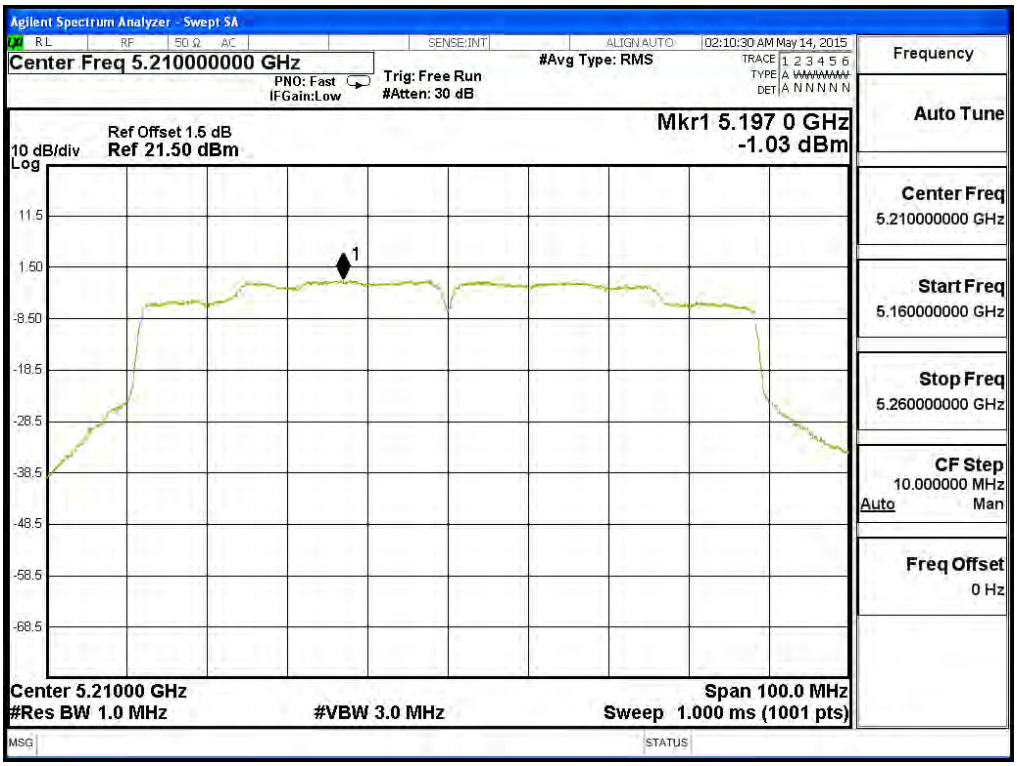
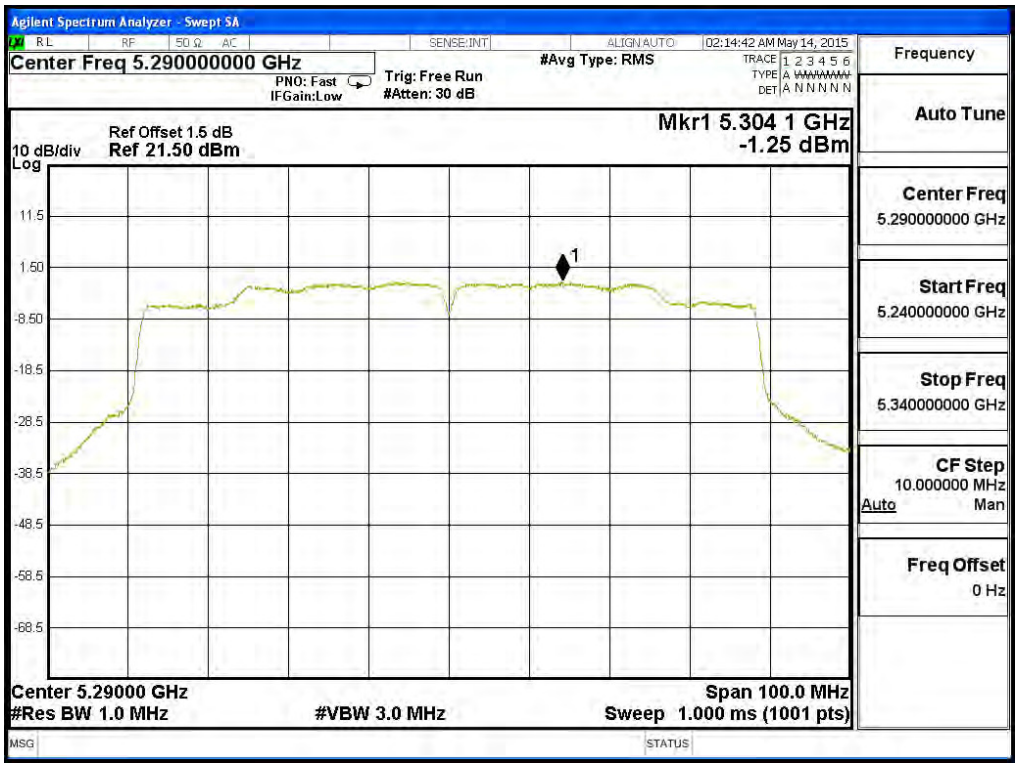
**Maximum conducted output power:**

**Channel 42 – Chain A**



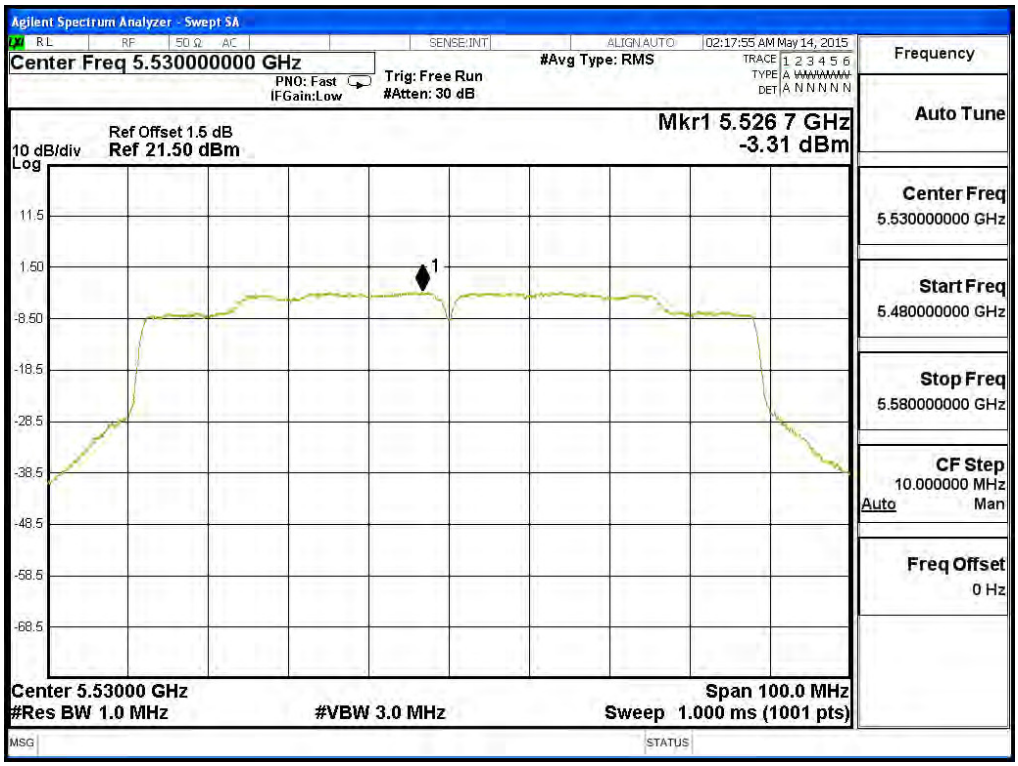

**Maximum conducted output power:**

**Channel 58 – Chain A**



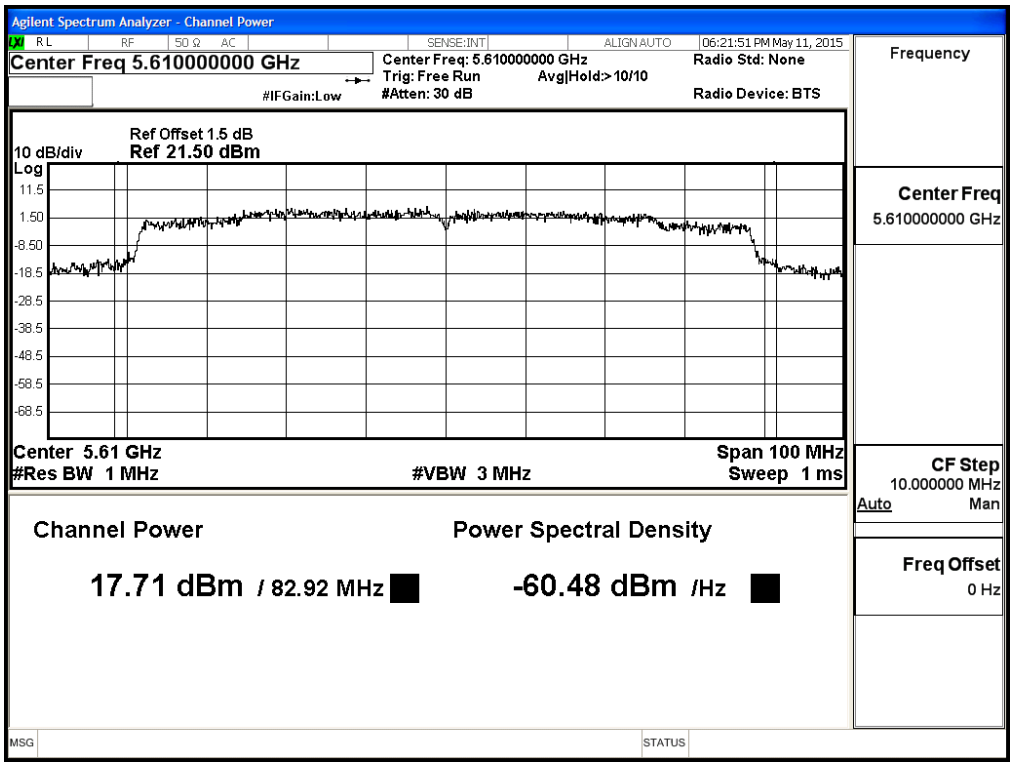
**Maximum conducted output power:**

**Channel 106 – Chain A**



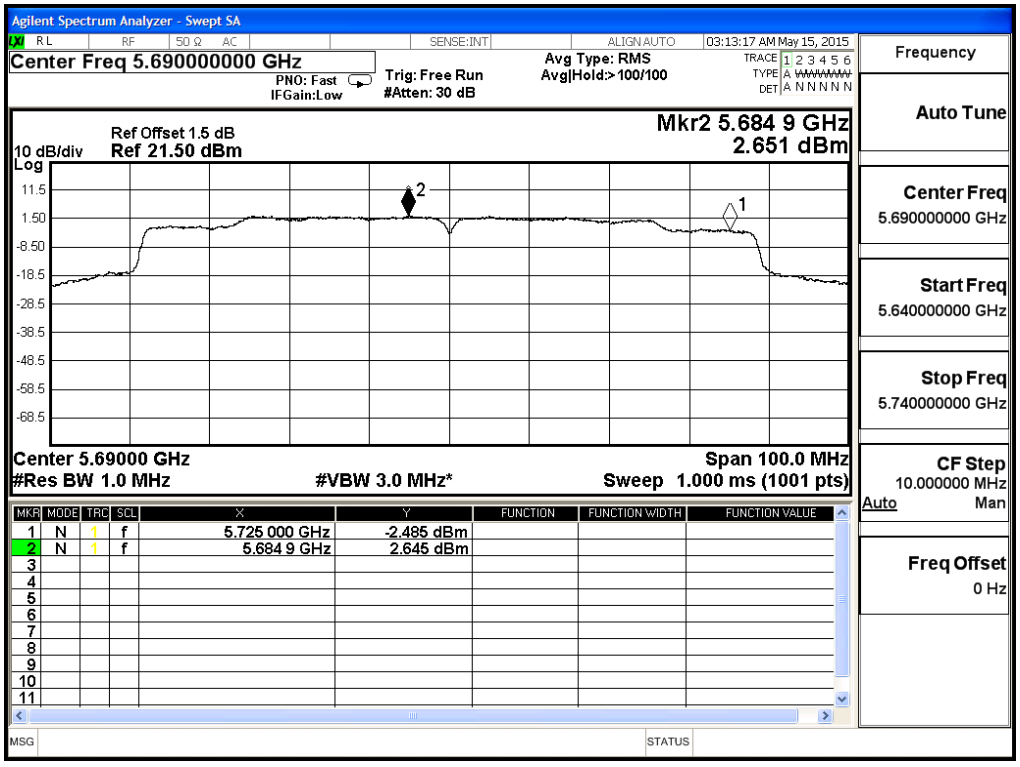

**Maximum conducted output power:**

**Channel 122 – Chain A**



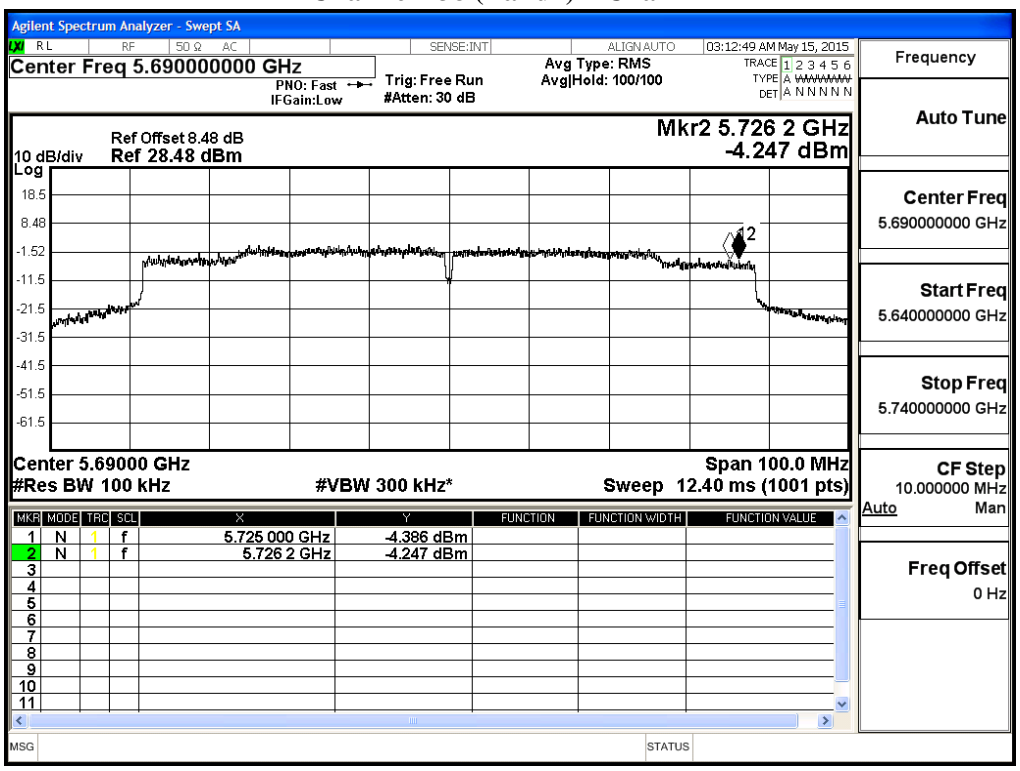
**Maximum conducted output power:**

**Channel 138 (Band3) – Chain A**



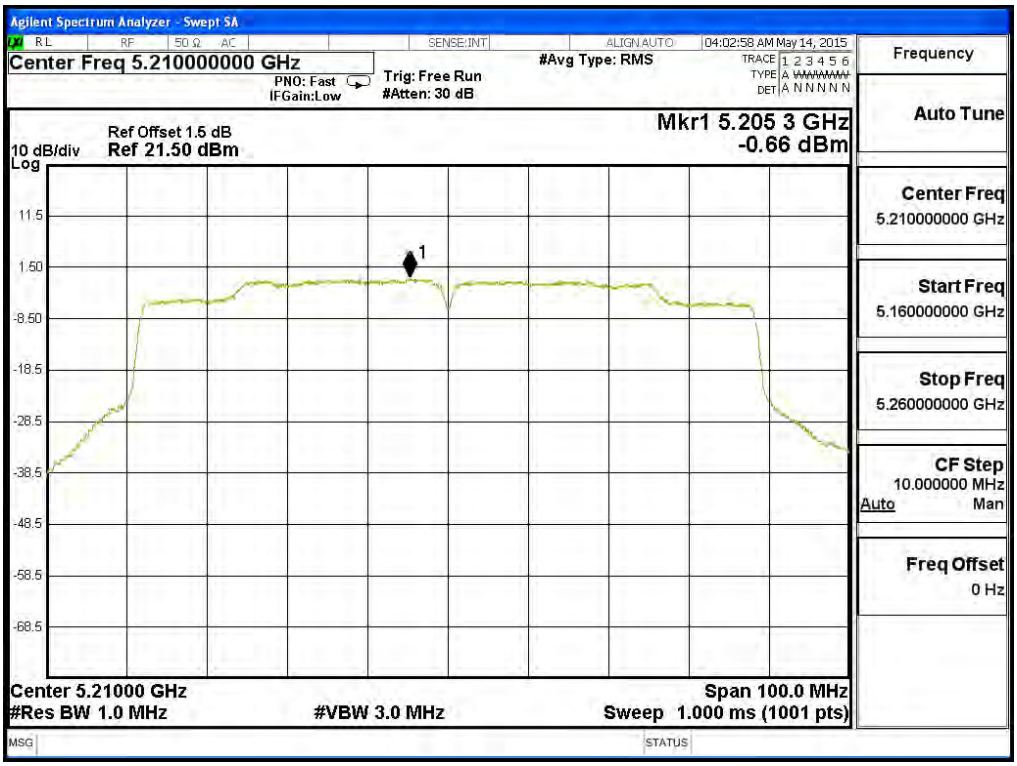

**Maximum conducted output power:**

**Channel 138 (Band4) – Chain A**



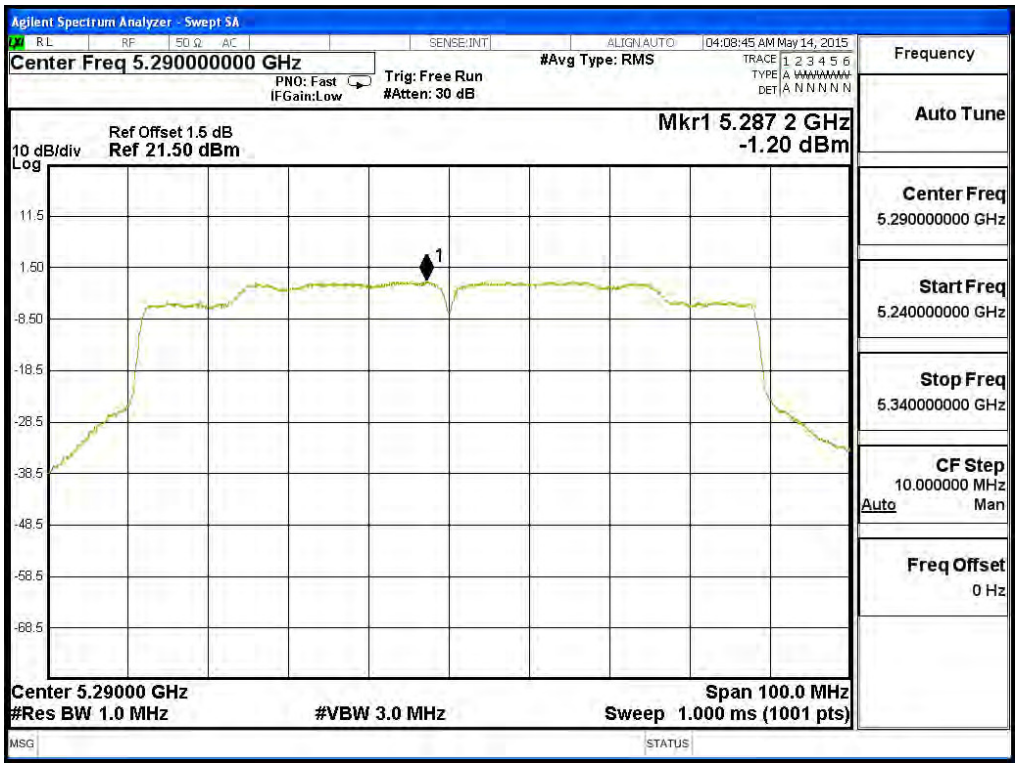
**Maximum conducted output power:**

**Channel 42 – Chain B**



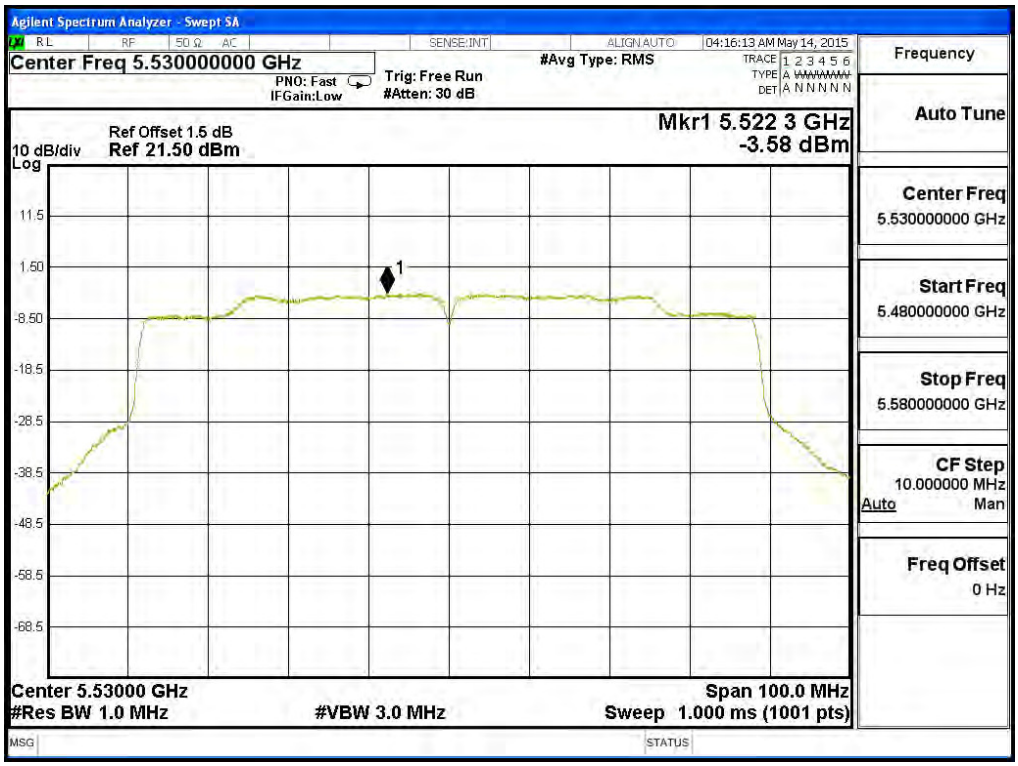

**Maximum conducted output power:**

**Channel 58 – Chain B**



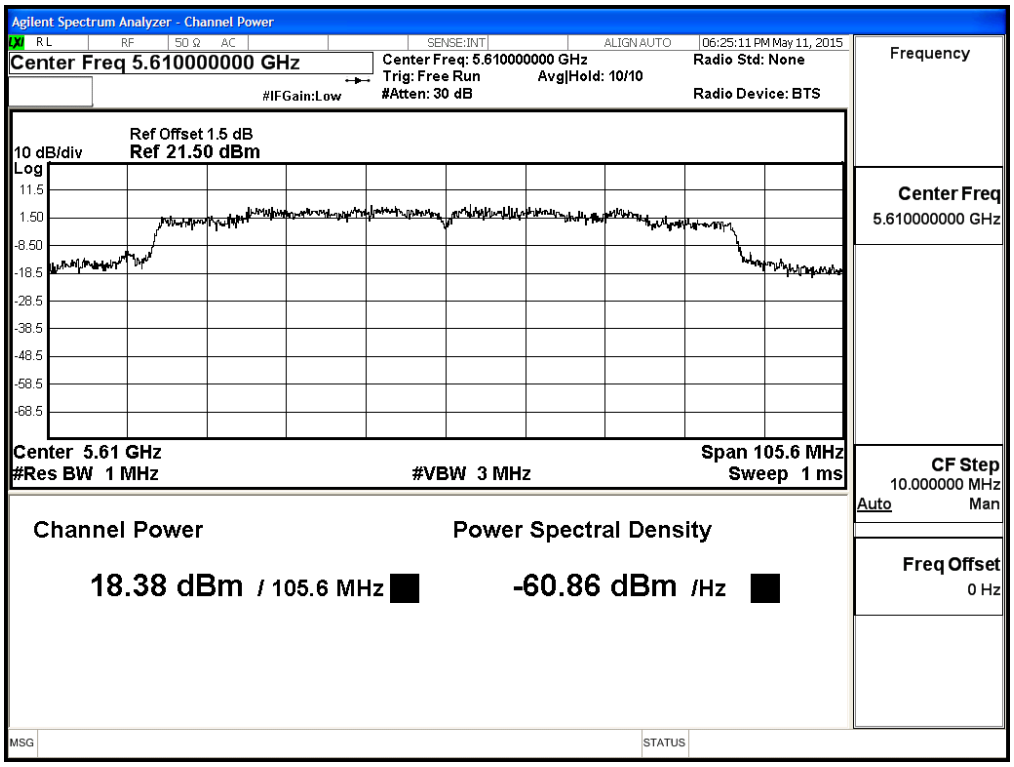
**Maximum conducted output power:**

**Channel 106 – Chain B**



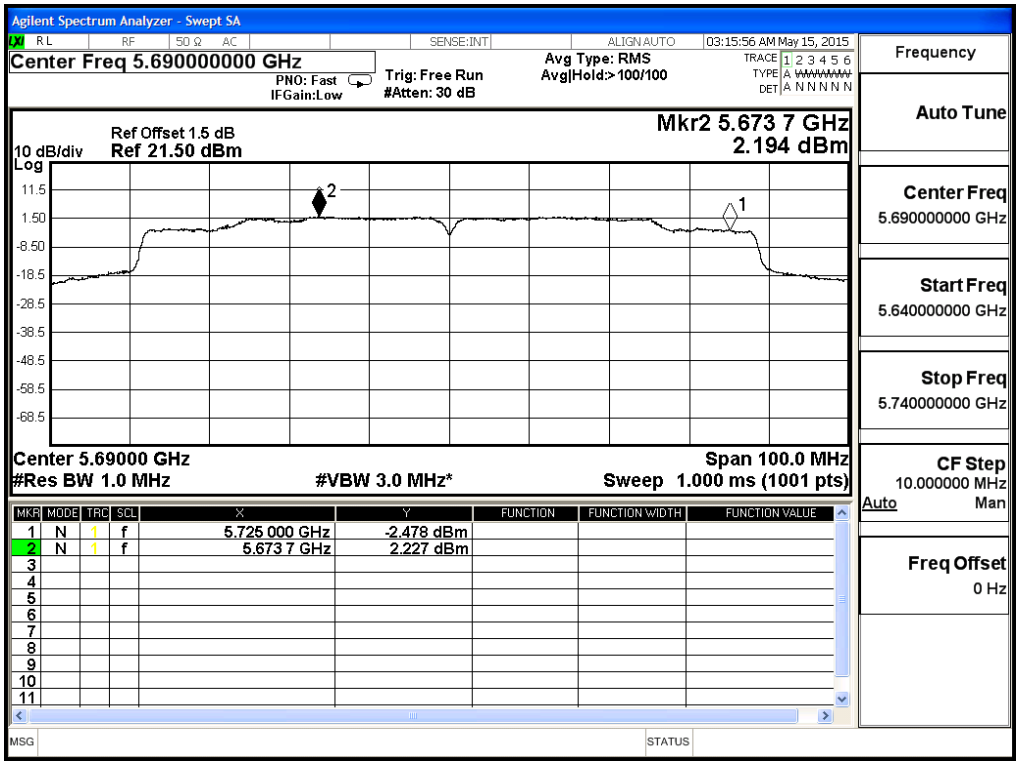

**Maximum conducted output power:**

**Channel 122 – Chain B**



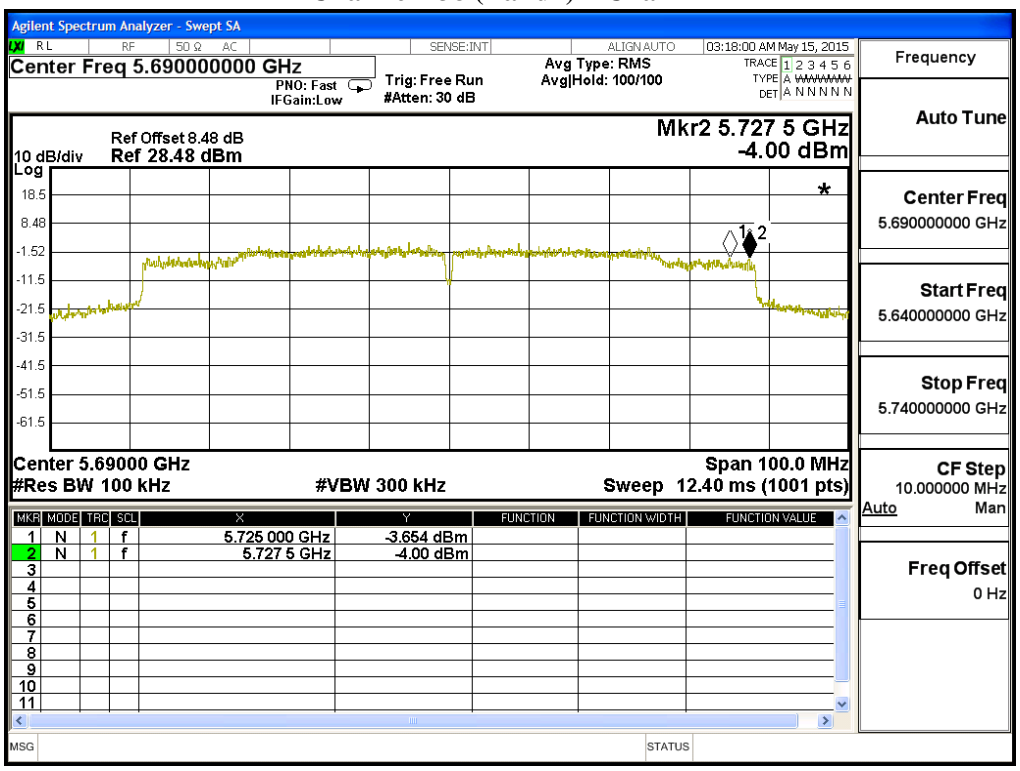
**Maximum conducted output power:**

**Channel 138 (Band3) – Chain B**




**Maximum conducted output power:**

**Channel 138 (Band4) – Chain B**



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11n-20BW 14.4Mbps)

**CHAIN A**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | Required Limit |
| | | HT0 | HT1 | HT2 | HT3 | HT4 | HT5 | HT6 | HT7 | |
| | | Measurement Level (dBm) | | | | | | | | |
| 36 | 5180 | 18.75 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 44 | 5220 | 18.18 | 18.06 | 17.96 | 17.84 | 17.76 | 17.66 | 17.53 | 17.48 | <24dBm |
| 48 | 5240 | 18.16 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 52 | 5260 | 18.34 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 60 | 5300 | 18.15 | 18.04 | 17.93 | 17.84 | 17.73 | 17.68 | 17.55 | 17.42 | <24dBm |
| 64 | 5320 | 17.43 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 100 | 5500 | 17.18 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 116 | 5580 | 17.96 | 17.84 | 17.76 | 17.63 | 17.58 | 17.49 | 17.32 | 17.22 | <24dBm |
| 140 | 5700 | 18.09 | -- | -- | -- | -- | -- | -- | -- | <24dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**CHAIN B**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | Required Limit |
| | | HT0 | HT1 | HT2 | HT3 | HT4 | HT5 | HT6 | HT7 | |
| | | Measurement Level (dBm) | | | | | | | | |
| 36 | 5180 | 18.22 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 44 | 5220 | 18.16 | 18.05 | 17.93 | 17.84 | 17.75 | 17.63 | 17.54 | 17.42 | <24dBm |
| 48 | 5240 | 17.85 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 52 | 5260 | 17.86 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 60 | 5300 | 17.87 | 17.76 | 17.69 | 17.54 | 17.42 | 17.38 | 17.22 | 17.18 | <24dBm |
| 64 | 5320 | 17.73 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 100 | 5500 | 17.51 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 116 | 5580 | 18.11 | 18.02 | 17.94 | 17.83 | 17.74 | 17.61 | 17.58 | 17.44 | <24dBm |
| 140 | 5700 | 18.01 | -- | -- | -- | -- | -- | -- | -- | <24dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**Maximum conducted output power Measurement:**

