
| | Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 5785 MHz | 187.723 us | 264.9 us | 1 | 70.9 | N/A | N/A |
| | Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5825 MHz | 187.579 us | 262 us | 1 | 71.6 | N/A | N/A |
| | High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 802.11(ac) VHT, MCS9 (256-QAM) | | | | | | | |
| 40 MHz | | | | | | | |
| | Low Channel 5190 MHz | 74.923 us | 176.5 us | 1 | 42.4 | N/A | N/A |
| | Low Channel 5190 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | High Channel 5230 MHz | 100.594 us | 175.967 us | 1 | 57.2 | N/A | N/A |
| | High Channel 5230 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5755 MHz | 74.412 us | 173.8 us | 1 | 42.8 | N/A | N/A |
| | Low Channel 5755 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | High Channel 5795 MHz | 79.823 us | 176.8 us | 1 | 45.1 | N/A | N/A |
| | High Channel 5795 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 80 MHz | | | | | | | |
| | Low Channel 5210 MHz | 228.057 us | 319.355 us | 1 | 71.4 | N/A | N/A |
| | Low Channel 5210 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5775 MHz | 72.307 us | 137.011 us | 1 | 52.8 | N/A | N/A |
| | Low Channel 5775 MHz | N/A | N/A | 6 | N/A | N/A | N/A |

Jonathan Kiefer

Tested By

DUTY CYCLE

Chain B, 802.11(a) 6 Mbps, 20 MHz, Low Channel 5180 MHz



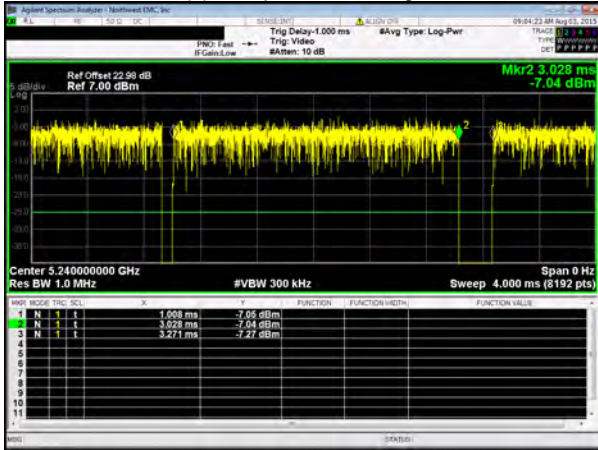
| | |
|------------------|----------|
| Pulse Width | 2.02 ms |
| Period | 2.105 ms |
| Number of Pulses | 1 |
| Value (%) | 95.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 6 Mbps, 20 MHz, Low Channel 5180 MHz



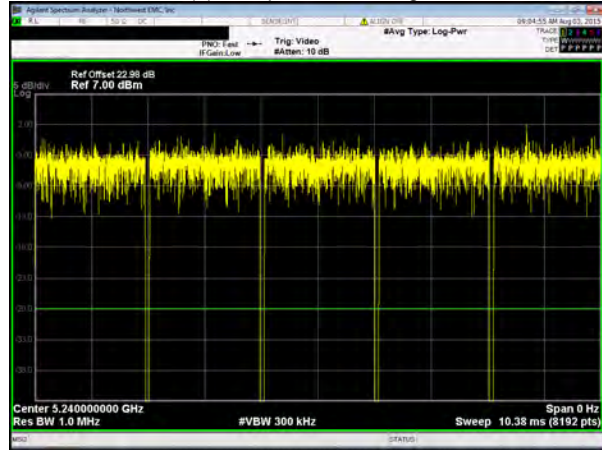
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 6 Mbps, 20 MHz, High Channel 5240 MHz



| | |
|------------------|----------|
| Pulse Width | 2.02 ms |
| Period | 2.264 ms |
| Number of Pulses | 1 |
| Value (%) | 89.2 |
| Limit (%) | N/A |
| Results | N/A |

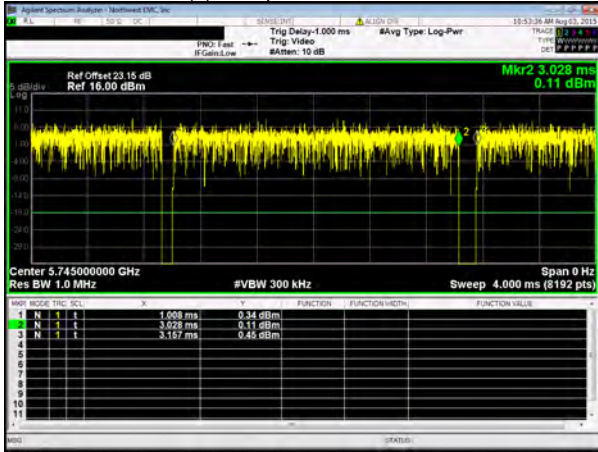
Chain B, 802.11(a) 6 Mbps, 20 MHz, High Channel 5240 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

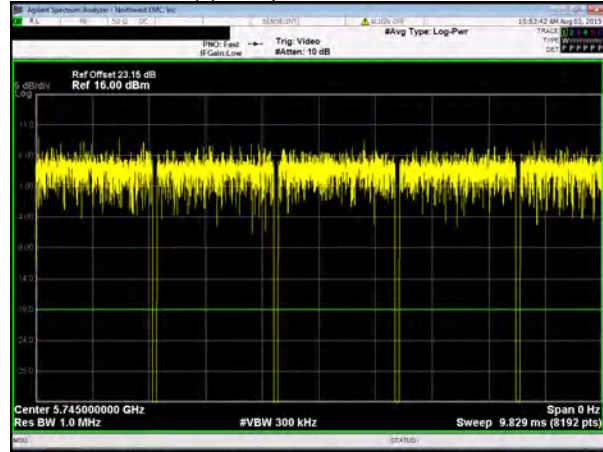
DUTY CYCLE

Chain B, 802.11(a) 6 Mbps, 20 MHz, Low Channel 5745 MHz



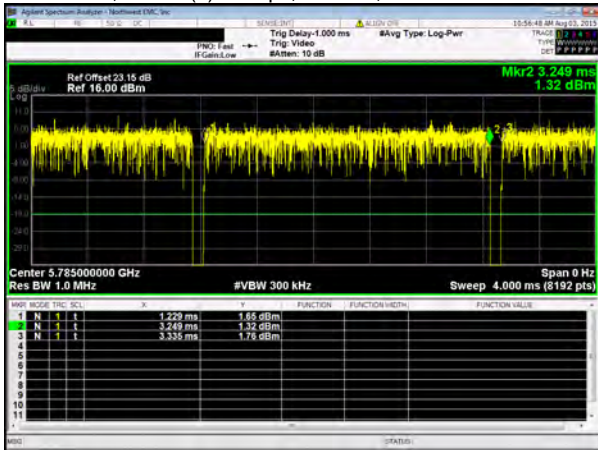
| | |
|------------------|----------|
| Pulse Width | 2.02 ms |
| Period | 2.149 ms |
| Number of Pulses | 1 |
| Value (%) | 94 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 6 Mbps, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 6 Mbps, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|----------|
| Pulse Width | 2.02 ms |
| Period | 2.106 ms |
| Number of Pulses | 1 |
| Value (%) | 95.9 |
| Limit (%) | N/A |
| Results | N/A |

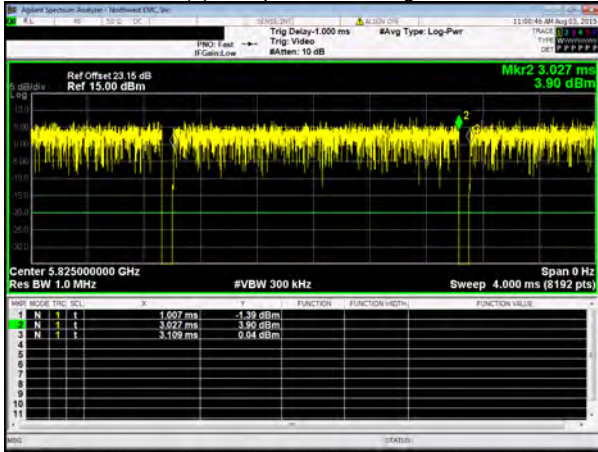
Chain B, 802.11(a) 6 Mbps, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

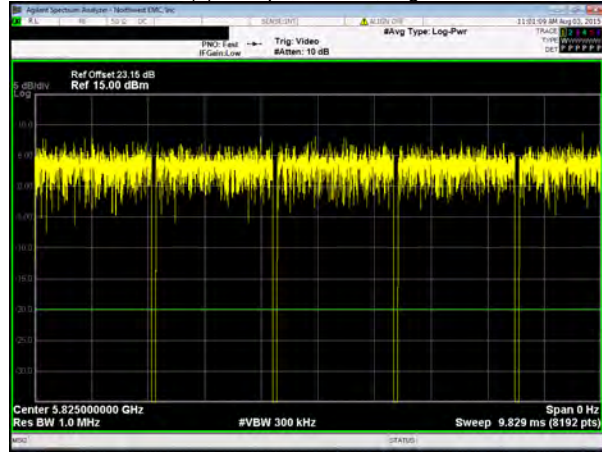
DUTY CYCLE

Chain B, 802.11(a) 6 Mbps, 20 MHz, High Channel 5825 MHz



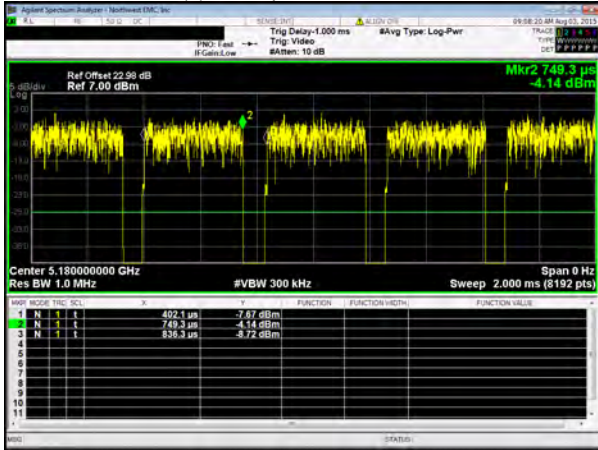
| | |
|------------------|----------|
| Pulse Width | 2.02 ms |
| Period | 2.101 ms |
| Number of Pulses | 1 |
| Value (%) | 96.1 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 6 Mbps, 20 MHz, High Channel 5825 MHz



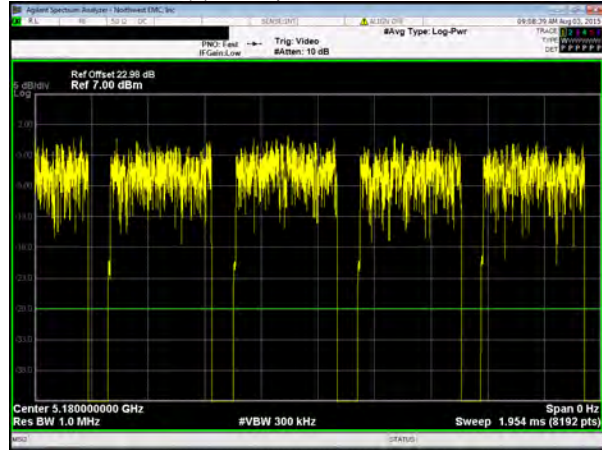
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 36 Mbps, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|------------|
| Pulse Width | 347.235 us |
| Period | 434.2 us |
| Number of Pulses | 1 |
| Value (%) | 80 |
| Limit (%) | N/A |
| Results | N/A |

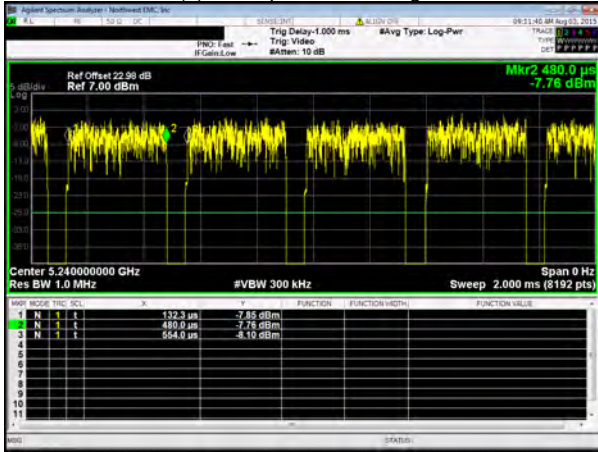
Chain B, 802.11(a) 36 Mbps, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

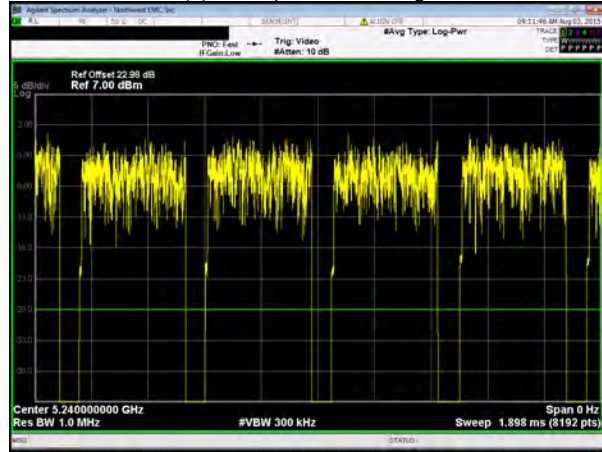
DUTY CYCLE

Chain B, 802.11(a) 36 Mbps, 20 MHz, High Channel 5240 MHz



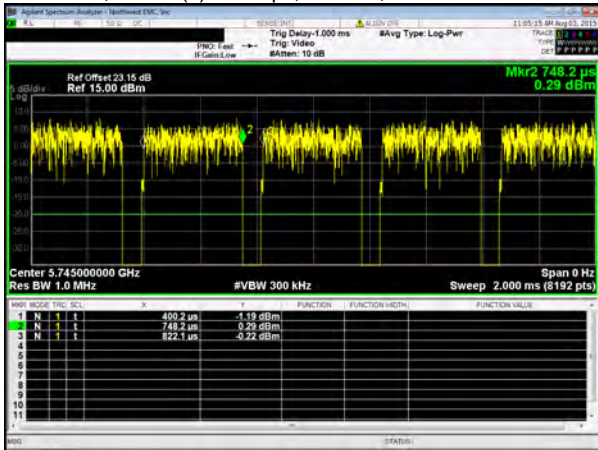
| | |
|------------------|------------|
| Pulse Width | 347.723 us |
| Period | 421.7 us |
| Number of Pulses | 1 |
| Value (%) | 82.5 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 36 Mbps, 20 MHz, High Channel 5240 MHz



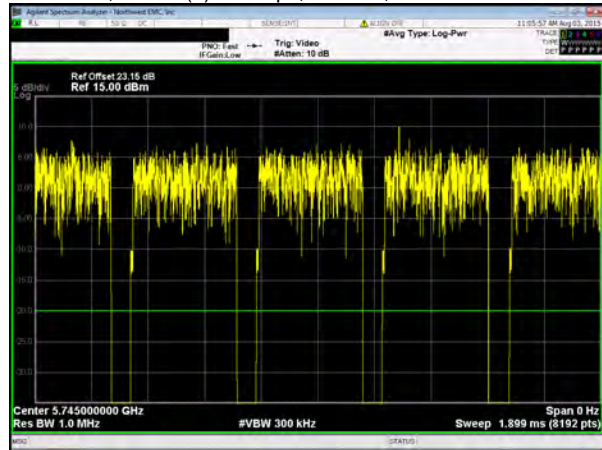
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 36 Mbps, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|------------|
| Pulse Width | 347.967 us |
| Period | 421.9 us |
| Number of Pulses | 1 |
| Value (%) | 82.5 |
| Limit (%) | N/A |
| Results | N/A |

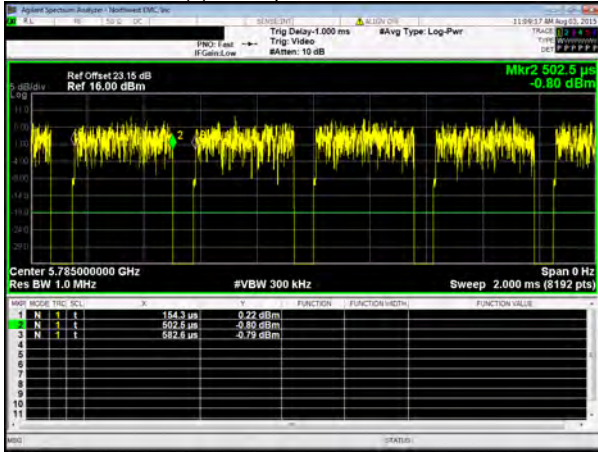
Chain B, 802.11(a) 36 Mbps, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

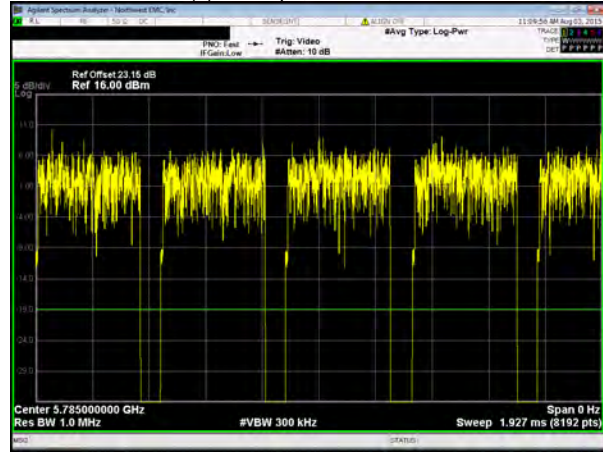
DUTY CYCLE

Chain B, 802.11(a) 36 Mbps, 20 MHz, Mid Channel 5785 MHz



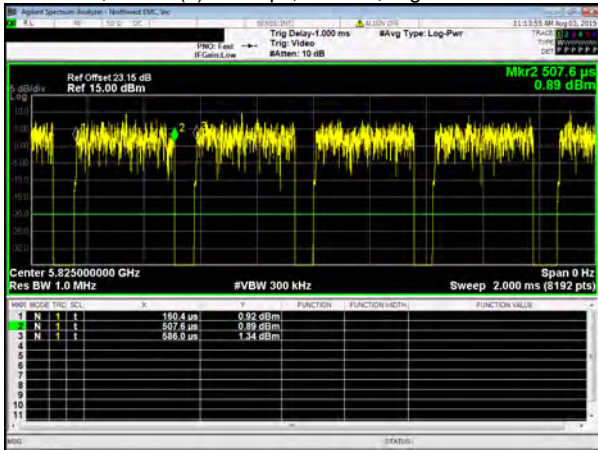
| | |
|------------------|------------|
| Pulse Width | 348.212 us |
| Period | 428.3 us |
| Number of Pulses | 1 |
| Value (%) | 81.3 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 36 Mbps, 20 MHz, Mid Channel 5785 MHz



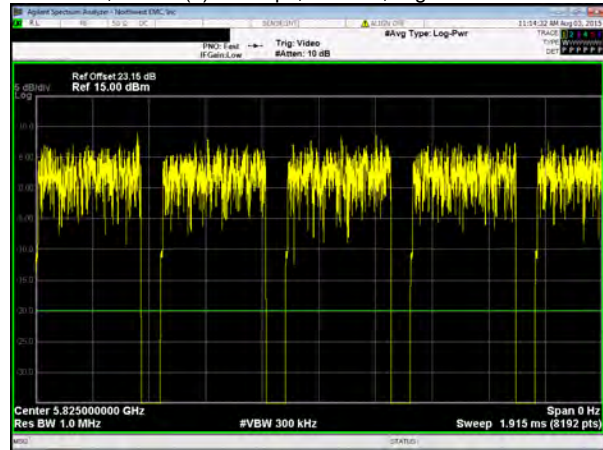
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 36 Mbps, 20 MHz, High Channel 5825 MHz



| | |
|------------------|------------|
| Pulse Width | 347.235 us |
| Period | 425.6 us |
| Number of Pulses | 1 |
| Value (%) | 81.6 |
| Limit (%) | N/A |
| Results | N/A |

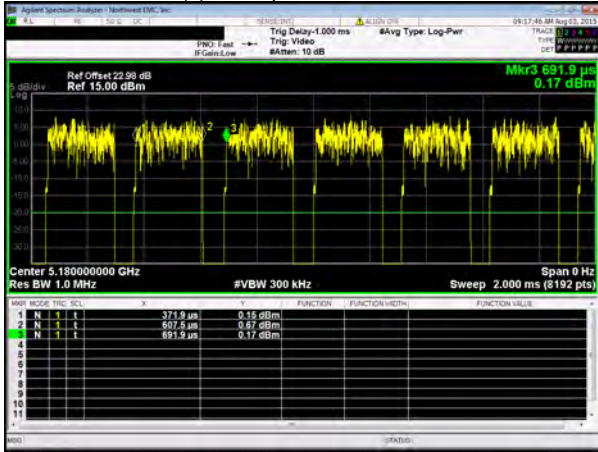
Chain B, 802.11(a) 36 Mbps, 20 MHz, High Channel 5825 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain B, 802.11(a) 54 Mbps, 20 MHz, Low Channel 5180 MHz



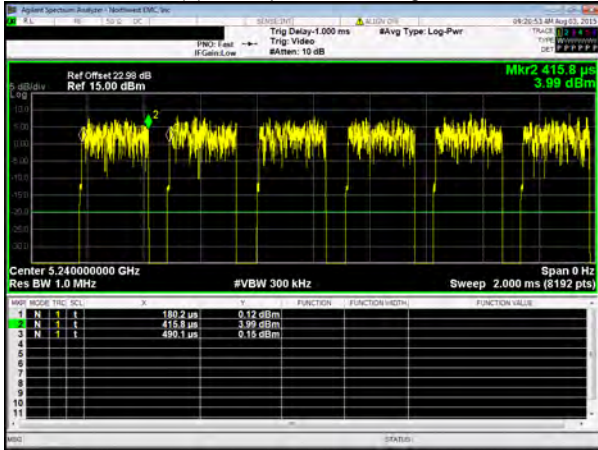
| | |
|------------------|------------|
| Pulse Width | 235.667 us |
| Period | 320.087 us |
| Number of Pulses | 1 |
| Value (%) | 73.6 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 54 Mbps, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 54 Mbps, 20 MHz, High Channel 5240 MHz



| | |
|------------------|------------|
| Pulse Width | 235.623 us |
| Period | 309.9 us |
| Number of Pulses | 1 |
| Value (%) | 76 |
| Limit (%) | N/A |
| Results | N/A |

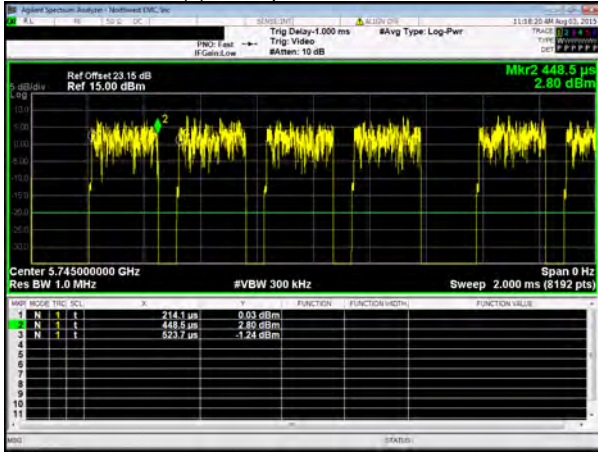
Chain B, 802.11(a) 54 Mbps, 20 MHz, High Channel 5240 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain B, 802.11(a) 54 Mbps, 20 MHz, Low Channel 5745 MHz



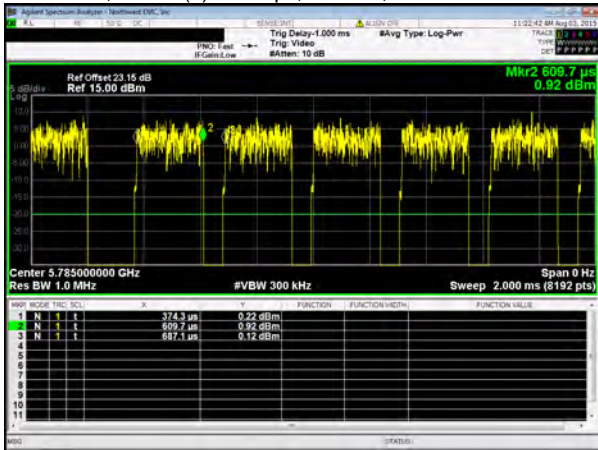
| | |
|------------------|------------|
| Pulse Width | 234.447 us |
| Period | 309.6 us |
| Number of Pulses | 1 |
| Value (%) | 75.7 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 54 Mbps, 20 MHz, Low Channel 5745 MHz



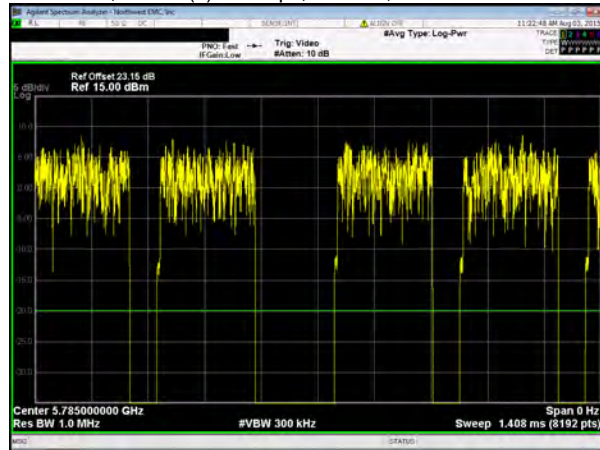
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 54 Mbps, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|------------|
| Pulse Width | 235.423 us |
| Period | 312.8 us |
| Number of Pulses | 1 |
| Value (%) | 75.3 |
| Limit (%) | N/A |
| Results | N/A |

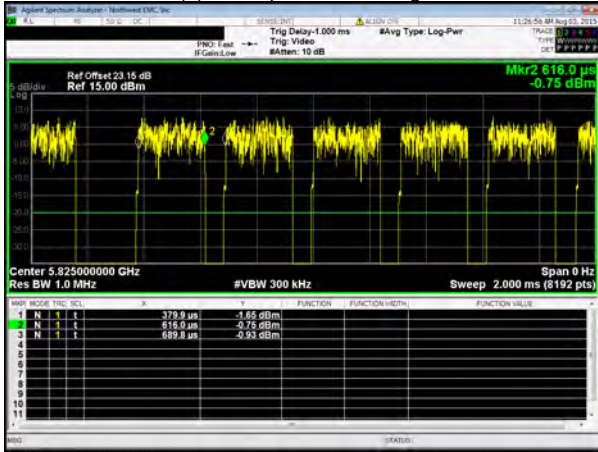
Chain B, 802.11(a) 54 Mbps, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

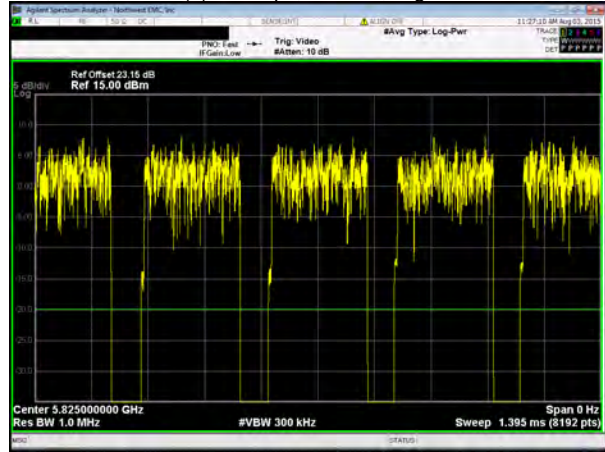
DUTY CYCLE

Chain B, 802.11(a) 54 Mbps, 20 MHz, High Channel 5825 MHz



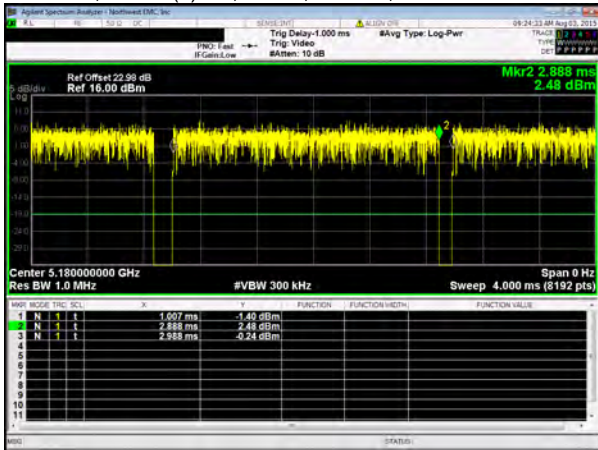
| | |
|------------------|------------|
| Pulse Width | 236.112 us |
| Period | 309.9 us |
| Number of Pulses | 1 |
| Value (%) | 76.2 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(a) 54 Mbps, 20 MHz, High Channel 5825 MHz



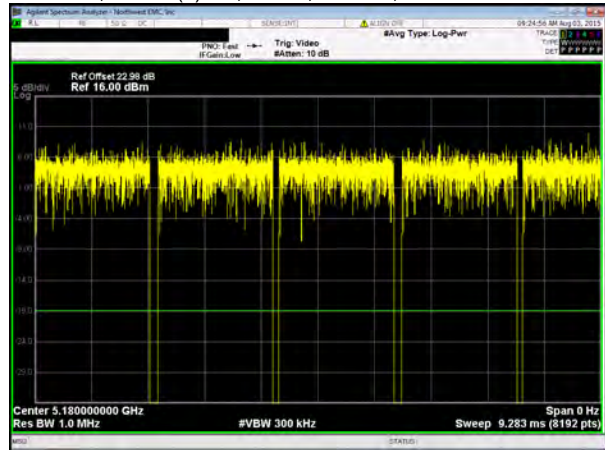
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|----------|
| Pulse Width | 1.881 ms |
| Period | 1.981 ms |
| Number of Pulses | 1 |
| Value (%) | 94.9 |
| Limit (%) | N/A |
| Results | N/A |

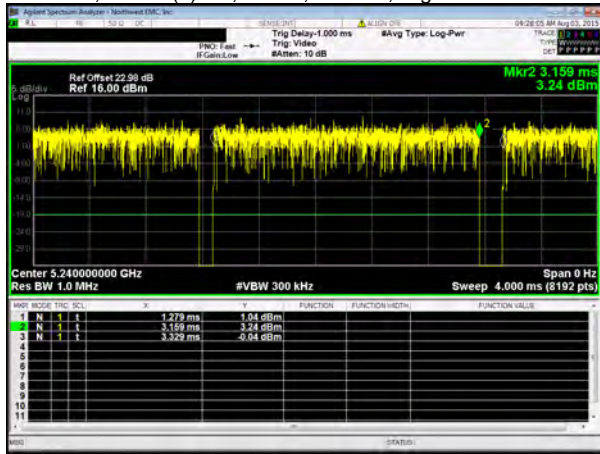
Chain B, 802.11(n) HT, MCS0, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

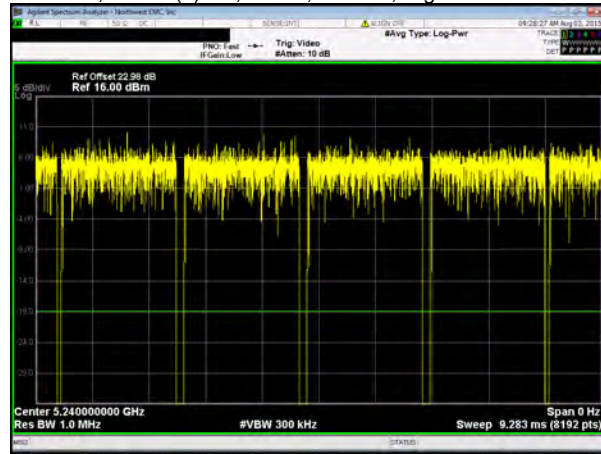
DUTY CYCLE

Chain B, 802.11(n) HT, MCS0, 20 MHz, High Channel 5240 MHz



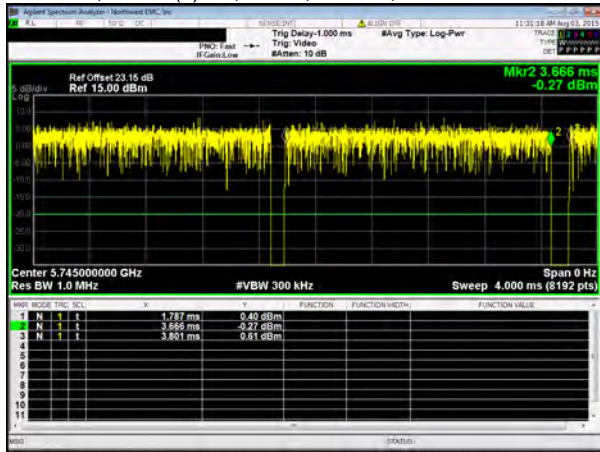
| | |
|------------------|---------|
| Pulse Width | 1.88 ms |
| Period | 2.05 ms |
| Number of Pulses | 1 |
| Value (%) | 91.7 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 20 MHz, High Channel 5240 MHz



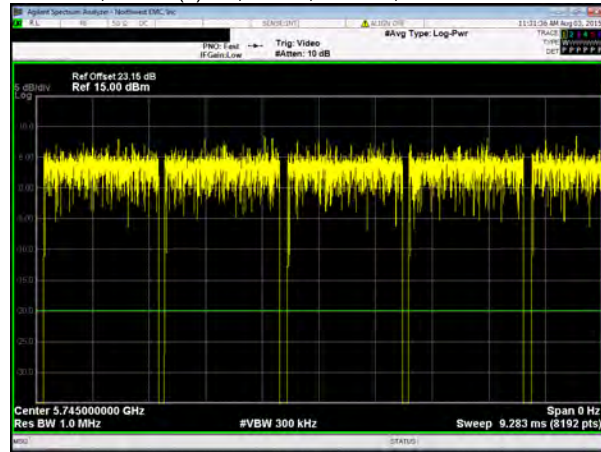
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|----------|
| Pulse Width | 1.879 ms |
| Period | 2.014 ms |
| Number of Pulses | 1 |
| Value (%) | 93.3 |
| Limit (%) | N/A |
| Results | N/A |

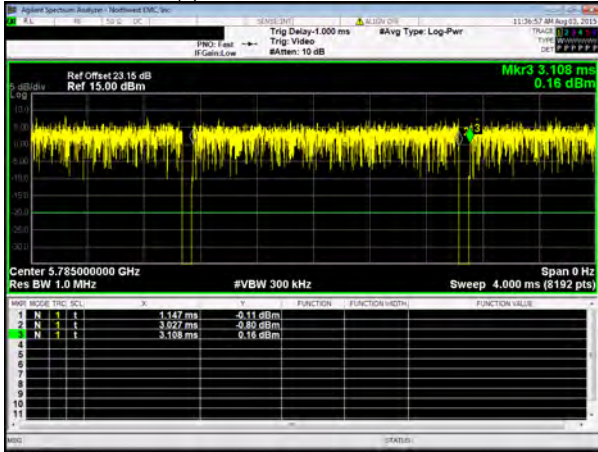
Chain B, 802.11(n) HT, MCS0, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

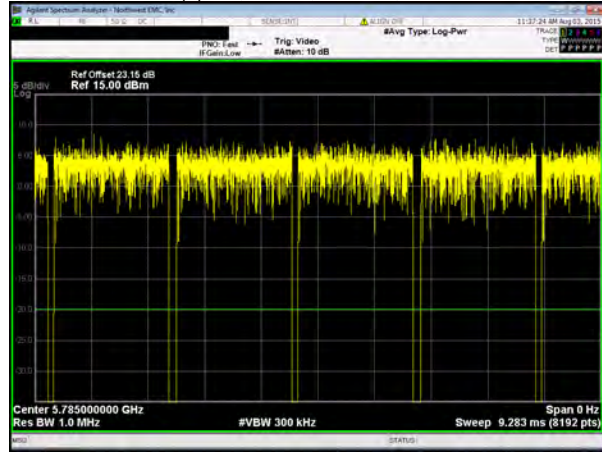
DUTY CYCLE

Chain B, 802.11(n) HT, MCS0, 20 MHz, Mid Channel 5785 MHz



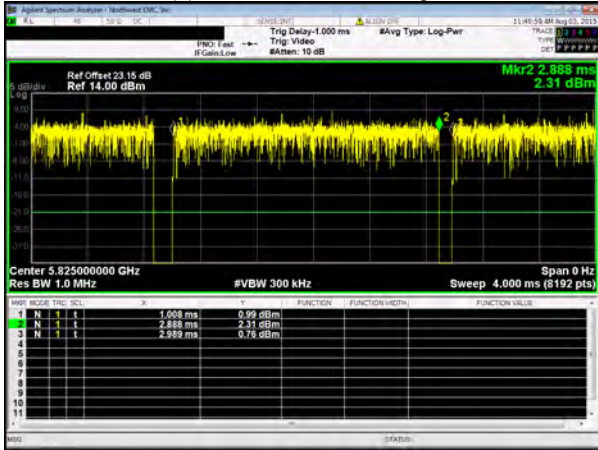
| | |
|------------------|----------|
| Pulse Width | 1.881 ms |
| Period | 1.961 ms |
| Number of Pulses | 1 |
| Value (%) | 95.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 20 MHz, Mid Channel 5785 MHz



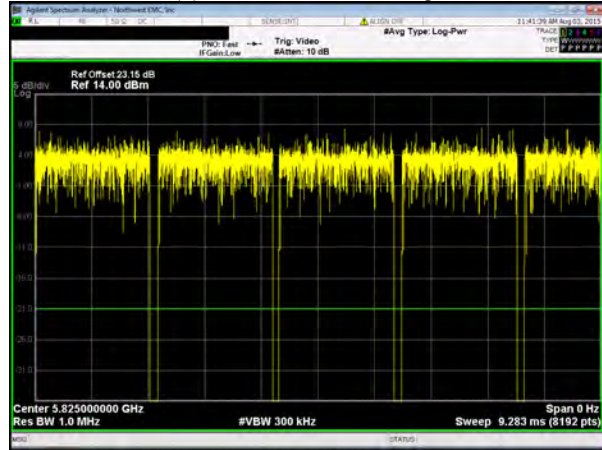
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 20 MHz, High Channel 5825 MHz



| | |
|------------------|----------|
| Pulse Width | 1.88 ms |
| Period | 1.981 ms |
| Number of Pulses | 1 |
| Value (%) | 94.9 |
| Limit (%) | N/A |
| Results | N/A |

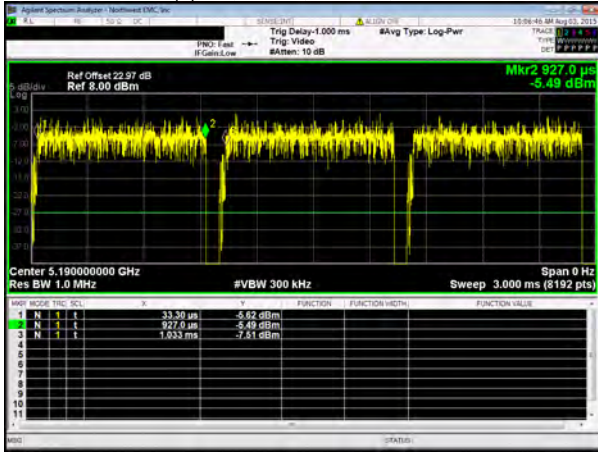
Chain B, 802.11(n) HT, MCS0, 20 MHz, High Channel 5825 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

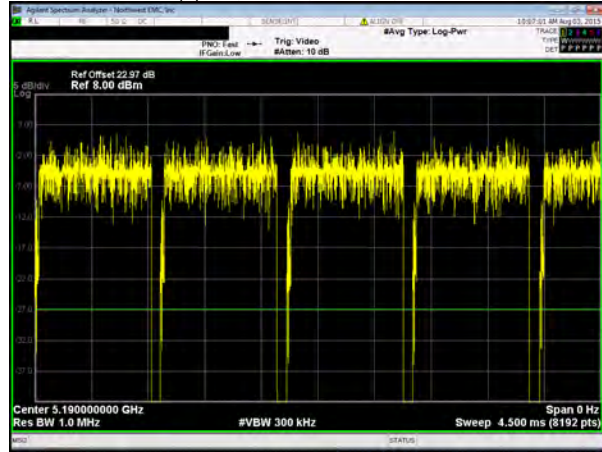
DUTY CYCLE

Chain B, 802.11(n) HT, MCS0, 40 MHz, Low Channel 5190 MHz



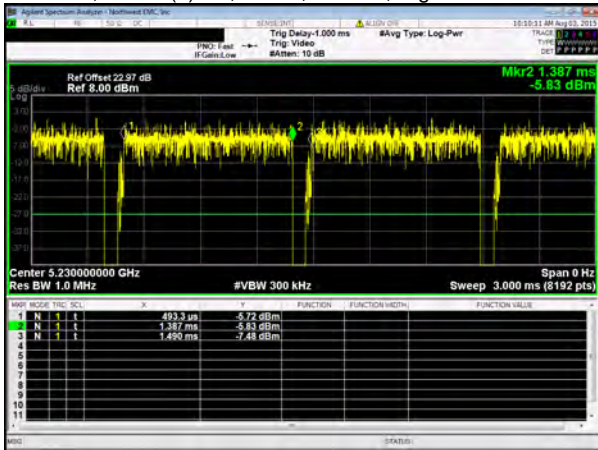
| | |
|------------------|------------|
| Pulse Width | 893.669 us |
| Period | 999.9 us |
| Number of Pulses | 1 |
| Value (%) | 89.4 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 40 MHz, Low Channel 5190 MHz



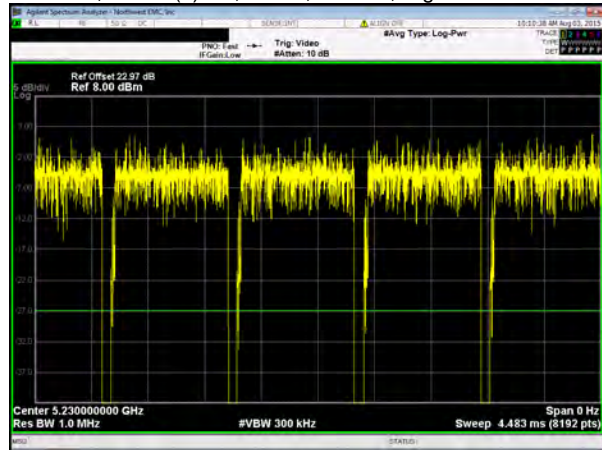
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 40 MHz, High Channel 5230 MHz



| | |
|------------------|----------|
| Pulse Width | 894.1 us |
| Period | 996.3 us |
| Number of Pulses | 1 |
| Value (%) | 89.7 |
| Limit (%) | N/A |
| Results | N/A |

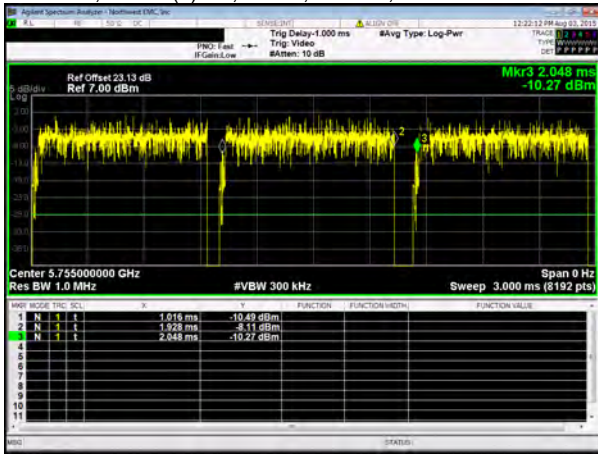
Chain B, 802.11(n) HT, MCS0, 40 MHz, High Channel 5230 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

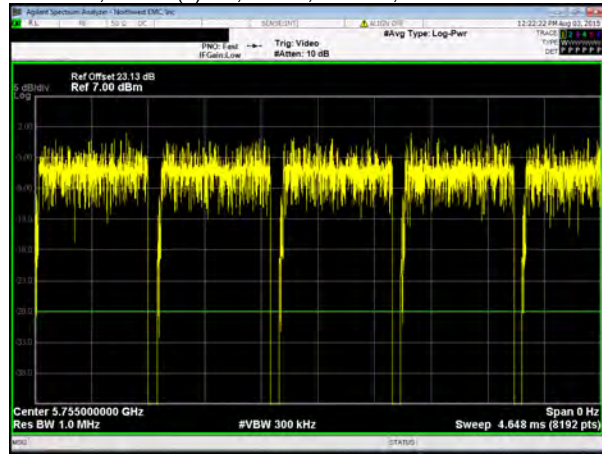
DUTY CYCLE

Chain B, 802.11(n) HT, MCS0, 40 MHz, Low Channel 5755 MHz



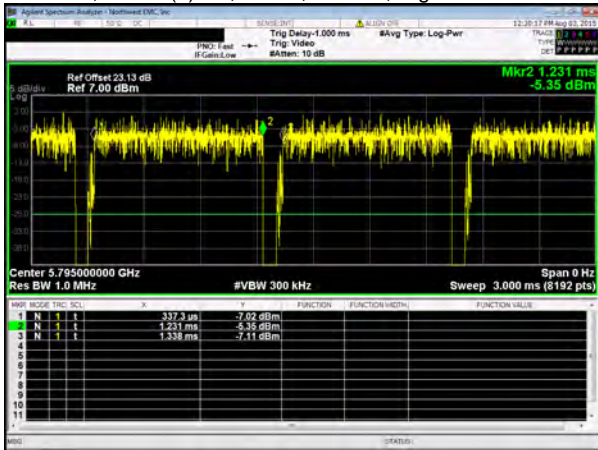
| | |
|------------------|----------|
| Pulse Width | 912.7 us |
| Period | 1.033 ms |
| Number of Pulses | 1 |
| Value (%) | 88.4 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 40 MHz, Low Channel 5755 MHz