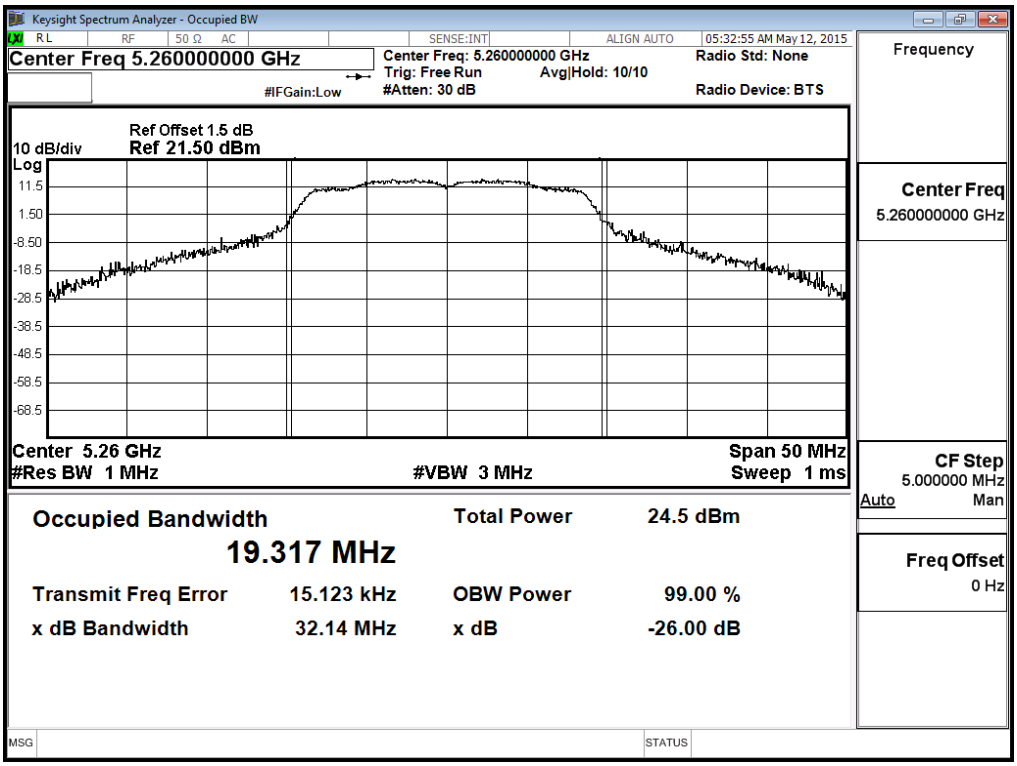
**(CHAIN A+ B)**

| Channel Number | Frequency (MHz) | 99% Bandwidth (MHz) | Chain A Power (dBm) | Chain B Power (dBm) | Duty Factor (dB) | Output Power (dBm) | Output Power Limit | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | (dBm) | dBm+10log(BW) |
| 36 | 5180 | -- | 18.75 | 18.22 | 0.09 | 21.59 | 24 | -- |
| 44 | 5220 | -- | 18.18 | 18.16 | 0.09 | 21.27 | 24 | -- |
| 48 | 5240 | -- | 18.16 | 17.85 | 0.09 | 21.11 | 24 | -- |
| 52 | 5260 | 19.317 | 18.34 | 17.86 | 0.09 | 21.21 | 24 | 23.86 |
| 60 | 5300 | 19.224 | 18.15 | 17.87 | 0.09 | 21.11 | 24 | 23.84 |
| 64 | 5320 | 18.919 | 17.43 | 17.73 | 0.09 | 20.68 | 24 | 23.77 |
| 100 | 5500 | 18.632 | 17.18 | 17.51 | 0.09 | 20.45 | 24 | 23.70 |
| 116 | 5580 | 18.722 | 17.96 | 18.11 | 0.09 | 21.14 | 24 | 23.72 |
| 140 | 5700 | 18.728 | 18.09 | 18.01 | 0.09 | 21.15 | 24 | 23.72 |

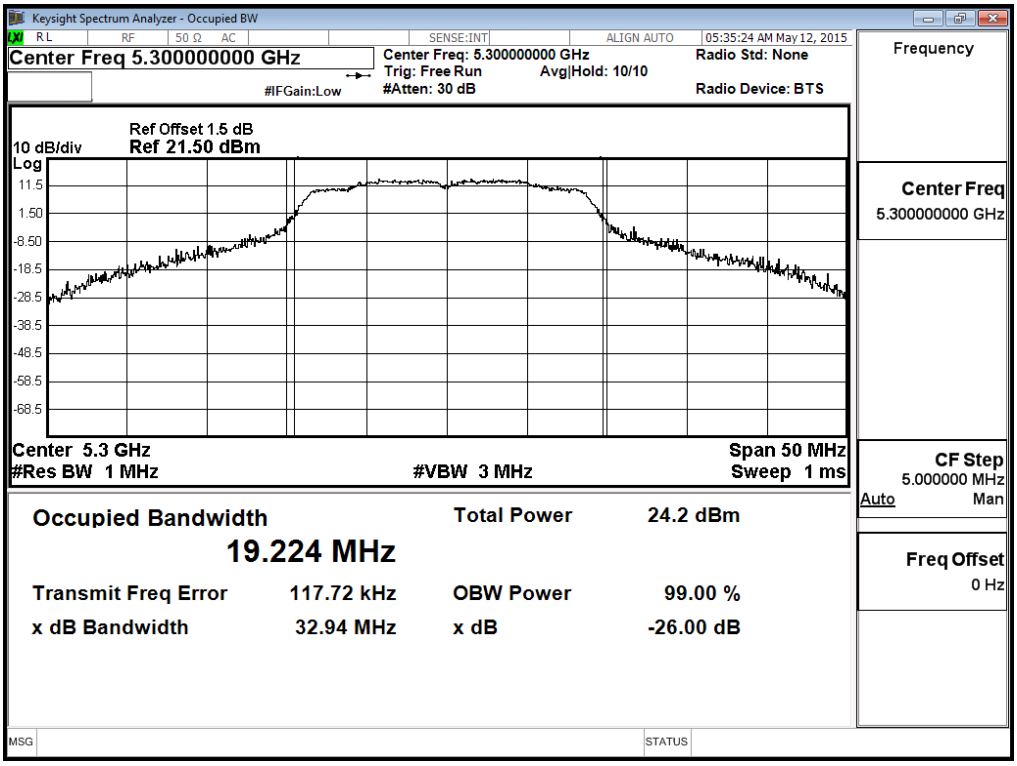
Note:

1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

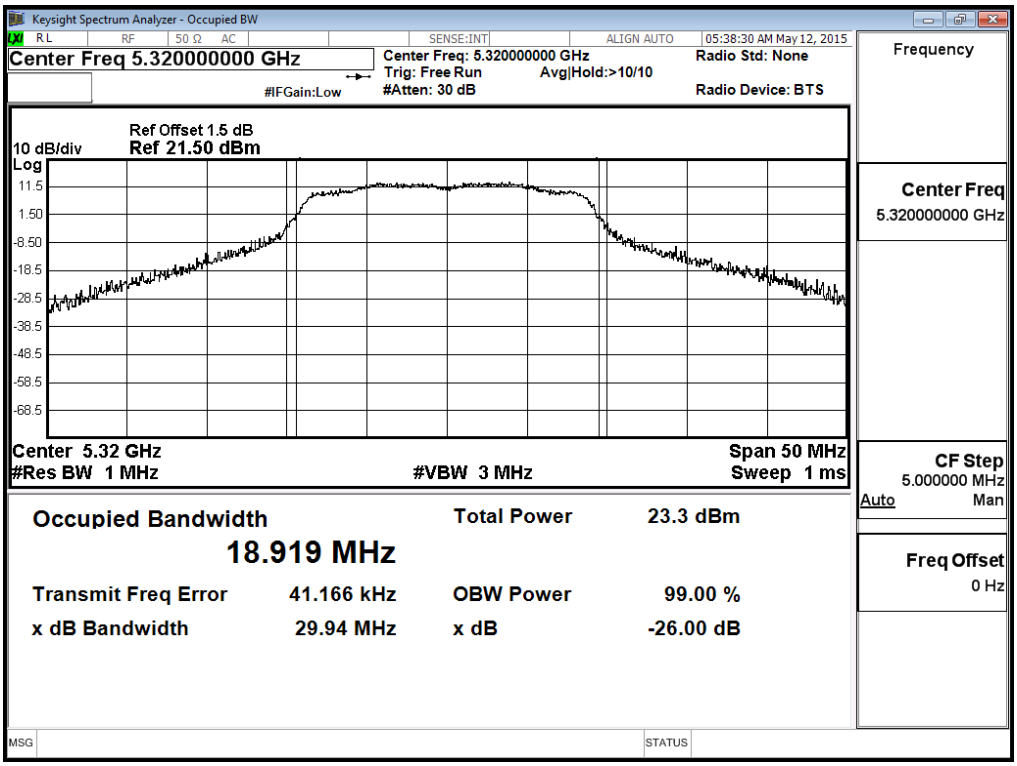
**99% Occupied Bandwidth:**
**Channel 52 -Chain A**



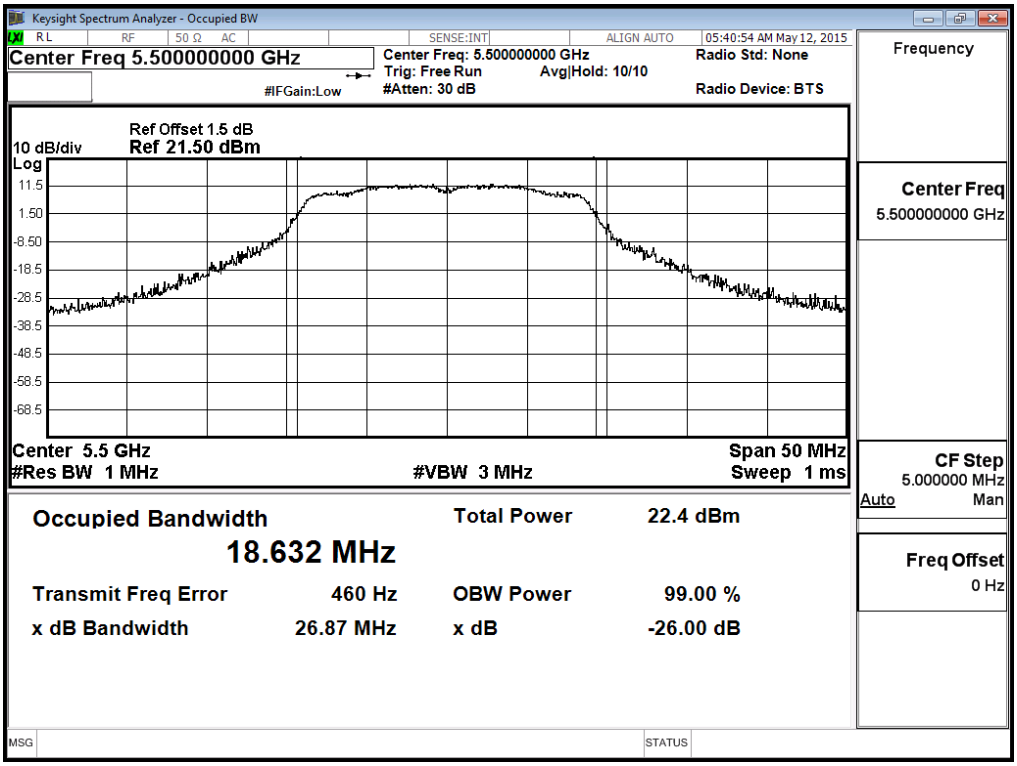

**Channel 60 -Chain A**



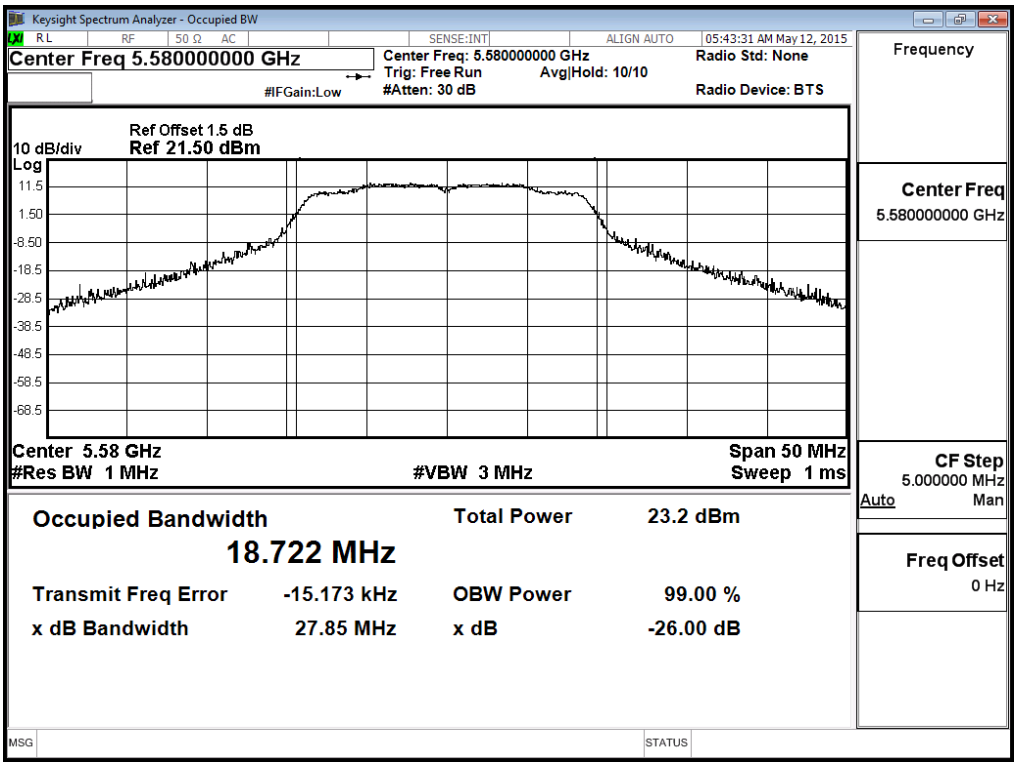
**Channel 64 -Chain A**



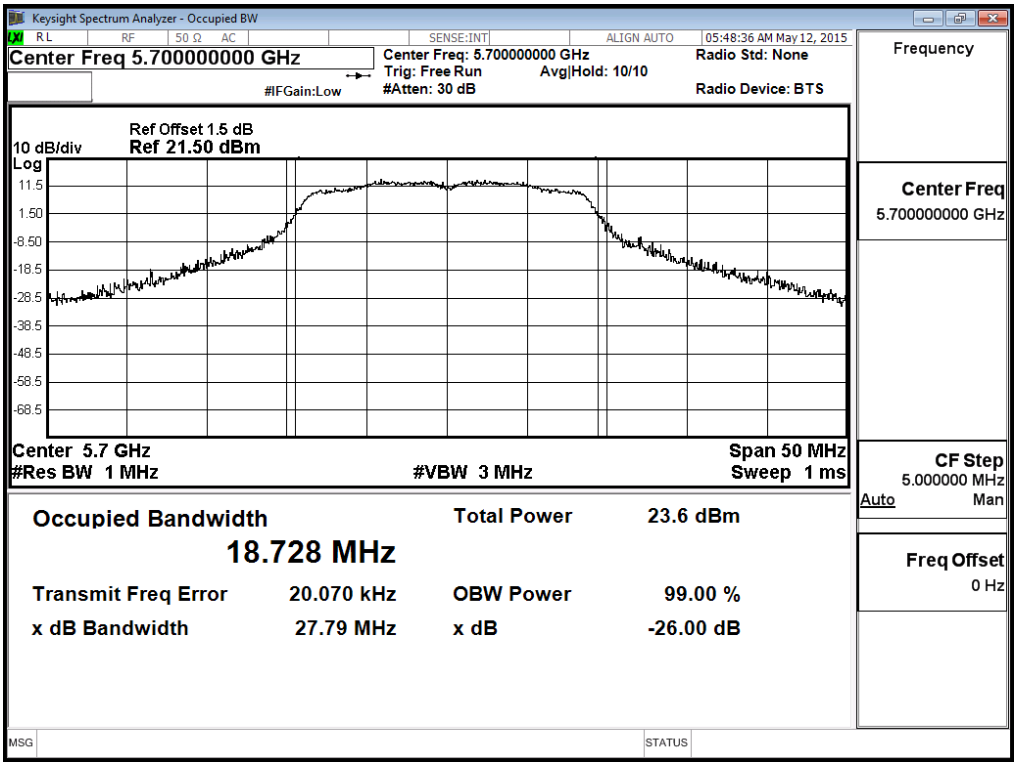

**Channel 100 -Chain A**



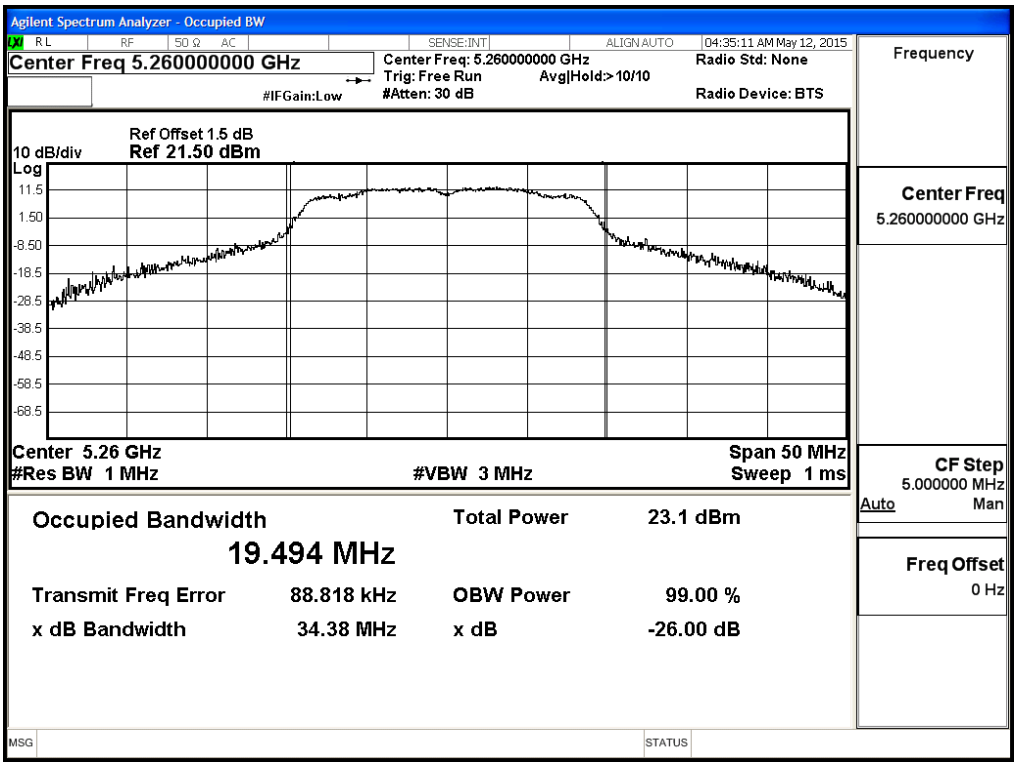
## Channel 116 -Chain A



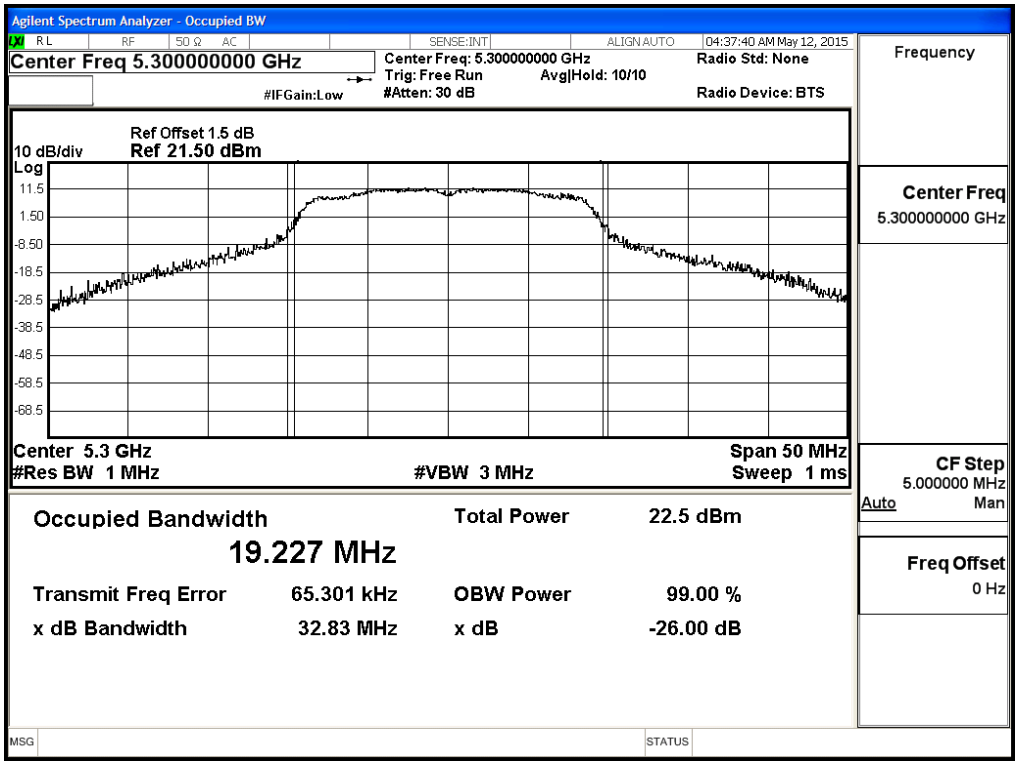

## Channel 140 -Chain A



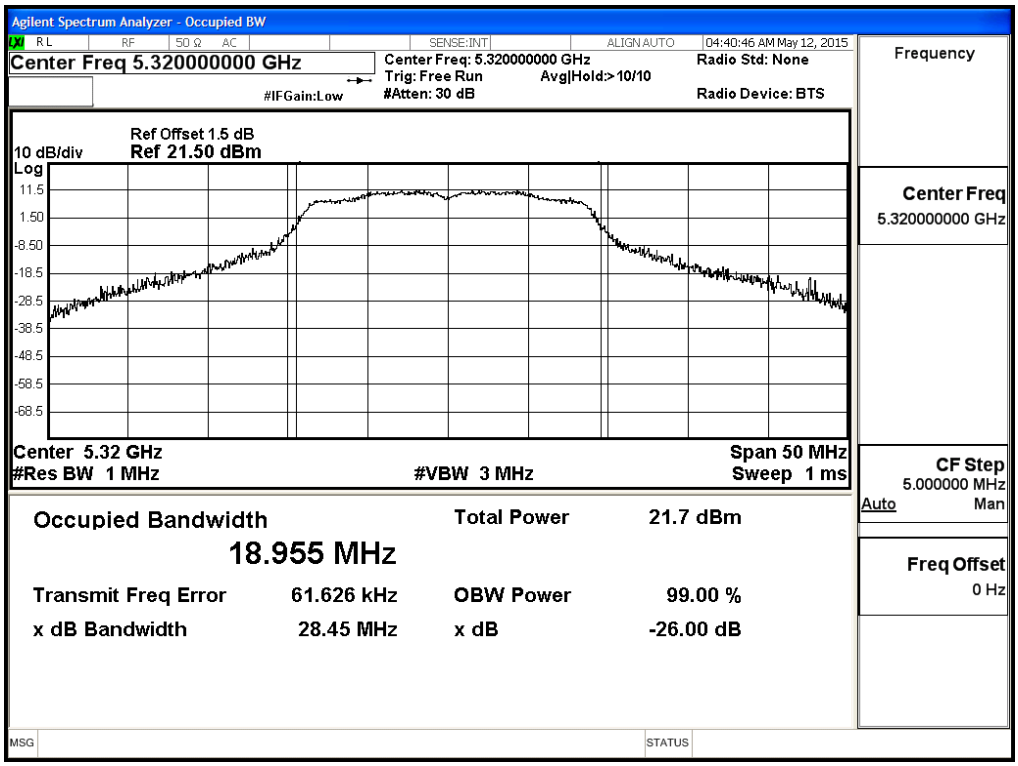
**99% Occupied Bandwidth:**
**Channel 52 -Chain B**



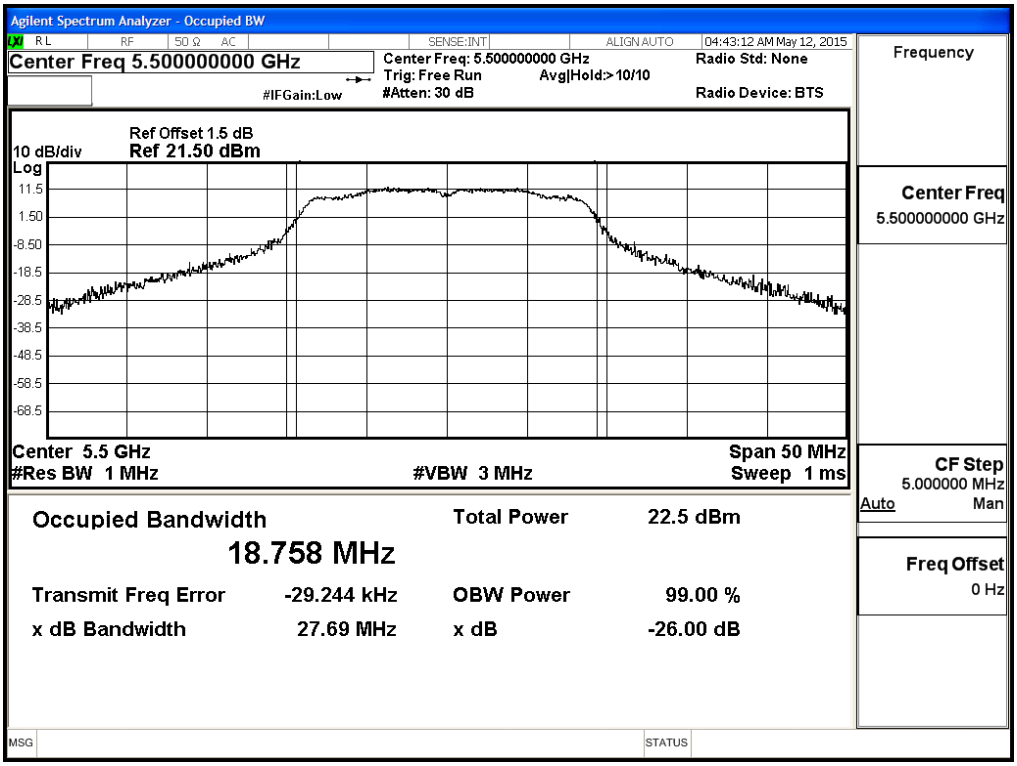

**Channel 60 -Chain B**



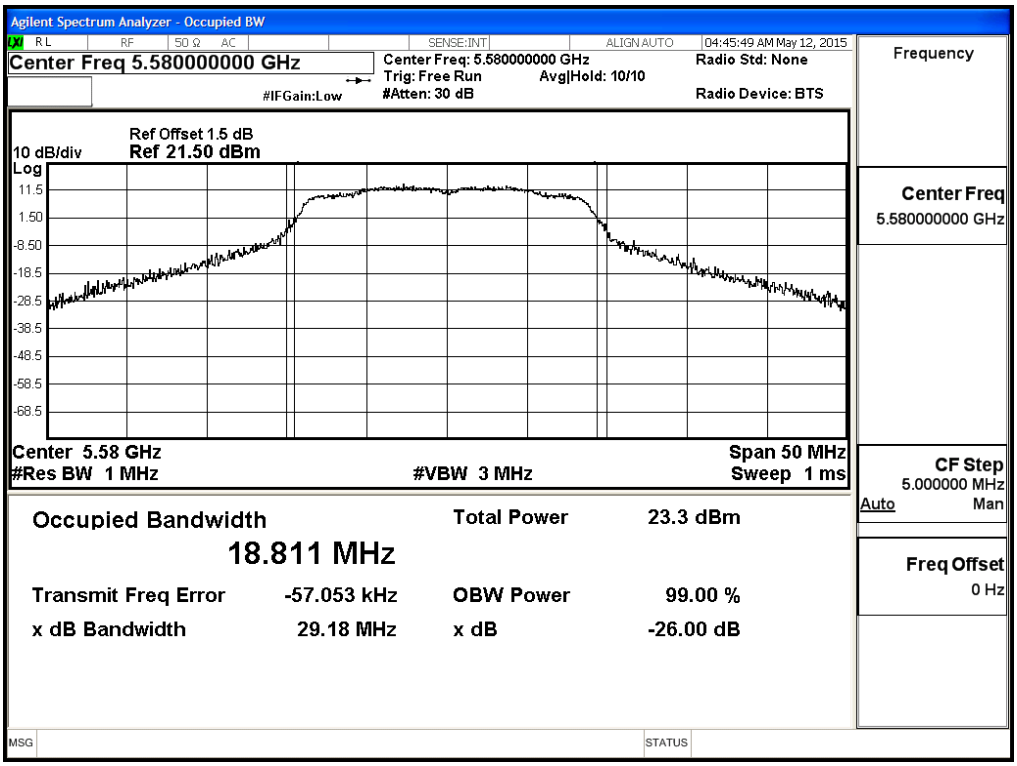
## Channel 64 -Chain B



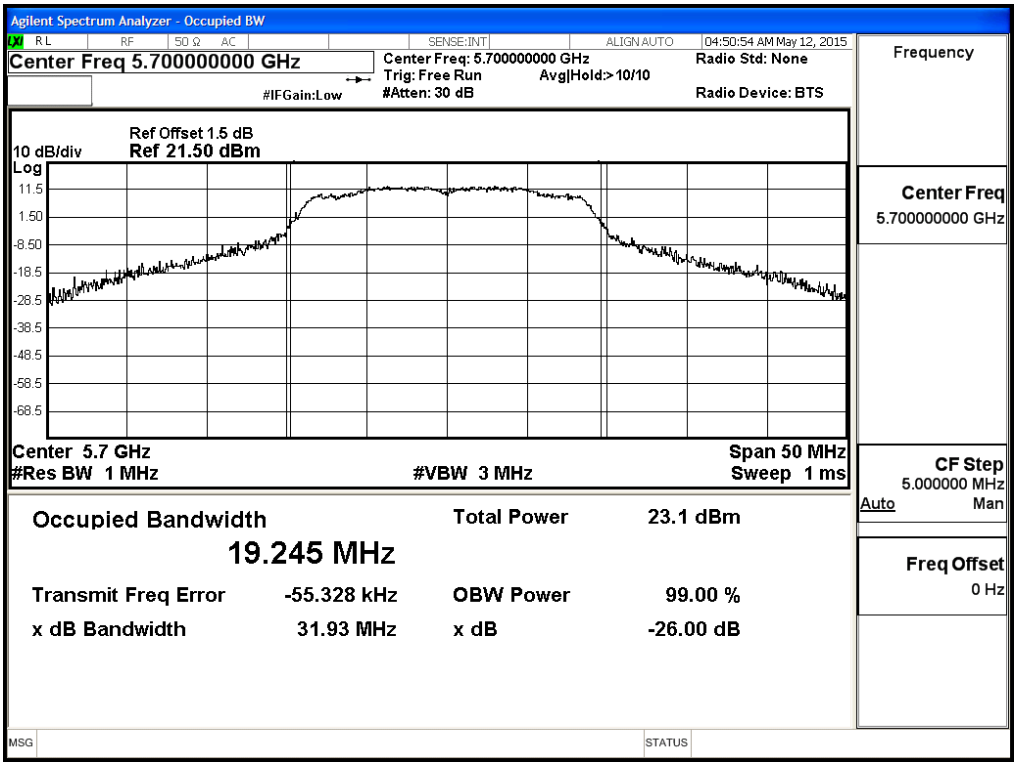

## Channel 100 -Chain B



## Channel 116 -Chain B




## Channel 140 -Chain B



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11n-40BW 30Mbps)

**CHAIN A**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | Required Limit |
| | | HT0 | HT1 | HT2 | HT3 | HT4 | HT5 | HT6 | HT7 | |
| | | Measurement Level (dBm) | | | | | | | | |
| 38 | 5190 | 15.11 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 46 | 5230 | 17.95 | 17.86 | 17.74 | 17.63 | 17.55 | 17.47 | 17.35 | 17.22 | <24dBm |
| 54 | 5270 | 18.31 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 62 | 5310 | 11.32 | 11.28 | 11.17 | 11.03 | 10.97 | 10.83 | 10.75 | 10.66 | <24dBm |
| 102 | 5510 | 16.14 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 110 | 5550 | 18.01 | 17.94 | 17.83 | 17.74 | 17.68 | 17.58 | 17.42 | 17.33 | <24dBm |
| 134 | 5670 | 18.08 | -- | -- | -- | -- | -- | -- | -- | <24dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**CHAIN B**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | Required Limit |
| | | HT0 | HT1 | HT2 | HT3 | HT4 | HT5 | HT6 | HT7 | |
| | | Measurement Level (dBm) | | | | | | | | |
| 38 | 5190 | 15.87 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 46 | 5230 | 18.05 | 17.96 | 17.87 | 17.72 | 17.65 | 17.52 | 17.46 | 17.37 | <24dBm |
| 54 | 5270 | 17.91 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 62 | 5310 | 11.6 | 11.57 | 11.46 | 11.37 | 11.28 | 11.11 | 11.07 | 10.93 | <24dBm |
| 102 | 5510 | 15.13 | -- | -- | -- | -- | -- | -- | -- | <24dBm |
| 110 | 5550 | 18.1 | 18.04 | 17.97 | 17.83 | 17.74 | 17.69 | 17.52 | 17.41 | <24dBm |
| 134 | 5670 | 18.05 | -- | -- | -- | -- | -- | -- | -- | <24dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**Maximum conducted output power Measurement:**