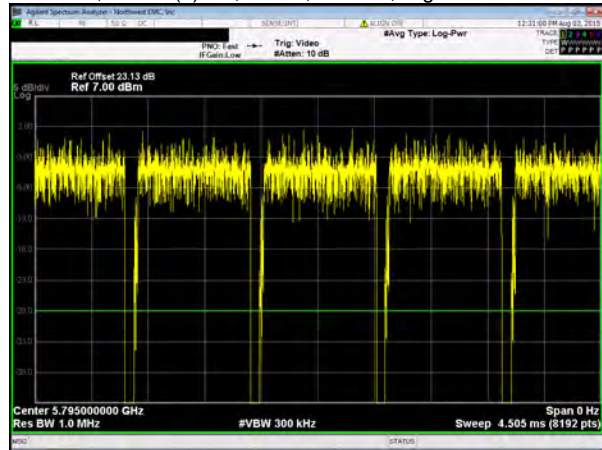
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 40 MHz, High Channel 5795 MHz



| | |
|------------------|-----------|
| Pulse Width | 894.03 us |
| Period | 1.001 ms |
| Number of Pulses | 1 |
| Value (%) | 89.3 |
| Limit (%) | N/A |
| Results | N/A |

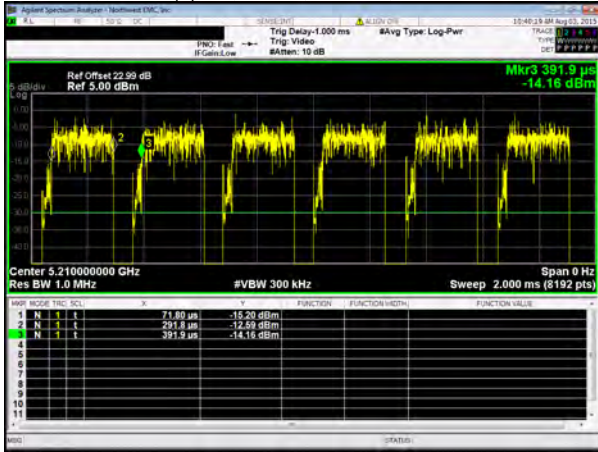
Chain B, 802.11(n) HT, MCS0, 40 MHz, High Channel 5795 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain B, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5210 MHz



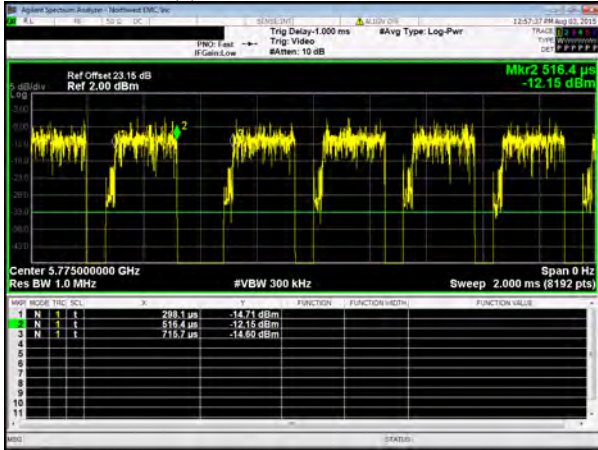
| | |
|------------------|------------|
| Pulse Width | 219.977 us |
| Period | 320.083 us |
| Number of Pulses | 1 |
| Value (%) | 68.7 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5210 MHz



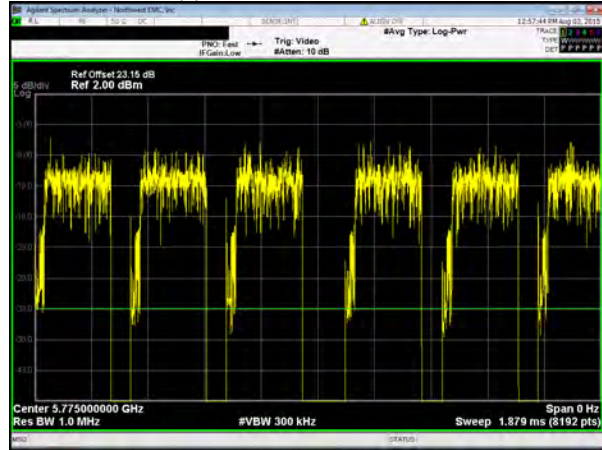
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5775 MHz



| | |
|------------------|------------|
| Pulse Width | 218.335 us |
| Period | 417.6 us |
| Number of Pulses | 1 |
| Value (%) | 52.3 |
| Limit (%) | N/A |
| Results | N/A |

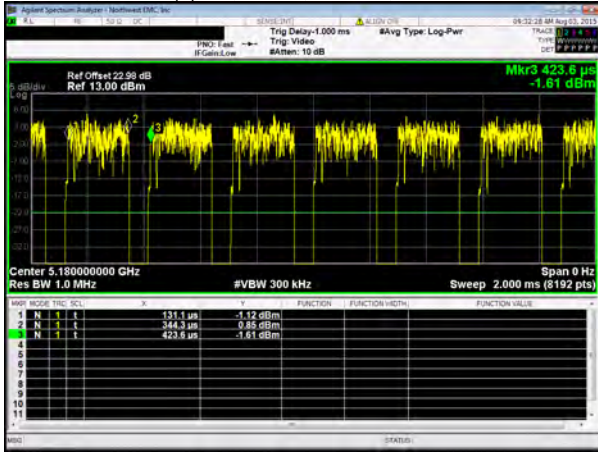
Chain B, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5775 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 7 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain B, 802.11(n) HT, MCS7, 20 MHz, Low Channel 5180 MHz



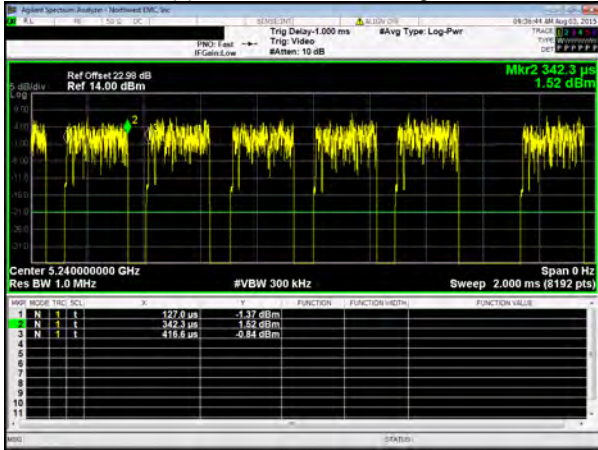
| | |
|------------------|------------|
| Pulse Width | 213.182 us |
| Period | 292.545 us |
| Number of Pulses | 1 |
| Value (%) | 72.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 20 MHz, High Channel 5240 MHz



| | |
|------------------|------------|
| Pulse Width | 215.323 us |
| Period | 289.6 us |
| Number of Pulses | 1 |
| Value (%) | 74.4 |
| Limit (%) | N/A |
| Results | N/A |

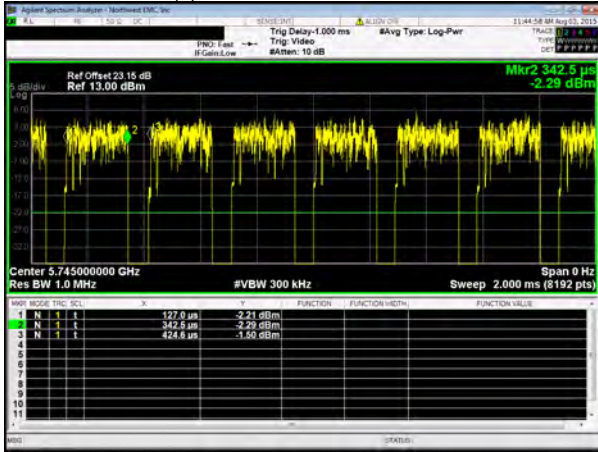
Chain B, 802.11(n) HT, MCS7, 20 MHz, High Channel 5240 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

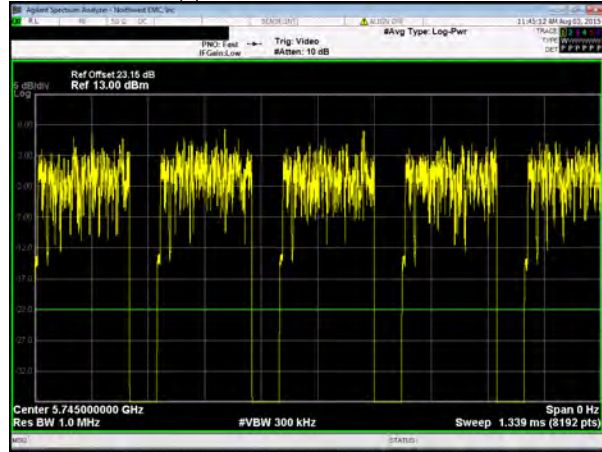
DUTY CYCLE

Chain B, 802.11(n) HT, MCS7, 20 MHz, Low Channel 5745 MHz



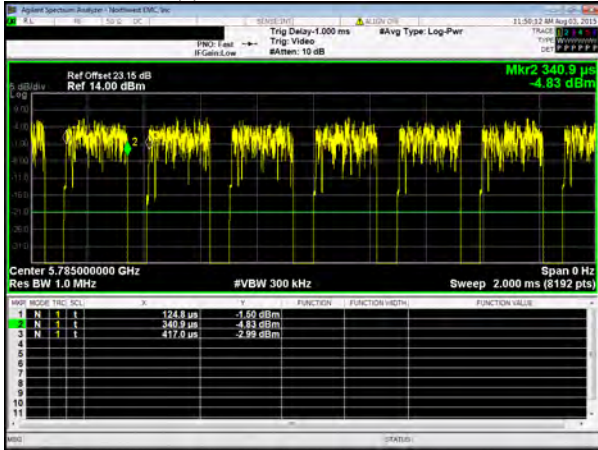
| | |
|------------------|------------|
| Pulse Width | 215.523 us |
| Period | 297.6 us |
| Number of Pulses | 1 |
| Value (%) | 72.4 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|------------|
| Pulse Width | 216.112 us |
| Period | 292.2 us |
| Number of Pulses | 1 |
| Value (%) | 74 |
| Limit (%) | N/A |
| Results | N/A |

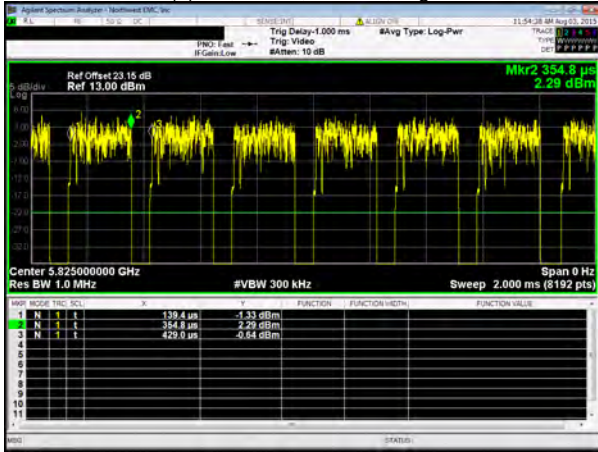
Chain B, 802.11(n) HT, MCS7, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain B, 802.11(n) HT, MCS7, 20 MHz, High Channel 5825 MHz



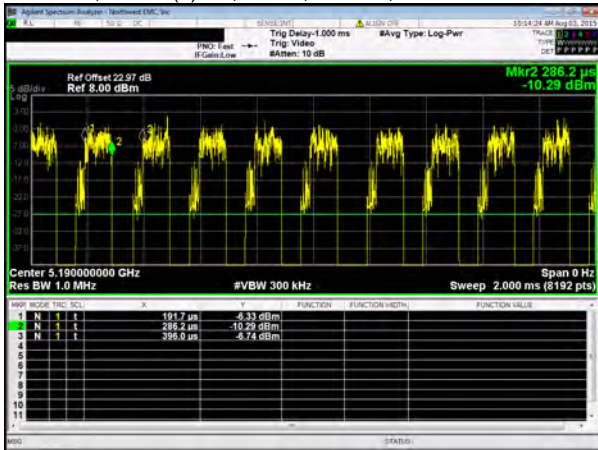
| | |
|------------------|------------|
| Pulse Width | 215.379 us |
| Period | 289.6 us |
| Number of Pulses | 1 |
| Value (%) | 74.4 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 20 MHz, High Channel 5825 MHz



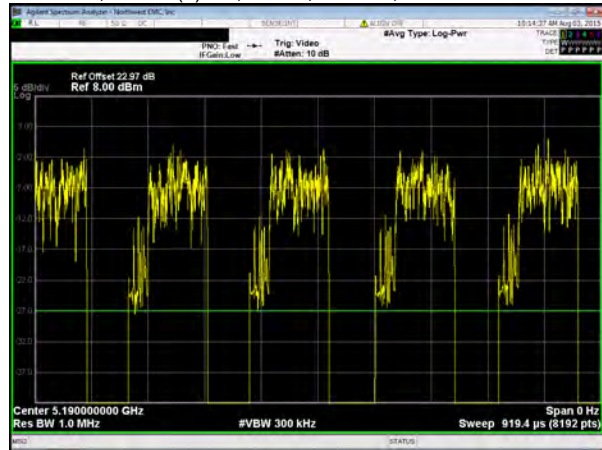
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 40 MHz, Low Channel 5190 MHz



| | |
|------------------|-----------|
| Pulse Width | 94.467 us |
| Period | 204.3 us |
| Number of Pulses | 1 |
| Value (%) | 46.2 |
| Limit (%) | N/A |
| Results | N/A |

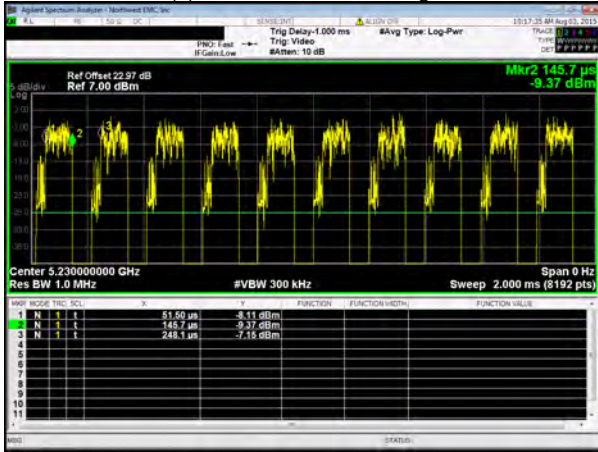
Chain B, 802.11(n) HT, MCS7, 40 MHz, Low Channel 5190 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

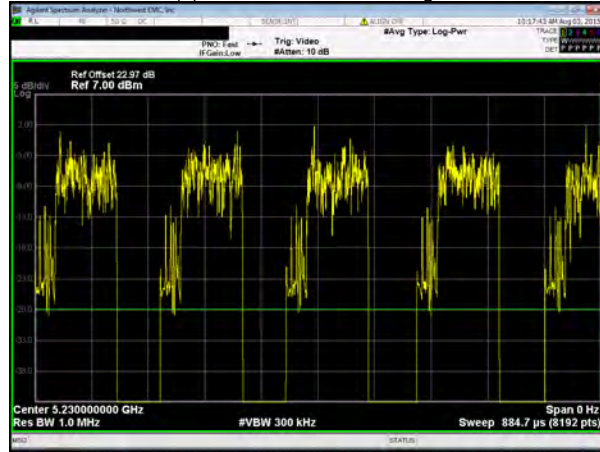
DUTY CYCLE

Chain B, 802.11(n) HT, MCS7, 40 MHz, High Channel 5230 MHz



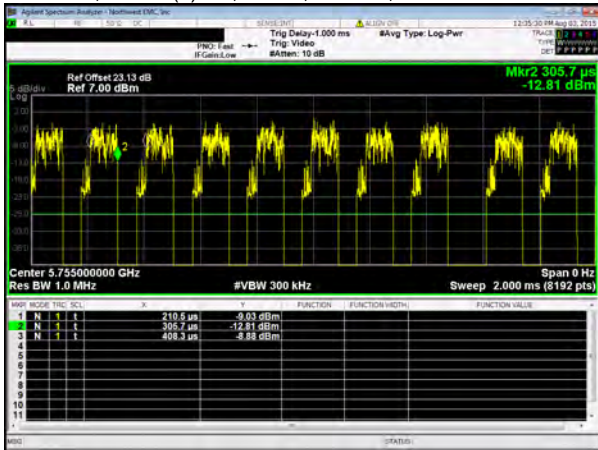
| | |
|------------------|-----------|
| Pulse Width | 94.223 us |
| Period | 196.6 us |
| Number of Pulses | 1 |
| Value (%) | 47.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 40 MHz, High Channel 5230 MHz



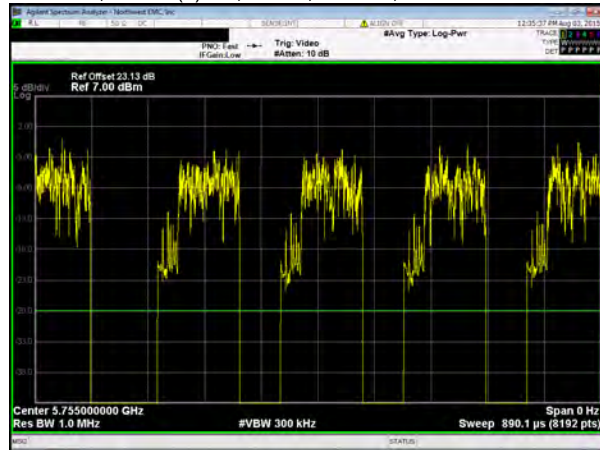
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 40 MHz, Low Channel 5755 MHz



| | |
|------------------|-----------|
| Pulse Width | 95.212 us |
| Period | 197.8 us |
| Number of Pulses | 1 |
| Value (%) | 48.1 |
| Limit (%) | N/A |
| Results | N/A |

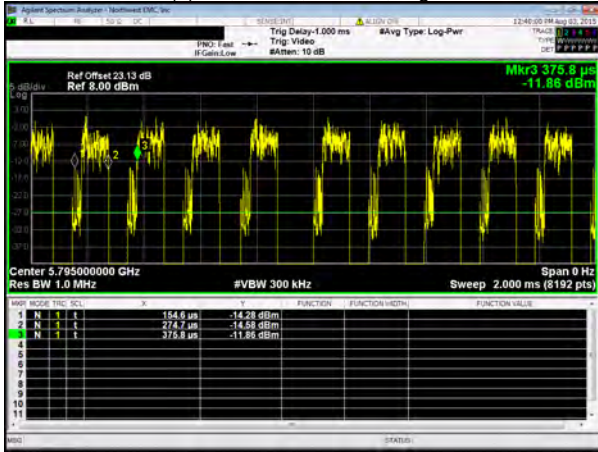
Chain B, 802.11(n) HT, MCS7, 40 MHz, Low Channel 5755 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain B, 802.11(n) HT, MCS7, 40 MHz, High Channel 5795 MHz



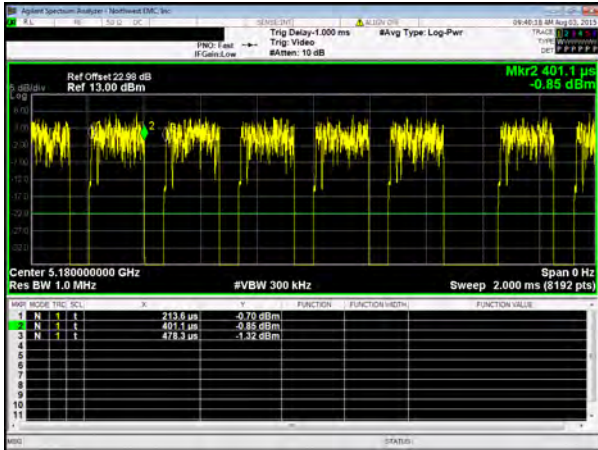
| | |
|------------------|------------|
| Pulse Width | 120.106 us |
| Period | 221.206 us |
| Number of Pulses | 1 |
| Value (%) | 54.3 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(n) HT, MCS7, 40 MHz, High Channel 5795 MHz



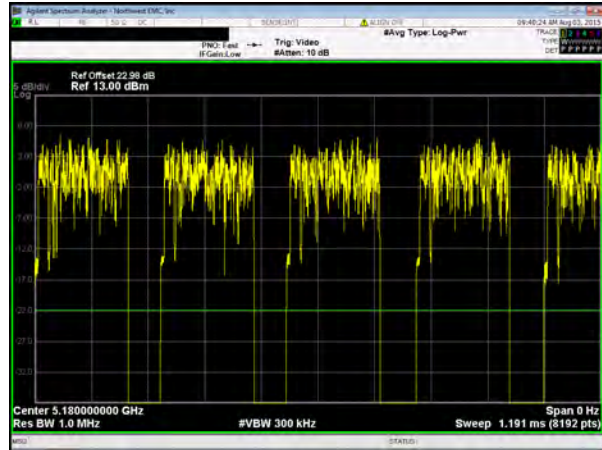
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5180 MHz



| | |
|------------------|------------|
| Pulse Width | 187.523 us |
| Period | 264.7 us |
| Number of Pulses | 1 |
| Value (%) | 70.8 |
| Limit (%) | N/A |
| Results | N/A |

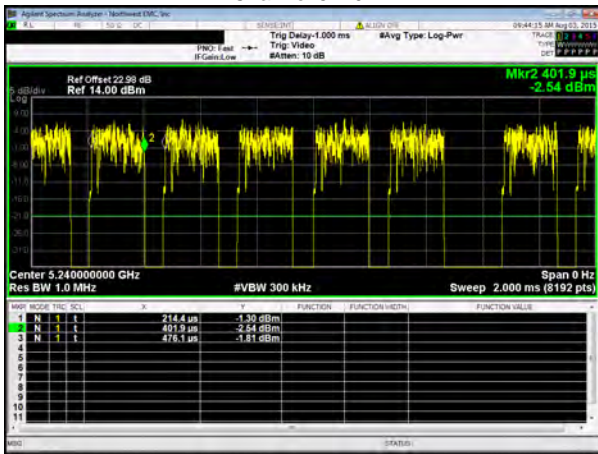
Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

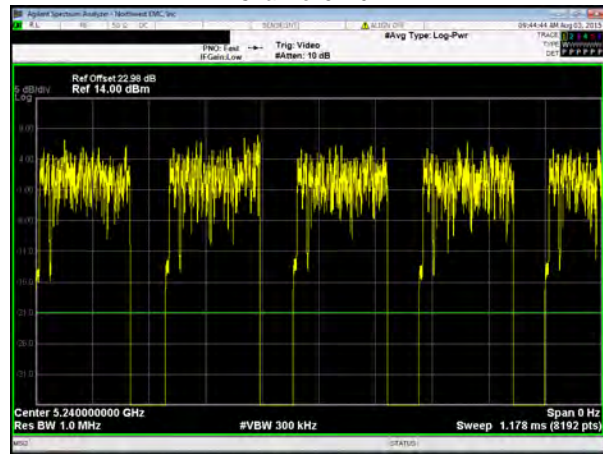
DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High Channel 5240 MHz



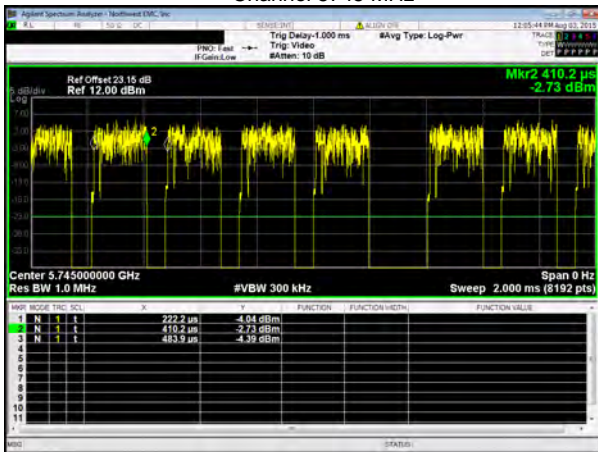
| | |
|------------------|------------|
| Pulse Width | 187.523 us |
| Period | 261.7 us |
| Number of Pulses | 1 |
| Value (%) | 71.7 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High Channel 5240 MHz



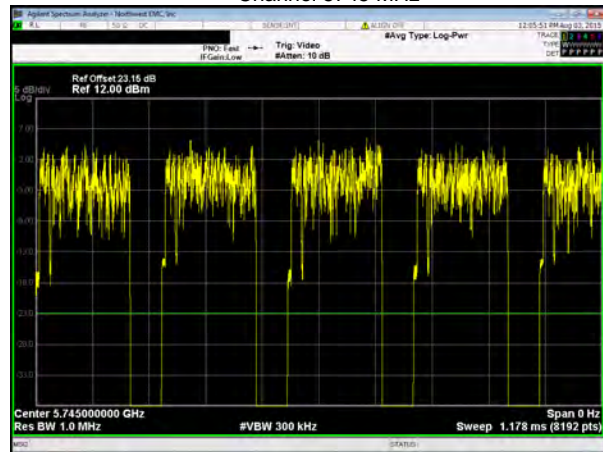
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5745 MHz



| | |
|------------------|------------|
| Pulse Width | 187.967 us |
| Period | 261.7 us |
| Number of Pulses | 1 |
| Value (%) | 71.8 |
| Limit (%) | N/A |
| Results | N/A |

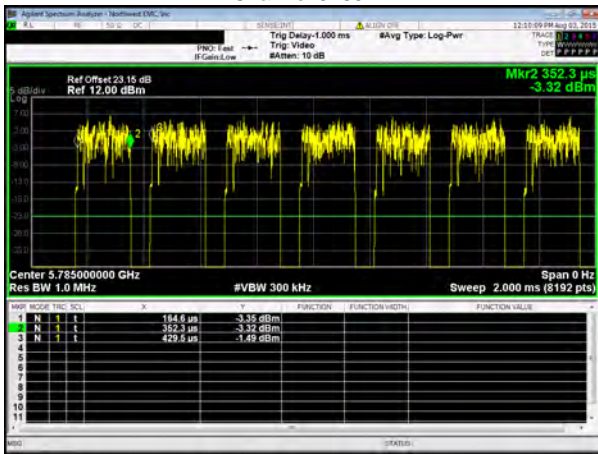
Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5745 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

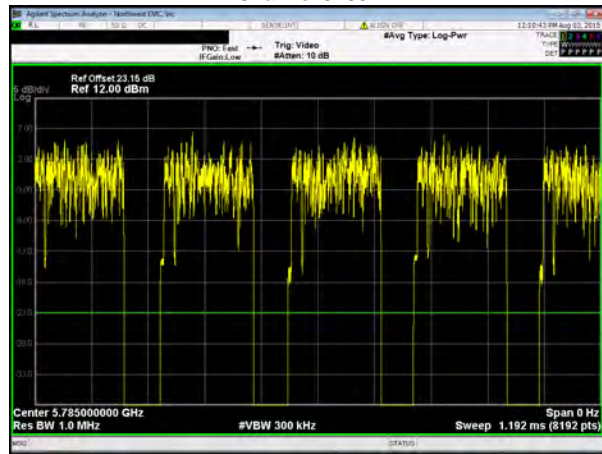
DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Mid Channel 5785 MHz



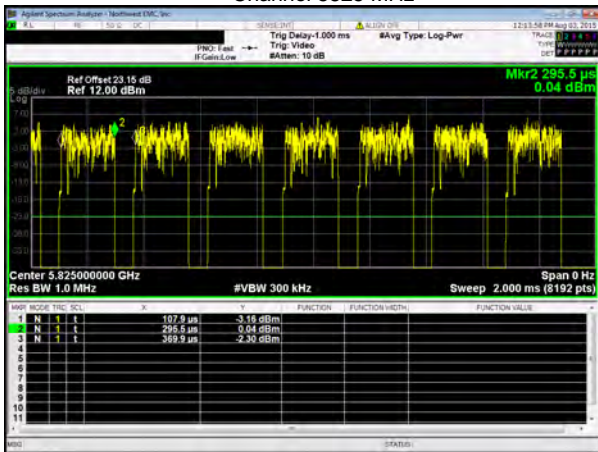
| | |
|------------------|------------|
| Pulse Width | 187.723 us |
| Period | 264.9 us |
| Number of Pulses | 1 |
| Value (%) | 70.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Mid Channel 5785 MHz



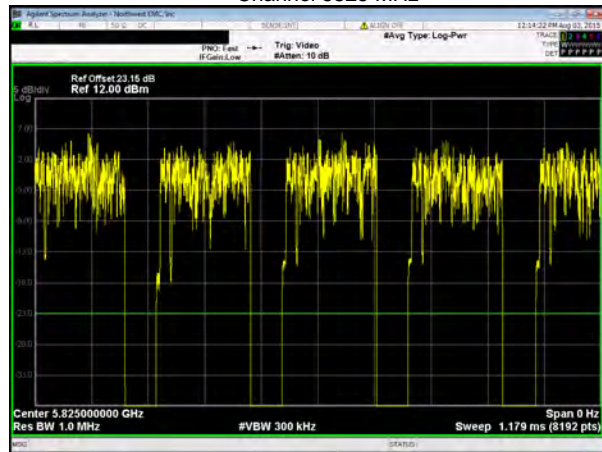
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High Channel 5825 MHz



| | |
|------------------|------------|
| Pulse Width | 187.579 us |
| Period | 262 us |
| Number of Pulses | 1 |
| Value (%) | 71.6 |
| Limit (%) | N/A |
| Results | N/A |

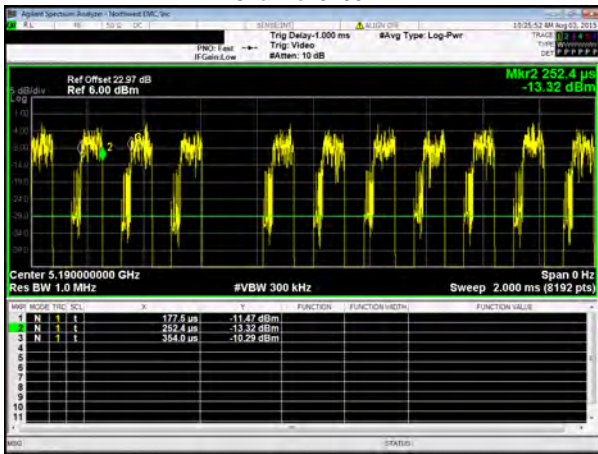
Chain B, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High Channel 5825 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

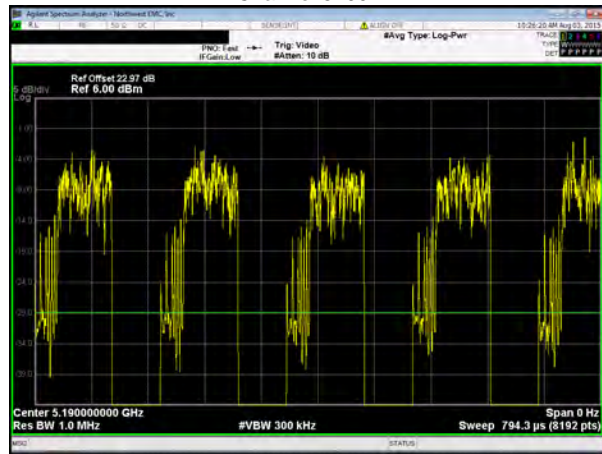
DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low Channel 5190 MHz



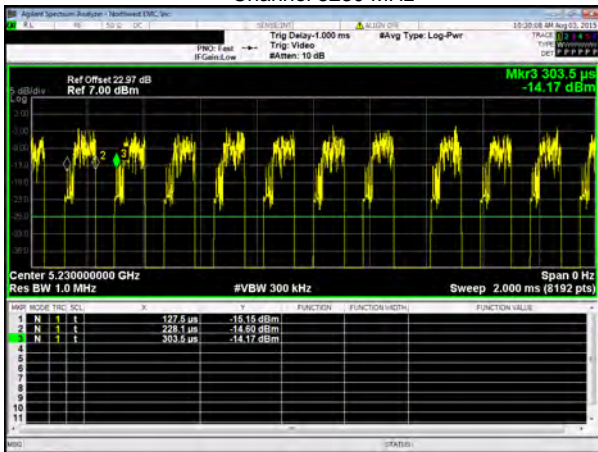
| | |
|------------------|-----------|
| Pulse Width | 74.923 us |
| Period | 176.5 us |
| Number of Pulses | 1 |
| Value (%) | 42.4 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low Channel 5190 MHz



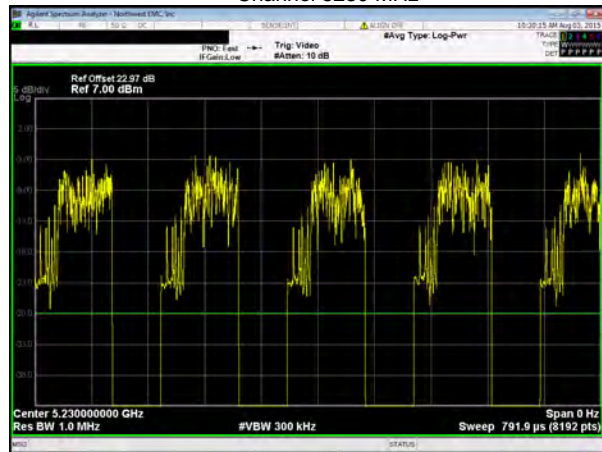
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High Channel 5230 MHz



| | |
|------------------|------------|
| Pulse Width | 100.594 us |
| Period | 175.967 us |
| Number of Pulses | 1 |
| Value (%) | 57.2 |
| Limit (%) | N/A |
| Results | N/A |

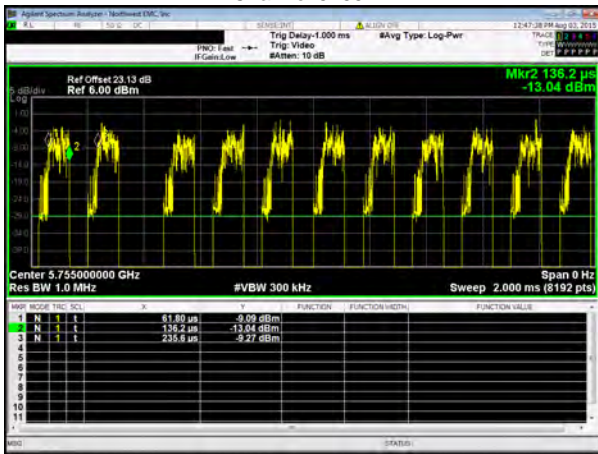
Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High Channel 5230 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

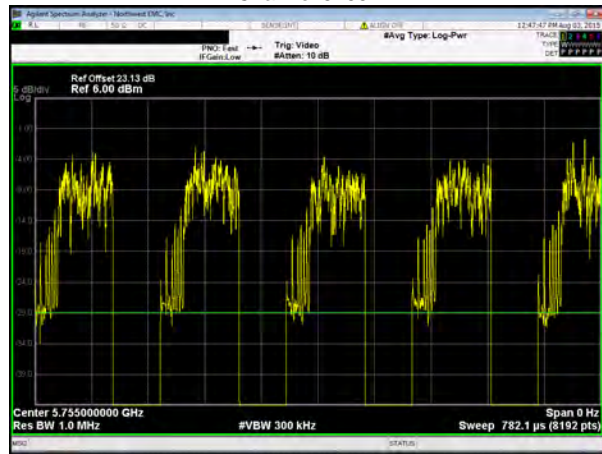
DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low Channel 5755 MHz



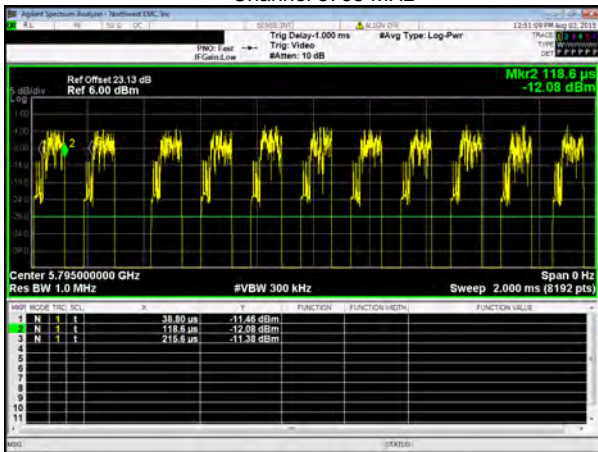
| | |
|------------------|-----------|
| Pulse Width | 74.412 us |
| Period | 173.8 us |
| Number of Pulses | 1 |
| Value (%) | 42.8 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low Channel 5755 MHz



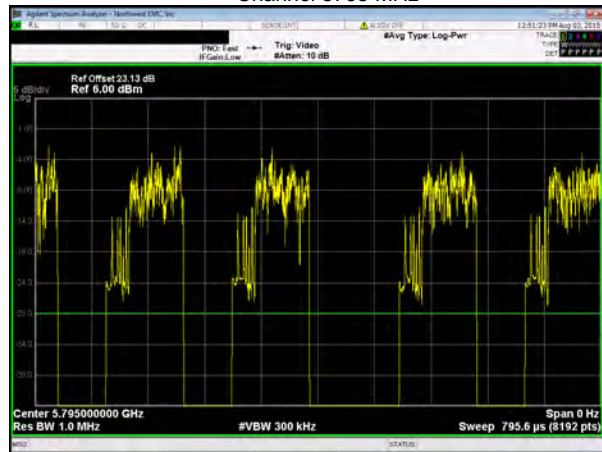
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High Channel 5795 MHz



| | |
|------------------|-----------|
| Pulse Width | 79.823 us |
| Period | 176.8 us |
| Number of Pulses | 1 |
| Value (%) | 45.1 |
| Limit (%) | N/A |
| Results | N/A |

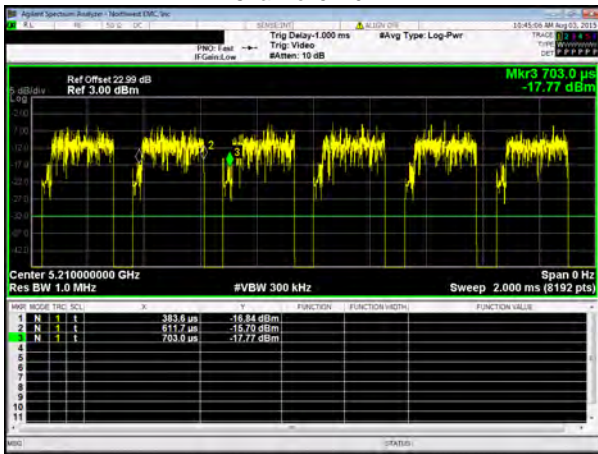
Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High Channel 5795 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low Channel 5210 MHz



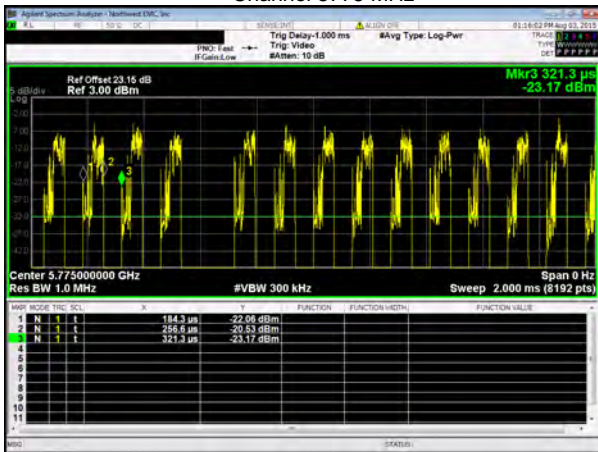
| | |
|------------------|------------|
| Pulse Width | 228.057 us |
| Period | 319.355 us |
| Number of Pulses | 1 |
| Value (%) | 71.4 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low Channel 5210 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low Channel 5775 MHz



| | |
|------------------|------------|
| Pulse Width | 72.307 us |
| Period | 137.011 us |
| Number of Pulses | 1 |
| Value (%) | 52.8 |
| Limit (%) | N/A |
| Results | N/A |

Chain B, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low Channel 5775 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST DESCRIPTION

The transmission pulse duration (T) and Duty Cycle (x) were measured for each of the EUT operating modes per the FCC KDB 789033 D01 General UNII Test Procedures.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, a duty cycle correction factor in dB can be calculated to add to power measurements if required in the method guidance.

$$10 * \text{LOG} (1/x) = \text{dB}$$

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|--------------------------|--------------------|-----------|-----|-----------|-----------|
| Spectrum Analyzer | Agilent | N9010A | AFL | 9/20/2014 | 9/20/2015 |
| DC Block, 40 GHz | Fairview Microwave | SD3379 | AMM | 2/27/2015 | 2/27/2016 |
| Attenuator, 20dB, 40 GHz | Fairview Microwave | SA4018-20 | TQY | 2/27/2015 | 2/27/2016 |
| Signal Generator, 40 GHz | Agilent | N5173B | TIW | 7/15/2014 | 7/15/2017 |

DUTY CYCLE



| | | | |
|-------------------|-------------------------------|--------------------|-----------|
| EUT: | Firebox T50-W (BS5AE7W) | Work Order: | VDEI0009 |
| Serial Number: | 70AF00069-3EB6 | Date: | 08/03/15 |
| Customer: | WatchGuard Technologies, Inc. | Temperature: | 25.5°C |
| Attendees: | None | Relative Humidity: | 44% |
| Customer Project: | None | Bar. Pressure: | 1014 mbar |
| Tested By: | Jonathan Kiefer | Job Site: | TX09 |
| Power: | 110VAC/60Hz | Configuration: | 1 |

TEST SPECIFICATIONS

| | |
|-----------------|------------------|
| Specification: | Method: |
| FCC 15.407:2015 | ANSI C63.10:2013 |

COMMENTS

Chain C corresponds to Chain 2.

DEVIATIONS FROM TEST STANDARD

None

RESULTS

| | | | | Number of Value Limit | | | |
|-------------------|-----------------------|-------------|------------|-----------------------|------|-----|---------|
| | | Pulse Width | Period | Pulses | (%) | (%) | Results |
| Chain C | | | | | | | |
| 802.11(a) 6 Mbps | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 2.02 ms | 2.107 ms | 1 | 95.9 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 2.02 ms | 2.101 ms | 1 | 96.1 | N/A | N/A |
| | High Channel 5240 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5745 MHz | 2.02 ms | 2.101 ms | 1 | 96.1 | N/A | N/A |
| | Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 5785 MHz | 2.019 ms | 2.101 ms | 1 | 96.1 | N/A | N/A |
| | Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5825 MHz | 2.019 ms | 2.101 ms | 1 | 96.1 | N/A | N/A |
| | High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 802.11(a) 36 Mbps | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 348.456 us | 435.8 us | 1 | 80 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 348.212 us | 421.7 us | 1 | 82.6 | N/A | N/A |
| | High Channel 5240 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Low Channel 5745 MHz | 348.212 us | 421.685 us | 1 | 82.6 | N/A | N/A |
| | Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 5785 MHz | 347.767 us | 428.3 us | 1 | 81.2 | N/A | N/A |
| | Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5825 MHz | 348.212 us | 430.8 us | 1 | 80.8 | N/A | N/A |
| | High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 802.11(a) 54 Mbps | | | | | | | |
| 20 MHz | | | | | | | |
| | Low Channel 5180 MHz | 235.623 us | 312.8 us | 1 | 75.3 | N/A | N/A |
| | Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 5240 MHz | 235.867 us | 309.8 us | 1 | 76.1 | N/A | N/A |

DUTY CYCLE

| | Pulse Width | Period | Number of Value | | Limit | Results |
|---------------------------|-------------|------------|-----------------|------|-------|---------|
| | | | Pulses | (%) | (%) | |
| High Channel 5240 MHz | N/A | N/A | 4 | N/A | N/A | N/A |
| Low Channel 5745 MHz | 234.403 us | 313.502 us | 1 | 74.8 | N/A | N/A |
| Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 5785 MHz | 235.423 us | 312.8 us | 1 | 75.3 | N/A | N/A |
| Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 5825 MHz | 235.867 us | 309.866 us | 1 | 76.1 | N/A | N/A |
| High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| 802.11(n) HT, MCS0 | | | | | | |
| 20 MHz | | | | | | |
| Low Channel 5180 MHz | 1.88 ms | 1.98 ms | 1 | 95 | N/A | N/A |
| Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 5240 MHz | 1.88 ms | 1.983 ms | 1 | 94.8 | N/A | N/A |
| High Channel 5240 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| Low Channel 5745 MHz | 1.88 ms | 1.984 ms | 1 | 94.8 | N/A | N/A |
| Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 5785 MHz | 1.88 ms | 2.011 ms | 1 | 93.5 | N/A | N/A |
| Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 5825 MHz | 1.88 ms | 1.985 ms | 1 | 94.7 | N/A | N/A |
| High Channel 5825 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| 40 MHz | | | | | | |
| Low Channel 5190 MHz | 894.401 us | 1 ms | 1 | 89.4 | N/A | N/A |
| Low Channel 5190 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| High Channel 5230 MHz | 895.134 us | 996.2 us | 1 | 89.9 | N/A | N/A |
| High Channel 5230 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| Low Channel 5755 MHz | 894.401 us | 997.6 us | 1 | 89.7 | N/A | N/A |
| Low Channel 5755 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| High Channel 5795 MHz | 894.7 us | 1.001 ms | 1 | 89.4 | N/A | N/A |
| High Channel 5795 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| 80 MHz | | | | | | |
| Low Channel 5210 MHz | 217.491 us | 320.1 us | 1 | 67.9 | N/A | N/A |
| Low Channel 5210 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| Low Channel 5775 MHz | 251.023 us | 317.6 us | 1 | 79 | N/A | N/A |
| Low Channel 5775 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| 802.11(n) HT, MCS7 | | | | | | |
| 20 MHz | | | | | | |
| Low Channel 5180 MHz | 215.867 us | 292.3 us | 1 | 73.9 | N/A | N/A |
| Low Channel 5180 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 5240 MHz | 215.523 us | 297.6 us | 1 | 72.4 | N/A | N/A |
| High Channel 5240 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| Low Channel 5745 MHz | 216.356 us | 289.6 us | 1 | 74.7 | N/A | N/A |
| Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 5785 MHz | 215.867 us | 293 us | 1 | 73.7 | N/A | N/A |
| Mid Channel 5785 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| High Channel 5825 MHz | 215.767 us | 289.5 us | 1 | 74.5 | N/A | N/A |