**(CHAIN A+ B)**

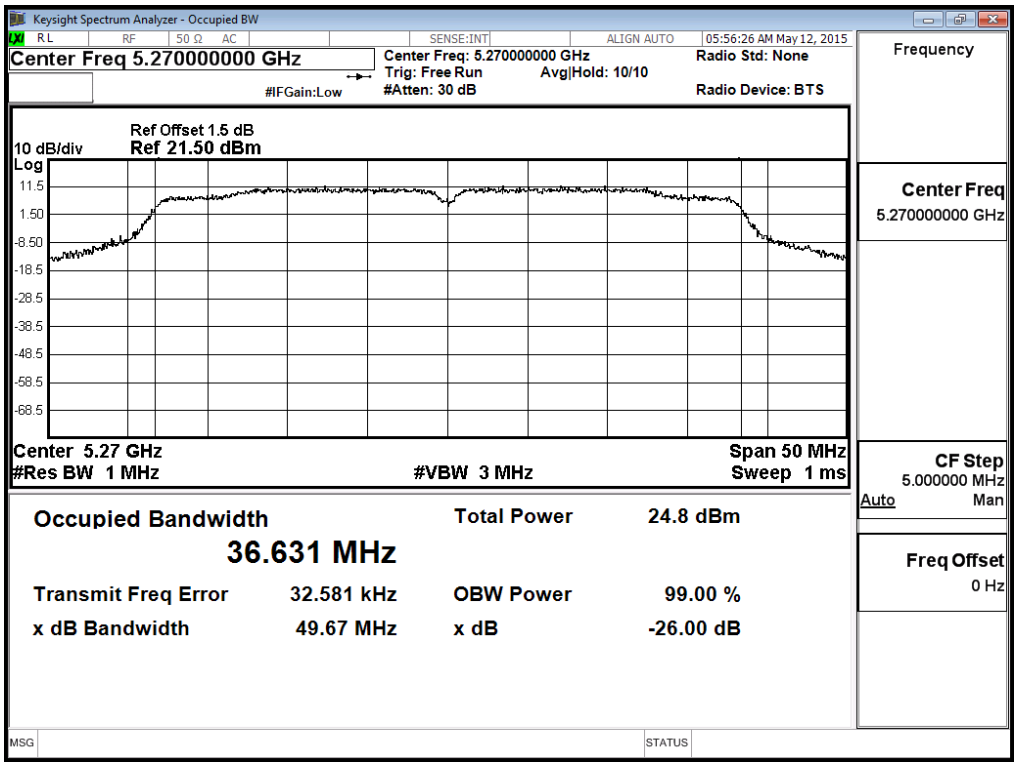
| Channel Number | Frequency (MHz) | 99% Bandwidth (MHz) | Chain A Power (dBm) | Chain B Power (dBm) | Duty Factor (dB) | Output Power (dBm) | Output Power Limit | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | (dBm) | dBm+10log(BW) |
| 38 | 5190 | -- | 15.11 | 15.87 | 0.15 | 18.67 | 24 | -- |
| 46 | 5230 | -- | 17.95 | 18.05 | 0.15 | 21.16 | 24 | -- |
| 54 | 5270 | 36.626 | 18.31 | 17.91 | 0.15 | 21.27 | 24 | 26.64 |
| 62 | 5310 | 36.391 | 11.32 | 11.60 | 0.15 | 14.62 | 24 | 26.61 |
| 102 | 5510 | 36.425 | 16.14 | 15.13 | 0.15 | 18.82 | 24 | 26.61 |
| 110 | 5550 | 36.642 | 18.01 | 18.10 | 0.15 | 21.22 | 24 | 26.64 |
| 134 | 5670 | 36.503 | 18.08 | 18.05 | 0.15 | 21.23 | 24 | 26.62 |

Note:

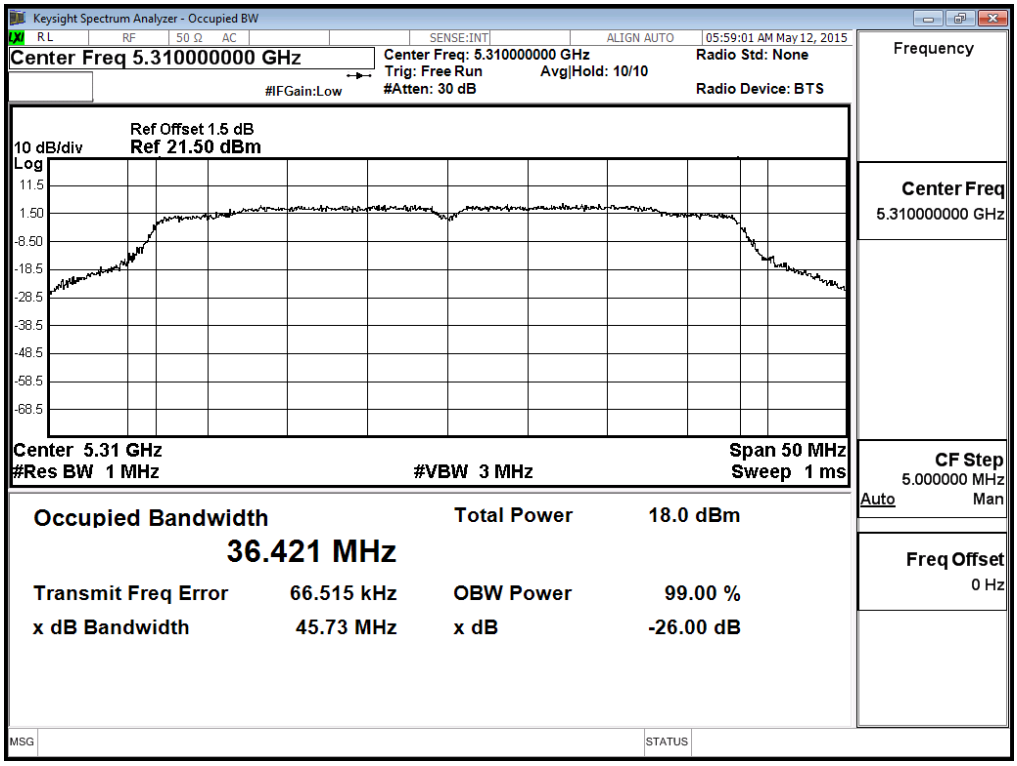
1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

## 99% Occupied Bandwidth:

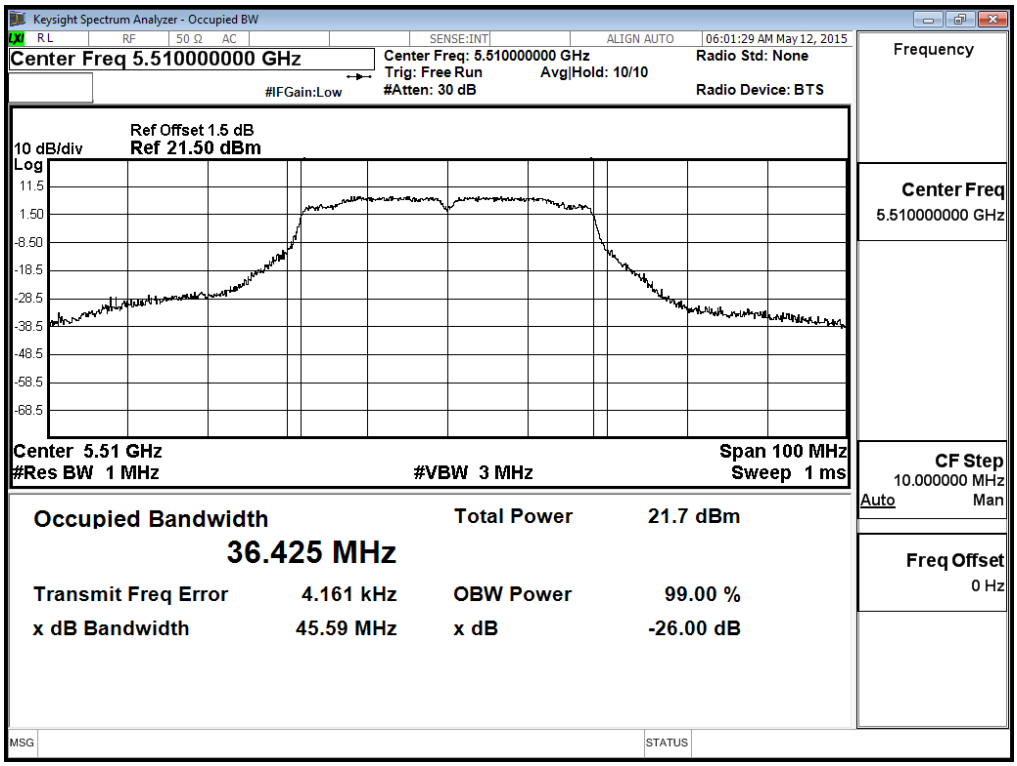
### Channel 54 – Chain A



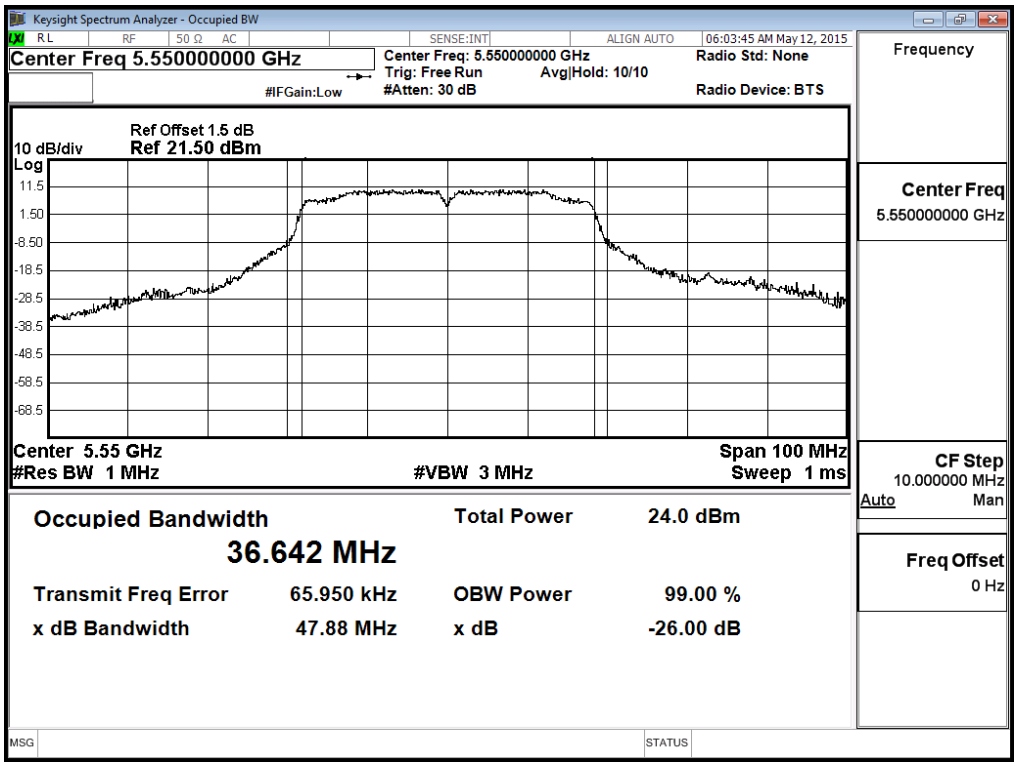

### Channel 62 – Chain A



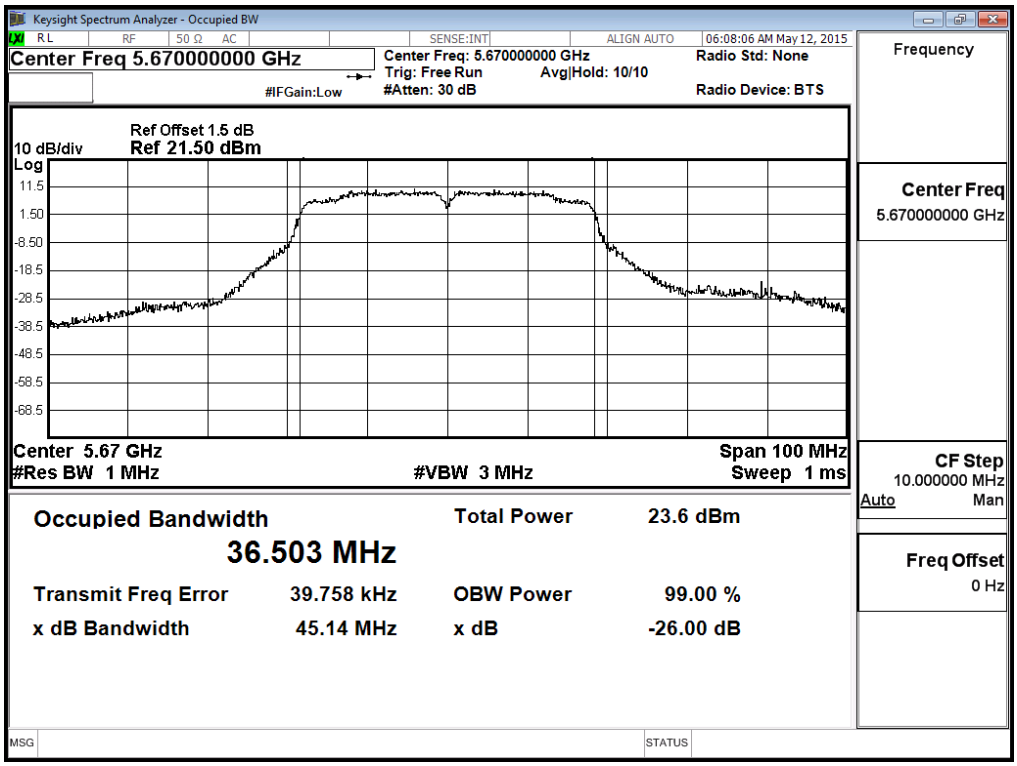
## Channel 102 – Chain A



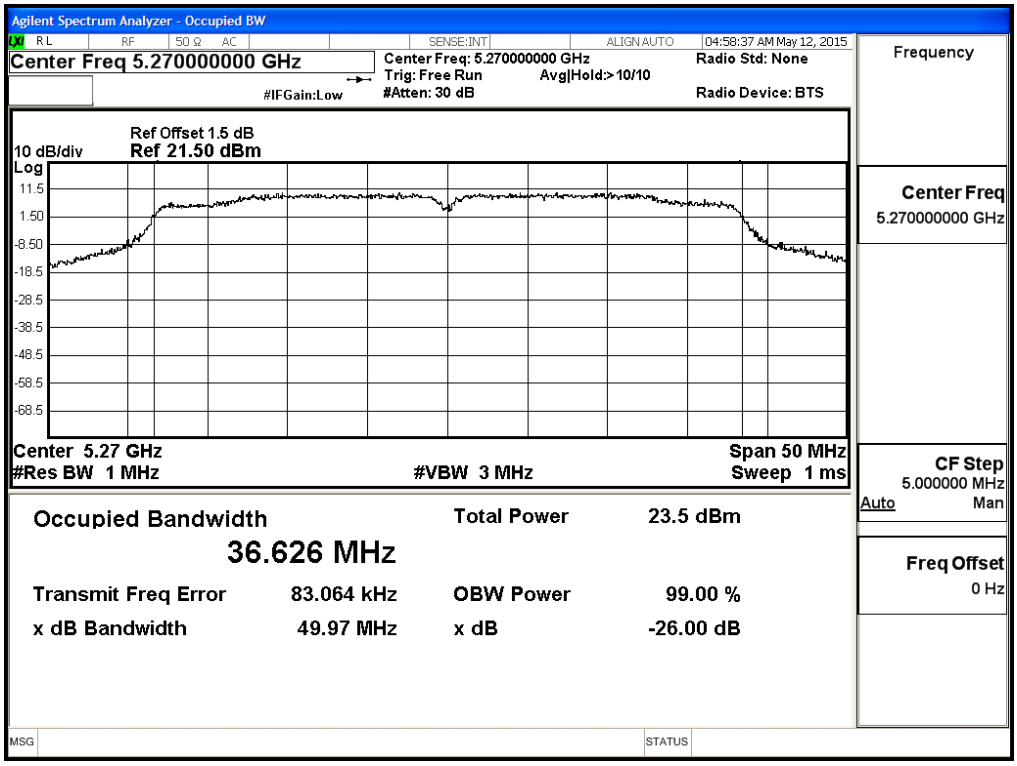

## Channel 110 – Chain A



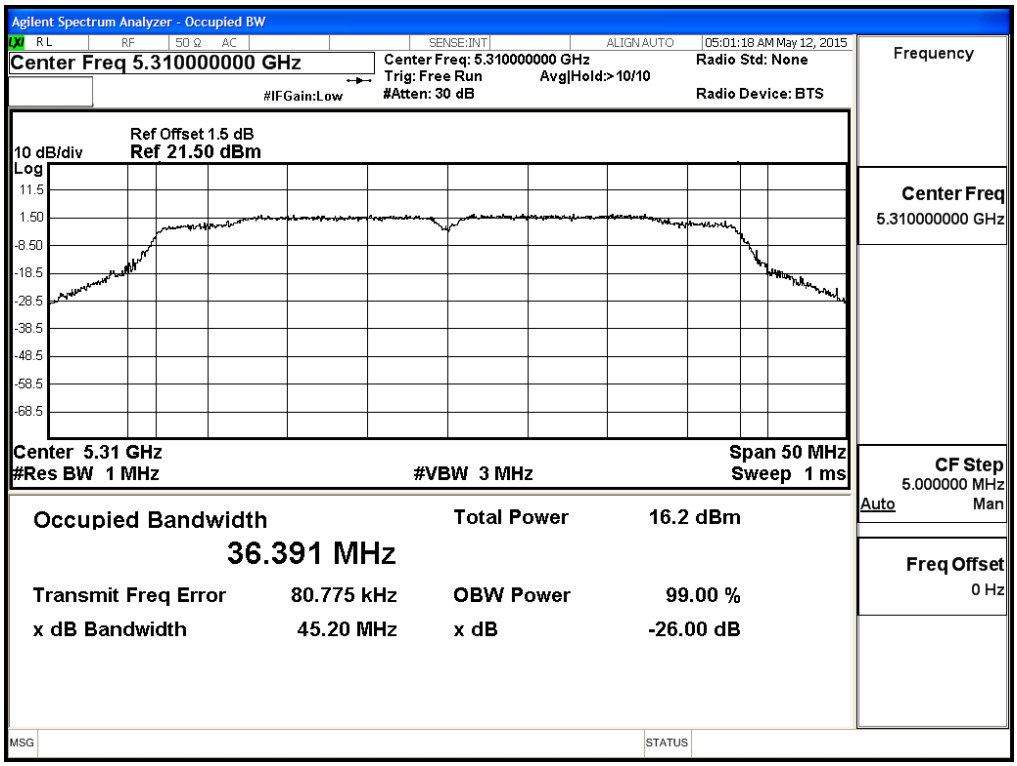
**Channel 134 – Chain A**



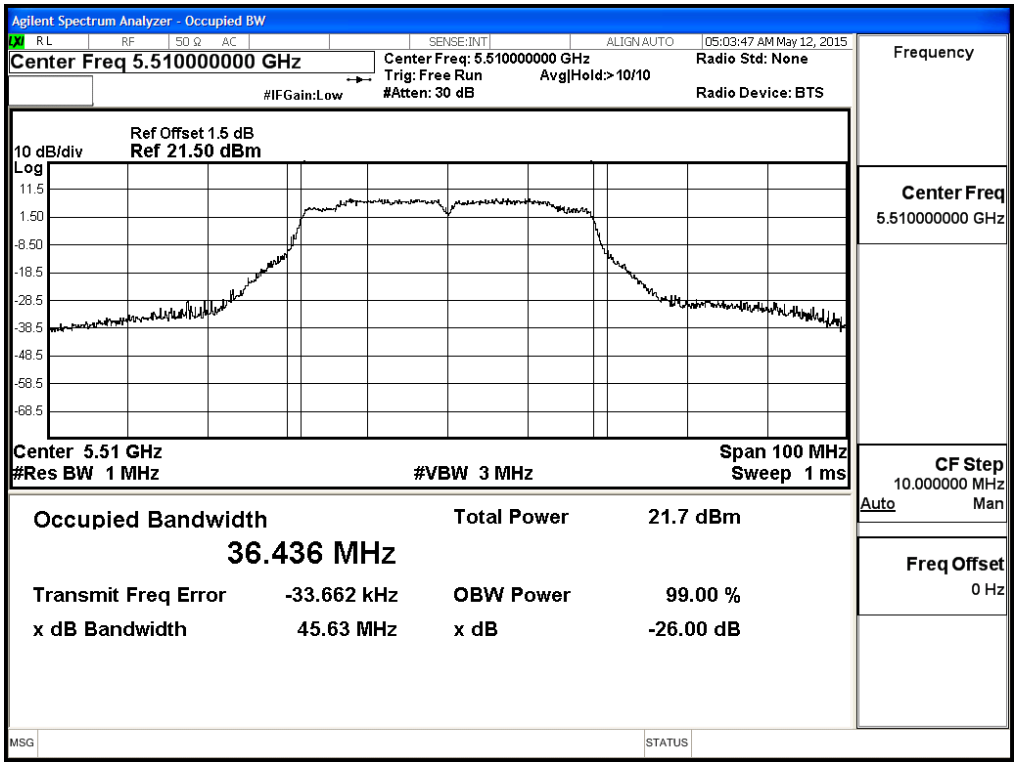

**99% Occupied Bandwidth:**
**Channel 54 – Chain B**



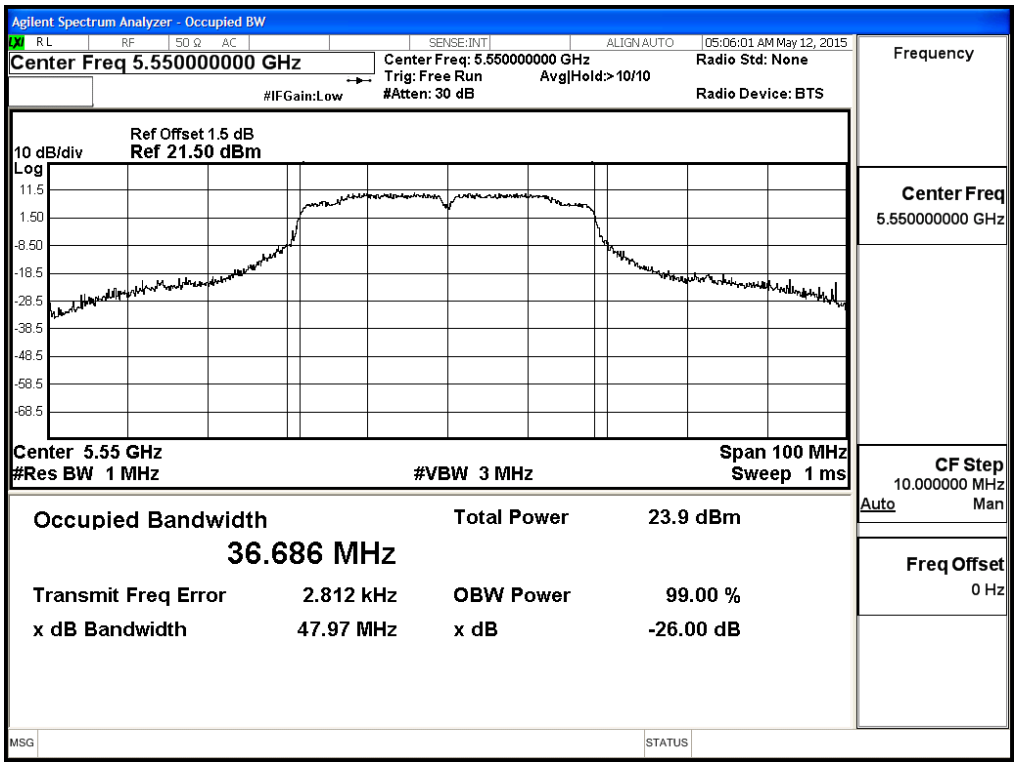
**Channel 62 – Chain B**



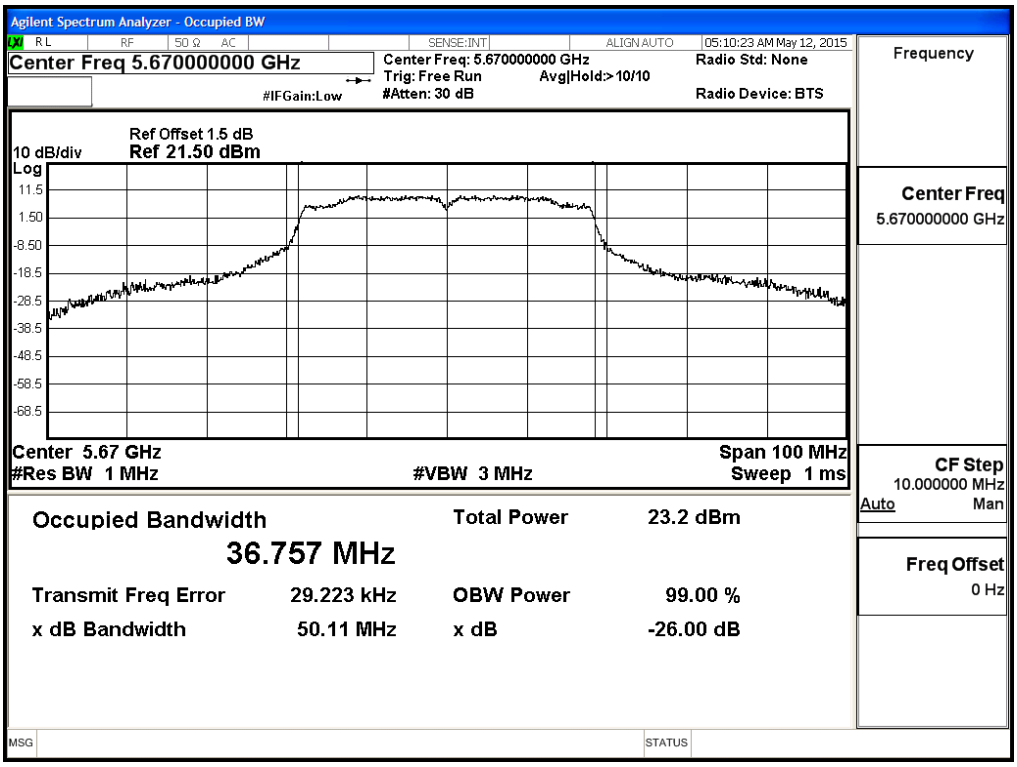

**Channel 102 – Chain B**



## Channel 110 – Chain B




## Channel 134 – Chain B



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11ac-20BW-14.4Mbps)

**Chain A**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | | Required Limit |
| | | VTH0 | VTH1 | VTH2 | VTH3 | VTH4 | VTH5 | VTH6 | VTH7 | VTH8 | |
| | | Measurement Level (dBm) | | | | | | | | | |
| 144 (Band3) | 5720 | 19.09 | 18.85 | 18.61 | 18.37 | 18.13 | 17.89 | 17.65 | 17.41 | 17.17 | <24dBm |
| 144 (Band4) | 5720 | 11.54 | 10.52 | 10.39 | 10.18 | 10.07 | 9.87 | 9.76 | 9.64 | 9.51 | <30dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**Chain B**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | | Required Limit |
| | | VTH0 | VTH1 | VTH2 | VTH3 | VTH4 | VTH5 | VTH6 | VTH7 | VTH8 | |
| | | Measurement Level (dBm) | | | | | | | | | |
| 144 (Band3) | 5720 | 18.38 | 18.32 | 18.26 | 18.2 | 18.14 | 18.08 | 18.02 | 17.96 | 17.9 | <24dBm |
| 144 (Band4) | 5720 | 10.91 | 10.22 | 10.08 | 9.96 | 9.87 | 9.76 | 9.55 | 9.47 | 9.36 | <30dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**Maximum conducted output power Measurement:**

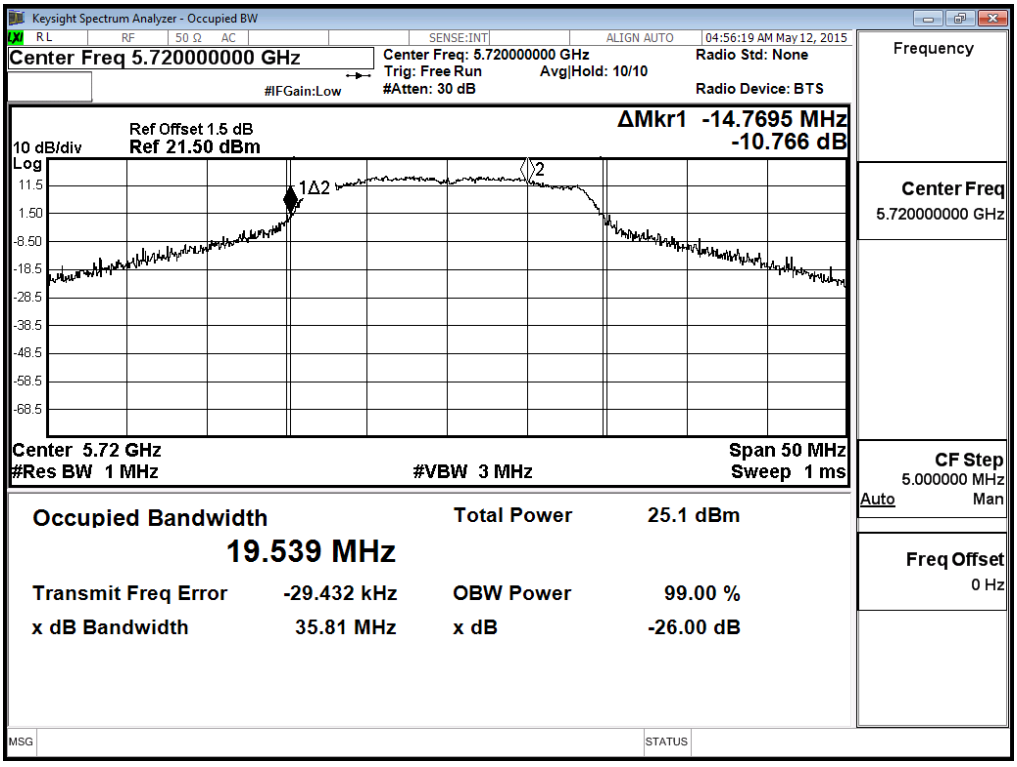
| Channel Number | Frequency (MHz) | 99% Bandwidth (MHz) | Chain A Power (dBm) | Chain B Power (dBm) | Duty Factor (dB) | Output Power (dBm) | Output Power Limit | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | (dBm) | dBm+10log(BW) |
| 144(Band3) | 5720 | 14.770 | 19.09 | 18.38 | 0.09 | 21.85 | 24 | 22.69 |
| 144(Band4) | 5720 | 4.770 | 11.54 | 10.91 | 0.09 | 14.34 | 30 | 17.79 |

Note:

1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

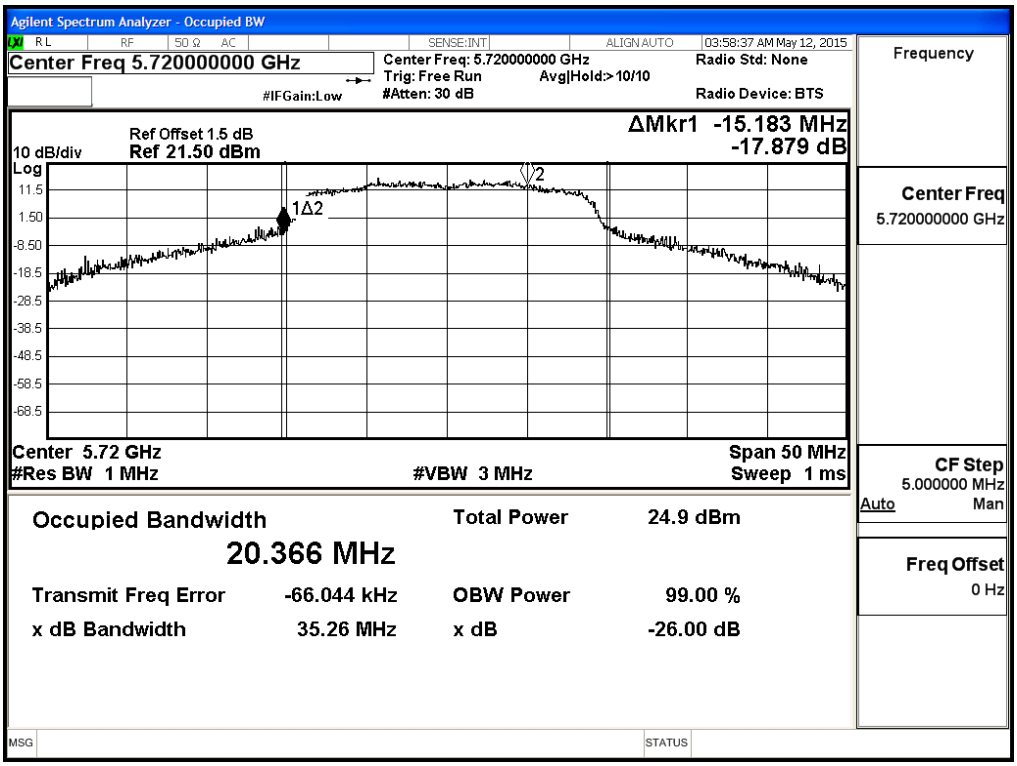
**99% Occupied Bandwidth:**

**Channel 144 – Chain A**



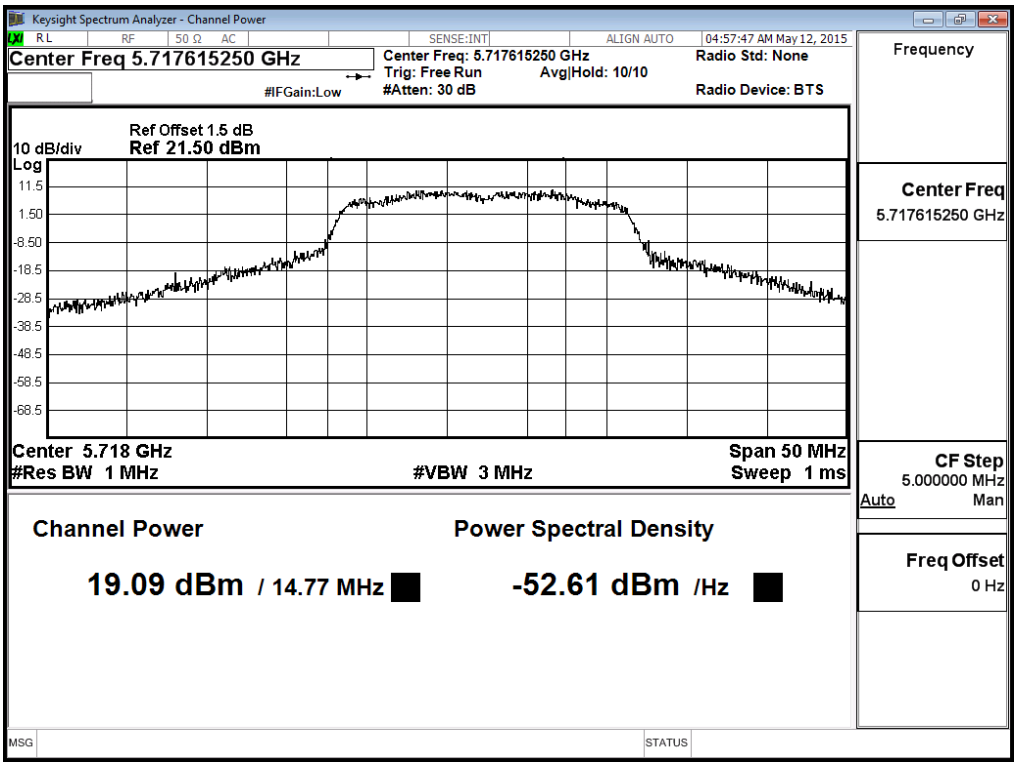

**99% Occupied Bandwidth:**

**Channel 144 – Chain B**

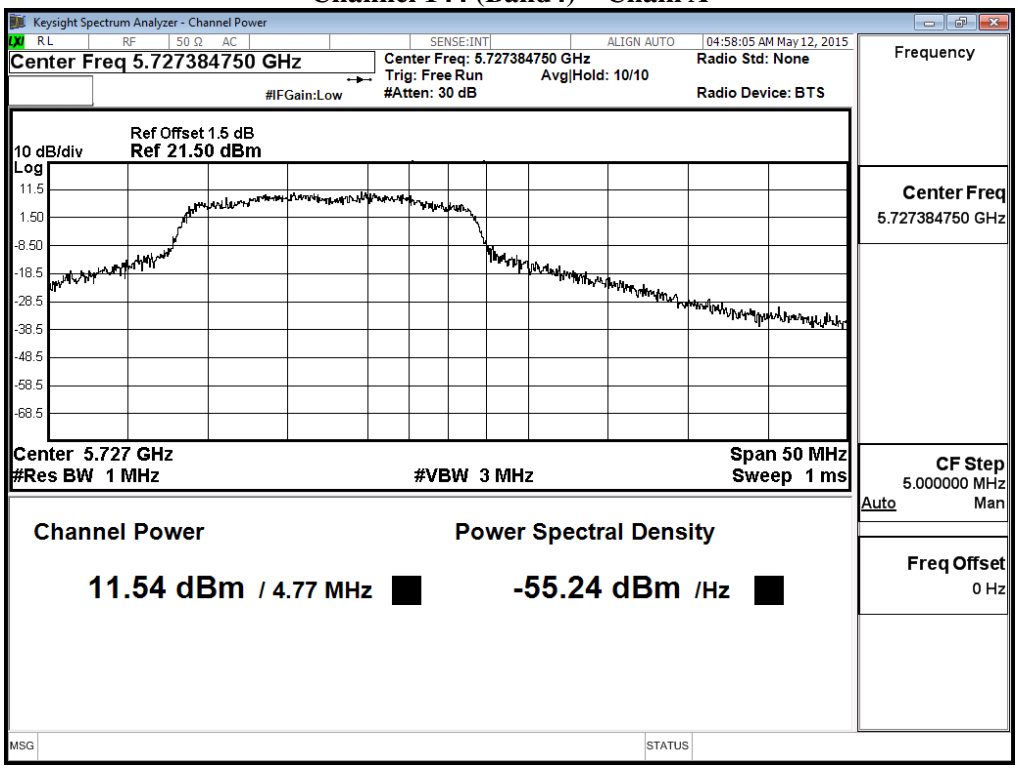


**Maximum conducted output power:**

**Channel 144 (Band3) – Chain A**

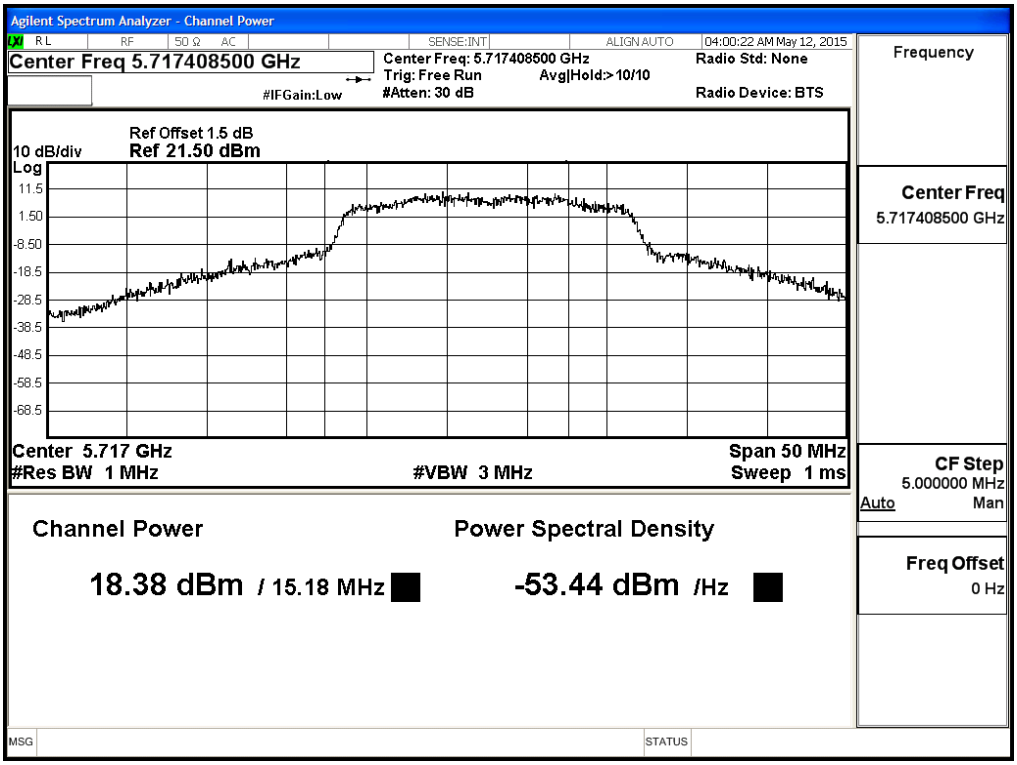



**Channel 144 (Band4) – Chain A**

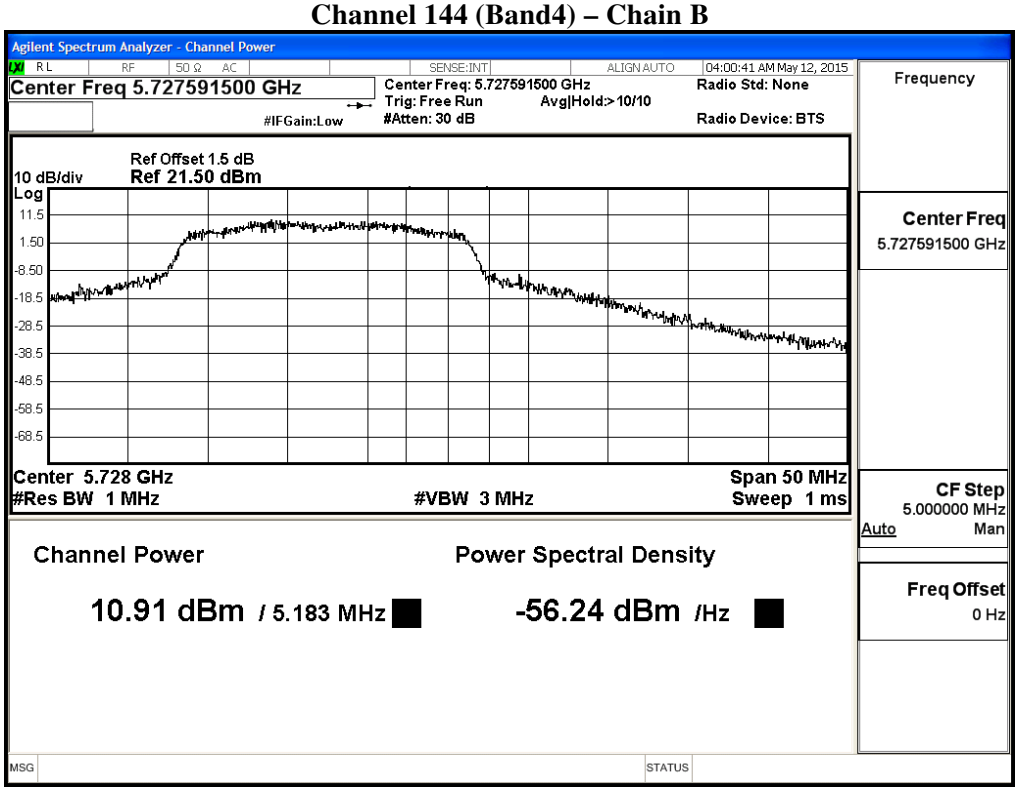


**Maximum conducted output power:**

**Channel 144 (Band3) – Chain B**




**Channel 144 (Band4) – Chain B**



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11ac-40BW-30Mbps)

**Chain A**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Channel No | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | | | Required Limit |
| | | VTH0 | VTH1 | VTH2 | VTH3 | VTH4 | VTH5 | VTH6 | VTH7 | VTH8 | VTH9 | |
| 142F(Band3) | 5710 | 18.37 | 18.32 | 18.17 | 18.08 | 17.96 | 17.84 | 17.62 | 17.55 | 17.41 | 17.36 | <24dBm |
| 142F(Band4) | 5710 | 6.41 | 5.98 | 5.84 | 5.74 | 5.59 | 5.43 | 5.21 | 5.11 | 5.06 | 4.98 | <30dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**Chain B**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Channel No | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | | | Required Limit |
| | | VTH0 | VTH1 | VTH2 | VTH3 | VTH4 | VTH5 | VTH6 | VTH7 | VTH8 | VTH9 | |
| 142F(Band3) | 5710 | 17.82 | 17.58 | 17.49 | 17.26 | 17.11 | 17.04 | 16.97 | 16.84 | 16.76 | 16.51 | <24dBm |
| 142F(Band4) | 5710 | 6.72 | 4.86 | 4.71 | 4.63 | 4.52 | 4.38 | 4.24 | 4.19 | 4.06 | 3.97 | <30dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**Maximum conducted output power Measurement:**

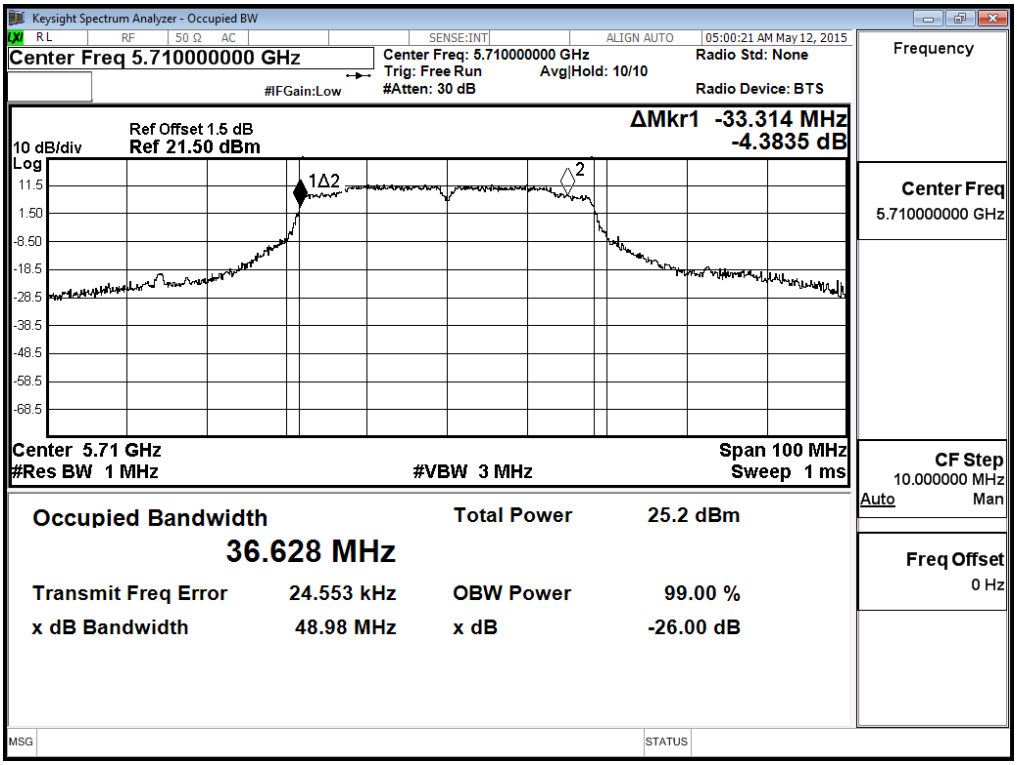
| Channel No | Frequency Range (MHz) | 99% Bandwidth (MHz) | Chain A Power (dBm) | Chain B Power (dBm) | Duty Factor (dB) | Output Power (dBm) | Output Power Limit | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | (dBm) | dBm+10log(BW) |
| 142F(Band3) | 5710 | 33.314 | 18.37 | 17.82 | 0.15 | 21.26 | 24 | 26.23 |
| 142F(Band4) | 5710 | 3.314 | 6.41 | 6.72 | 0.15 | 9.73 | 30 | 16.20 |

Note:

1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

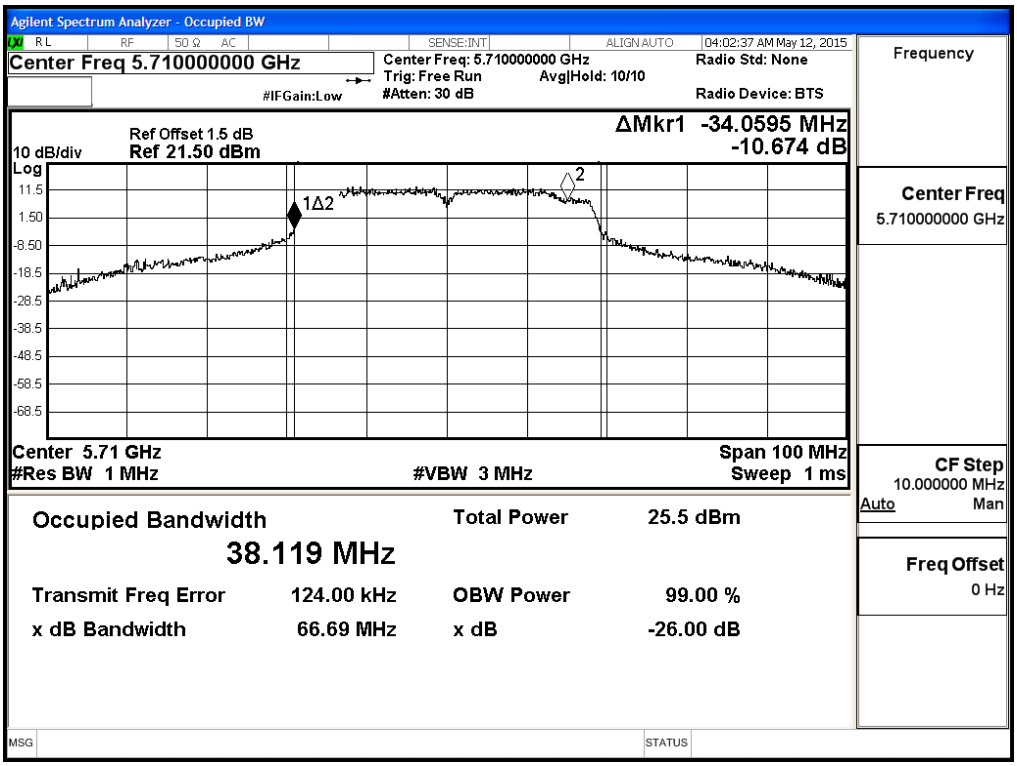
**99% Occupied Bandwidth:**

**Channel 142 – Chain A**



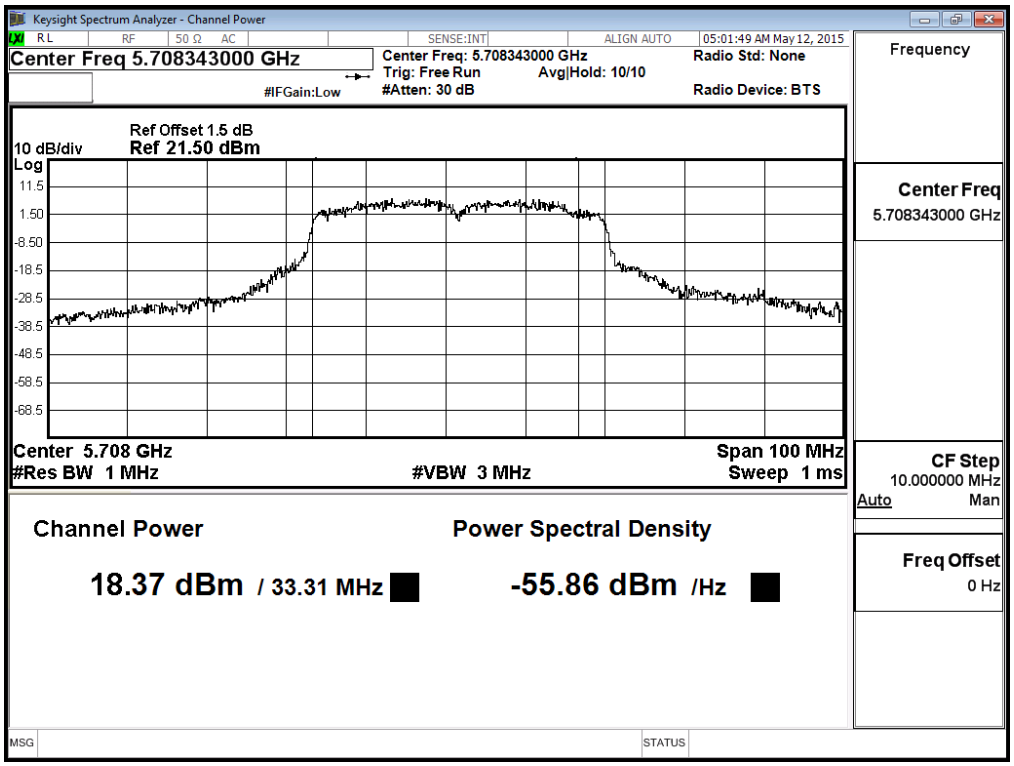

**99% Occupied Bandwidth:**

**Channel 142 – Chain B**

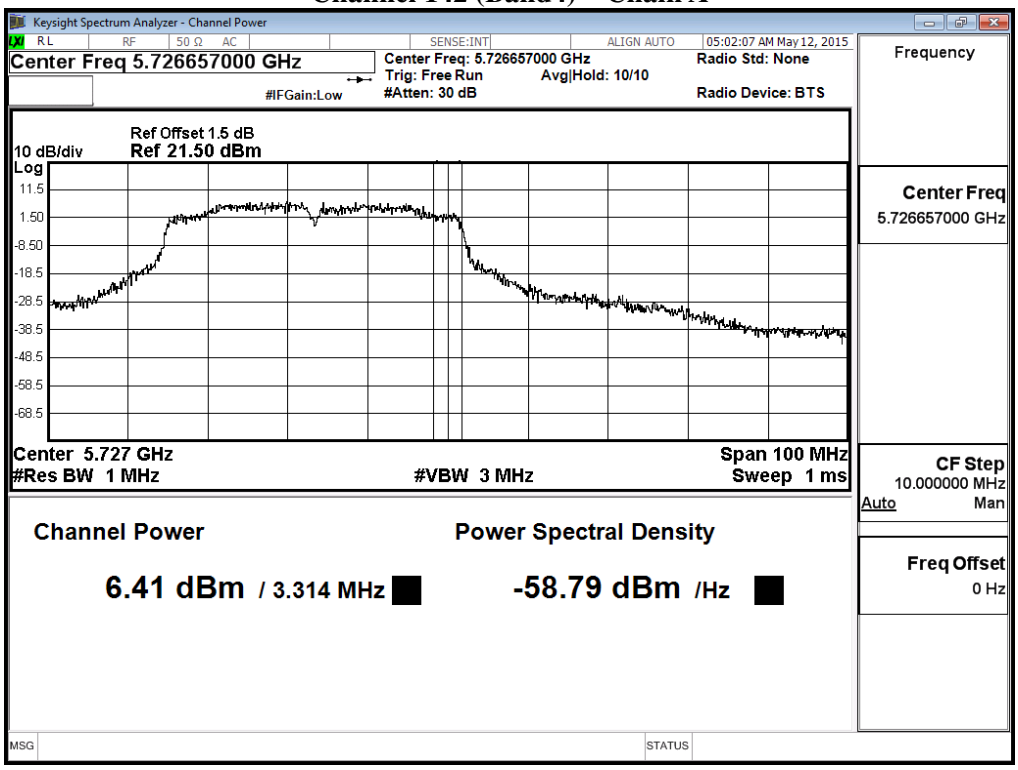


**Maximum conducted output power:**

**Channel 142 (Band3) – Chain A**

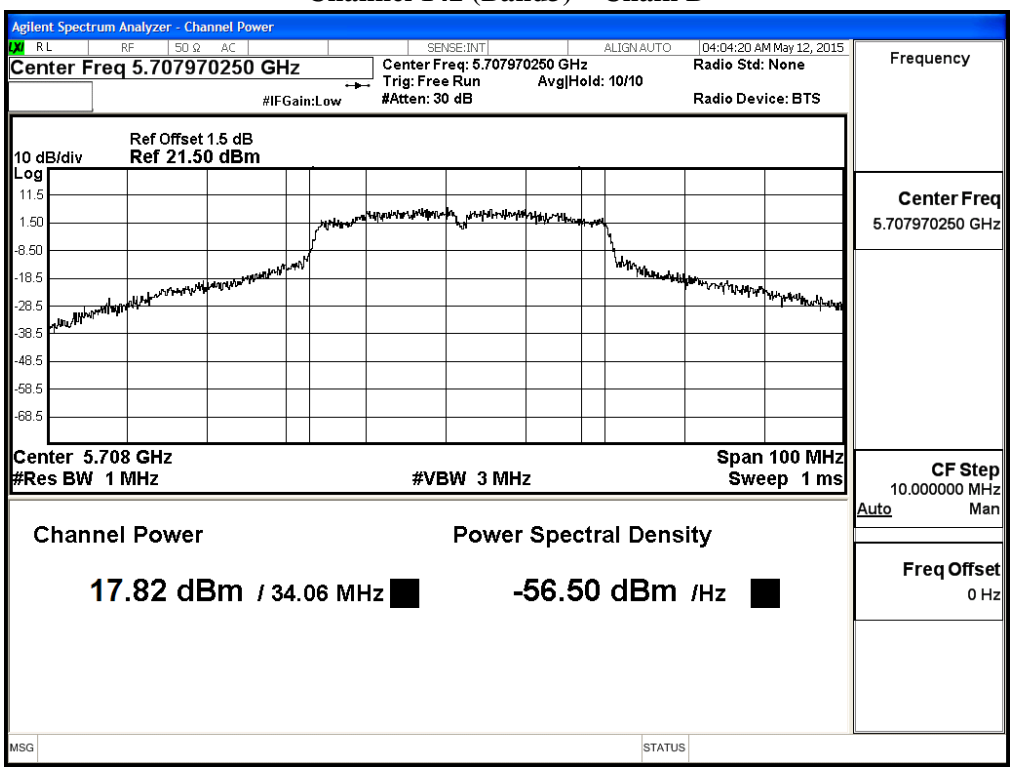



**Channel 142 (Band4) – Chain A**

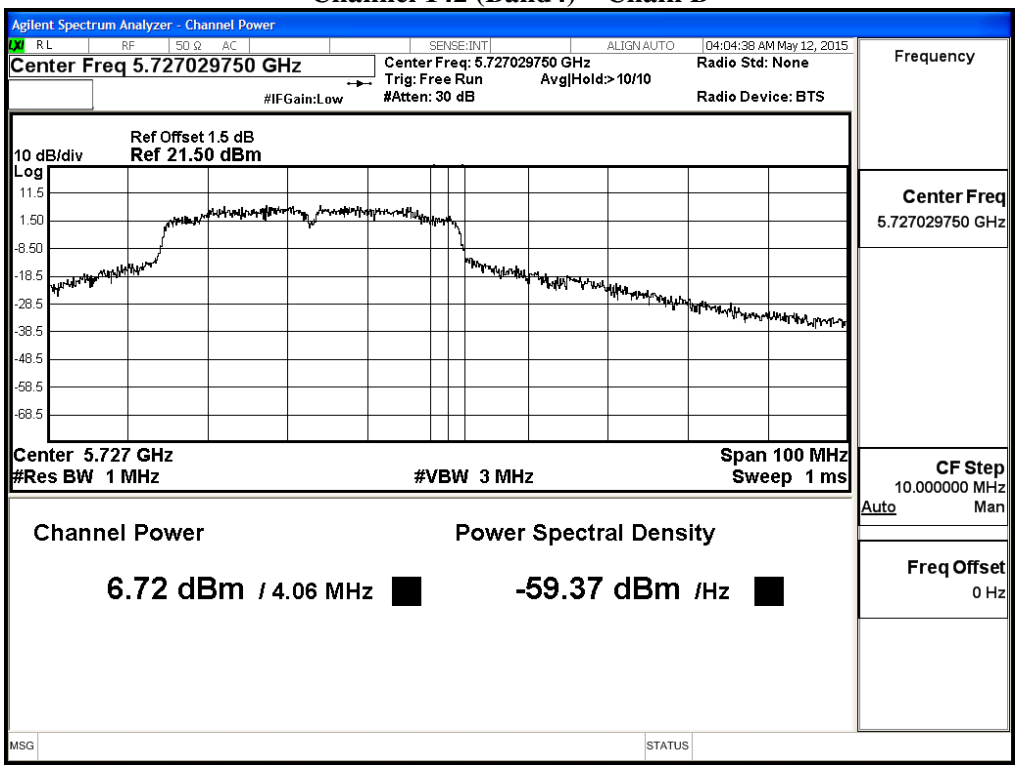


**Maximum conducted output power:**

**Channel 142 (Band3) – Chain B**




**Channel 142 (Band4) – Chain B**



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11ac-80BW-65Mbps)

**Chain A**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Channel No | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | | | Required Limit |
| | | VTH0 | VTH1 | VTH2 | VTH3 | VTH4 | VTH5 | VTH6 | VTH7 | VTH8 | VTH9 | |
| 42 | 5210 | 17.92 | 17.85 | 17.78 | 17.71 | 17.64 | 17.57 | 17.50 | 17.43 | 17.36 | 17.29 | <24dBm |
| 58 | 5290 | 12.36 | 12.15 | 11.94 | 11.73 | 11.52 | 11.31 | 11.10 | 10.89 | 10.68 | 10.47 | <24dBm |
| 106 | 5530 | 16.01 | 15.89 | 15.77 | 15.65 | 15.53 | 15.41 | 15.29 | 15.17 | 15.05 | 14.93 | <24dBm |
| 122ac80 | 5610 | 18.00 | 17.91 | 17.82 | 17.73 | 17.64 | 17.55 | 17.46 | 17.37 | 17.28 | 17.19 | <24dBm |
| 138(Band3) | 5690 | 18.17 | 18.14 | 18.11 | 18.08 | 18.05 | 18.02 | 17.99 | 17.96 | 17.93 | 17.90 | <24dBm |
| 138(Band4) | 5690 | 1.65 | 1.17 | 1.05 | 0.97 | 0.83 | 0.65 | 0.57 | 0.43 | 0.37 | 0.14 | <30dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**Chain B**

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Channel No | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | | | Required Limit |
| | | VTH0 | VTH1 | VTH2 | VTH3 | VTH4 | VTH5 | VTH6 | VTH7 | VTH8 | VTH9 | |
| 42 | 5210 | 16.37 | 16.24 | 16.11 | 15.98 | 15.85 | 15.72 | 15.59 | 15.46 | 15.33 | 15.20 | <24dBm |
| 58 | 5290 | 10.90 | 10.78 | 10.66 | 10.54 | 10.42 | 10.30 | 10.18 | 10.06 | 9.94 | 9.82 | <24dBm |
| 106 | 5530 | 16.14 | 16.02 | 15.90 | 15.78 | 15.66 | 15.54 | 15.42 | 15.30 | 15.18 | 15.06 | <24dBm |
| 122ac80 | 5610 | 18.08 | 17.97 | 17.86 | 17.75 | 17.64 | 17.53 | 17.42 | 17.31 | 17.2 | 17.09 | <24dBm |
| 138(Band3) | 5690 | 18.34 | 18.11 | 17.88 | 17.65 | 17.42 | 17.19 | 16.96 | 16.73 | 16.5 | 16.27 | <24dBm |
| 138(Band4) | 5690 | 3.16 | 3.01 | 2.86 | 2.71 | 2.56 | 2.41 | 2.26 | 2.11 | 1.96 | 1.81 | <30dBm |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

**Maximum conducted output power Measurement**

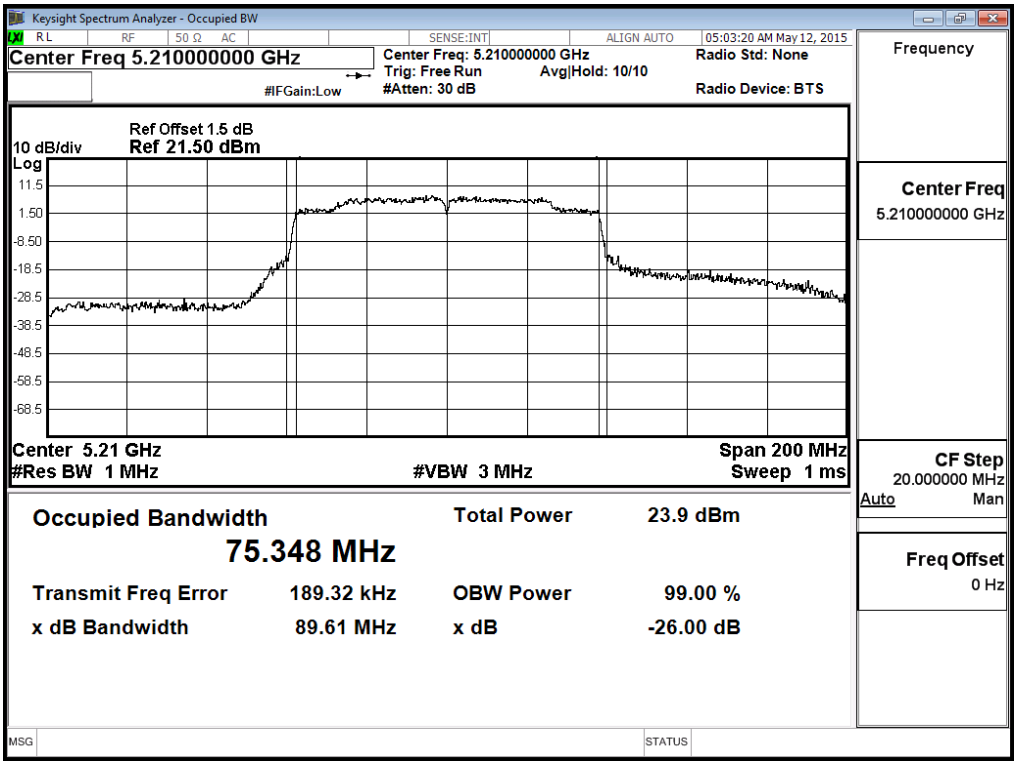
| Channel No | Frequency Range (MHz) | 99% Bandwidth (MHz) | Chain A Power (dBm) | Chain B Power (dBm) | Duty Factor (dB) | Output Power (dBm) | Output Power Limit | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | (dBm) | dBm+10log(BW) |
| 42 | 5210 | 74.410 | 17.92 | 16.37 | 0.31 | 20.53 | 24 | -- |
| 58 | 5290 | 75.080 | 12.36 | 10.90 | 0.31 | 15.01 | 24 | 29.76 |
| 106 | 5530 | 75.106 | 16.01 | 16.14 | 0.31 | 19.40 | 24 | 29.76 |
| 122 | 5610 | 75.430 | 18.00 | 18.08 | 0.31 | 21.36 | 24 | 29.78 |
| 138(Band3) | 5690 | 72.820 | 18.17 | 18.34 | 0.31 | 21.58 | 24 | 29.62 |
| 138(Band4) | 5690 | 2.817 | 1.65 | 3.16 | 0.31 | 5.79 | 30 | 21.50 |

Note:

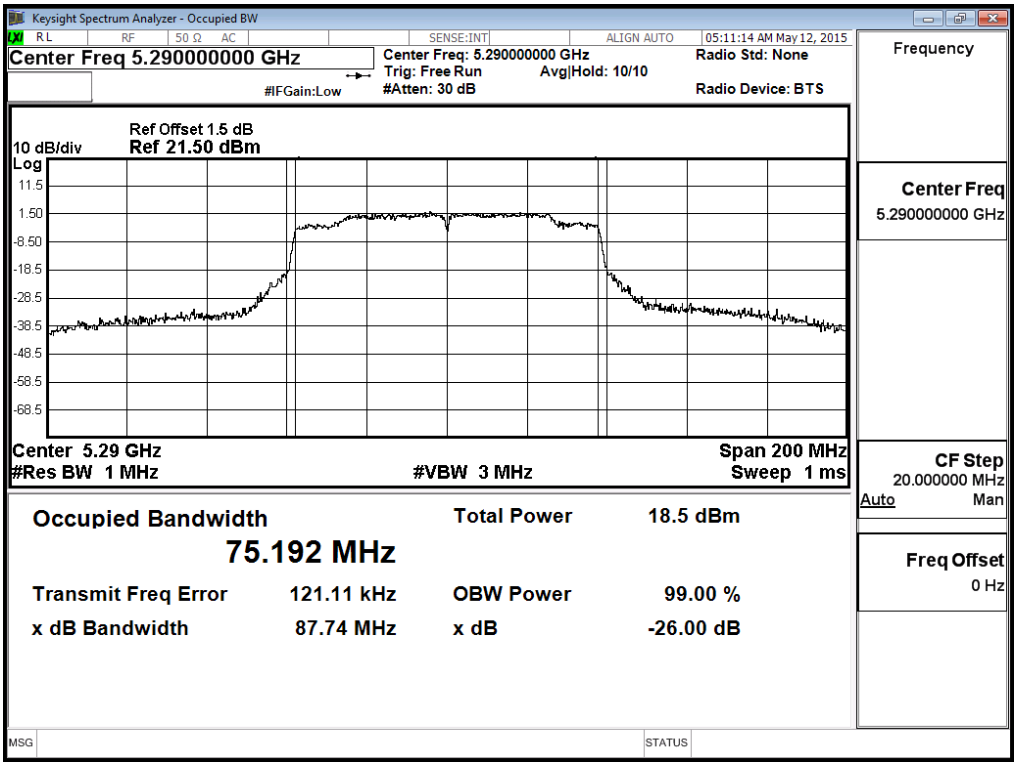
1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