DUTY CYCLE

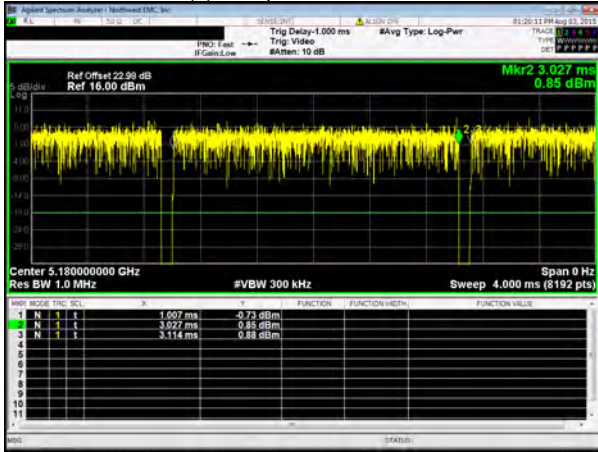
| | Pulse Width | Period | Number of Value | | Limit | | Results |
|---------------------------------------|-------------|----------|-----------------|------|-------|-----|---------|
| | | | Pulses | (%) | (%) | (%) | |
| High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| 40 MHz | | | | | | | |
| Low Channel 5190 MHz | 93.735 us | 196.3 us | 1 | 47.8 | N/A | N/A | N/A |
| Low Channel 5190 MHz | N/A | N/A | 6 | N/A | N/A | N/A | N/A |
| High Channel 5230 MHz | 95.212 us | 199.9 us | 1 | 47.6 | N/A | N/A | N/A |
| High Channel 5230 MHz | N/A | N/A | 6 | N/A | N/A | N/A | N/A |
| Low Channel 5755 MHz | 94.223 us | 193.4 us | 1 | 48.7 | N/A | N/A | N/A |
| Low Channel 5755 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 5795 MHz | 94.267 us | 196.3 us | 1 | 48 | N/A | N/A | N/A |
| High Channel 5795 MHz | N/A | N/A | 6 | N/A | N/A | N/A | N/A |
| 802.11(ac) VHT, MCS8 (256-QAM) | | | | | | | |
| 20 MHz | | | | | | | |
| Low Channel 5180 MHz | 187.767 us | 264.6 us | 1 | 71 | N/A | N/A | N/A |
| Low Channel 5180 MHz | N/A | N/A | 4 | N/A | N/A | N/A | N/A |
| High Channel 5240 MHz | 188.5 us | 262 us | 1 | 71.9 | N/A | N/A | N/A |
| High Channel 5240 MHz | N/A | N/A | 4 | N/A | N/A | N/A | N/A |
| Low Channel 5745 MHz | 188.012 us | 262.5 us | 1 | 71.6 | N/A | N/A | N/A |
| Low Channel 5745 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Mid Channel 5785 MHz | 188.012 us | 272.7 us | 1 | 68.9 | N/A | N/A | N/A |
| Mid Channel 5785 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 5825 MHz | 187.767 us | 261.7 us | 1 | 71.7 | N/A | N/A | N/A |
| High Channel 5825 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| 802.11(ac) VHT, MCS9 (256-QAM) | | | | | | | |
| 40 MHz | | | | | | | |
| Low Channel 5190 MHz | 74.712 us | 176.8 us | 1 | 42.3 | N/A | N/A | N/A |
| Low Channel 5190 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 5230 MHz | 74.467 us | 176.7 us | 1 | 42.1 | N/A | N/A | N/A |
| High Channel 5230 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Low Channel 5755 MHz | 74.967 us | 234.7 us | 1 | 31.9 | N/A | N/A | N/A |
| Low Channel 5755 MHz | N/A | N/A | 7 | N/A | N/A | N/A | N/A |
| High Channel 5795 MHz | 94.967 us | 196.8 us | 1 | 48.3 | N/A | N/A | N/A |
| High Channel 5795 MHz | N/A | N/A | 6 | N/A | N/A | N/A | N/A |
| 80 MHz | | | | | | | |
| Low Channel 5210 MHz | 52.023 us | 140.4 us | 1 | 37.1 | N/A | N/A | N/A |
| Low Channel 5210 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Low Channel 5775 MHz | 38.568 us | 139 us | 1 | 27.7 | N/A | N/A | N/A |
| Low Channel 5775 MHz | N/A | N/A | 6 | N/A | N/A | N/A | N/A |

Jonathan Kiefer

Tested By

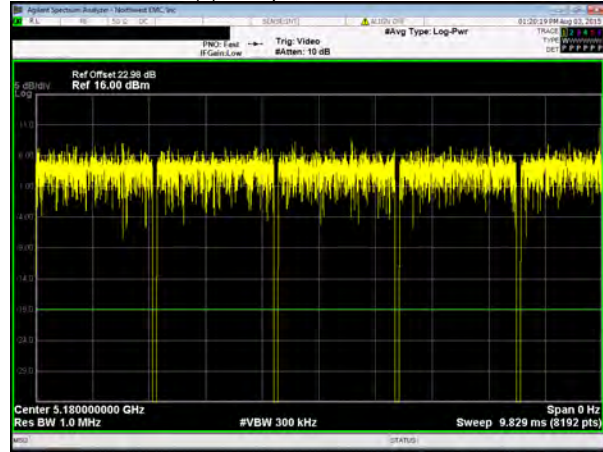
DUTY CYCLE

Chain C, 802.11(a) 6 Mbps, 20 MHz, Low Channel 5180 MHz



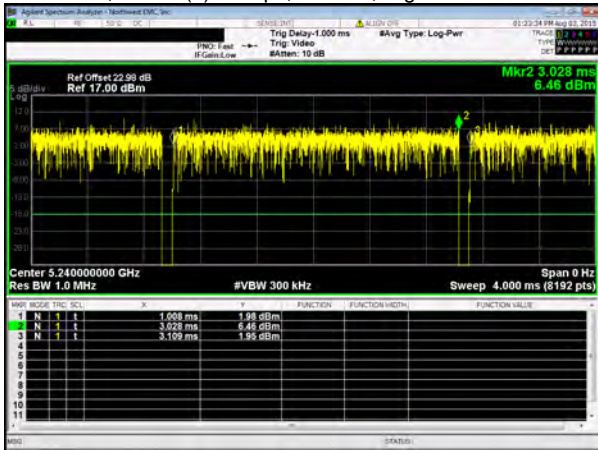
| | |
|------------------|----------|
| Pulse Width | 2.02 ms |
| Period | 2.107 ms |
| Number of Pulses | 1 |
| Value (%) | 95.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 6 Mbps, 20 MHz, Low Channel 5180 MHz



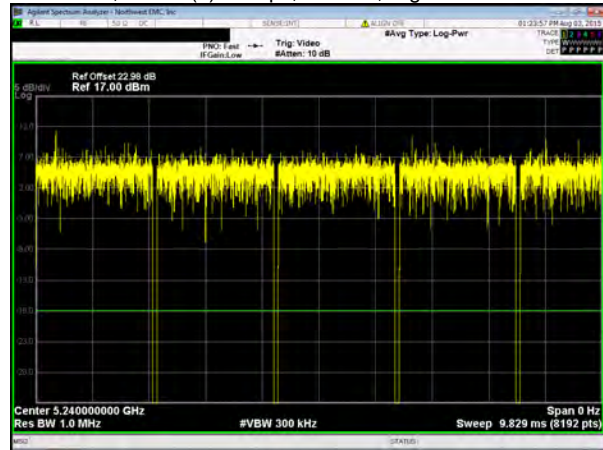
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 6 Mbps, 20 MHz, High Channel 5240 MHz



| | |
|------------------|----------|
| Pulse Width | 2.02 ms |
| Period | 2.101 ms |
| Number of Pulses | 1 |
| Value (%) | 96.1 |
| Limit (%) | N/A |
| Results | N/A |

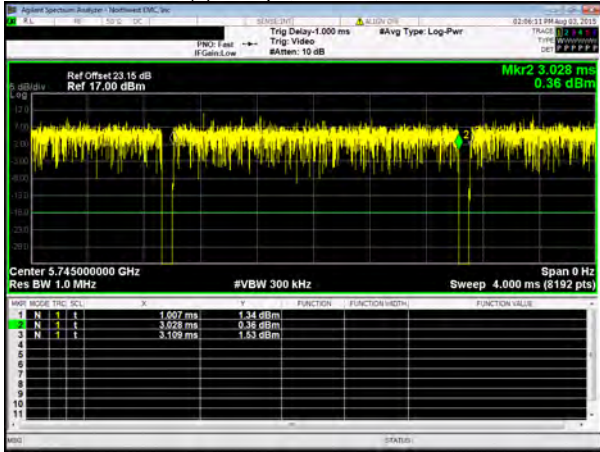
Chain C, 802.11(a) 6 Mbps, 20 MHz, High Channel 5240 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain C, 802.11(a) 6 Mbps, 20 MHz, Low Channel 5745 MHz



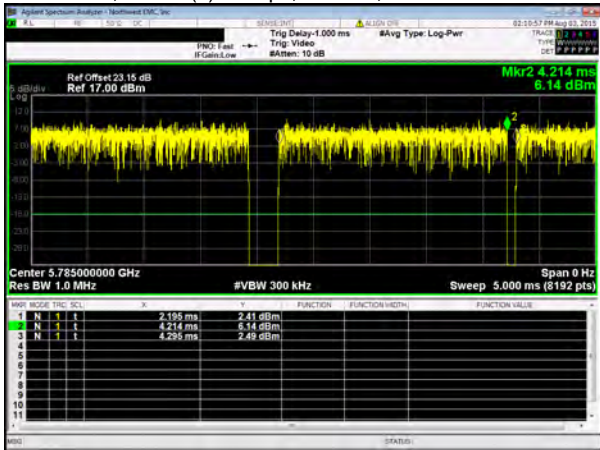
| | |
|------------------|----------|
| Pulse Width | 2.02 ms |
| Period | 2.101 ms |
| Number of Pulses | 1 |
| Value (%) | 96.1 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 6 Mbps, 20 MHz, Low Channel 5745 MHz



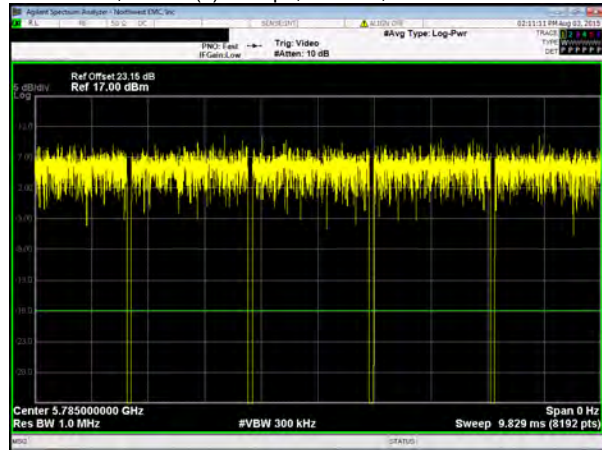
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 6 Mbps, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|----------|
| Pulse Width | 2.019 ms |
| Period | 2.101 ms |
| Number of Pulses | 1 |
| Value (%) | 96.1 |
| Limit (%) | N/A |
| Results | N/A |

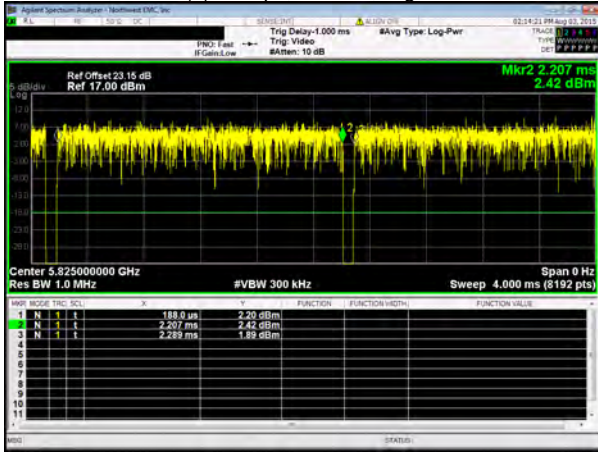
Chain C, 802.11(a) 6 Mbps, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

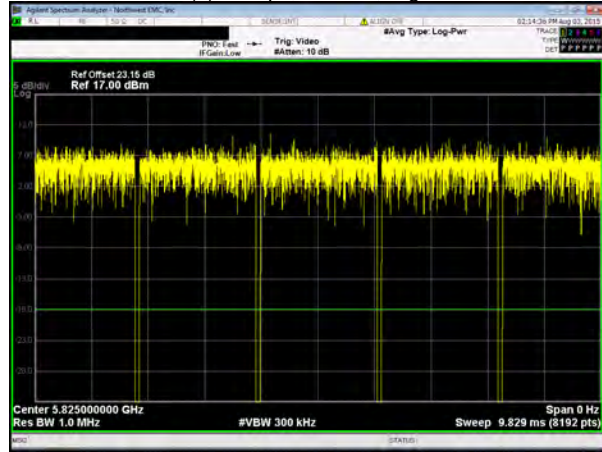
DUTY CYCLE

Chain C, 802.11(a) 6 Mbps, 20 MHz, High Channel 5825 MHz



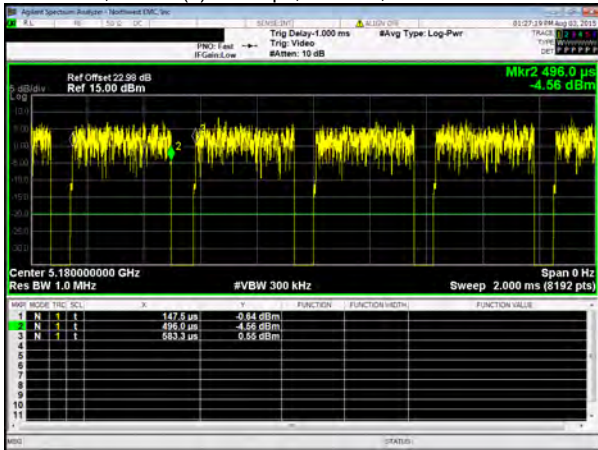
| | |
|------------------|----------|
| Pulse Width | 2.019 ms |
| Period | 2.101 ms |
| Number of Pulses | 1 |
| Value (%) | 96.1 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 6 Mbps, 20 MHz, High Channel 5825 MHz



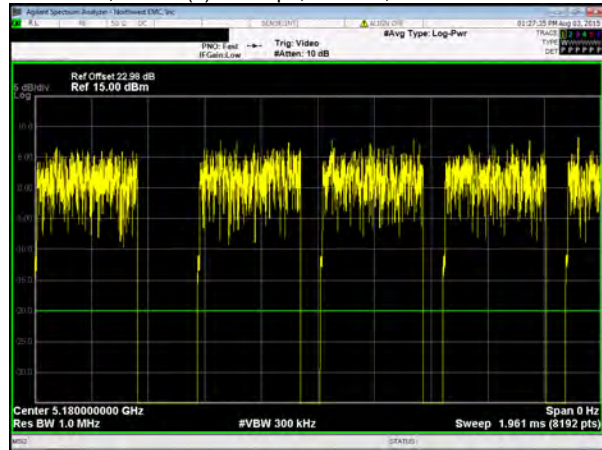
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 36 Mbps, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|------------|
| Pulse Width | 348.456 us |
| Period | 435.8 us |
| Number of Pulses | 1 |
| Value (%) | 80 |
| Limit (%) | N/A |
| Results | N/A |

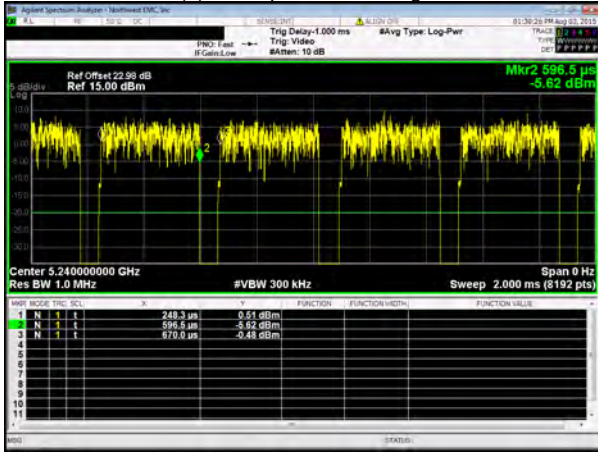
Chain C, 802.11(a) 36 Mbps, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

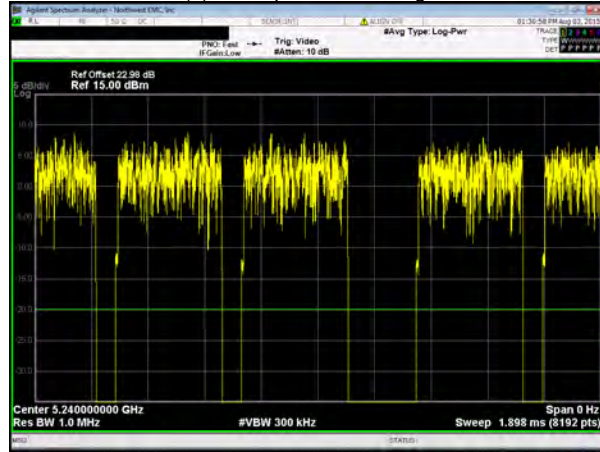
DUTY CYCLE

Chain C, 802.11(a) 36 Mbps, 20 MHz, High Channel 5240 MHz



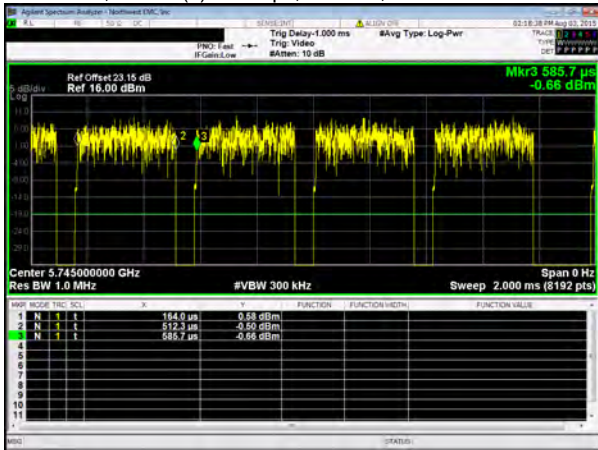
| | |
|------------------|------------|
| Pulse Width | 348.212 us |
| Period | 421.7 us |
| Number of Pulses | 1 |
| Value (%) | 82.6 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 36 Mbps, 20 MHz, High Channel 5240 MHz



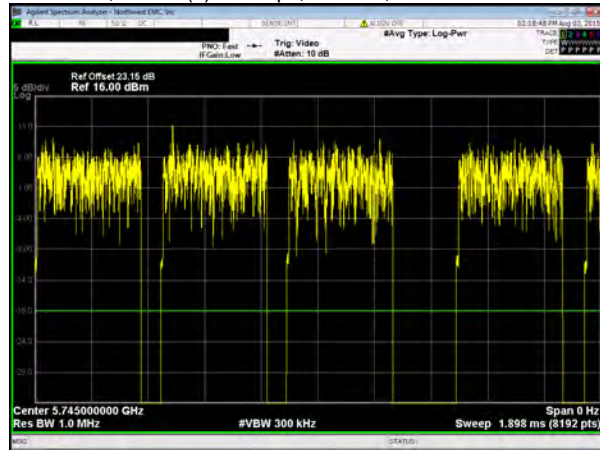
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 36 Mbps, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|------------|
| Pulse Width | 348.212 us |
| Period | 421.685 us |
| Number of Pulses | 1 |
| Value (%) | 82.6 |
| Limit (%) | N/A |
| Results | N/A |

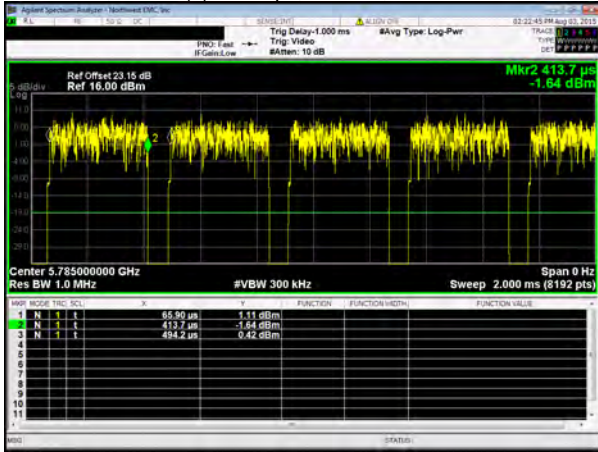
Chain C, 802.11(a) 36 Mbps, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

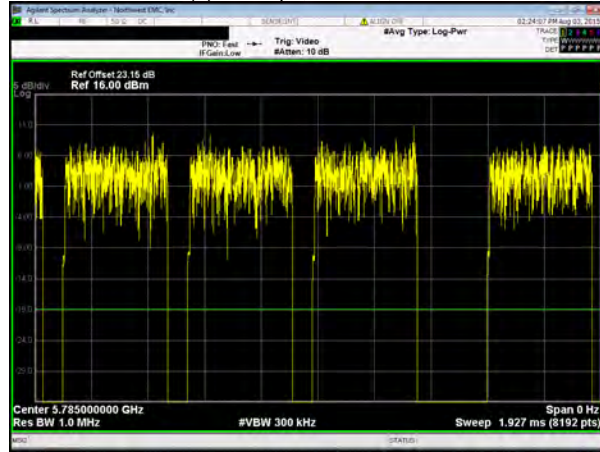
DUTY CYCLE

Chain C, 802.11(a) 36 Mbps, 20 MHz, Mid Channel 5785 MHz



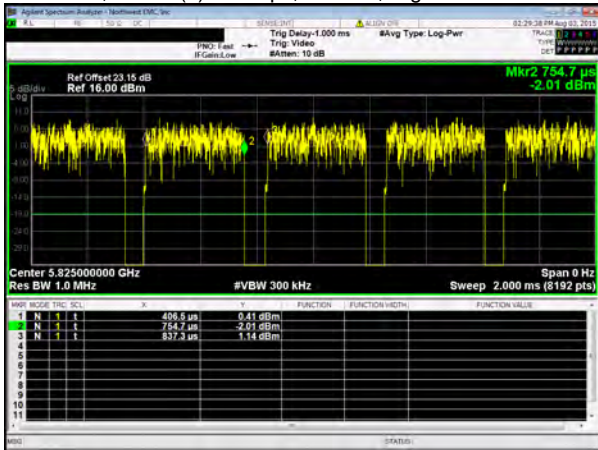
| | |
|------------------|------------|
| Pulse Width | 347.767 us |
| Period | 428.3 us |
| Number of Pulses | 1 |
| Value (%) | 81.2 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 36 Mbps, 20 MHz, Mid Channel 5785 MHz