## 99% Occupied Bandwidth:

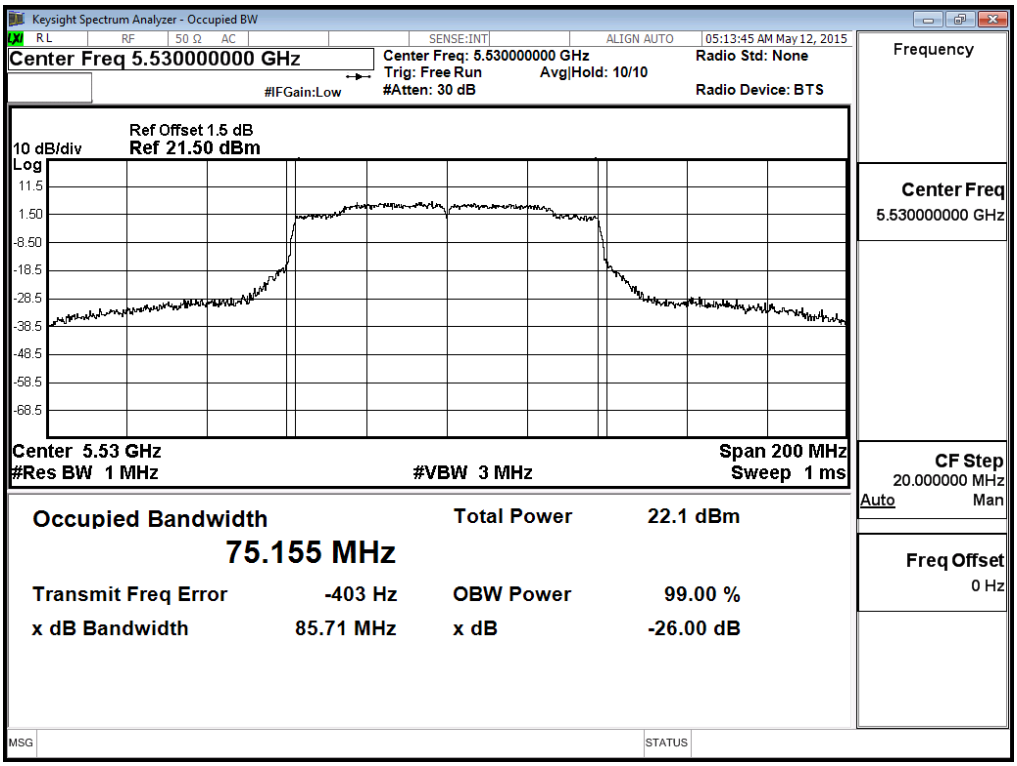
### Channel 42 – Chain A



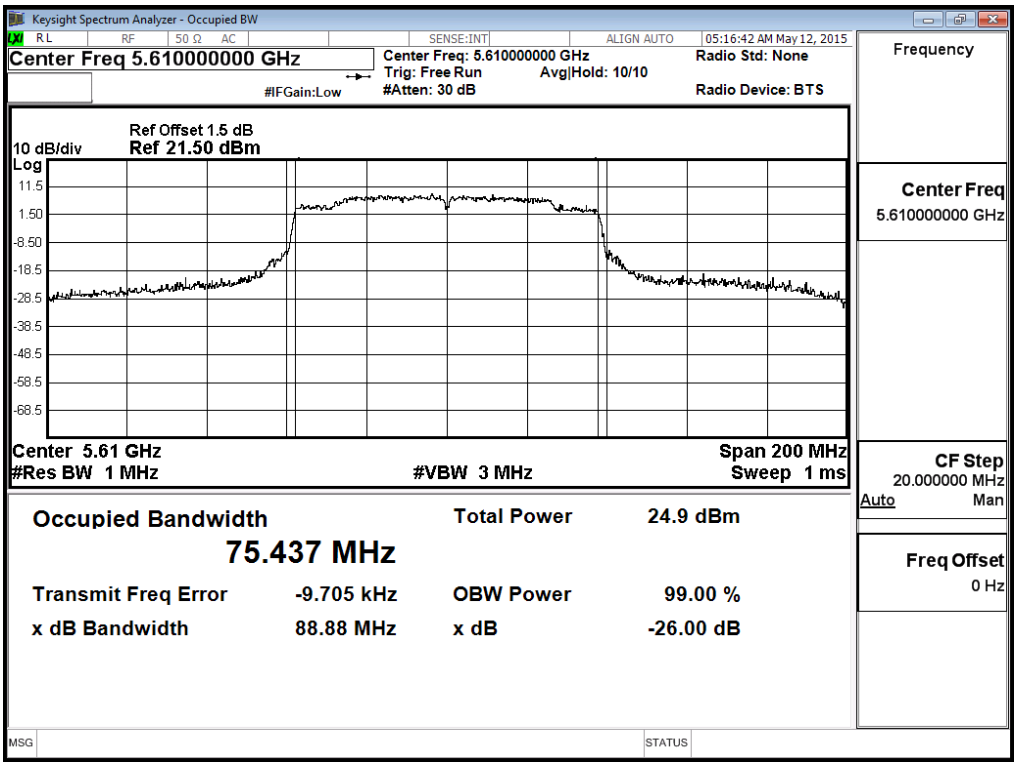

### Channel 58 – Chain A



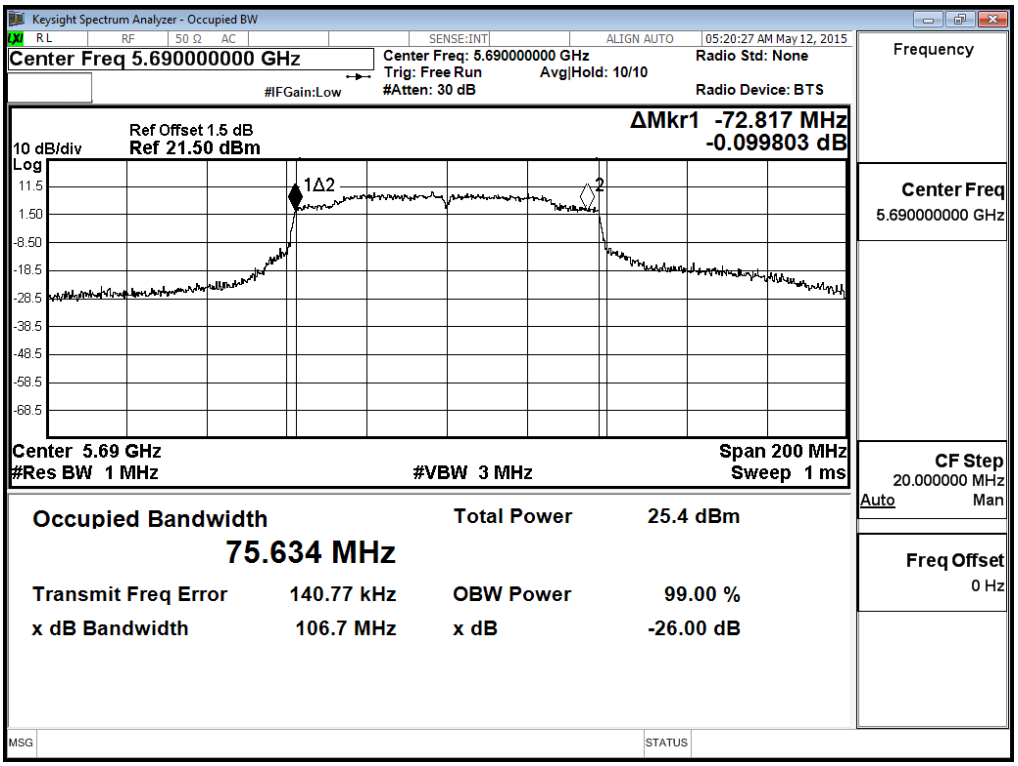
## Channel 106 – Chain A




## Channel 122 – Chain A

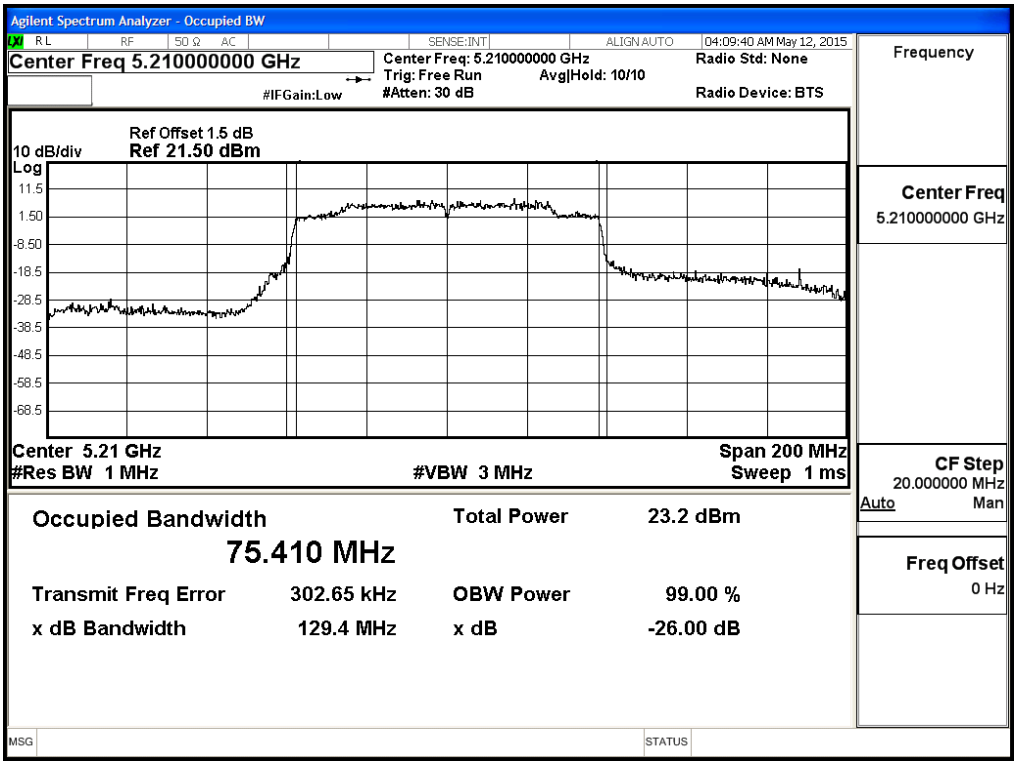


**Channel 138 – Chain A**

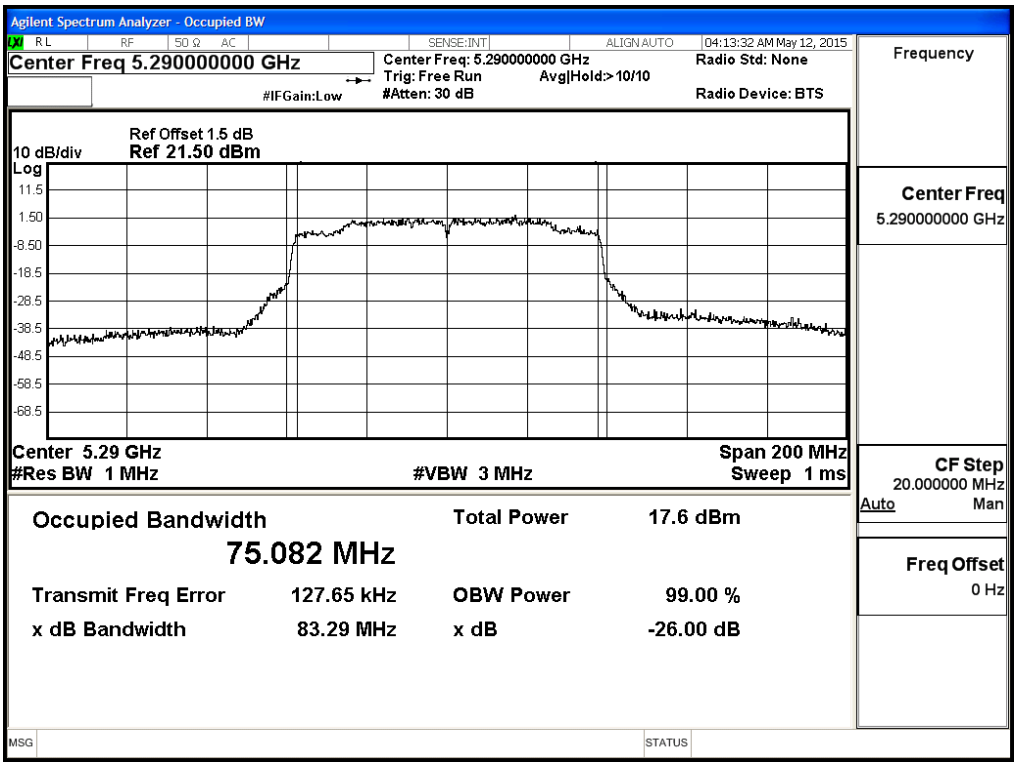



**99% Occupied Bandwidth:**

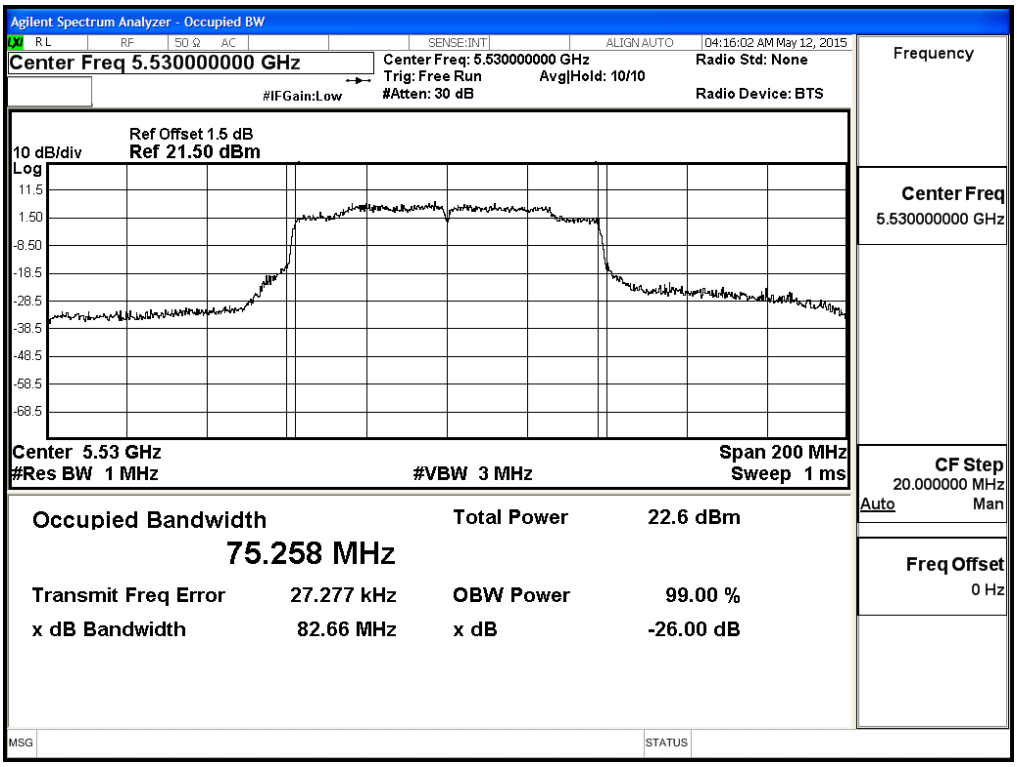
**Channel 42 – Chain B**



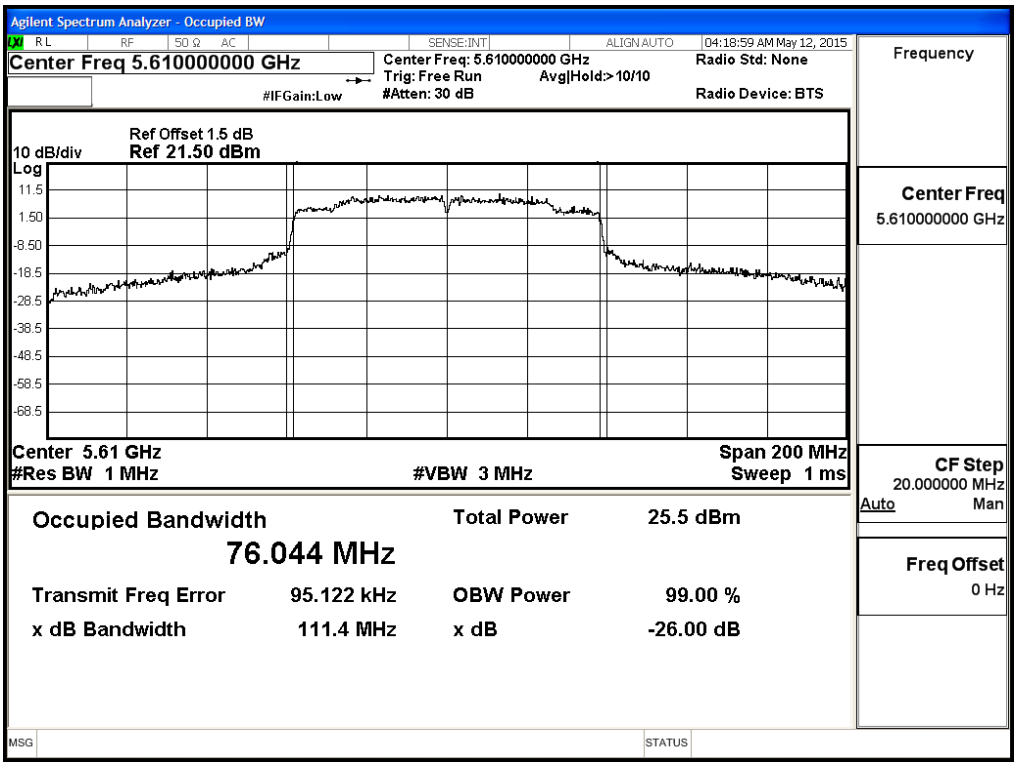
## Channel 58 – Chain B



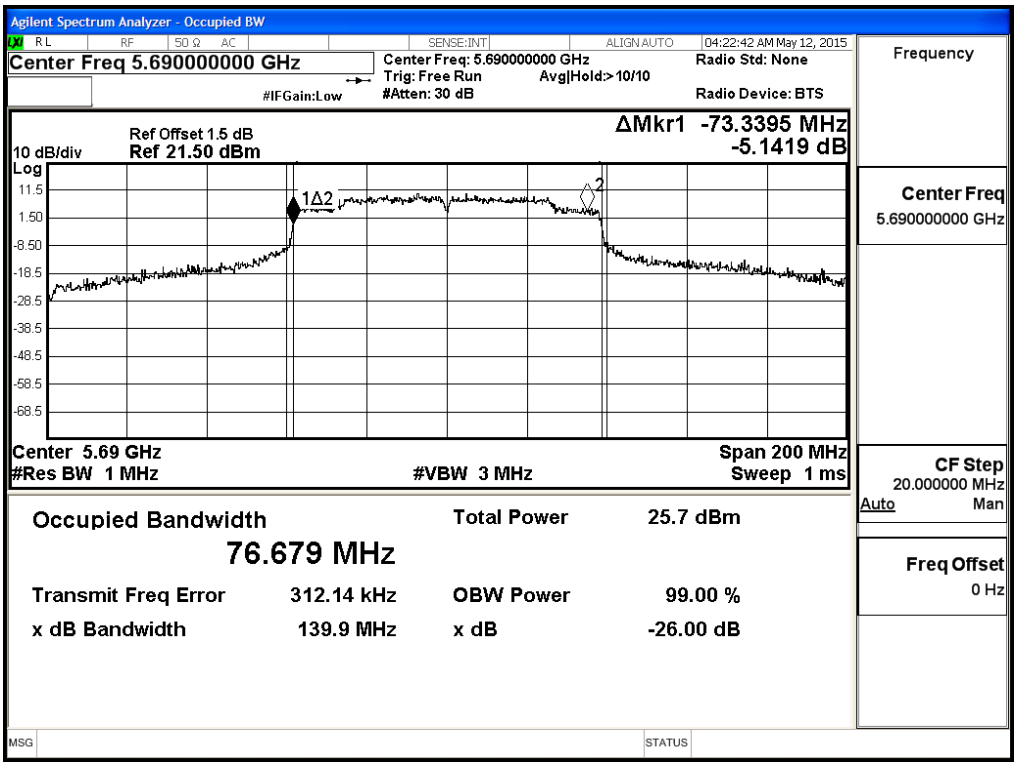

## Channel 106 – Chain B



## Channel 122 – Chain B

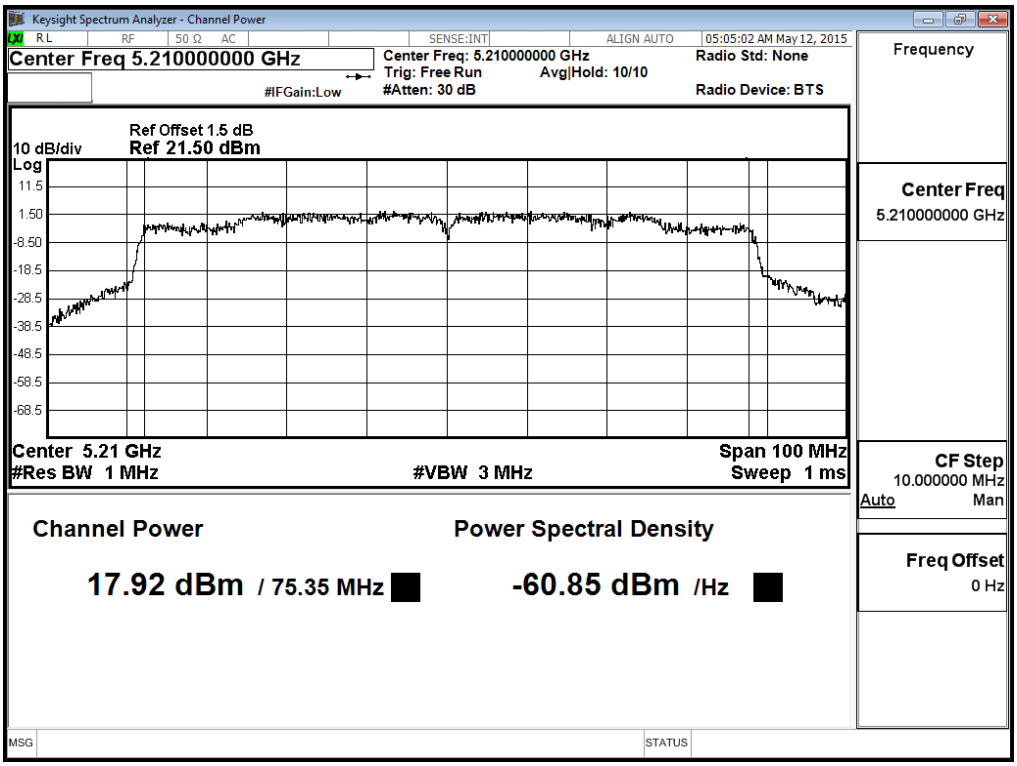



## Channel 138 – Chain B



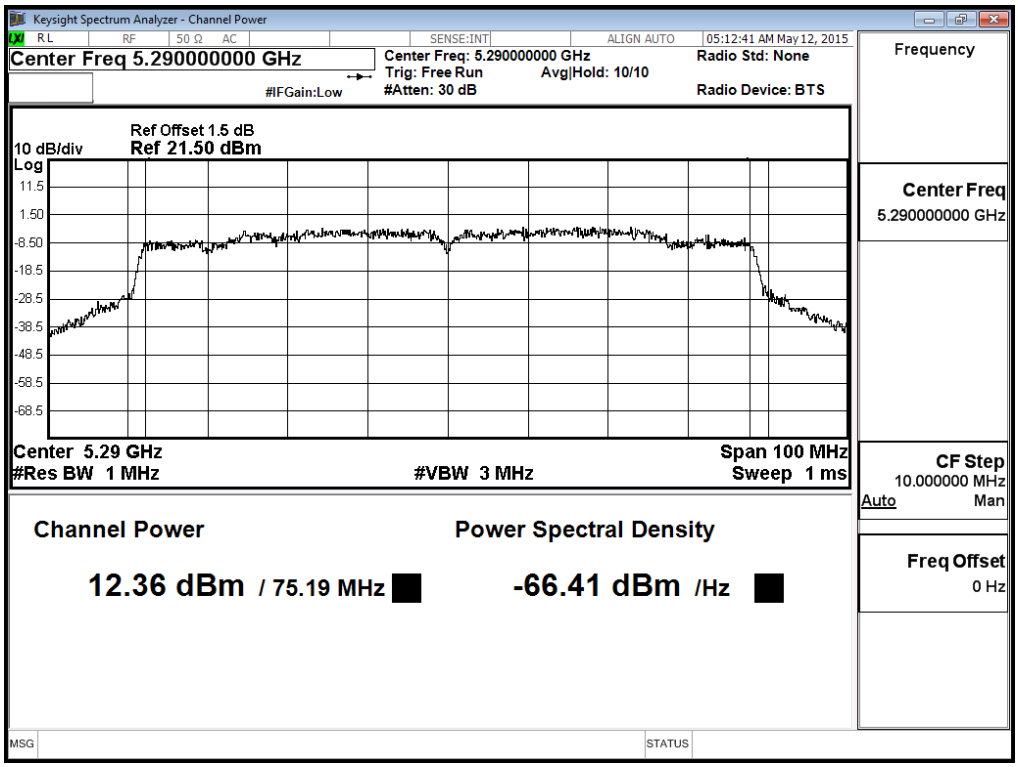
**Maximum conducted output power:**

**Channel 42 – Chain A**



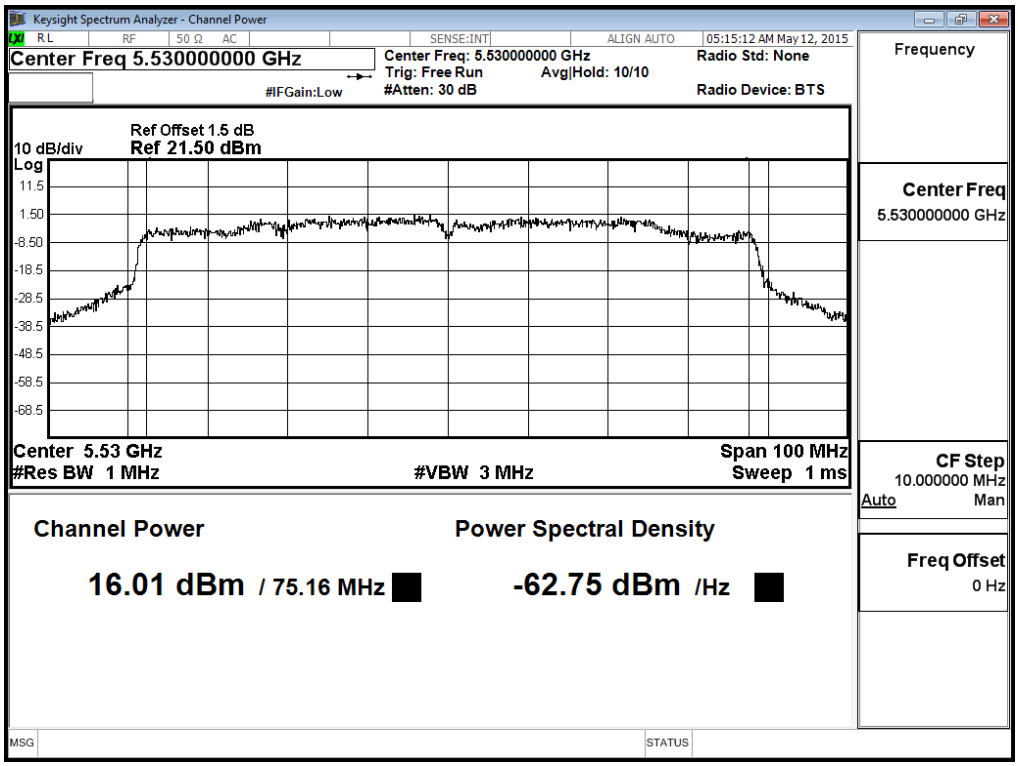

**Maximum conducted output power:**

**Channel 58 – Chain A**



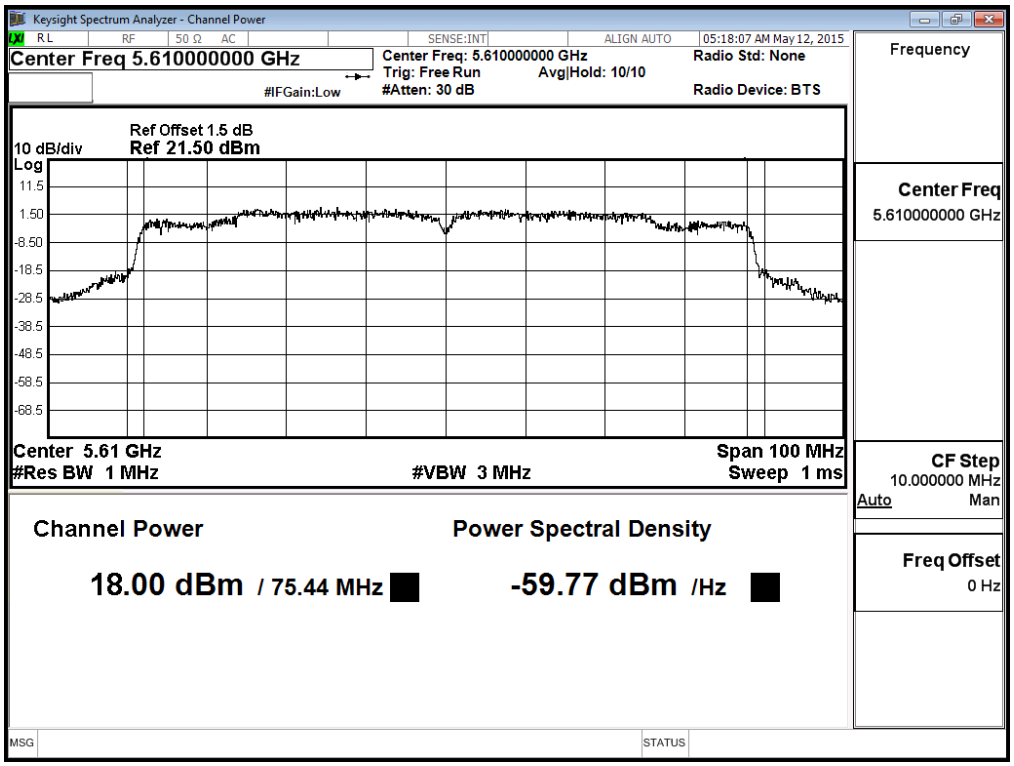
**Maximum conducted output power:**

**Channel 106 – Chain A**



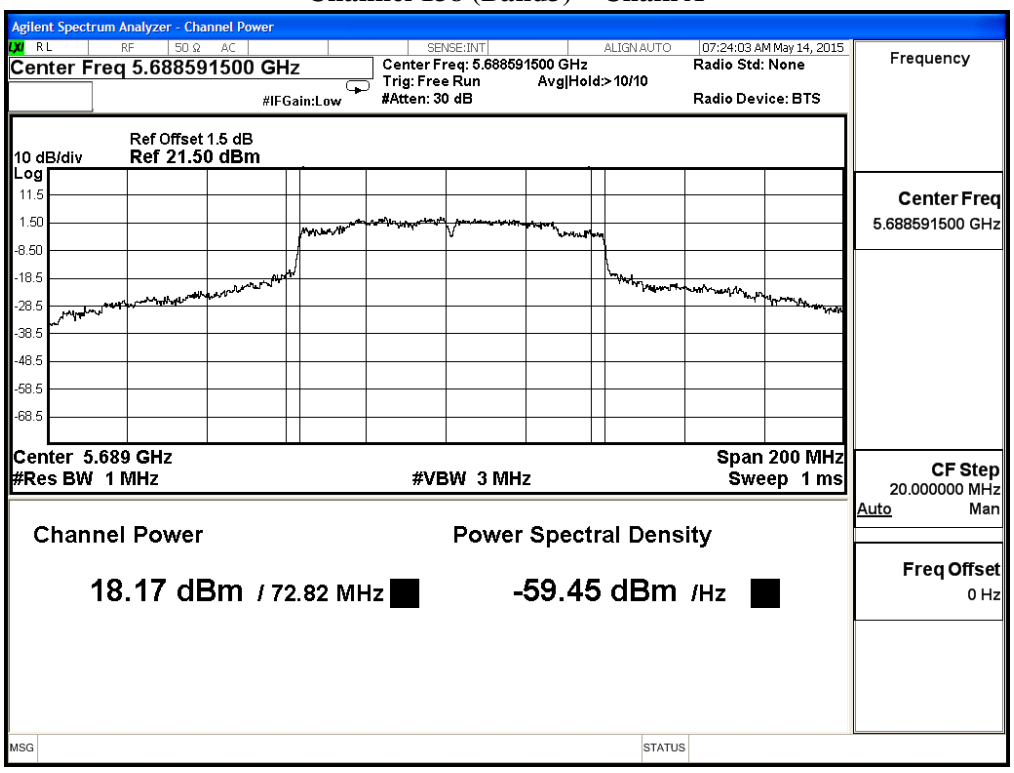

**Maximum conducted output power:**

**Channel 122 – Chain A**



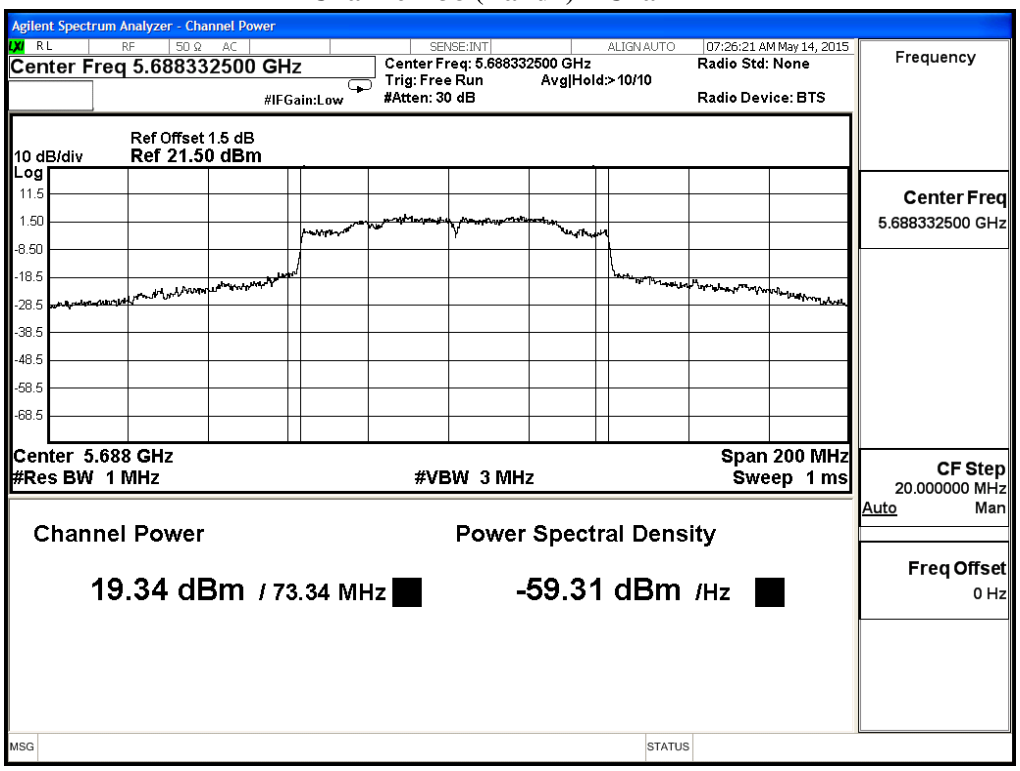
**Maximum conducted output power:**

**Channel 138 (Band3) – Chain A**



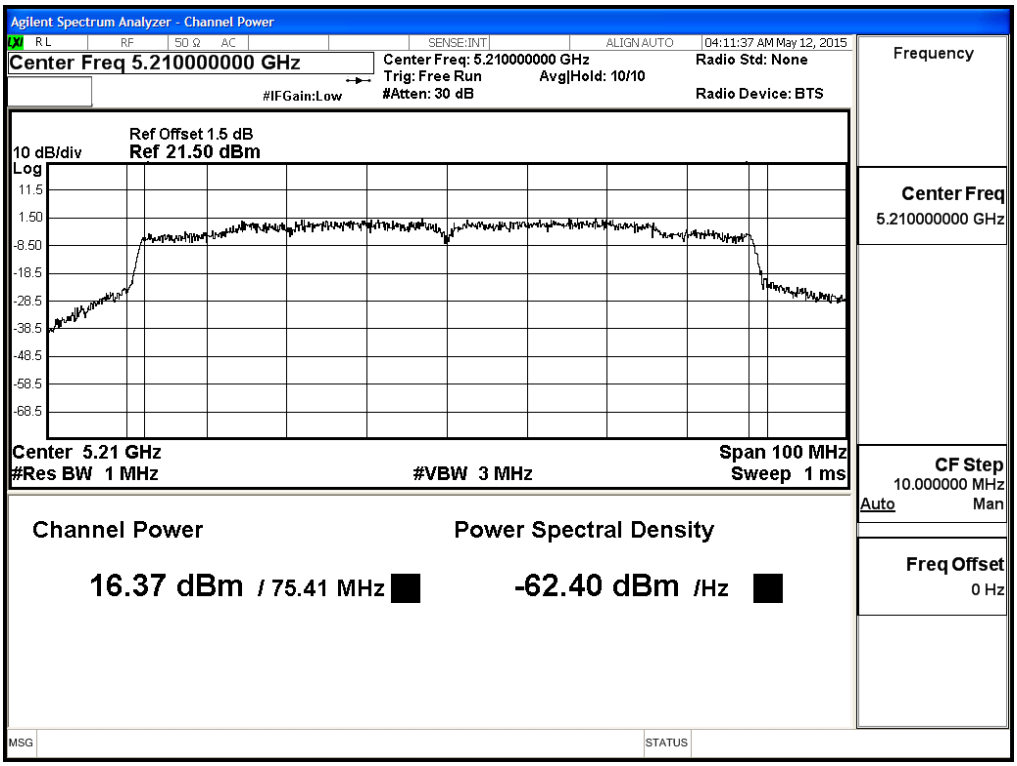

**Maximum conducted output power:**

**Channel 138 (Band4) – Chain A**



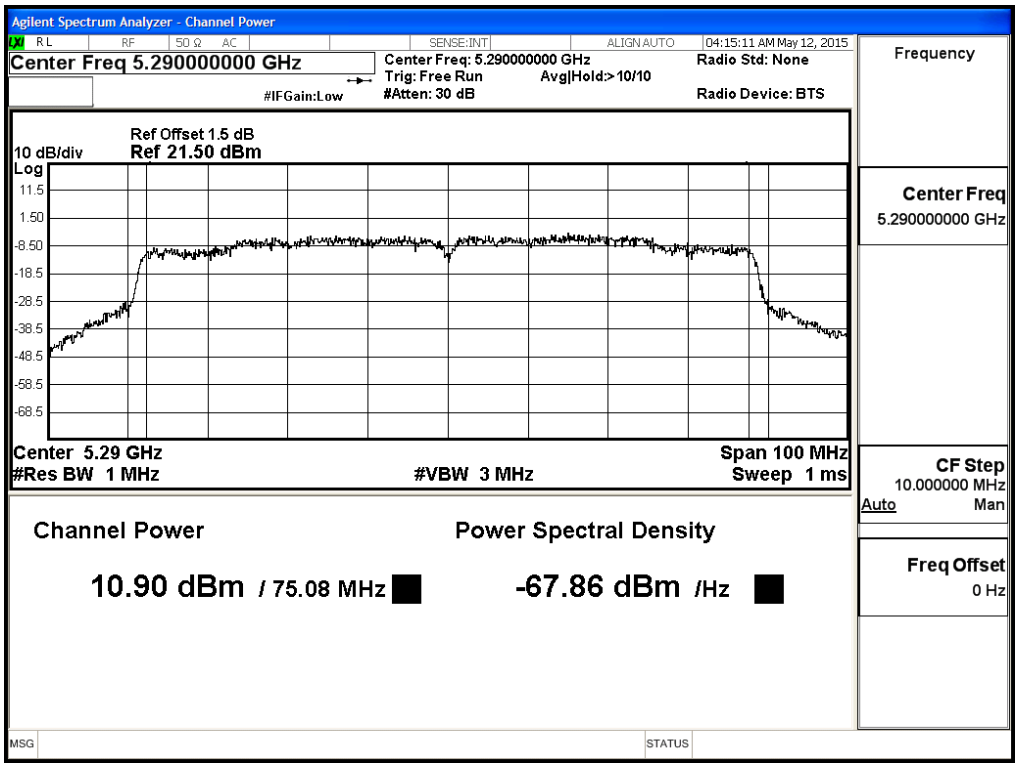
**Maximum conducted output power:**

**Channel 42 – Chain B**



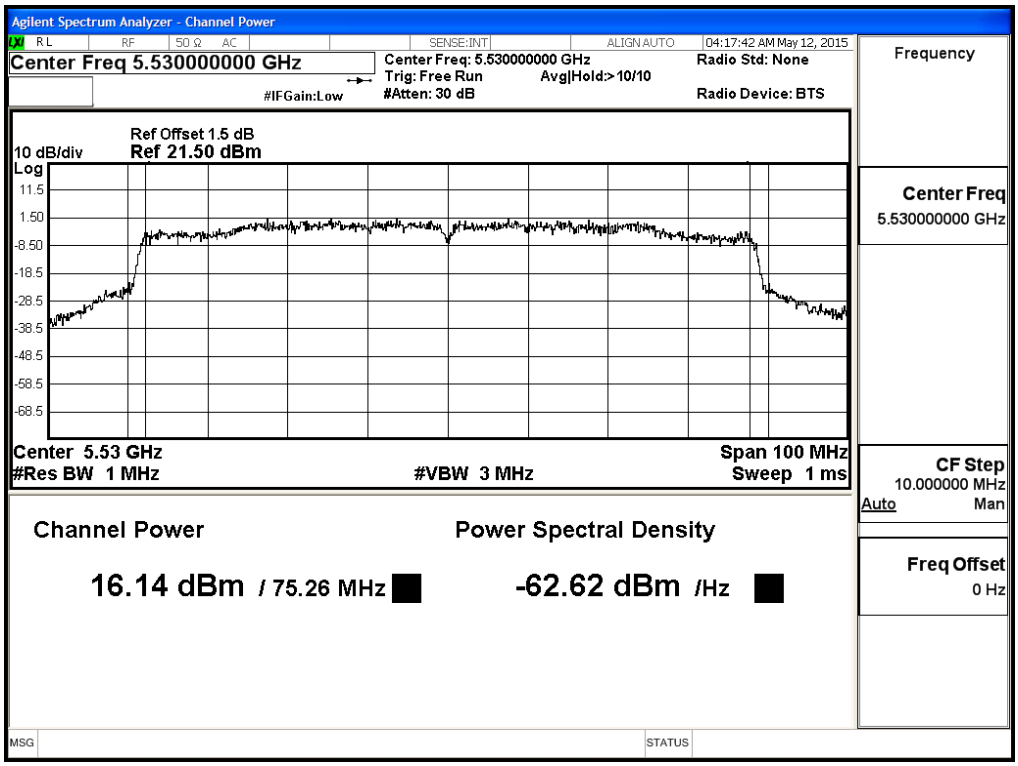

**Maximum conducted output power:**

**Channel 58 – Chain B**



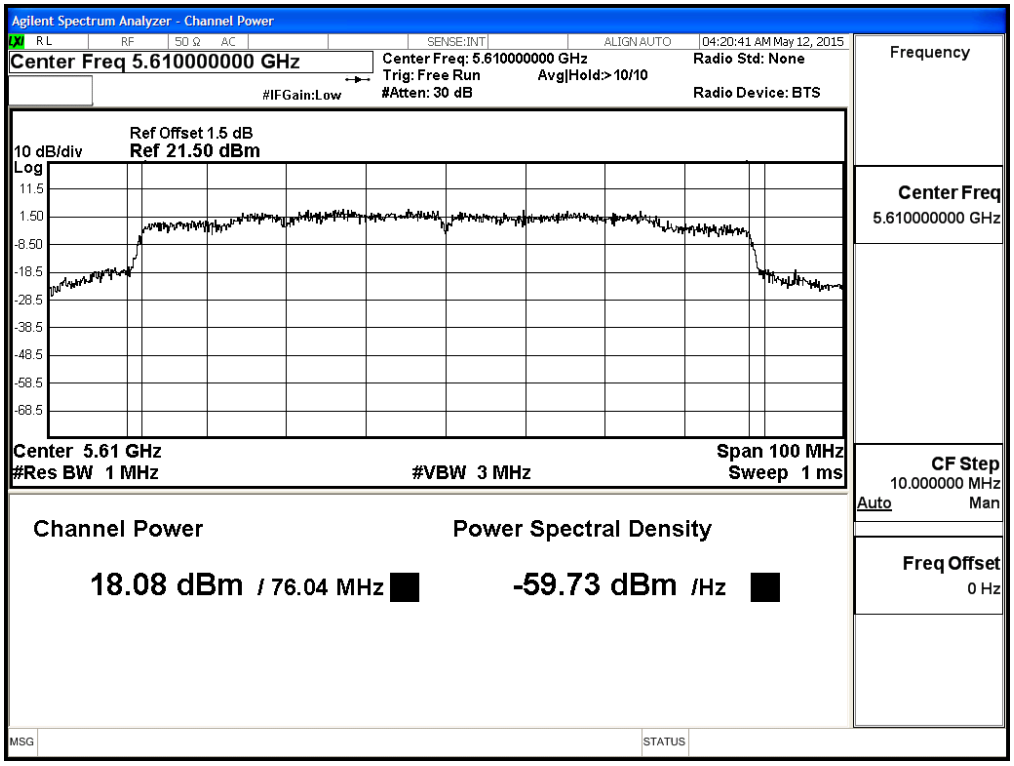

**Maximum conducted output power:**

**Channel 106 – Chain B**



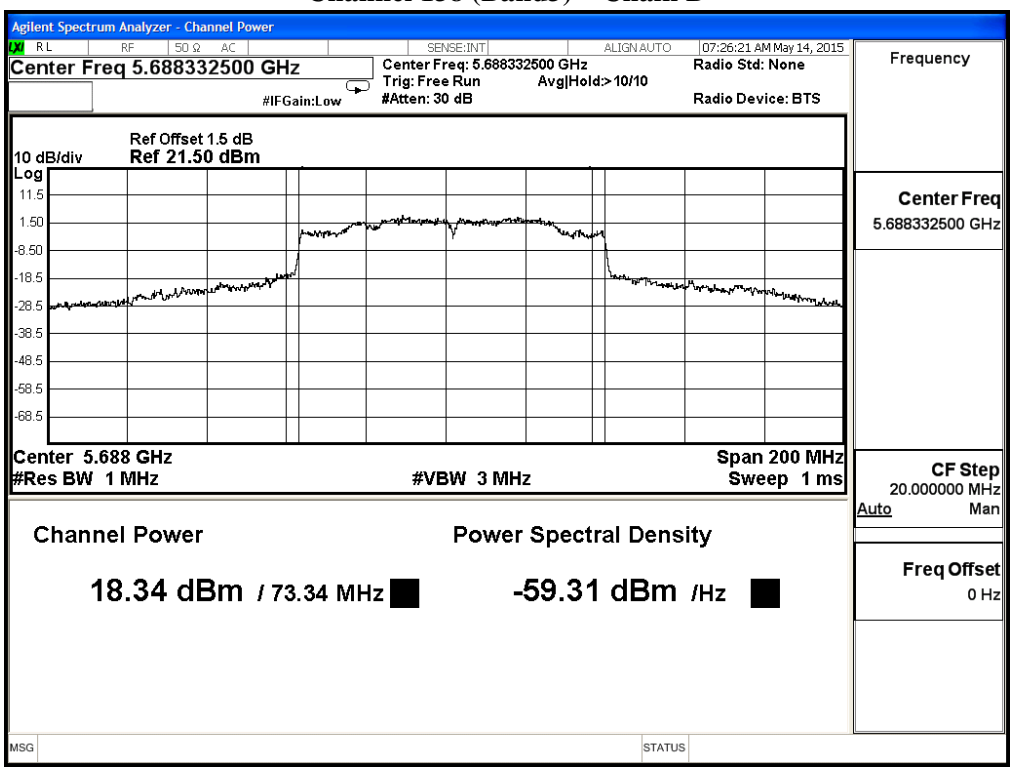

**Maximum conducted output power:**

**Channel 122 – Chain B**



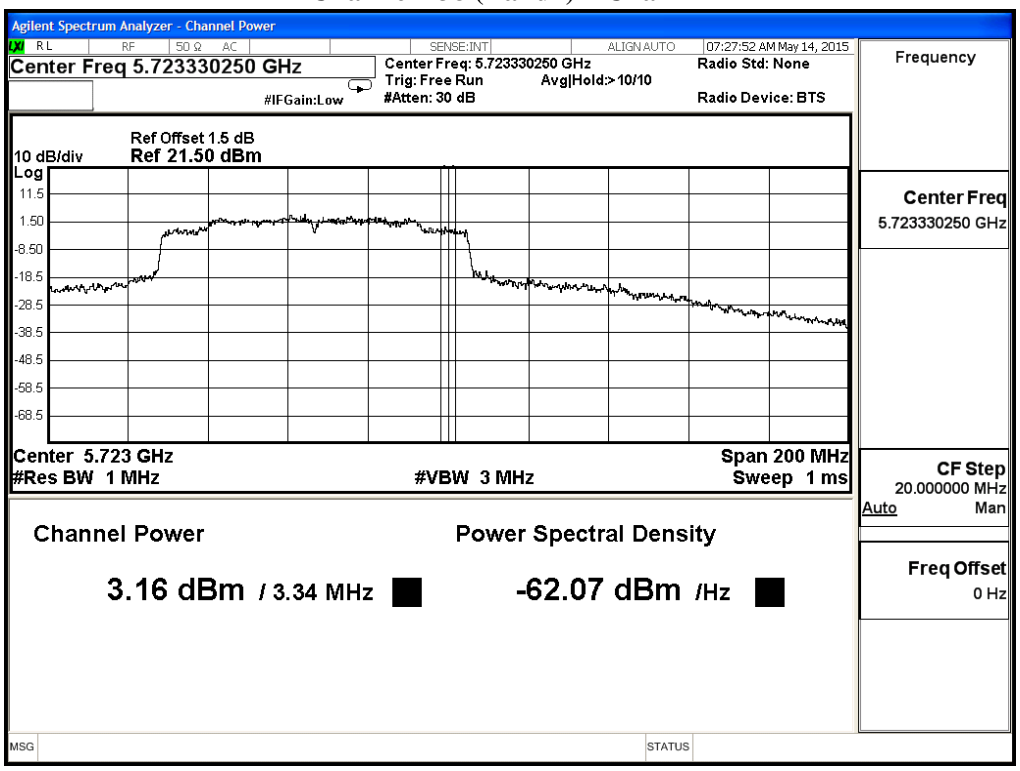
**Maximum conducted output power:**

**Channel 138 (Band3) – Chain B**




**Maximum conducted output power:**

**Channel 138 (Band4) – Chain B**



# 4. Peak Power Spectral Density

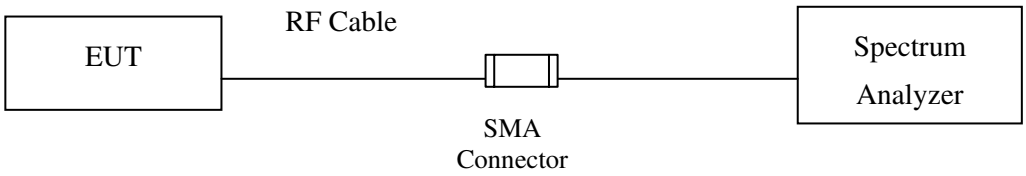
## 4.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|---|---|---|---|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun., 2014 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun., 2014 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr, 2015 |

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

## 4.2. Test Setup




## 4.3. Limits

(1) For the band 5.15-5.25 GHz,

**(i)** For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**(ii)** For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**(iii)** For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-topoint U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the

equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
**(iv)** For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.+

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

## 4.4. Test Procedure

The EUT was setup to ANSI C63.10, 2009; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.
The Peak Power Spectral Density using KDB 789033 section F) procedure, Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer.
SA-1 method is selected to run the test.
For the band 5.725-5.85 GHz, Scale the observed power level to an equivalent value in 500 kHz by adjusting (increase) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (500 kHz/100 kHz) = 6.98 dB.

## 4.5. Uncertainty

± 1.27 dB

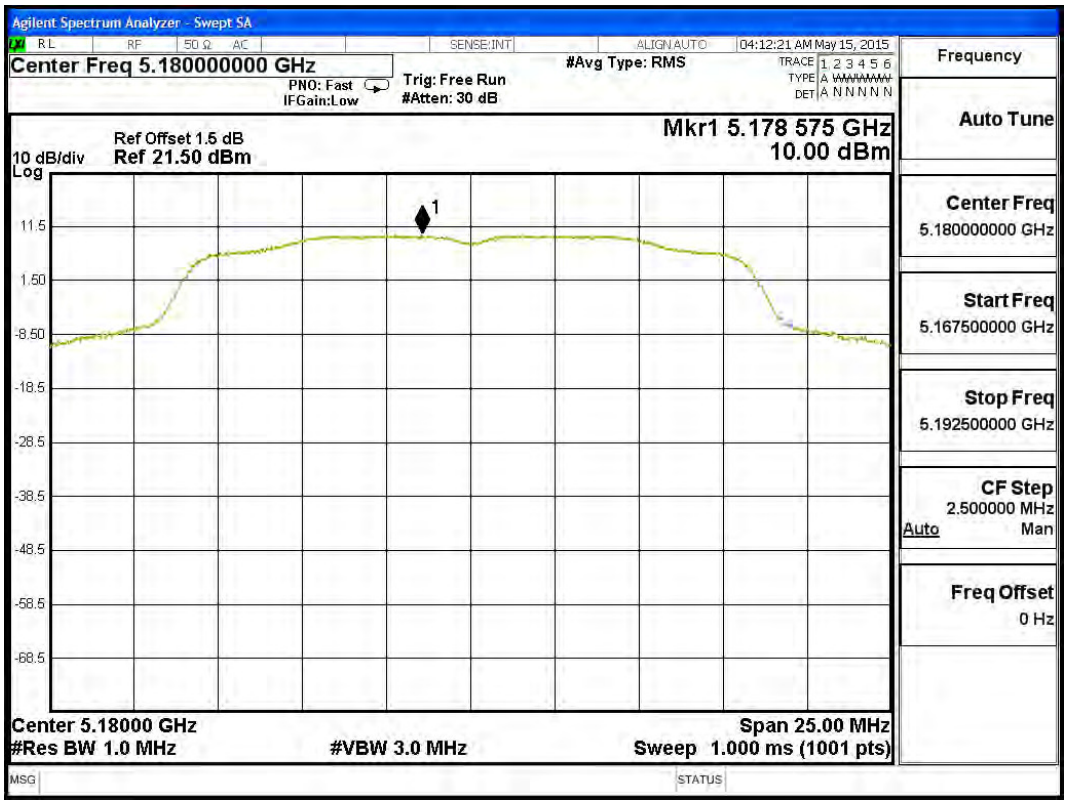
## 4.6. Test Result of Peak Power Spectral Density

Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps)

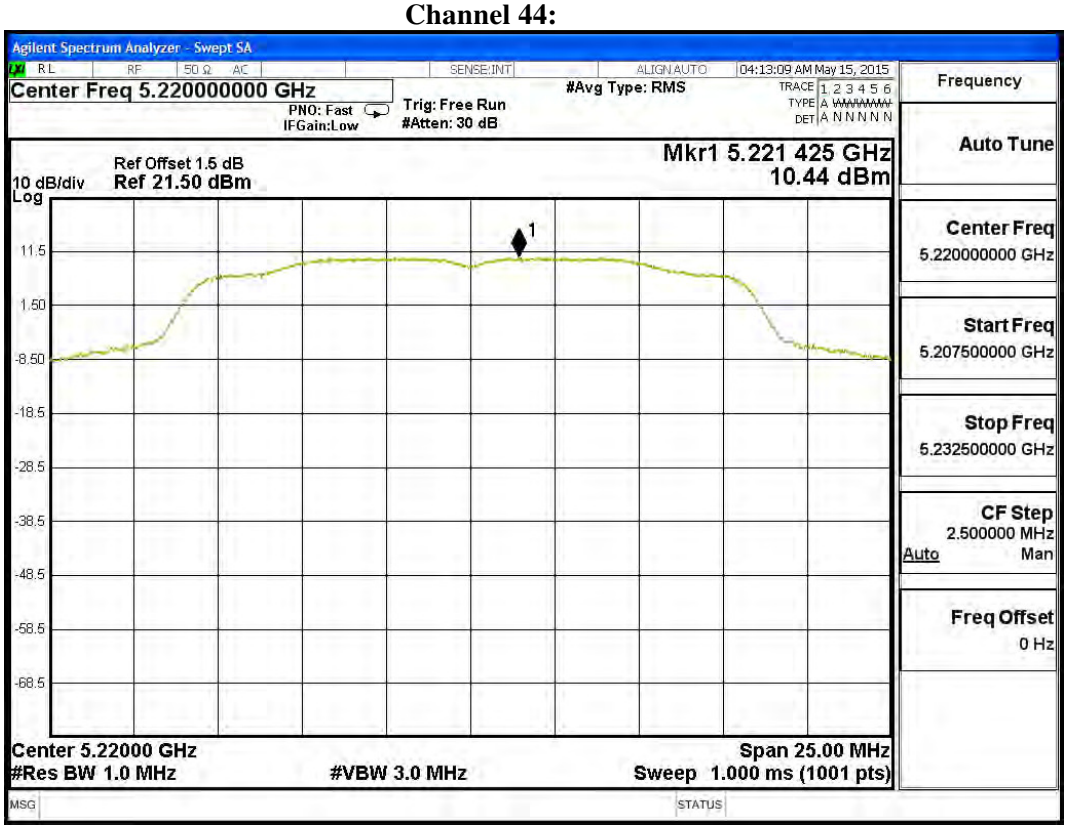
| Channel Number | Frequency (MHz) | Data Rata (Mbps) | PPSD (dBm) | Duty Factor (dB) | Total PPSD (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 6 | 10.000 | 0.08 | 10.080 | 11 | Pass |
| 44 | 5220 | 6 | 10.440 | 0.08 | 10.520 | 11 | Pass |
| 48 | 5240 | 6 | 10.330 | 0.08 | 10.410 | 11 | Pass |
| 52 | 5260 | 6 | 10.220 | 0.08 | 10.290 | 11 | Pass |
| 60 | 5300 | 6 | 10.110 | 0.08 | 10.190 | 11 | Pass |
| 64 | 5320 | 6 | 8.450 | 0.08 | 8.530 | 11 | Pass |
| 100 | 5500 | 6 | 7.510 | 0.08 | 7.590 | 11 | Pass |
| 116 | 5580 | 6 | 9.580 | 0.08 | 9.660 | 11 | Pass |
| 140 | 5700 | 6 | 6.270 | 0.08 | 6.340 | 11 | Pass |