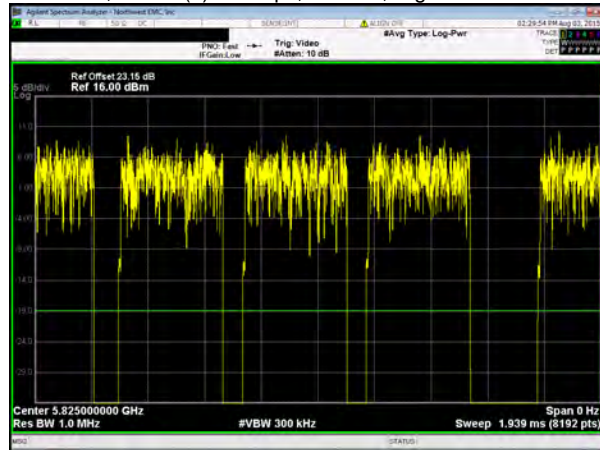
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 36 Mbps, 20 MHz, High Channel 5825 MHz



| | |
|------------------|------------|
| Pulse Width | 348.212 us |
| Period | 430.8 us |
| Number of Pulses | 1 |
| Value (%) | 80.8 |
| Limit (%) | N/A |
| Results | N/A |

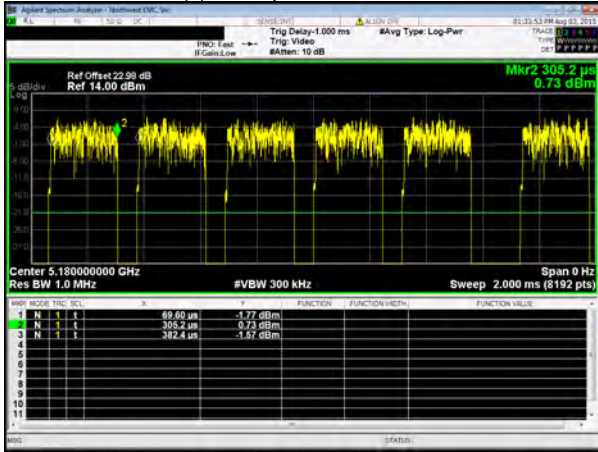
Chain C, 802.11(a) 36 Mbps, 20 MHz, High Channel 5825 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

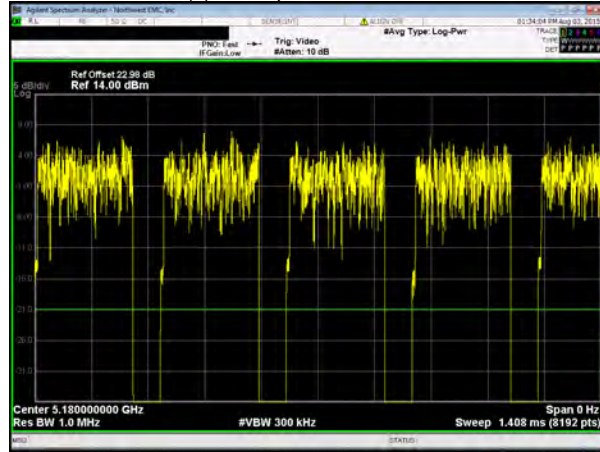
DUTY CYCLE

Chain C, 802.11(a) 54 Mbps, 20 MHz, Low Channel 5180 MHz



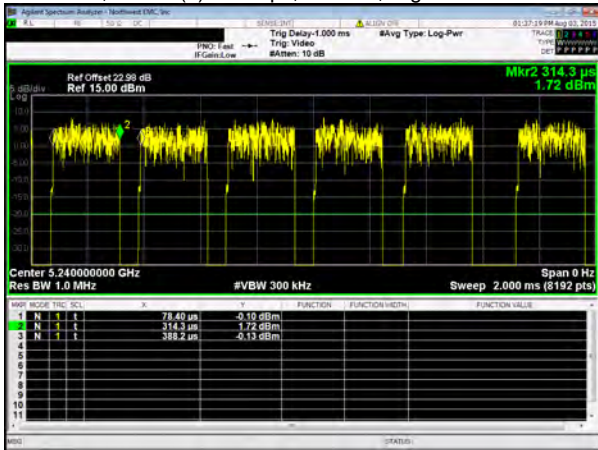
| | |
|------------------|------------|
| Pulse Width | 235.623 us |
| Period | 312.8 us |
| Number of Pulses | 1 |
| Value (%) | 75.3 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 54 Mbps, 20 MHz, Low Channel 5180 MHz



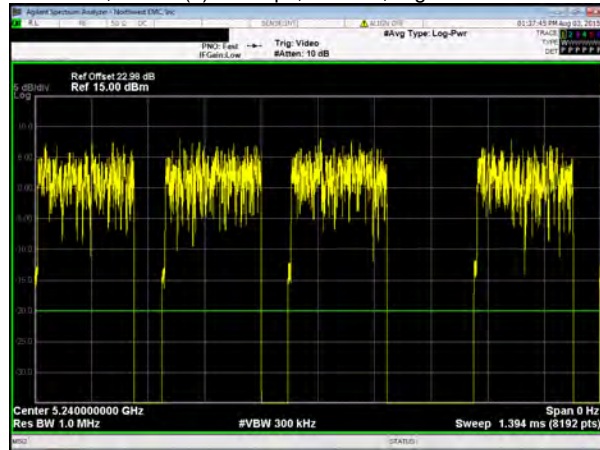
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 54 Mbps, 20 MHz, High Channel 5240 MHz



| | |
|------------------|------------|
| Pulse Width | 235.867 us |
| Period | 309.8 us |
| Number of Pulses | 1 |
| Value (%) | 76.1 |
| Limit (%) | N/A |
| Results | N/A |

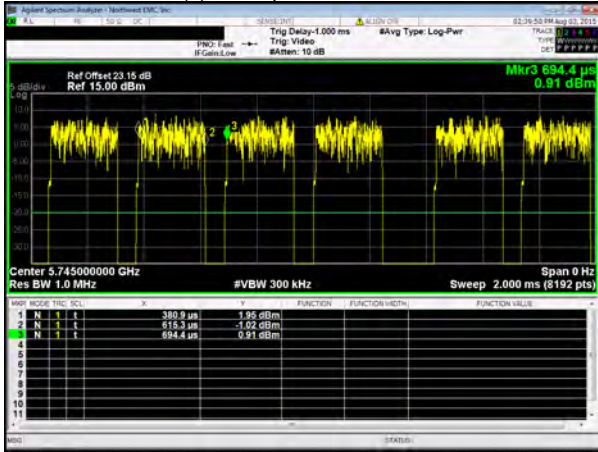
Chain C, 802.11(a) 54 Mbps, 20 MHz, High Channel 5240 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 4 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain C, 802.11(a) 54 Mbps, 20 MHz, Low Channel 5745 MHz



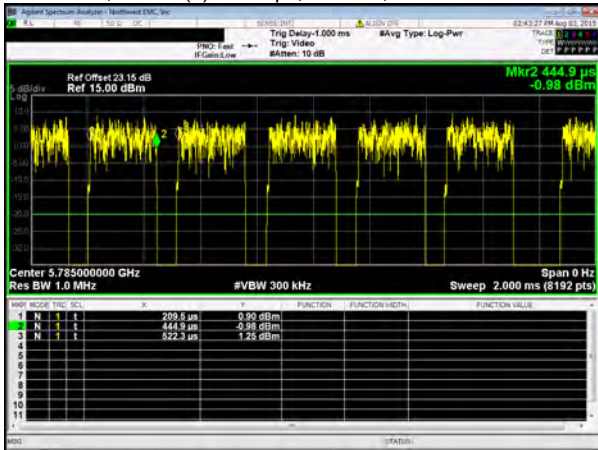
| | |
|------------------|------------|
| Pulse Width | 234.403 us |
| Period | 313.502 us |
| Number of Pulses | 1 |
| Value (%) | 74.8 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 54 Mbps, 20 MHz, Low Channel 5745 MHz



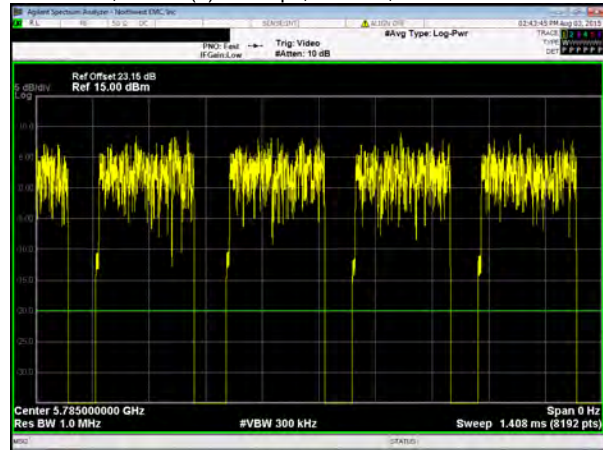
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 54 Mbps, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|------------|
| Pulse Width | 235.423 us |
| Period | 312.8 us |
| Number of Pulses | 1 |
| Value (%) | 75.3 |
| Limit (%) | N/A |
| Results | N/A |

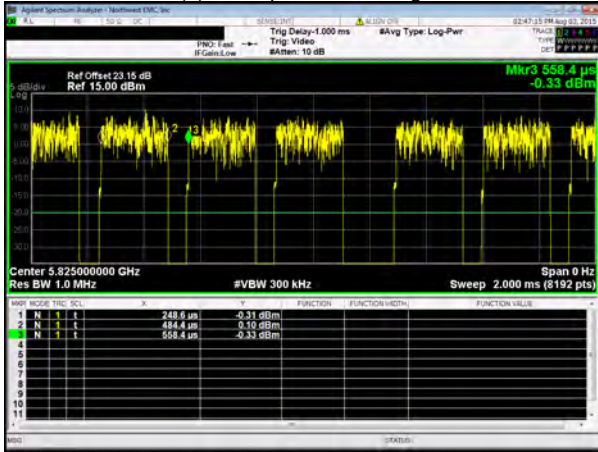
Chain C, 802.11(a) 54 Mbps, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

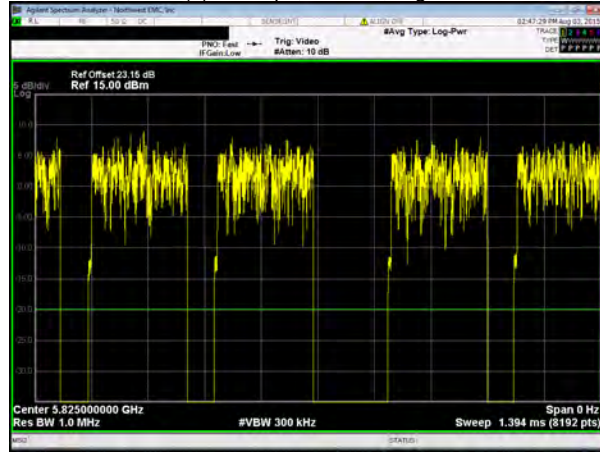
DUTY CYCLE

Chain C, 802.11(a) 54 Mbps, 20 MHz, High Channel 5825 MHz



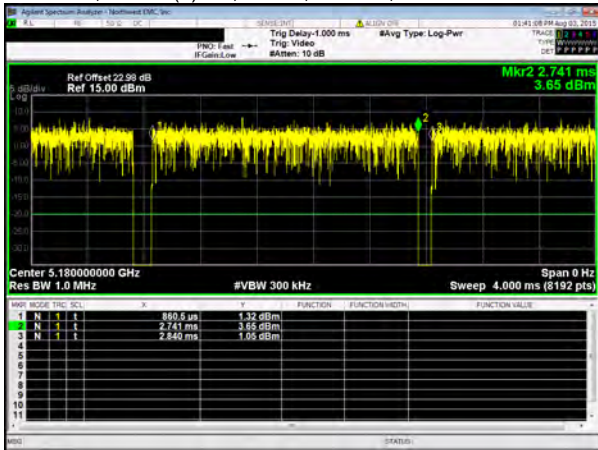
| | |
|------------------|------------|
| Pulse Width | 235.867 us |
| Period | 309.866 us |
| Number of Pulses | 1 |
| Value (%) | 76.1 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(a) 54 Mbps, 20 MHz, High Channel 5825 MHz



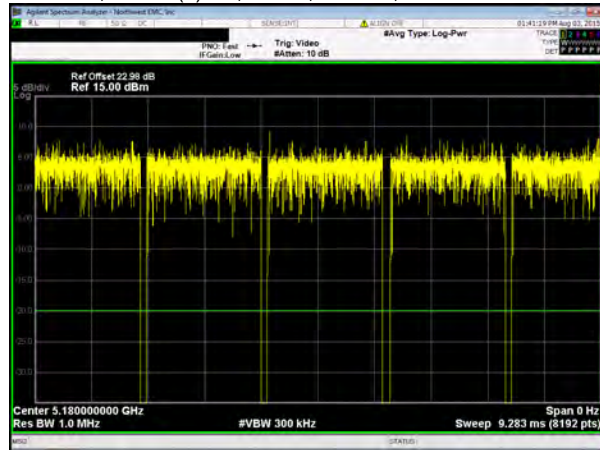
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|---------|
| Pulse Width | 1.88 ms |
| Period | 1.98 ms |
| Number of Pulses | 1 |
| Value (%) | 95 |
| Limit (%) | N/A |
| Results | N/A |

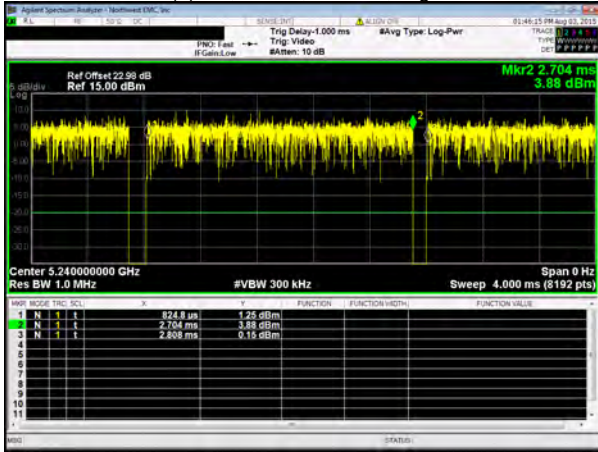
Chain C, 802.11(n) HT, MCS0, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

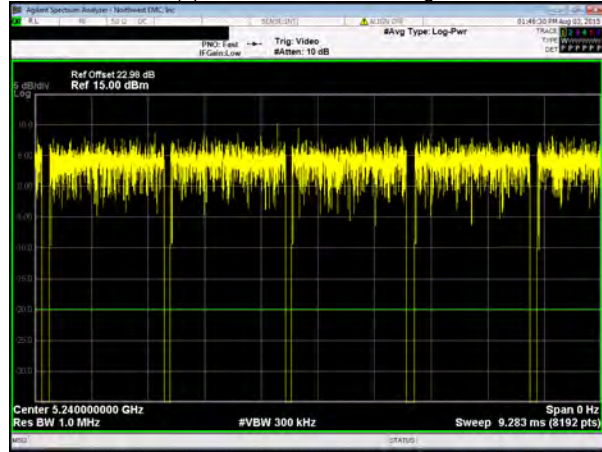
DUTY CYCLE

Chain C, 802.11(n) HT, MCS0, 20 MHz, High Channel 5240 MHz



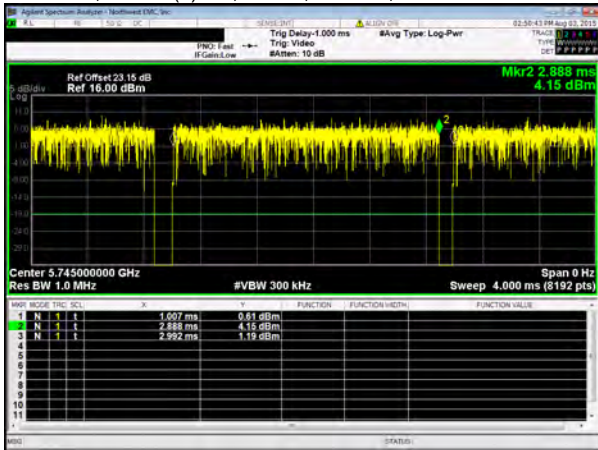
| | |
|------------------|----------|
| Pulse Width | 1.88 ms |
| Period | 1.983 ms |
| Number of Pulses | 1 |
| Value (%) | 94.8 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 20 MHz, High Channel 5240 MHz



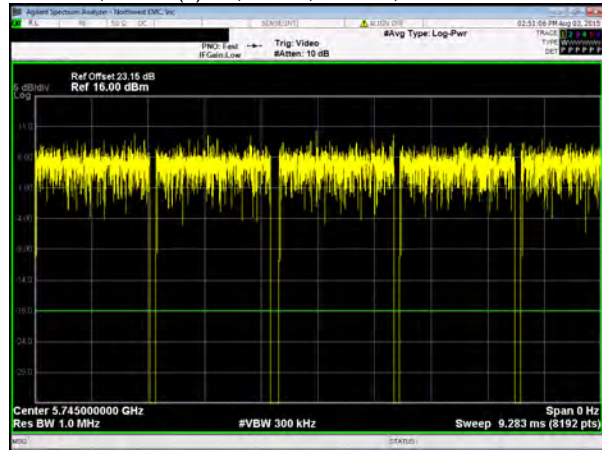
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|----------|
| Pulse Width | 1.88 ms |
| Period | 1.984 ms |
| Number of Pulses | 1 |
| Value (%) | 94.8 |
| Limit (%) | N/A |
| Results | N/A |

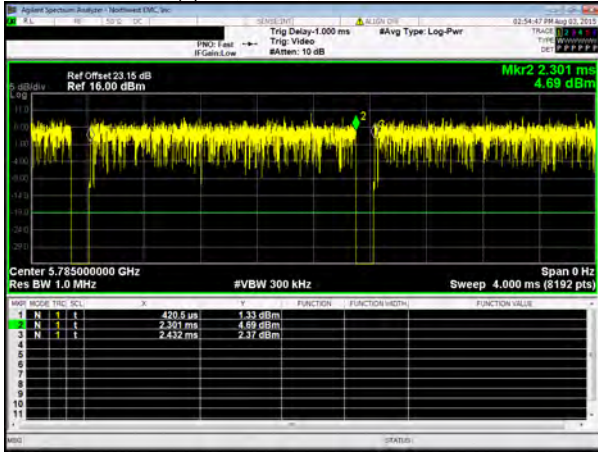
Chain C, 802.11(n) HT, MCS0, 20 MHz, Low Channel 5745 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain C, 802.11(n) HT, MCS0, 20 MHz, Mid Channel 5785 MHz



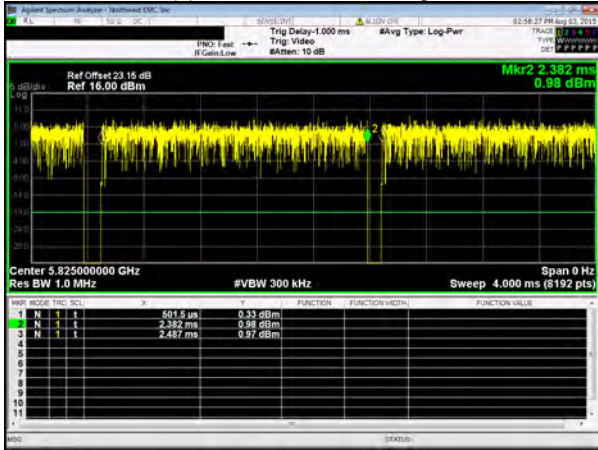
| | |
|------------------|----------|
| Pulse Width | 1.88 ms |
| Period | 2.011 ms |
| Number of Pulses | 1 |
| Value (%) | 93.5 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 20 MHz, Mid Channel 5785 MHz



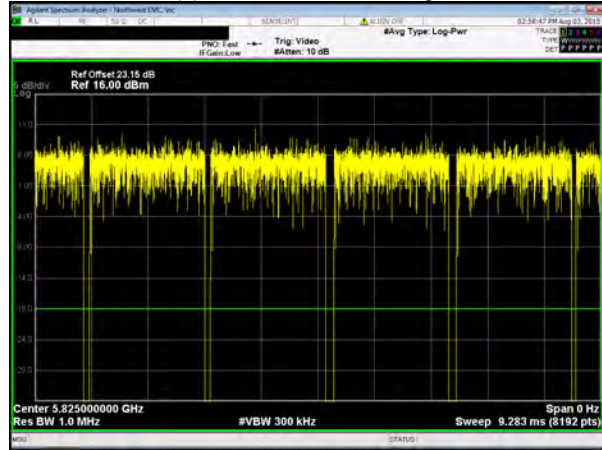
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 20 MHz, High Channel 5825 MHz



| | |
|------------------|----------|
| Pulse Width | 1.88 ms |
| Period | 1.985 ms |
| Number of Pulses | 1 |
| Value (%) | 94.7 |
| Limit (%) | N/A |
| Results | N/A |

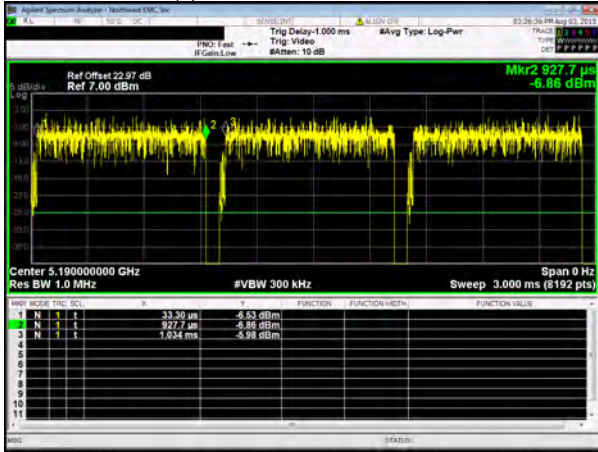
Chain C, 802.11(n) HT, MCS0, 20 MHz, High Channel 5825 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