Note: Total PPSD = PPSD value + Duty Factor

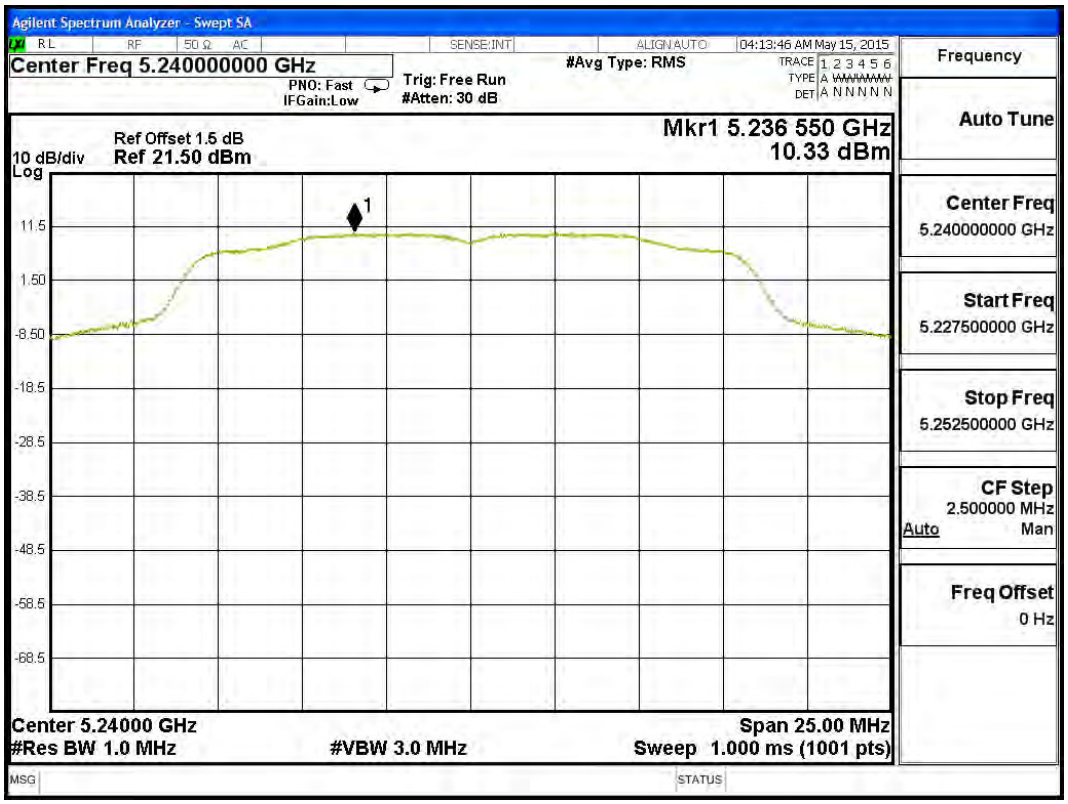
**Channel 36:**



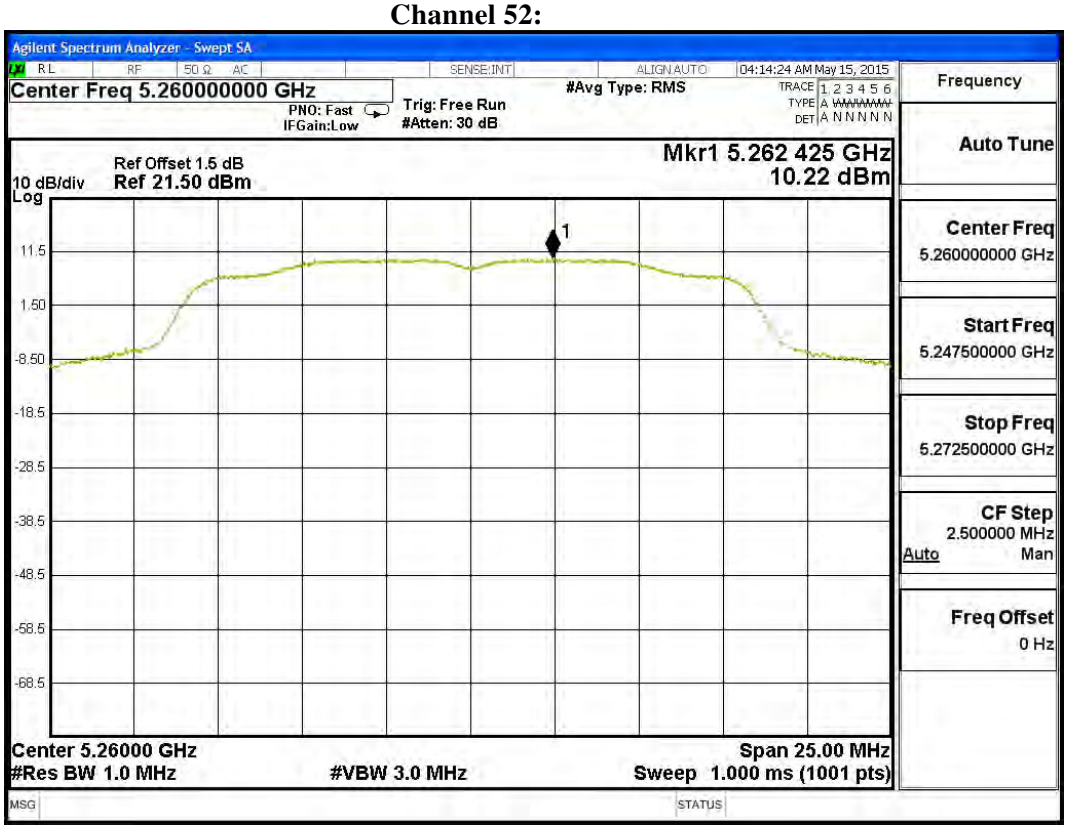

**Channel 44:**



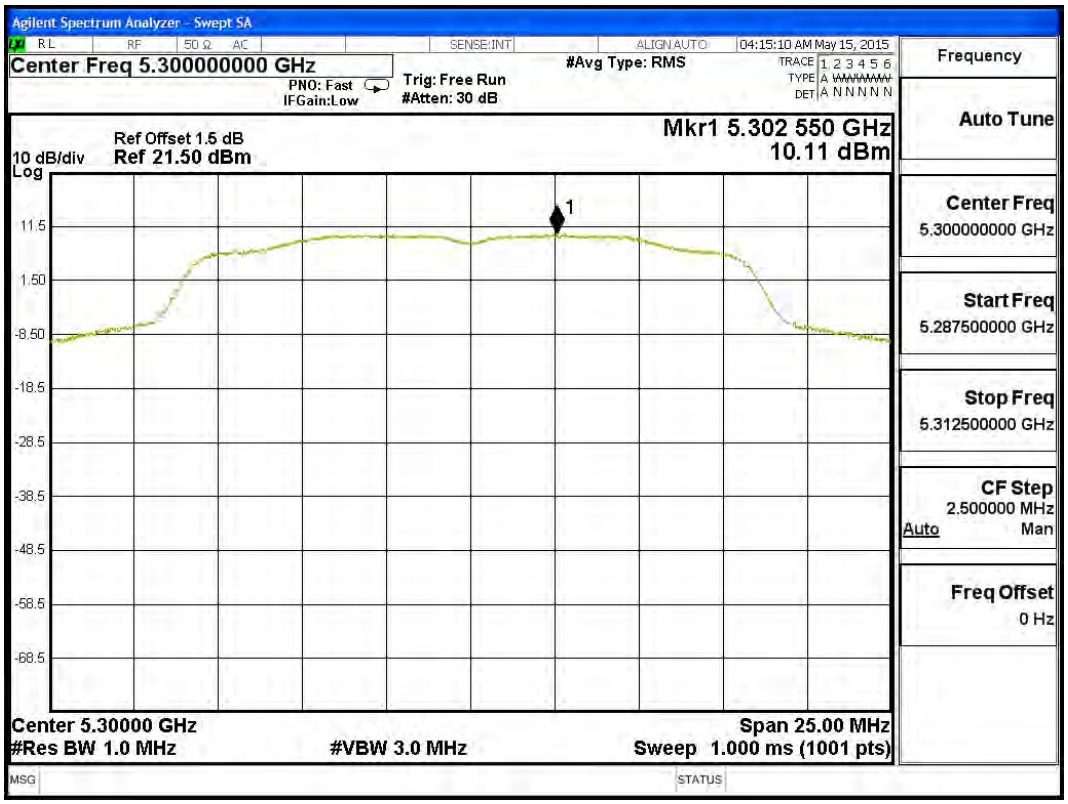
**Channel 48:**



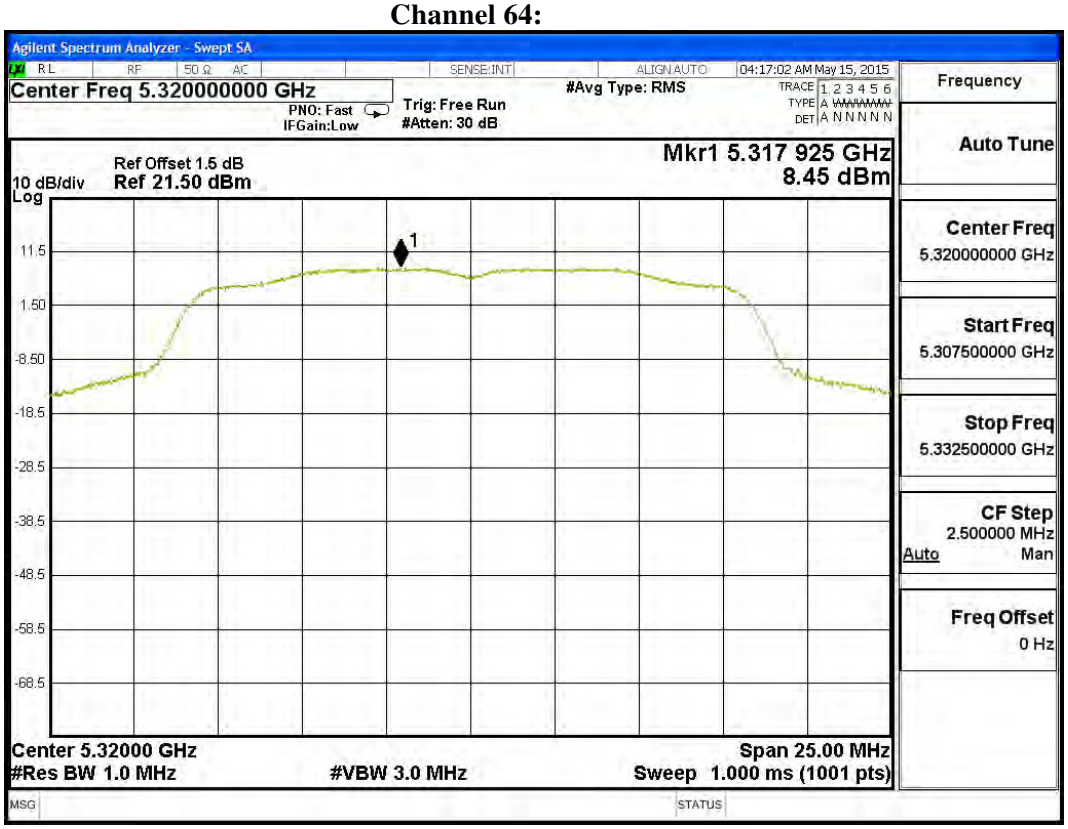

**Channel 52:**



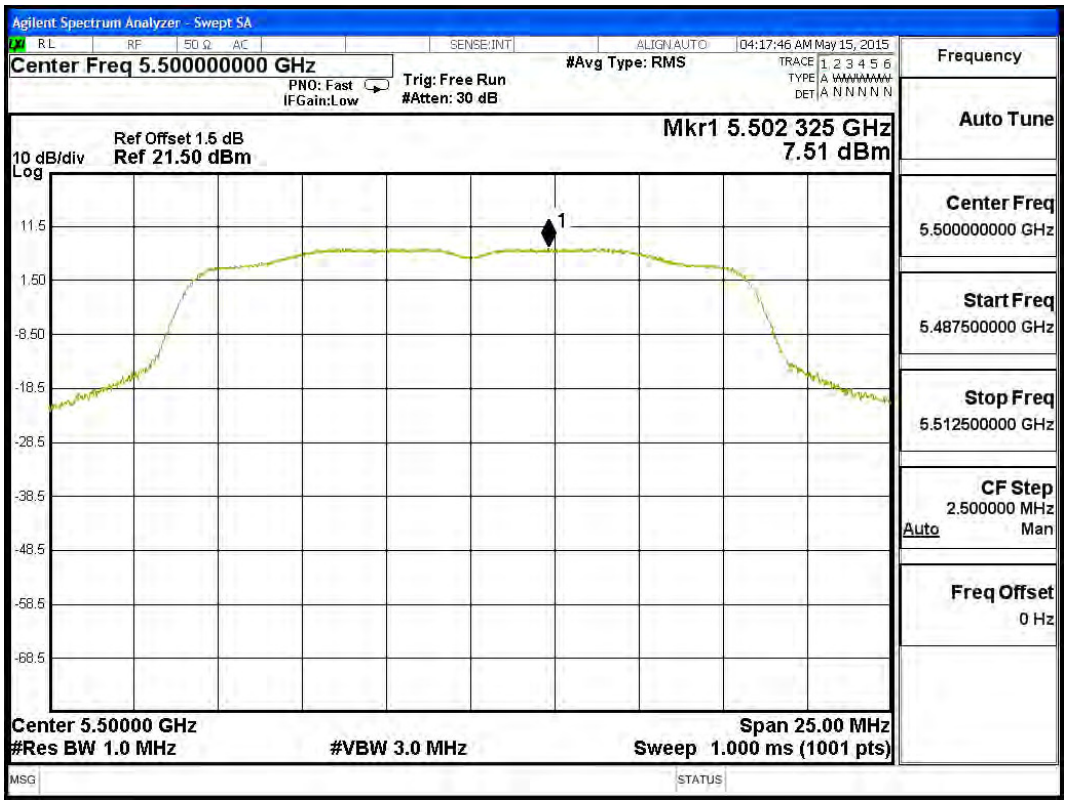
**Channel 60:**



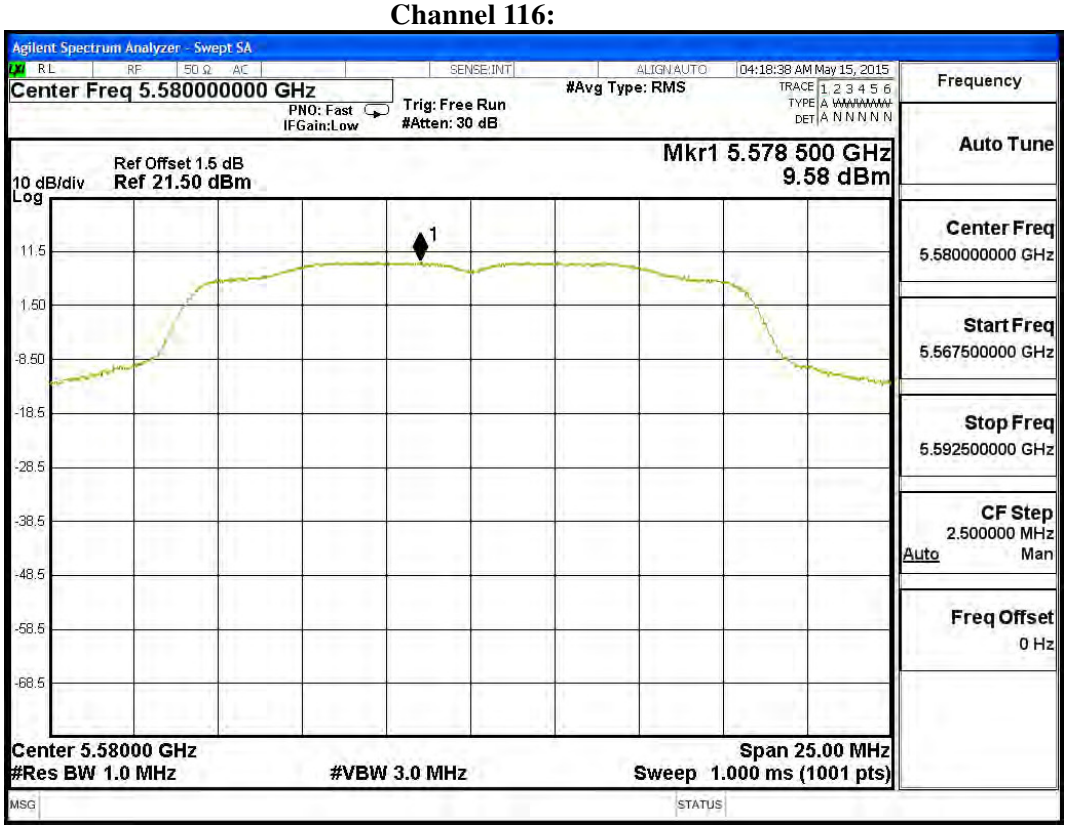

**Channel 64:**



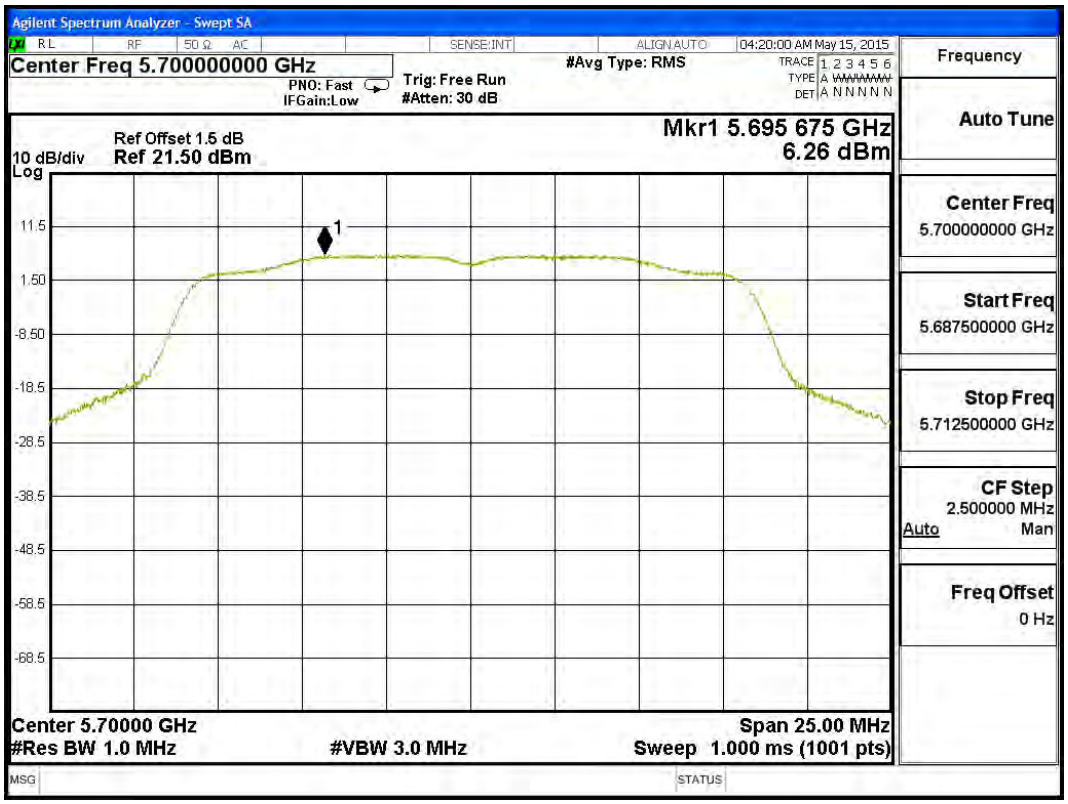
**Channel 100:**




**Channel 116:**



**Channel 140:**

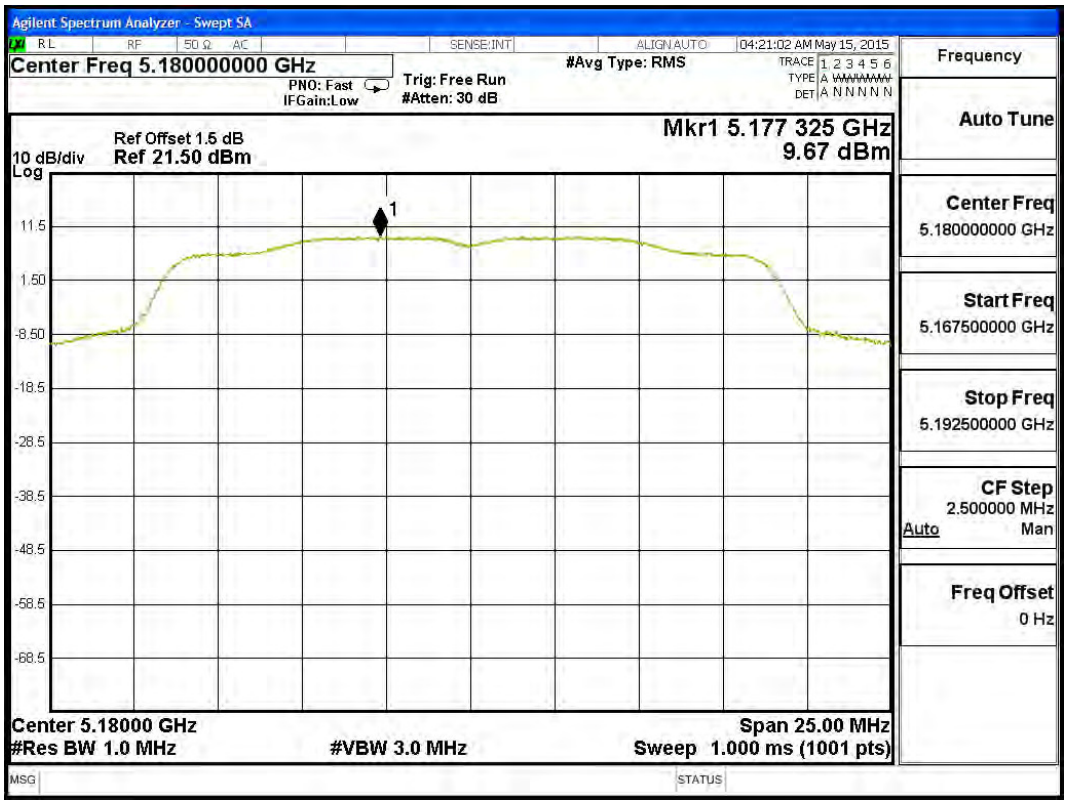

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
04:20:00 AM May 15, 2015
Center Freq 5.700000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Ref Offset 1.5 dB
10 dB/div
Log
Ref 21.50 dBm
Mkr1 5.695 675 GHz
6.26 dBm
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
Center 5.70000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 25.00 MHz
Sweep 1.000 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.700000000 GHz
Start Freq
5.687500000 GHz
Stop Freq
5.712500000 GHz
CF Step
2.500000 MHz
Auto
Man
Freq Offset
0 Hz

Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW 7.2Mbps)

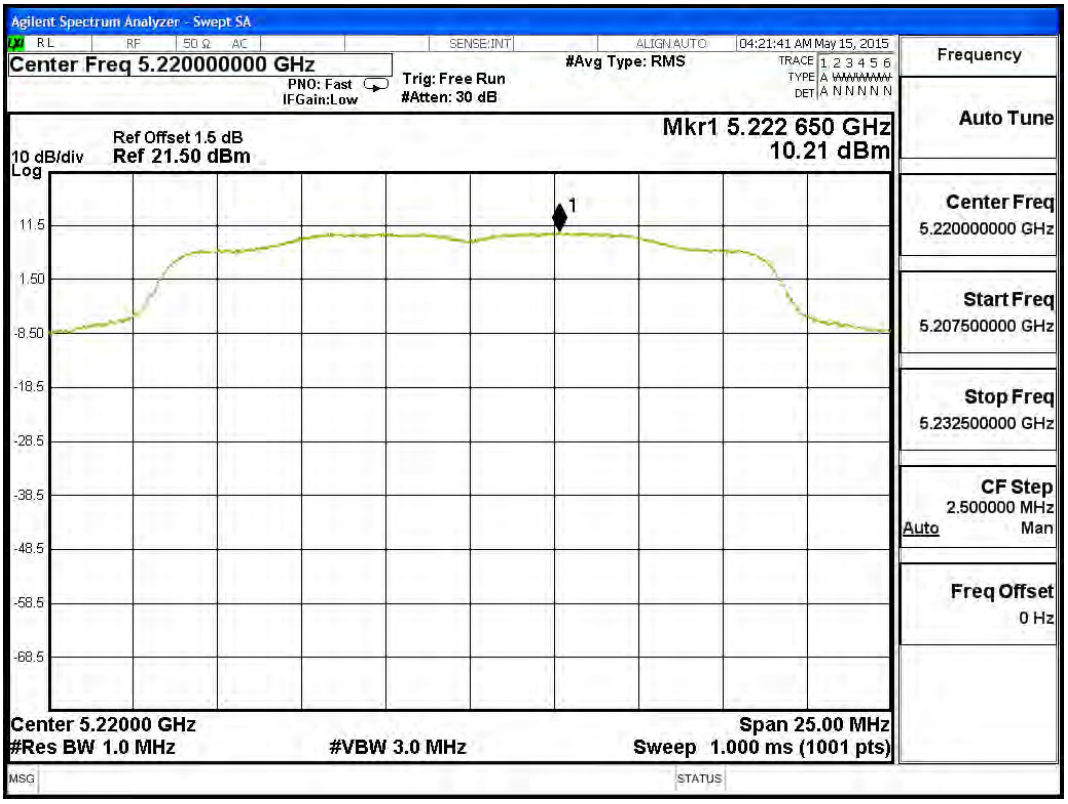
| Channel Number | Frequency (MHz) | Data Rata (Mbps) | PPSD (dBm) | Duty Factor (dB) | Total PPSD (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 7.2 | 9.670 | 0.09 | 9.750 | <11 | Pass |
| 44 | 5220 | 7.2 | 10.210 | 0.09 | 10.300 | <11 | Pass |
| 48 | 5240 | 7.2 | 10.020 | 0.09 | 10.100 | <11 | Pass |
| 52 | 5260 | 7.2 | 9.910 | 0.09 | 10.000 | <11 | Pass |
| 60 | 5300 | 7.2 | 10.080 | 0.09 | 10.160 | <11 | Pass |
| 64 | 5320 | 7.2 | 9.970 | 0.09 | 10.050 | <11 | Pass |
| 100 | 5500 | 7.2 | 7.280 | 0.09 | 7.360 | <11 | Pass |
| 116 | 5580 | 7.2 | 9.770 | 0.09 | 9.860 | <11 | Pass |
| 140 | 5700 | 7.2 | 6.070 | 0.09 | 6.160 | <11 | Pass |

Note: Total PPSD = PPSD value + Duty Factor

**Channel 36**

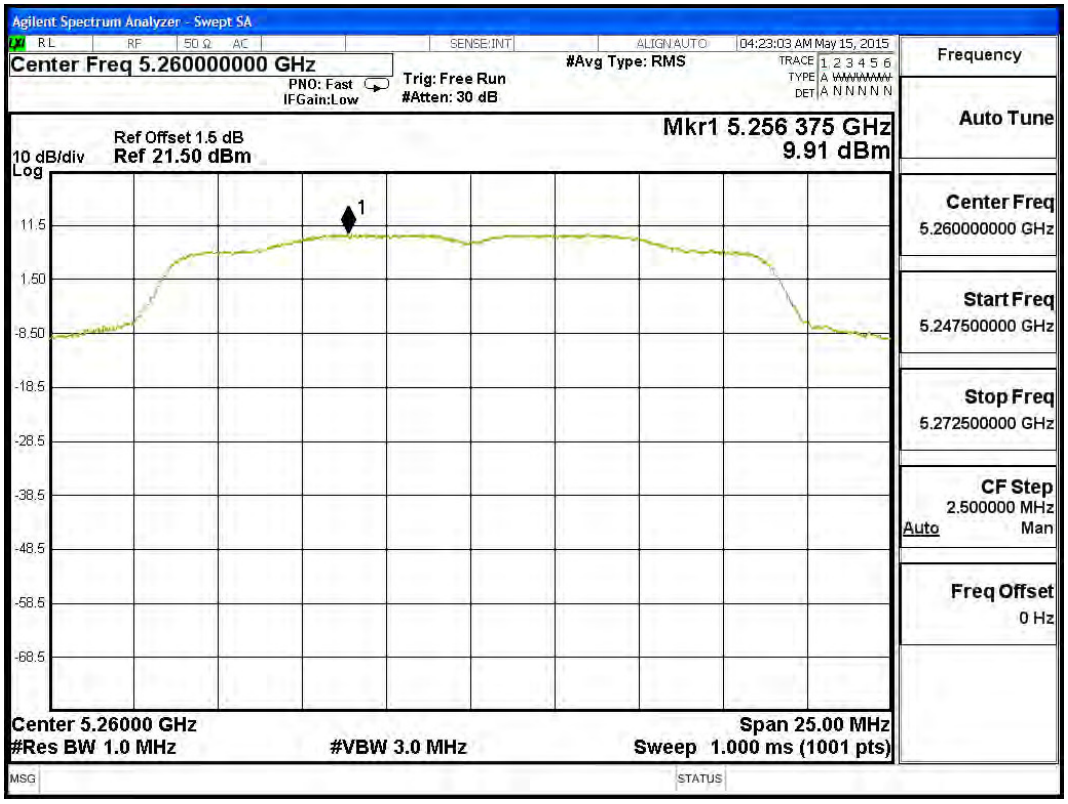



**Channel 44**

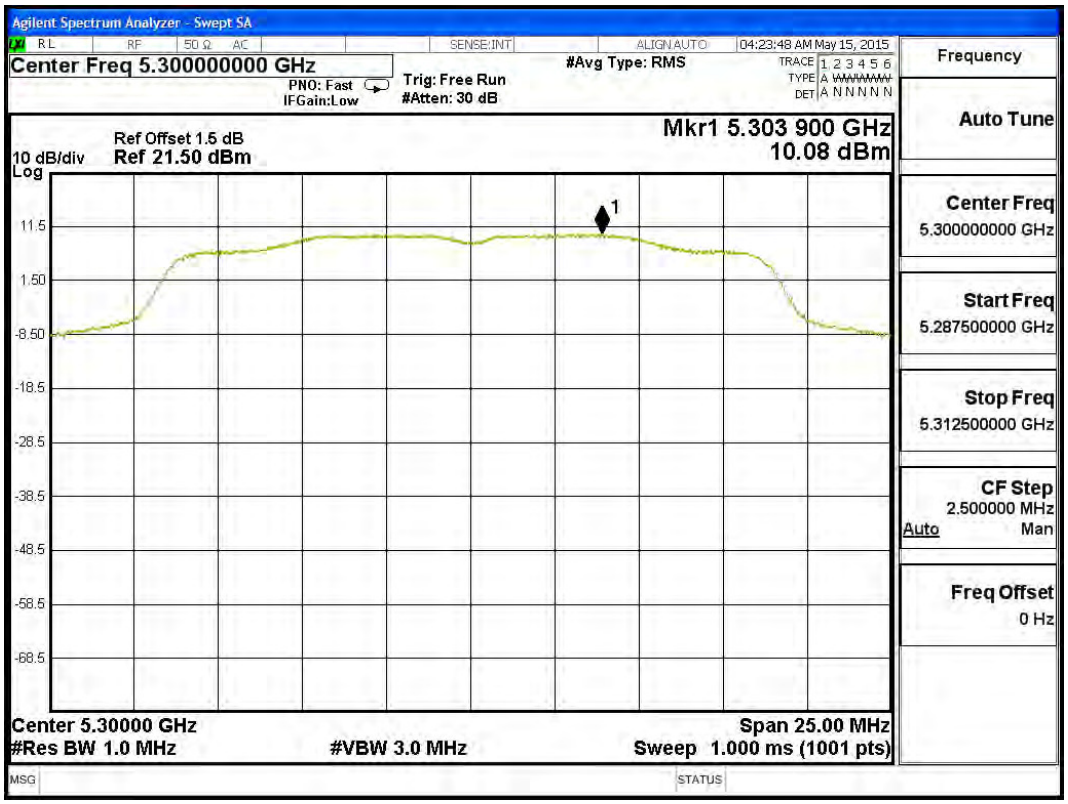


**Channel 48**

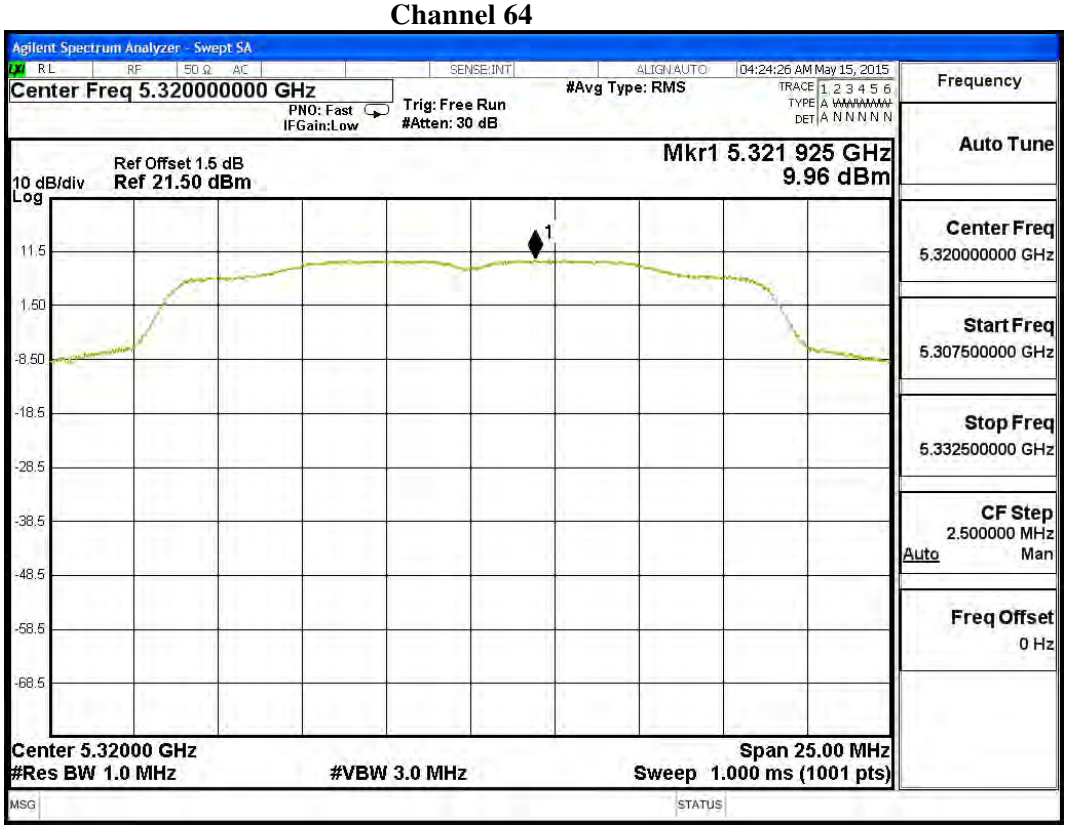

**Channel 52**



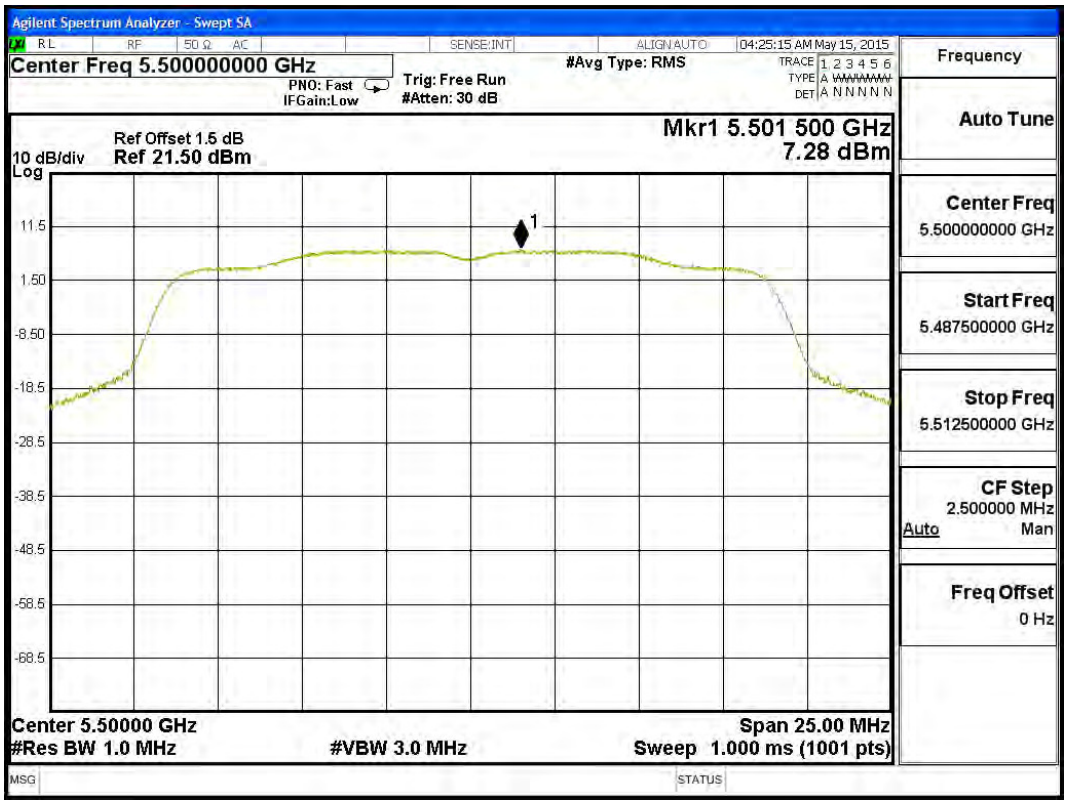
**Channel 60**



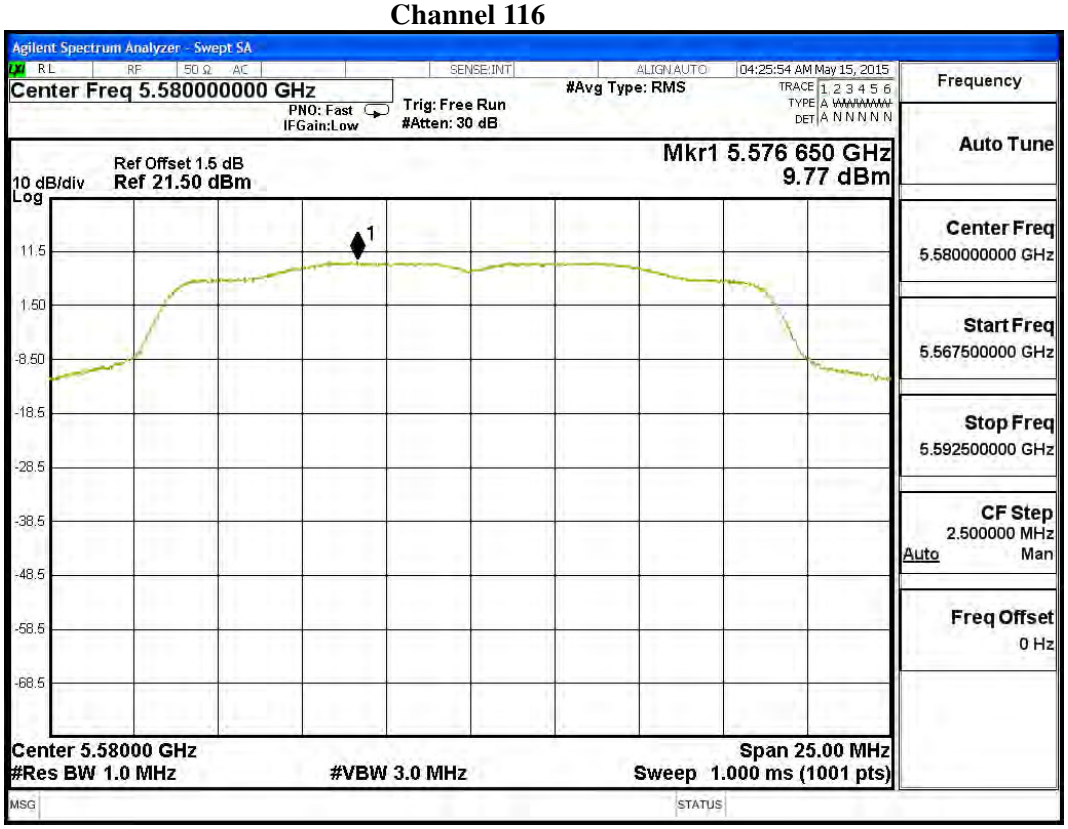

**Channel 64**



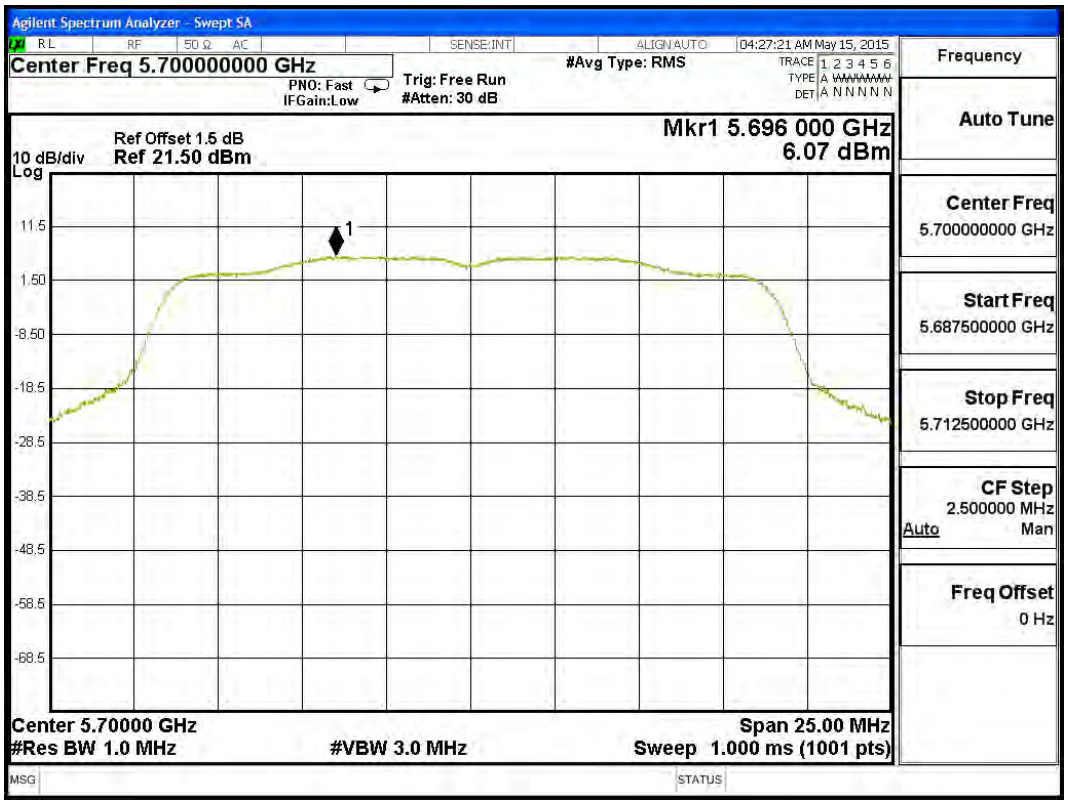
**Channel 100**




**Channel 116**



**Channel 140**

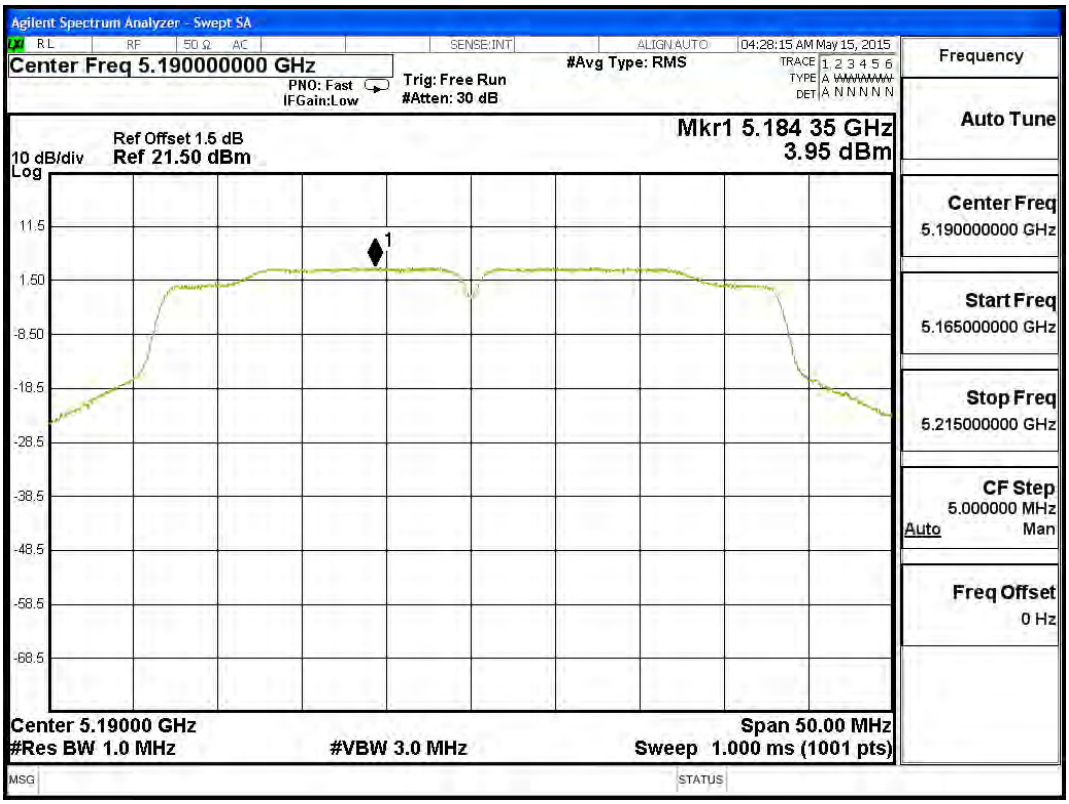

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.700000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
04:27:21 AM May 15, 2015
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
Mkr1 5.696 000 GHz
6.07 dBm
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
Center 5.70000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 25.00 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.700000000 GHz
Start Freq
5.687500000 GHz
Stop Freq
5.712500000 GHz
CF Step
2.500000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW 15Mbps)