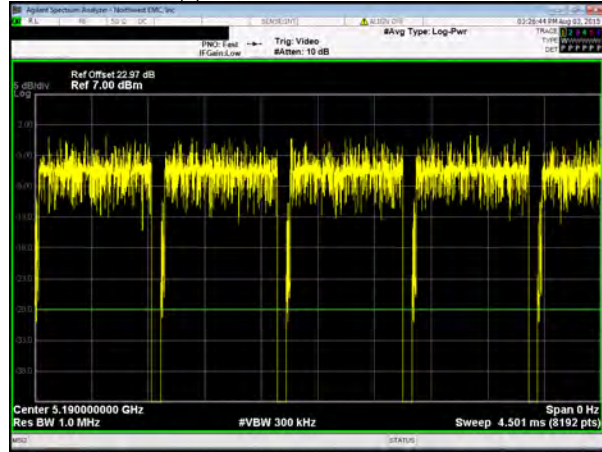
DUTY CYCLE

Chain C, 802.11(n) HT, MCS0, 40 MHz, Low Channel 5190 MHz



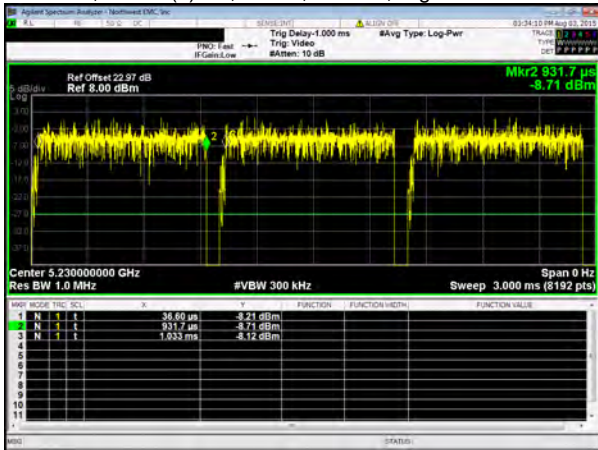
| | |
|------------------|------------|
| Pulse Width | 894.401 us |
| Period | 1 ms |
| Number of Pulses | 1 |
| Value (%) | 89.4 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 40 MHz, Low Channel 5190 MHz



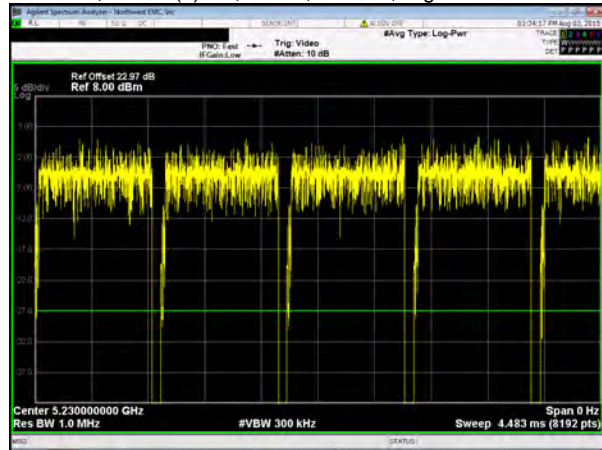
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 40 MHz, High Channel 5230 MHz



| | |
|------------------|------------|
| Pulse Width | 895.134 us |
| Period | 996.2 us |
| Number of Pulses | 1 |
| Value (%) | 89.9 |
| Limit (%) | N/A |
| Results | N/A |

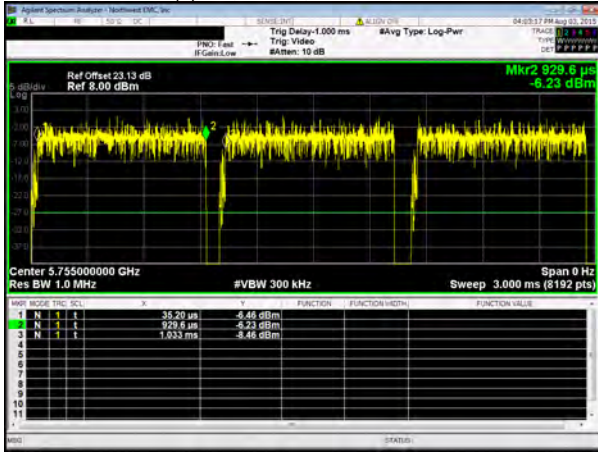
Chain C, 802.11(n) HT, MCS0, 40 MHz, High Channel 5230 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

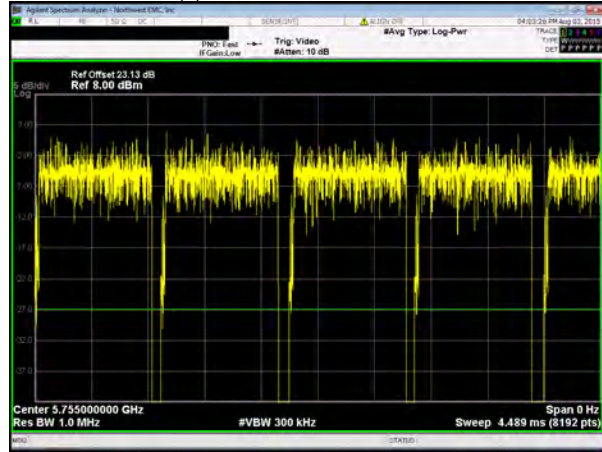
DUTY CYCLE

Chain C, 802.11(n) HT, MCS0, 40 MHz, Low Channel 5755 MHz



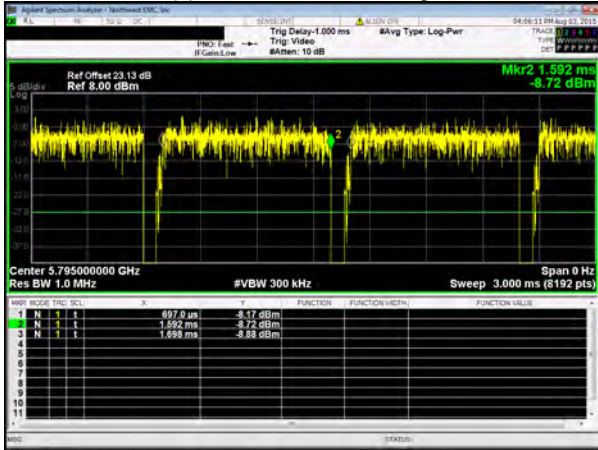
| | |
|------------------|------------|
| Pulse Width | 894.401 us |
| Period | 997.6 us |
| Number of Pulses | 1 |
| Value (%) | 89.7 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 40 MHz, Low Channel 5755 MHz



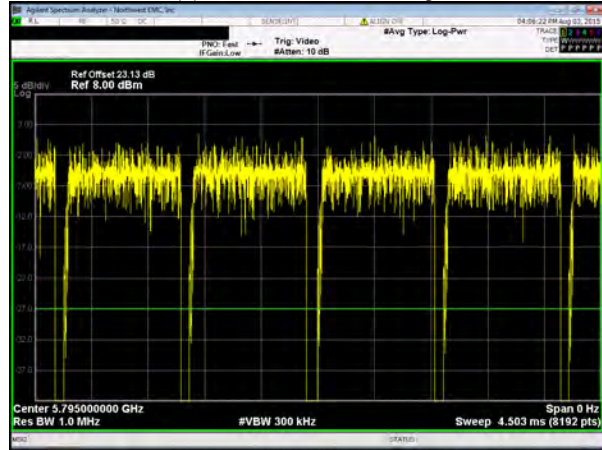
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 40 MHz, High Channel 5795 MHz



| | |
|------------------|----------|
| Pulse Width | 894.7 us |
| Period | 1.001 ms |
| Number of Pulses | 1 |
| Value (%) | 89.4 |
| Limit (%) | N/A |
| Results | N/A |

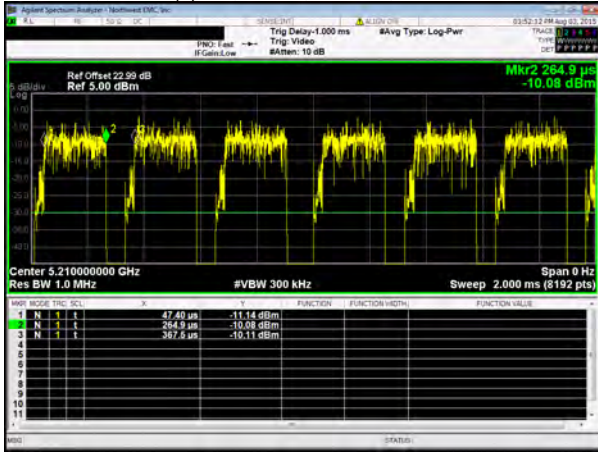
Chain C, 802.11(n) HT, MCS0, 40 MHz, High Channel 5795 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain C, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5210 MHz



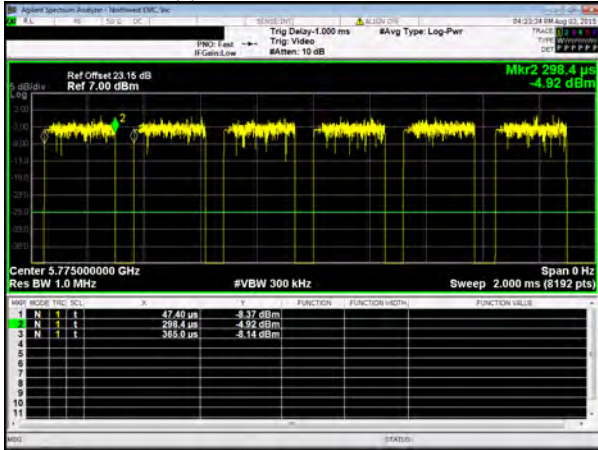
| | |
|------------------|------------|
| Pulse Width | 217.491 us |
| Period | 320.1 us |
| Number of Pulses | 1 |
| Value (%) | 67.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5210 MHz



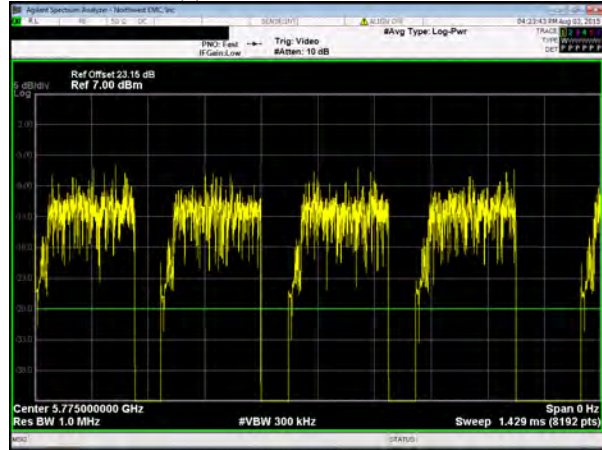
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5775 MHz



| | |
|------------------|------------|
| Pulse Width | 251.023 us |
| Period | 317.6 us |
| Number of Pulses | 1 |
| Value (%) | 79 |
| Limit (%) | N/A |
| Results | N/A |

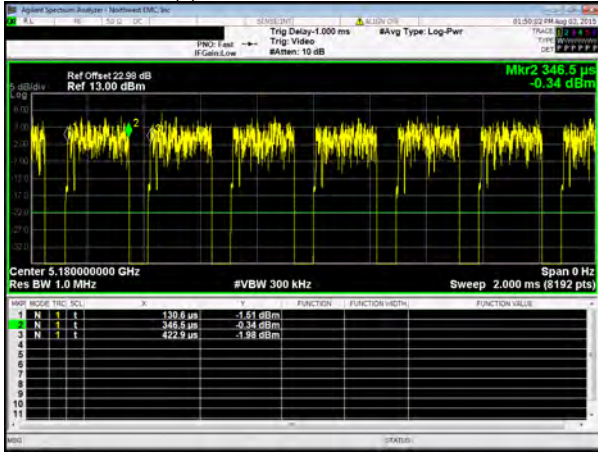
Chain C, 802.11(n) HT, MCS0, 80 MHz, Low Channel 5775 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain C, 802.11(n) HT, MCS7, 20 MHz, Low Channel 5180 MHz



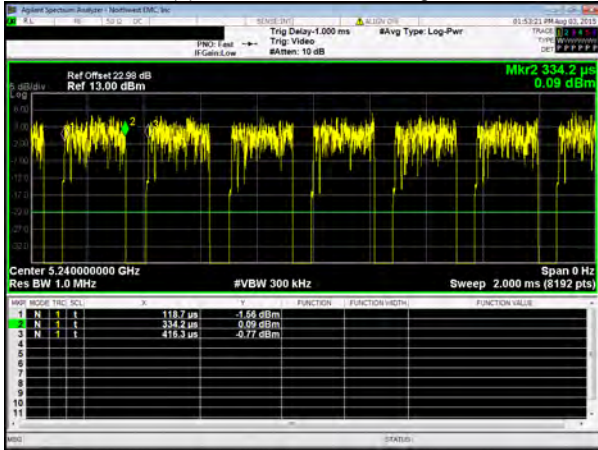
| | |
|------------------|------------|
| Pulse Width | 215.867 us |
| Period | 292.3 us |
| Number of Pulses | 1 |
| Value (%) | 73.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 20 MHz, High Channel 5240 MHz



| | |
|------------------|------------|
| Pulse Width | 215.523 us |
| Period | 297.6 us |
| Number of Pulses | 1 |
| Value (%) | 72.4 |
| Limit (%) | N/A |
| Results | N/A |

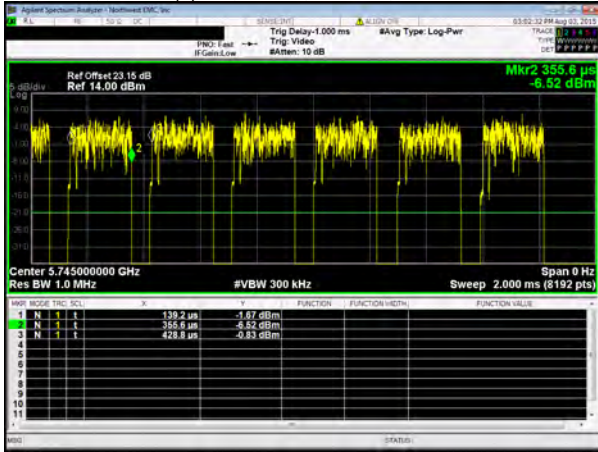
Chain C, 802.11(n) HT, MCS7, 20 MHz, High Channel 5240 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

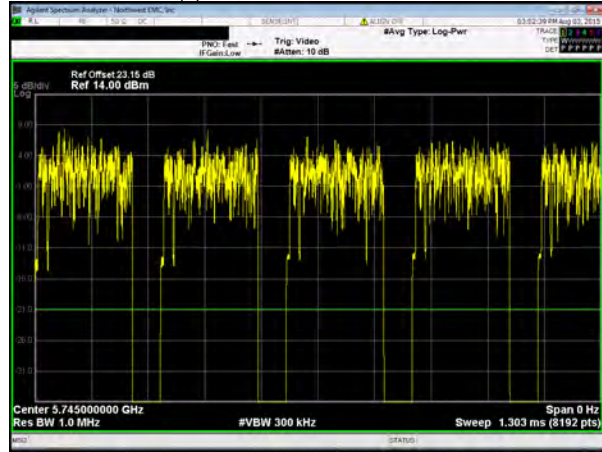
DUTY CYCLE

Chain C, 802.11(n) HT, MCS7, 20 MHz, Low Channel 5745 MHz



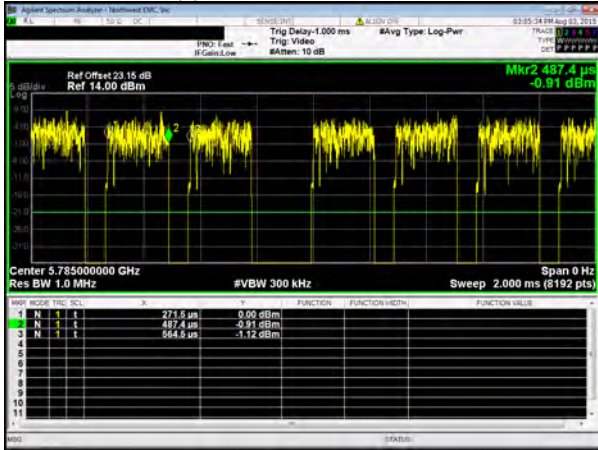
| | |
|------------------|------------|
| Pulse Width | 216.356 us |
| Period | 289.6 us |
| Number of Pulses | 1 |
| Value (%) | 74.7 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 20 MHz, Low Channel 5745 MHz



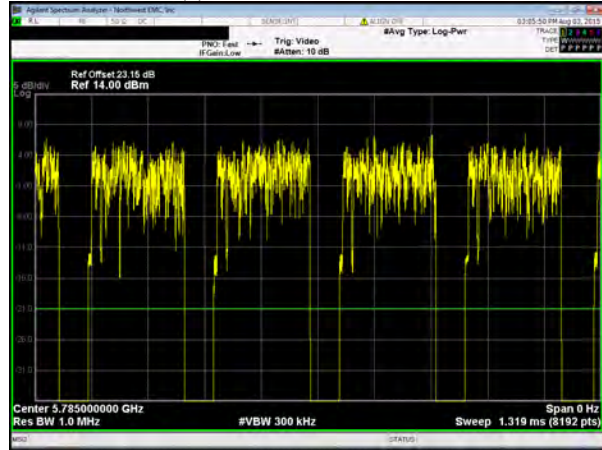
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|------------|
| Pulse Width | 215.867 us |
| Period | 293 us |
| Number of Pulses | 1 |
| Value (%) | 73.7 |
| Limit (%) | N/A |
| Results | N/A |

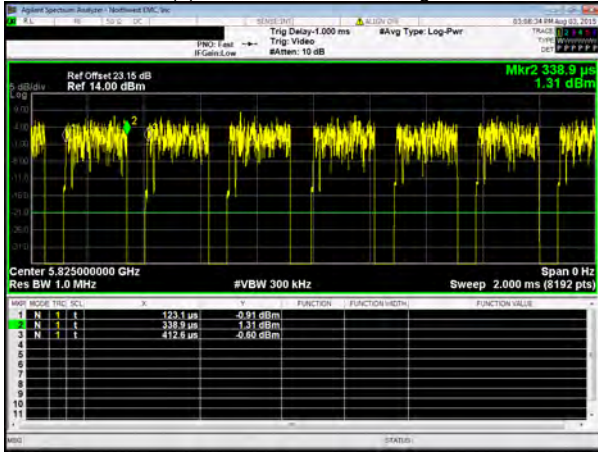
Chain C, 802.11(n) HT, MCS7, 20 MHz, Mid Channel 5785 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

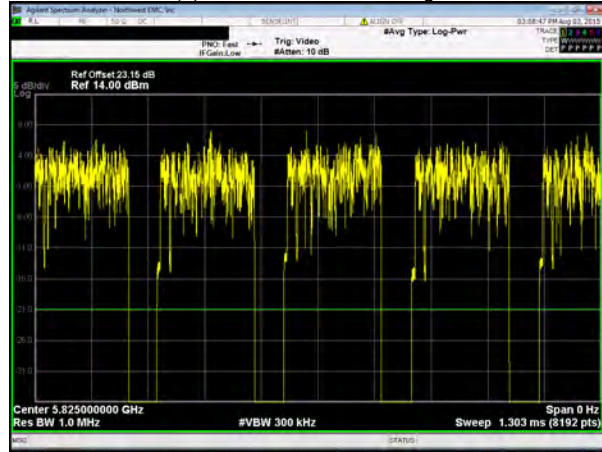
DUTY CYCLE

Chain C, 802.11(n) HT, MCS7, 20 MHz, High Channel 5825 MHz



| | |
|------------------|------------|
| Pulse Width | 215.767 us |
| Period | 289.5 us |
| Number of Pulses | 1 |
| Value (%) | 74.5 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 20 MHz, High Channel 5825 MHz



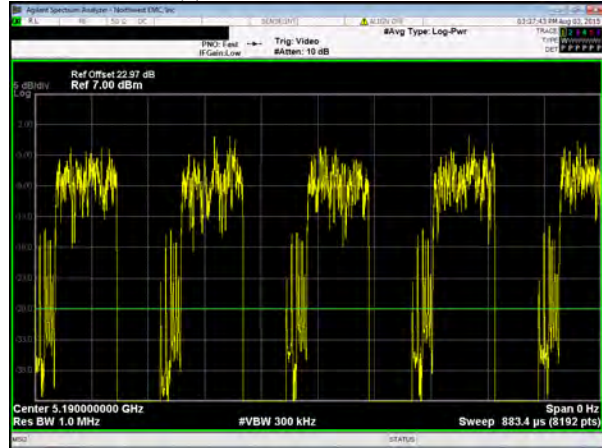
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 40 MHz, Low Channel 5190 MHz



| | |
|------------------|-----------|
| Pulse Width | 93.735 us |
| Period | 196.3 us |
| Number of Pulses | 1 |
| Value (%) | 47.8 |
| Limit (%) | N/A |
| Results | N/A |

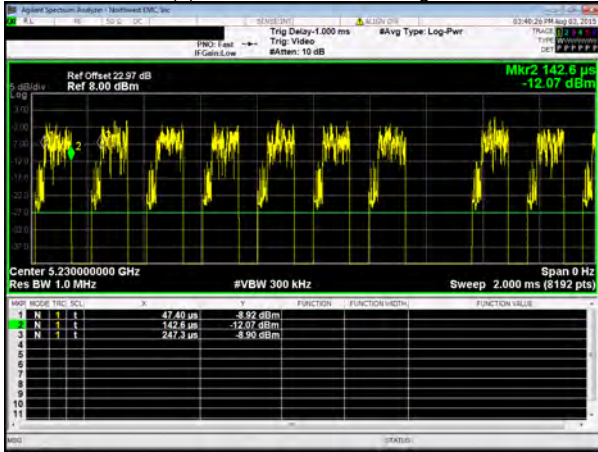
Chain C, 802.11(n) HT, MCS7, 40 MHz, Low Channel 5190 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

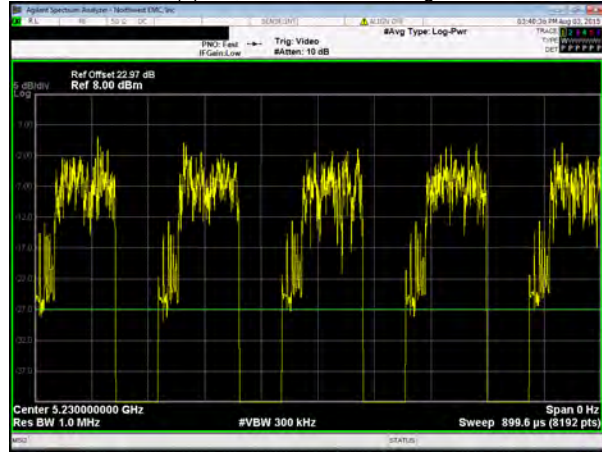
DUTY CYCLE

Chain C, 802.11(n) HT, MCS7, 40 MHz, High Channel 5230 MHz



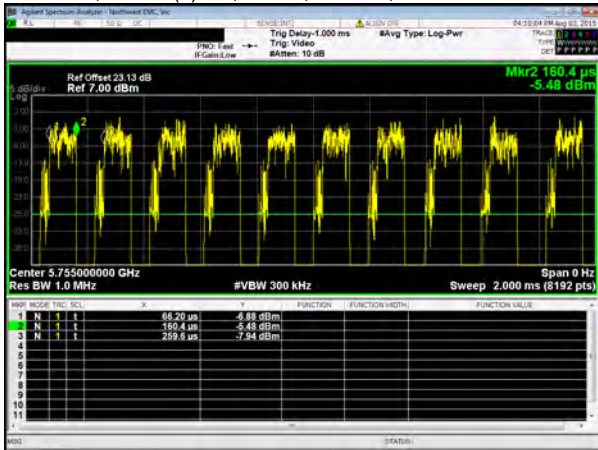
| | |
|------------------|-----------|
| Pulse Width | 95.212 us |
| Period | 199.9 us |
| Number of Pulses | 1 |
| Value (%) | 47.6 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 40 MHz, High Channel 5230 MHz



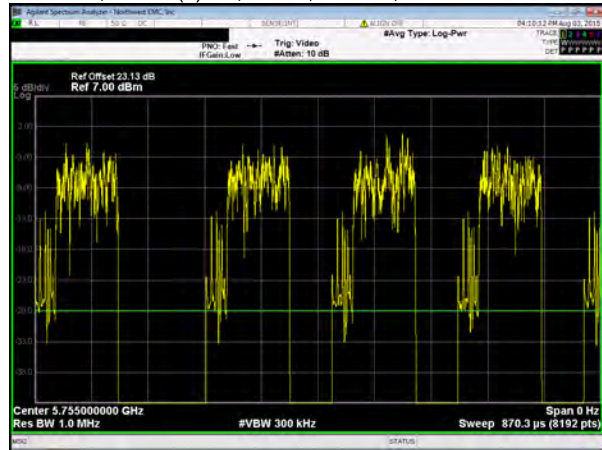
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 40 MHz, Low Channel 5755 MHz



| | |
|------------------|-----------|
| Pulse Width | 94.223 us |
| Period | 193.4 us |
| Number of Pulses | 1 |
| Value (%) | 48.7 |
| Limit (%) | N/A |
| Results | N/A |

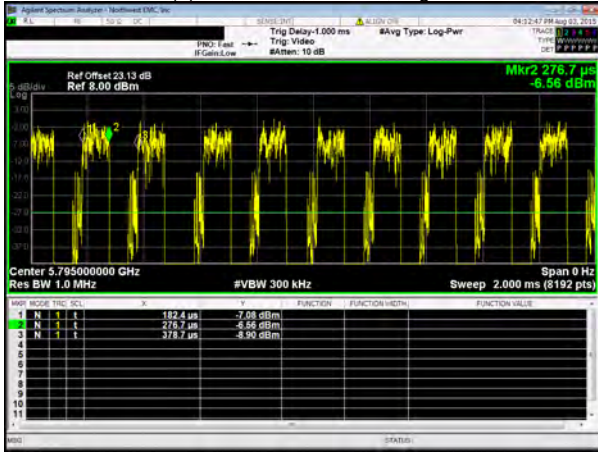
Chain C, 802.11(n) HT, MCS7, 40 MHz, Low Channel 5755 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

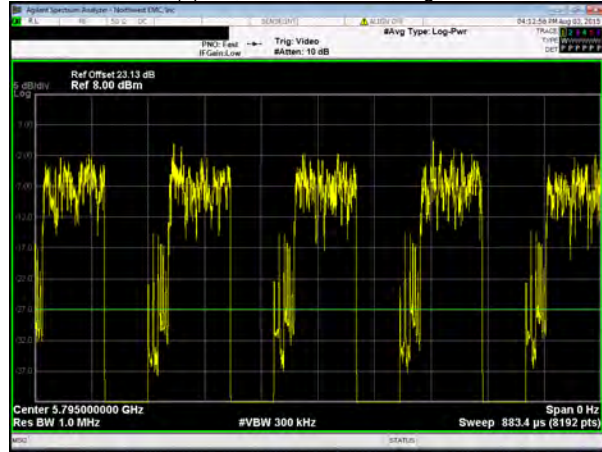
DUTY CYCLE

Chain C, 802.11(n) HT, MCS7, 40 MHz, High Channel 5795 MHz



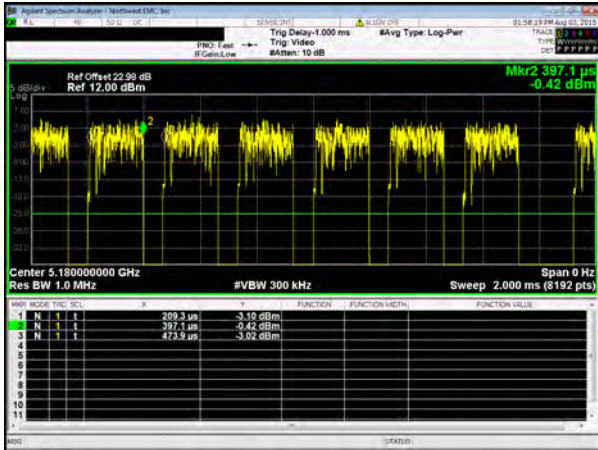
| | |
|------------------|-----------|
| Pulse Width | 94.267 us |
| Period | 196.3 us |
| Number of Pulses | 1 |
| Value (%) | 48 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(n) HT, MCS7, 40 MHz, High Channel 5795 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5180 MHz



| | |
|------------------|------------|
| Pulse Width | 187.767 us |
| Period | 264.6 us |
| Number of Pulses | 1 |
| Value (%) | 71 |
| Limit (%) | N/A |
| Results | N/A |

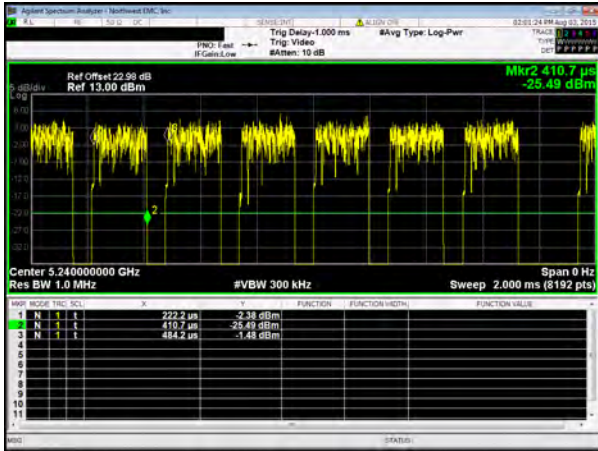
Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5180 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 4 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High Channel 5240 MHz



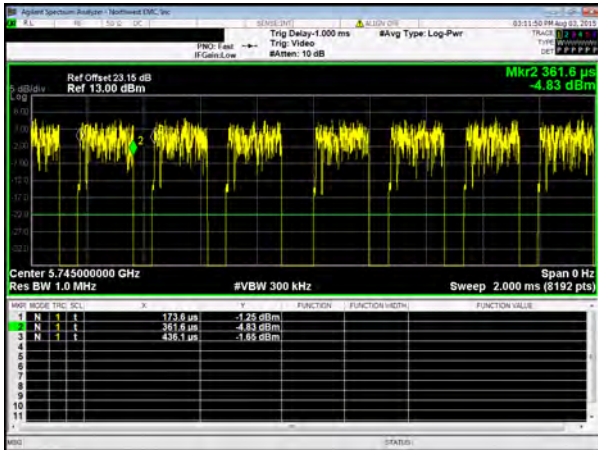
| | |
|------------------|----------|
| Pulse Width | 188.5 us |
| Period | 262 us |
| Number of Pulses | 1 |
| Value (%) | 71.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High Channel 5240 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 4 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5745 MHz



| | |
|------------------|------------|
| Pulse Width | 188.012 us |
| Period | 262.5 us |
| Number of Pulses | 1 |
| Value (%) | 71.6 |
| Limit (%) | N/A |
| Results | N/A |

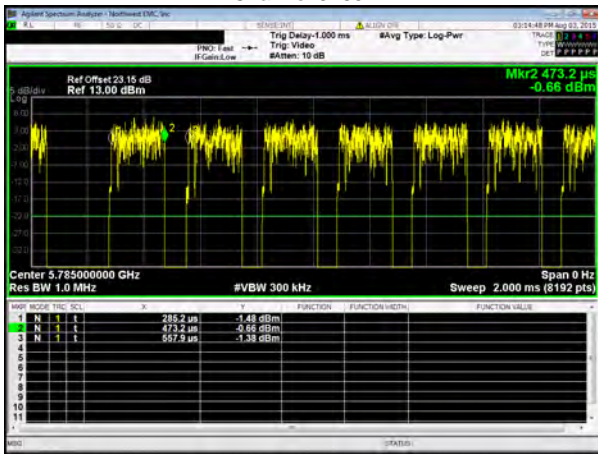
Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Low Channel 5745 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

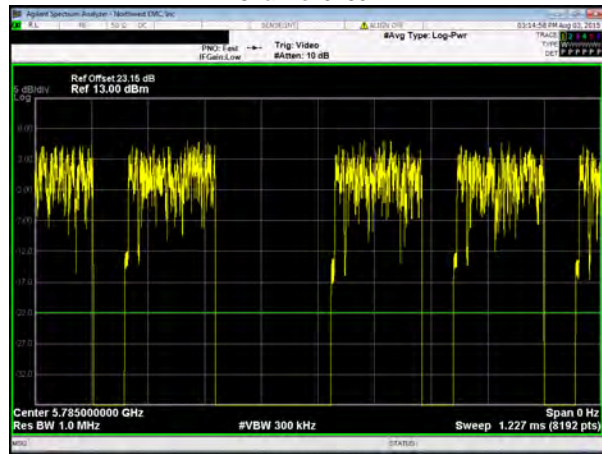
DUTY CYCLE

Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Mid Channel 5785 MHz



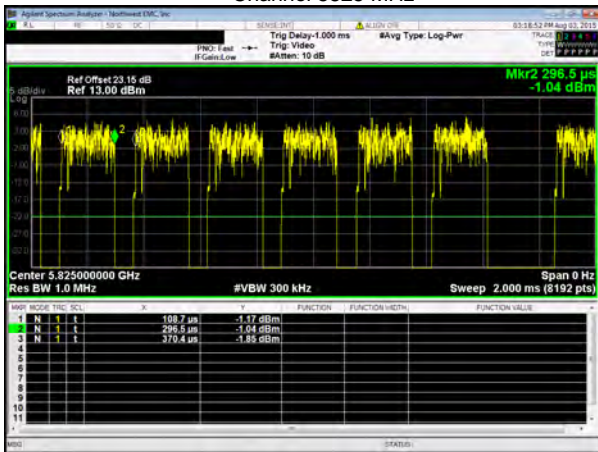
| | |
|------------------|------------|
| Pulse Width | 188.012 us |
| Period | 272.7 us |
| Number of Pulses | 1 |
| Value (%) | 68.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, Mid Channel 5785 MHz



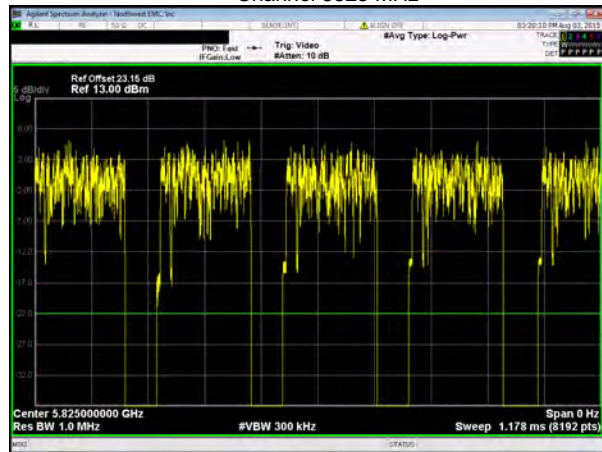
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High Channel 5825 MHz



| | |
|------------------|------------|
| Pulse Width | 187.767 us |
| Period | 261.7 us |
| Number of Pulses | 1 |
| Value (%) | 71.7 |
| Limit (%) | N/A |
| Results | N/A |

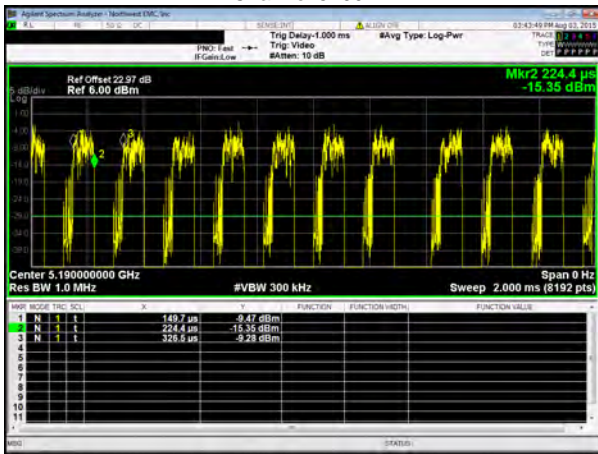
Chain C, 802.11(ac) VHT, MCS8 (256-QAM), 20 MHz, High Channel 5825 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

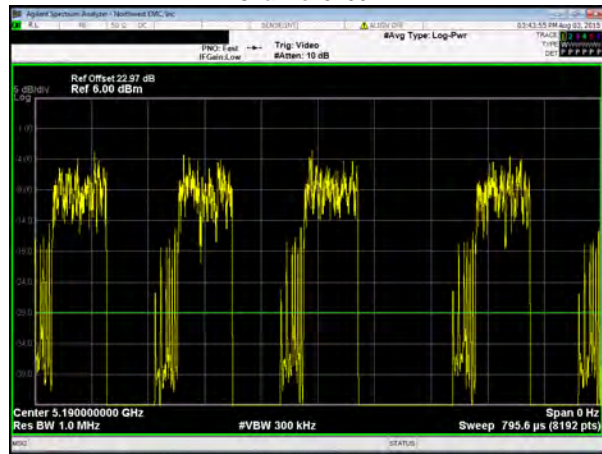
DUTY CYCLE

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5190 MHz



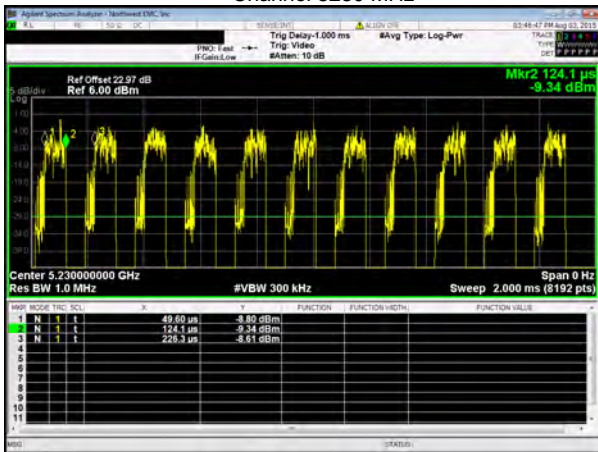
| | |
|------------------|-----------|
| Pulse Width | 74.712 us |
| Period | 176.8 us |
| Number of Pulses | 1 |
| Value (%) | 42.3 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5190 MHz



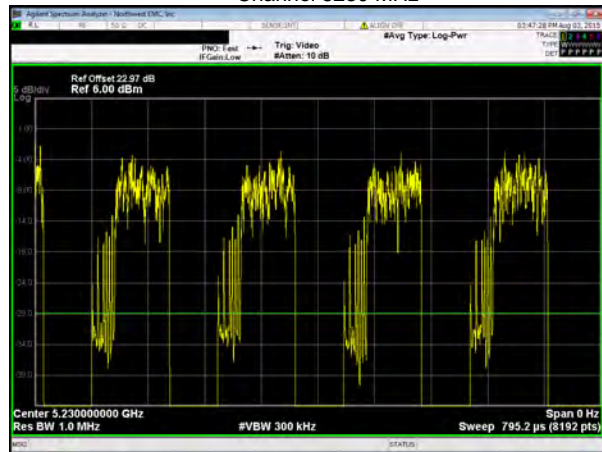
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5230 MHz



| | |
|------------------|-----------|
| Pulse Width | 74.467 us |
| Period | 176.7 us |
| Number of Pulses | 1 |
| Value (%) | 42.1 |
| Limit (%) | N/A |
| Results | N/A |

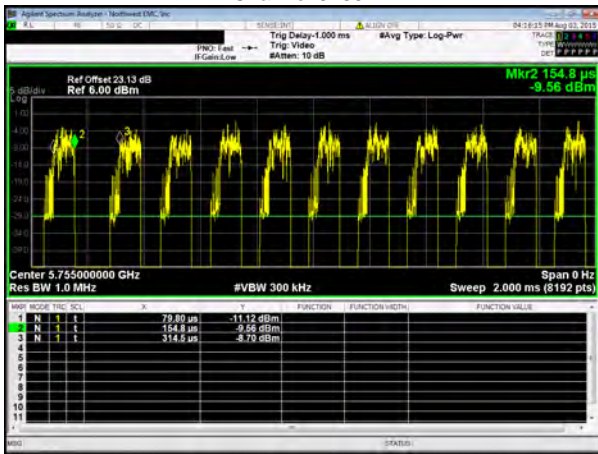
Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5230 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

DUTY CYCLE

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5755 MHz



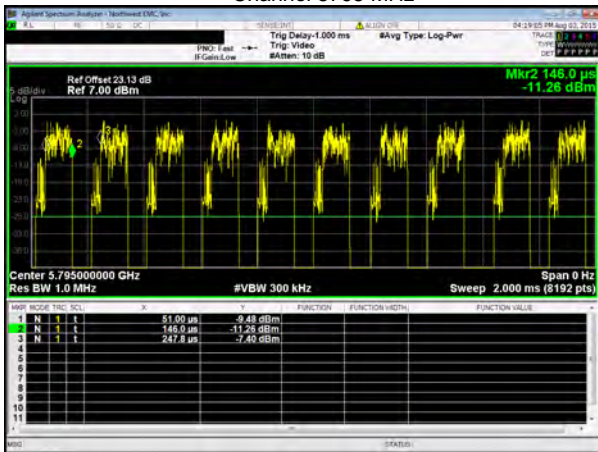
| | |
|------------------|-----------|
| Pulse Width | 74.967 us |
| Period | 234.7 us |
| Number of Pulses | 1 |
| Value (%) | 31.9 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, Low
Channel 5755 MHz



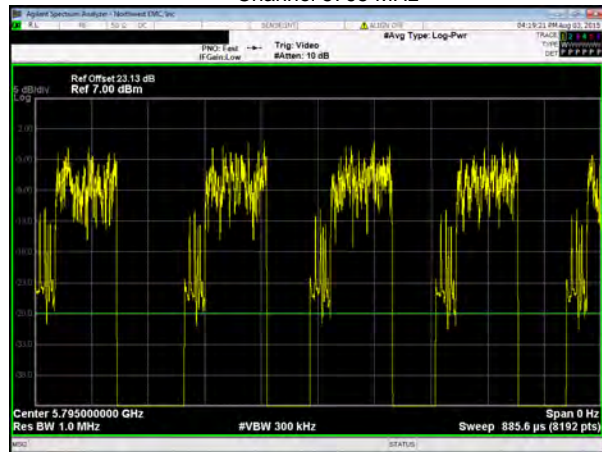
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 7 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5795 MHz



| | |
|------------------|-----------|
| Pulse Width | 94.967 us |
| Period | 196.8 us |
| Number of Pulses | 1 |
| Value (%) | 48.3 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 40 MHz, High
Channel 5795 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

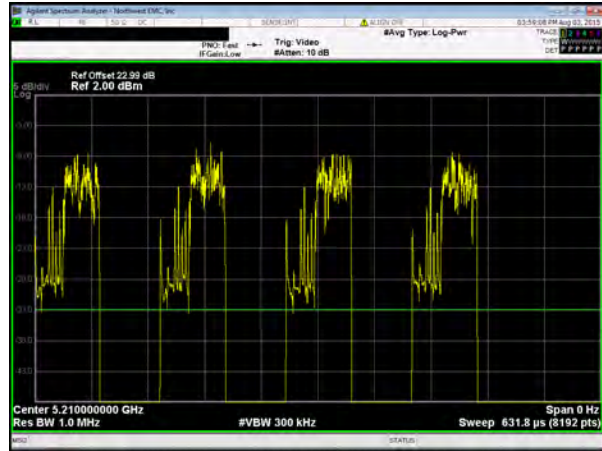
DUTY CYCLE

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low Channel 5210 MHz



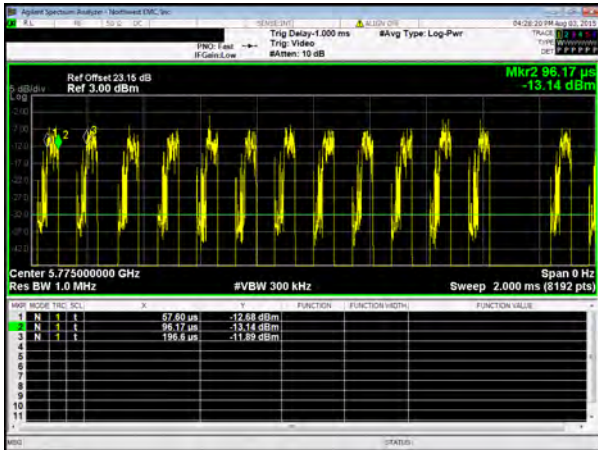
| | |
|------------------|-----------|
| Pulse Width | 52.023 us |
| Period | 140.4 us |
| Number of Pulses | 1 |
| Value (%) | 37.1 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low Channel 5210 MHz



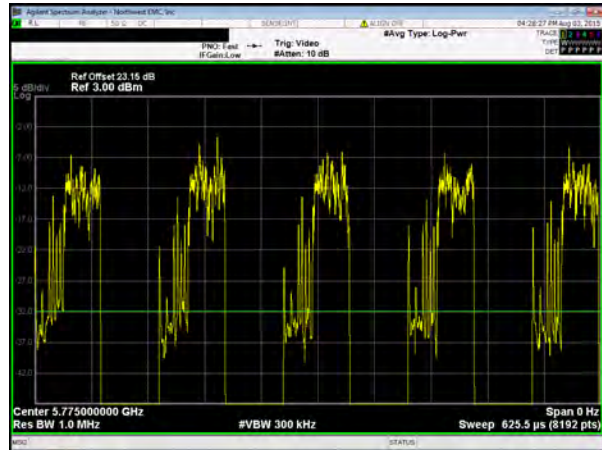
| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 5 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low Channel 5775 MHz



| | |
|------------------|-----------|
| Pulse Width | 38.568 us |
| Period | 139 us |
| Number of Pulses | 1 |
| Value (%) | 27.7 |
| Limit (%) | N/A |
| Results | N/A |

Chain C, 802.11(ac) VHT, MCS9 (256-QAM), 80 MHz, Low Channel 5775 MHz



| | |
|------------------|-----|
| Pulse Width | N/A |
| Period | N/A |
| Number of Pulses | 6 |
| Value (%) | N/A |
| Limit (%) | N/A |
| Results | N/A |