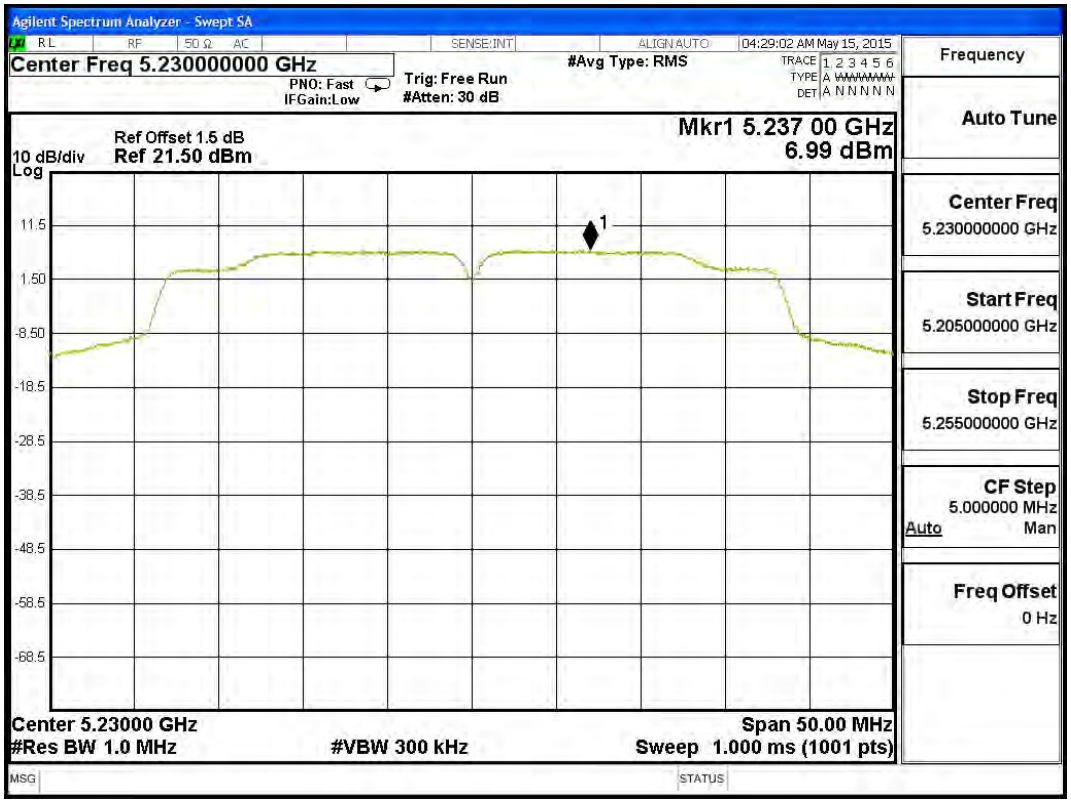
| Channel Number | Frequency (MHz) | Data Rata (Mbps) | PPSD (dBm) | Duty Factor (dB) | Total PPSD (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| 38 | 5190 | 15 | 3.950 | 0.15 | 4.100 | <11 | Pass |
| 46 | 5230 | 15 | 6.990 | 0.15 | 7.140 | <11 | Pass |
| 54 | 5270 | 15 | 7.811 | 0.15 | 7.961 | <11 | Pass |
| 62 | 5310 | 15 | 1.961 | 0.15 | 2.111 | <11 | Pass |
| 102 | 5510 | 15 | 1.037 | 0.15 | 1.187 | <11 | Pass |
| 110 | 5550 | 15 | 6.920 | 0.15 | 7.070 | <11 | Pass |
| 134 | 5670 | 15 | 4.900 | 0.15 | 5.050 | <11 | Pass |

Note: Total PPSD = PPSD value + Duty Factor

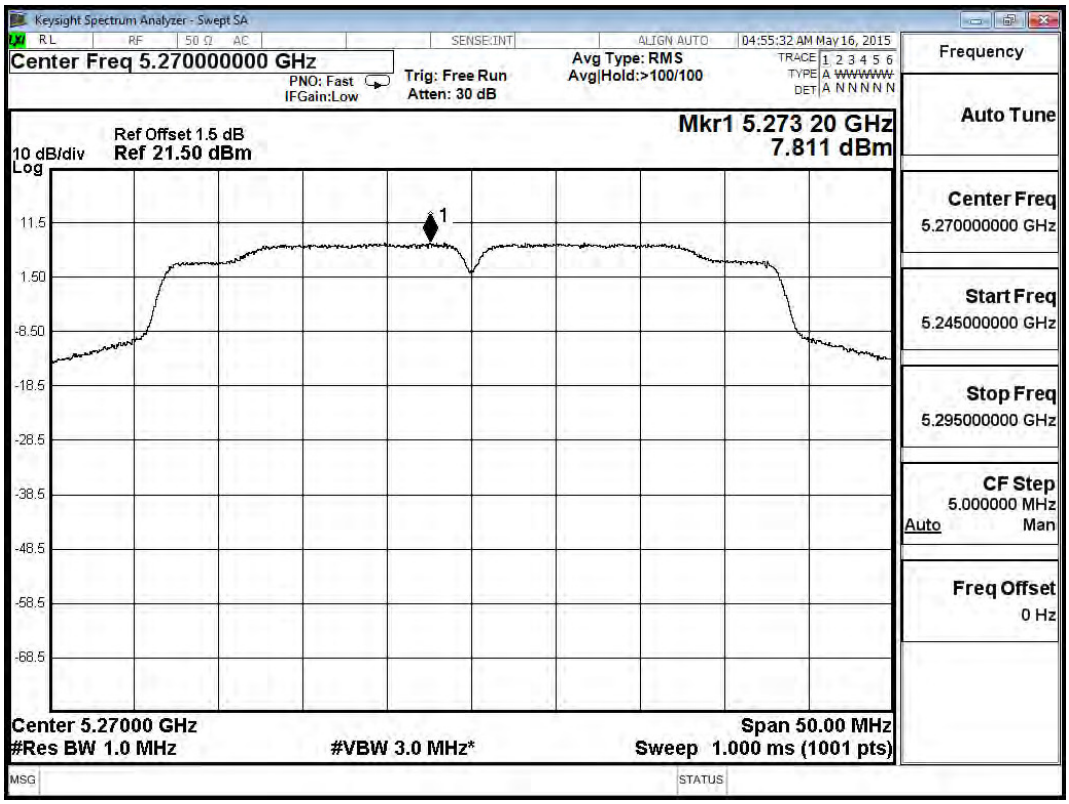
**Channel 38**



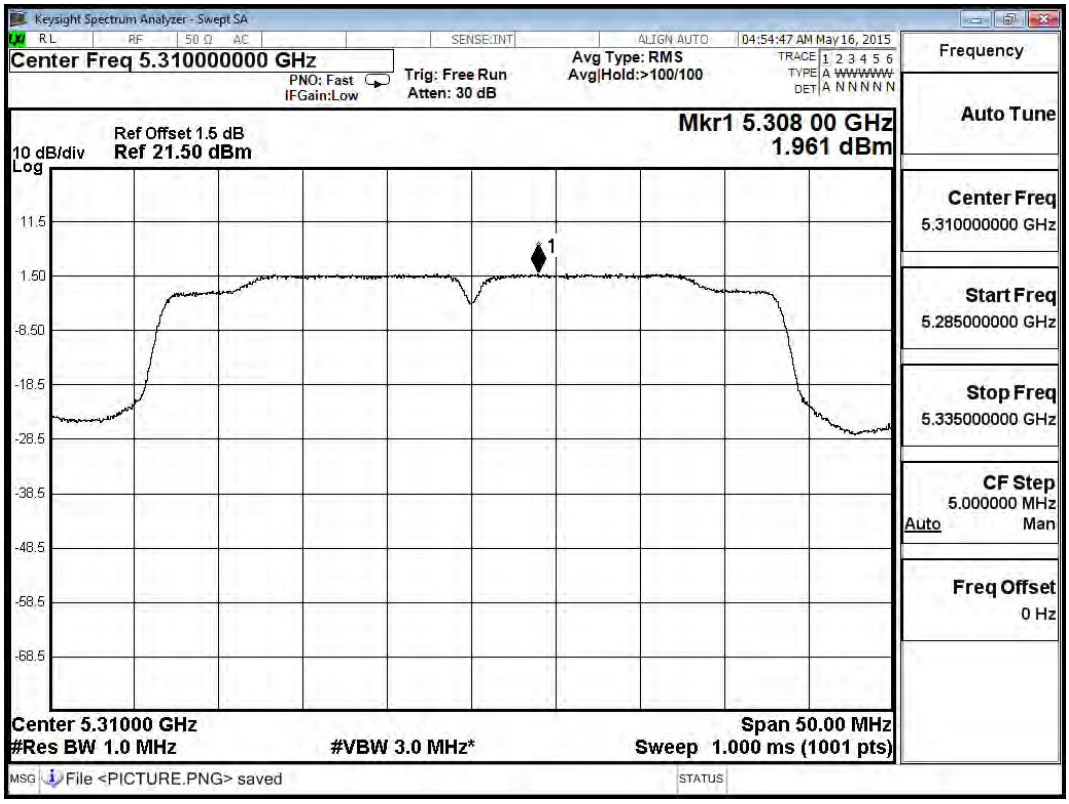

**Channel 46**



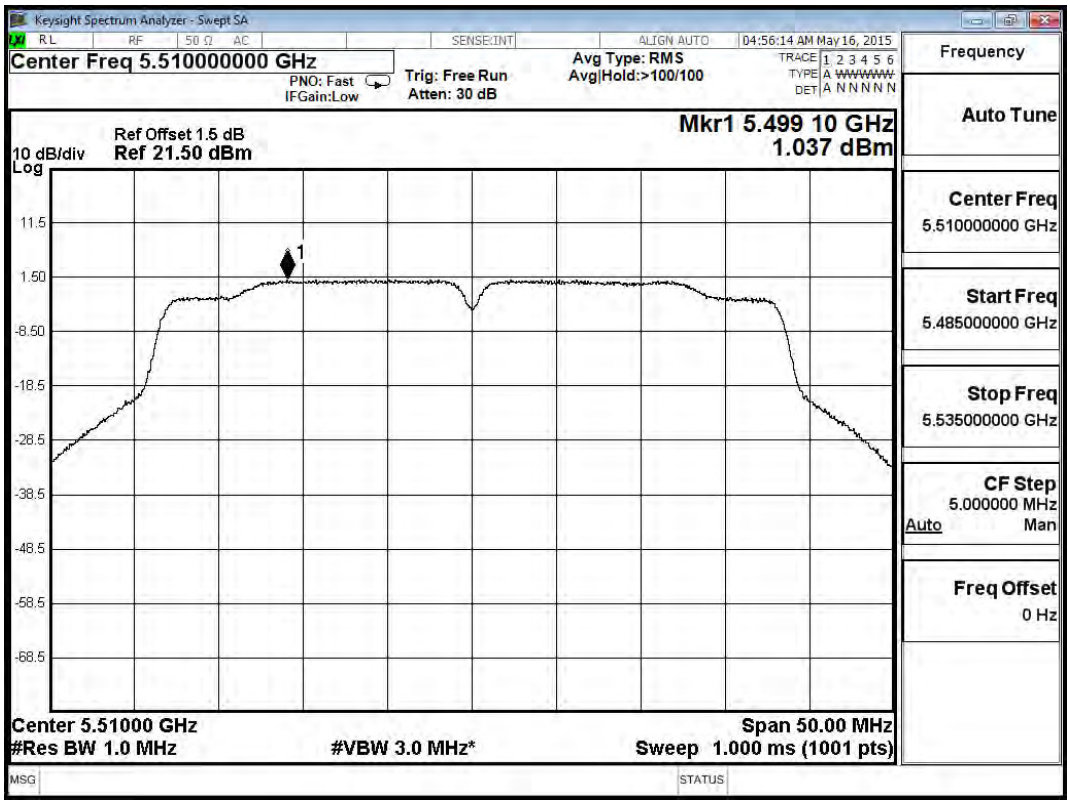
**Channel 54**



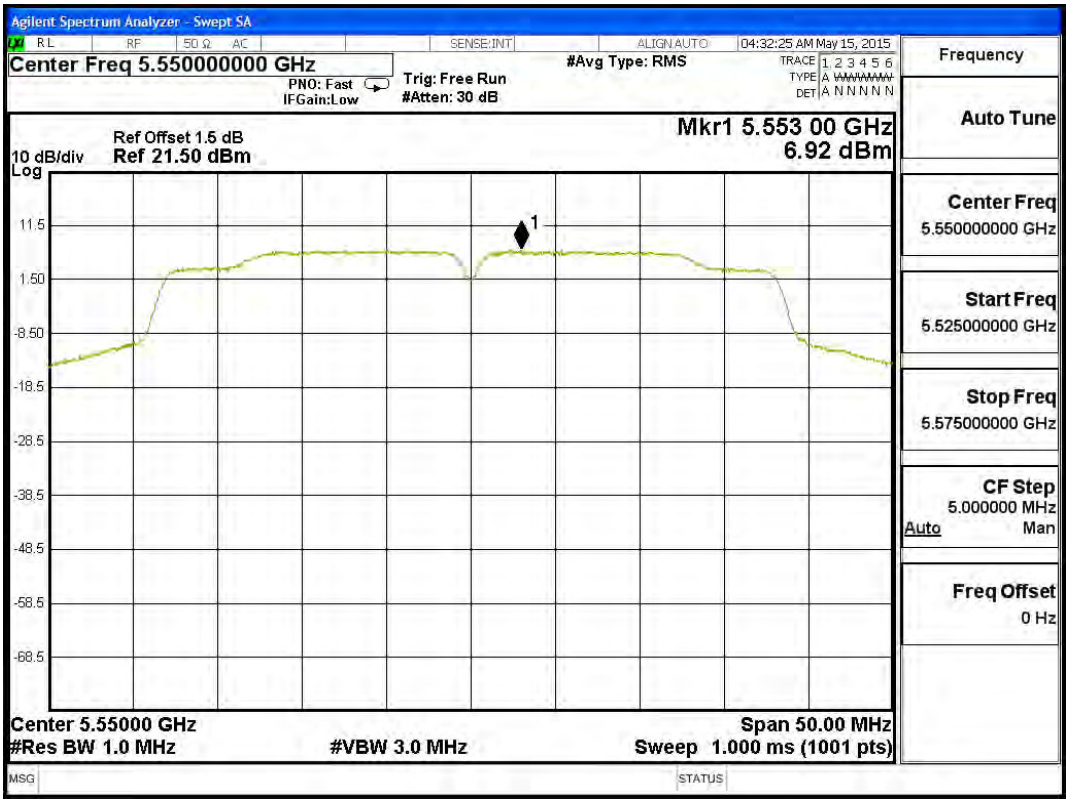

**Channel 62**



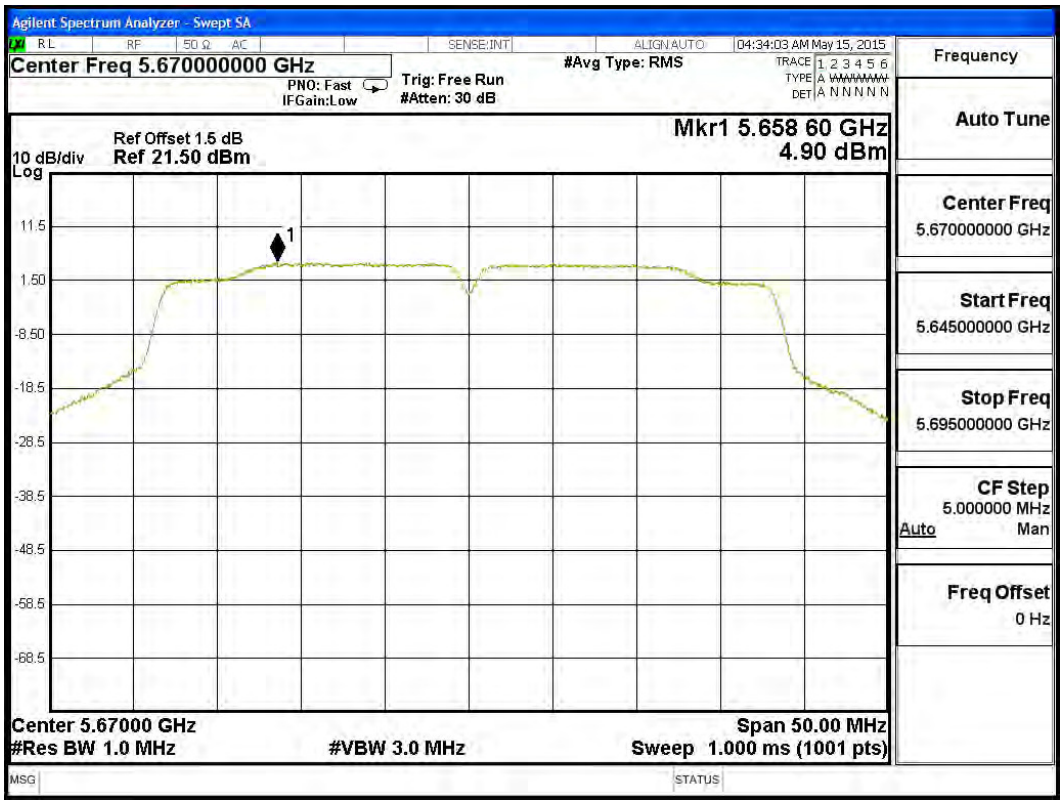
**Channel 102**




**Channel 110**



**Channel 134**

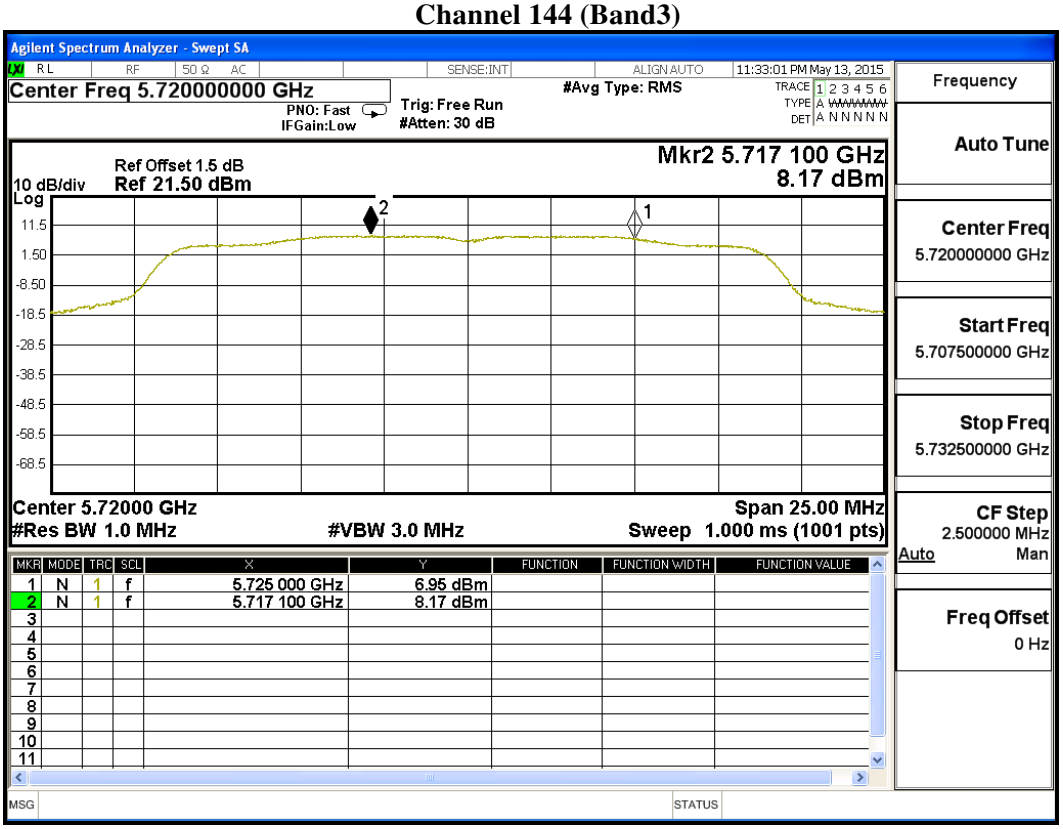

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
04:34:03 AM May 15, 2015
Center Freq 5.670000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Ref Offset 1.5 dB
10 dB/div
Log
Ref 21.50 dBm
Mkr1 5.658 60 GHz
4.90 dBm
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
1
Center 5.67000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 50.00 MHz
Sweep 1.000 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.670000000 GHz
Start Freq
5.645000000 GHz
Stop Freq
5.695000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-20BW-7.2Mbps)

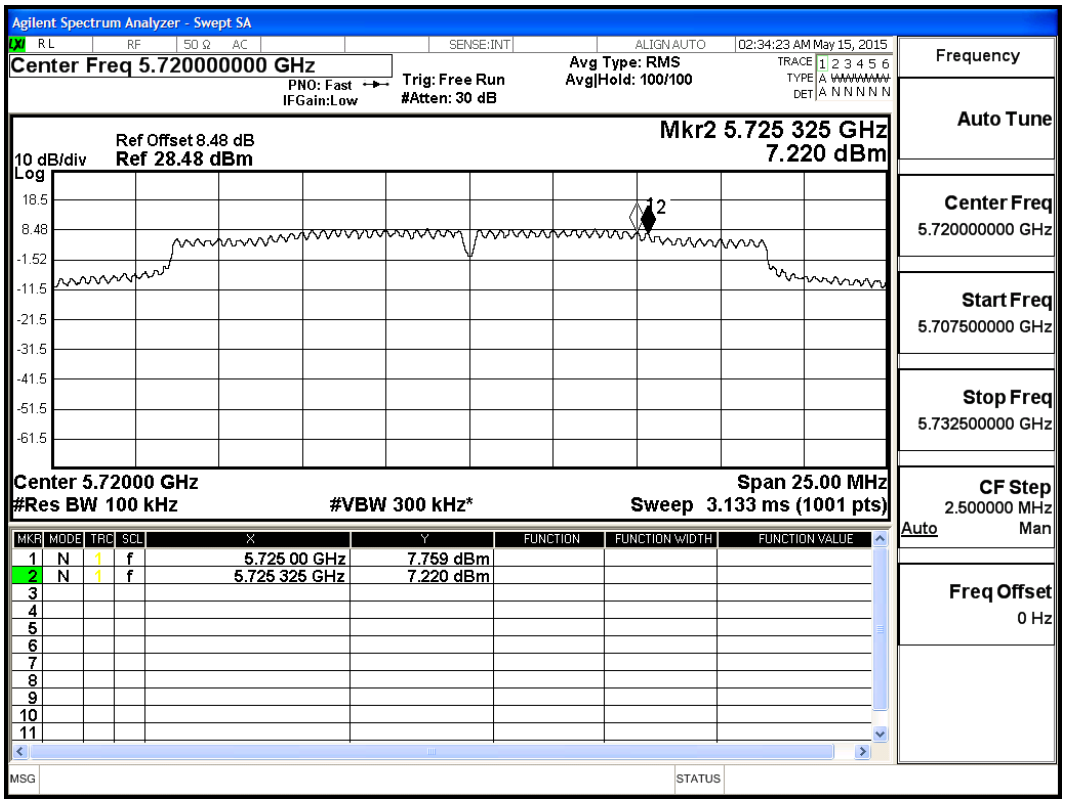
| Channel Number | Frequency (MHz) | PPSD (dBm) | BWCF (dB) | Duty Factor (dB) | Total PPSD (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| 144 | 5720(Band3) | 8.170 | -- | 0.09 | 8.260 | <11 | Pass |
| 144 | 5720(Band4) | 7.220 | 6.98 | 0.09 | 14.290 | <30 | Pass |

Note: Total PPSD = PPSD value + Duty Factor

**Channel 144 (Band3)**




**Channel 144 (Band4)**

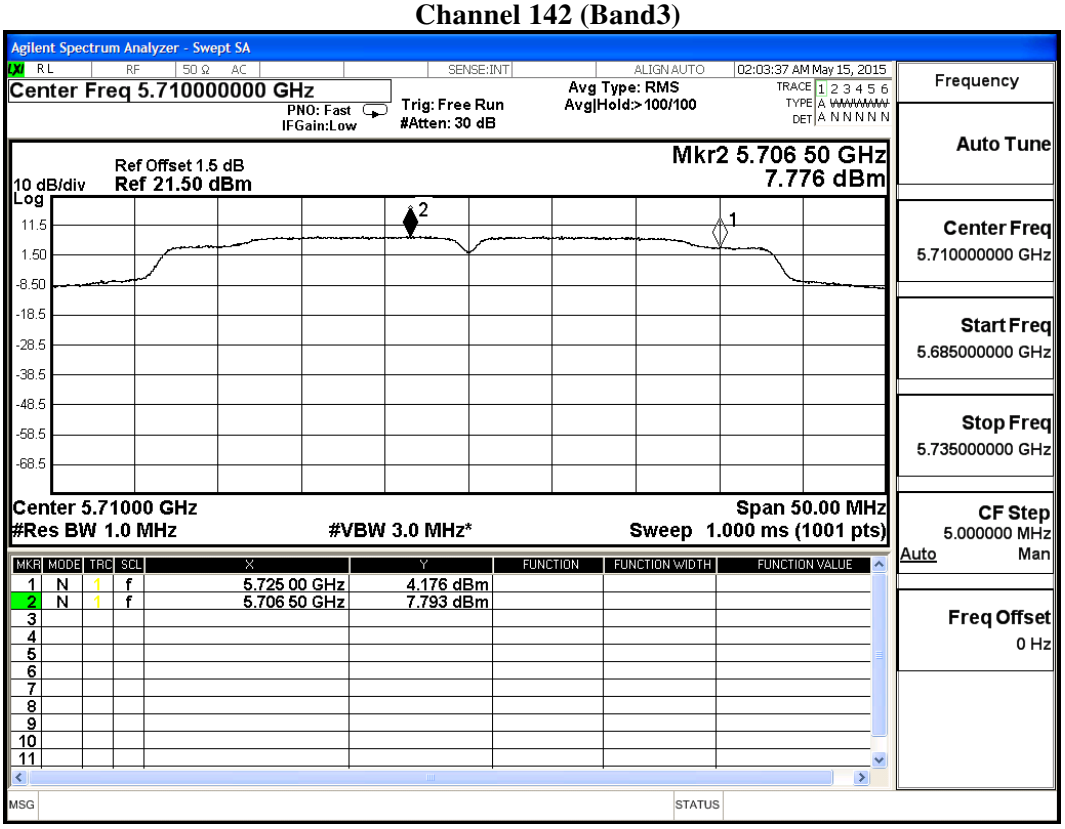


Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-40BW-15Mbps)

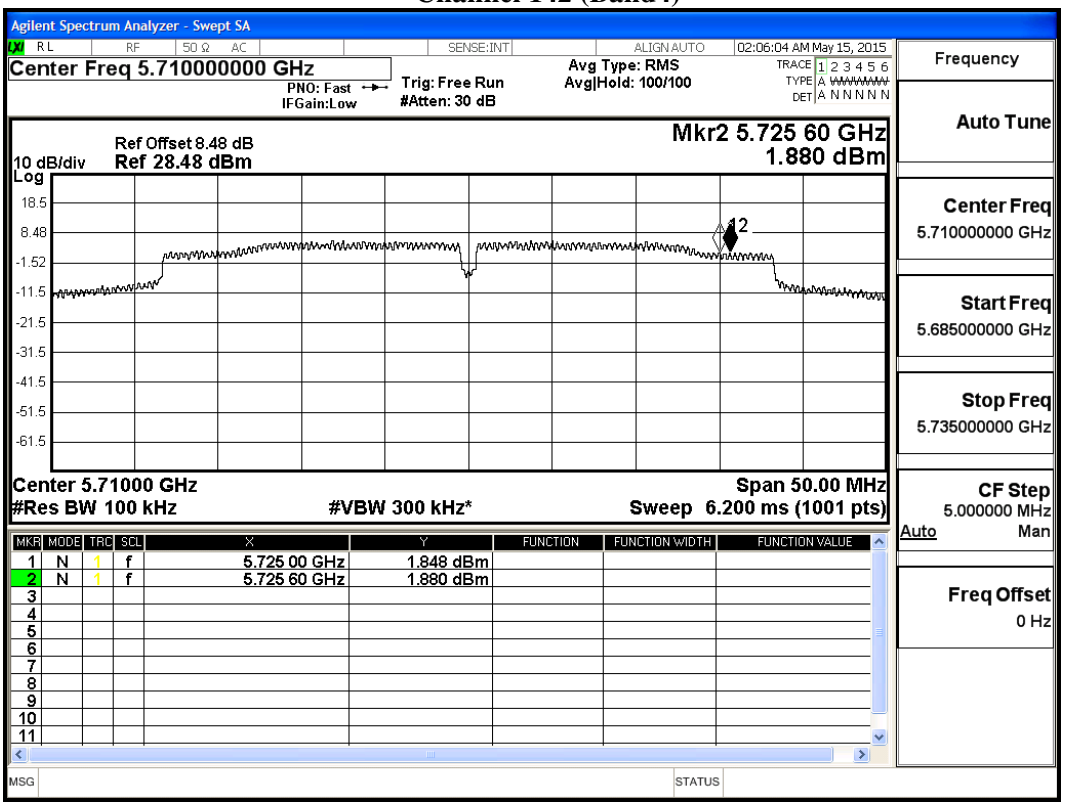
| Channel Number | Frequency (MHz) | PPSD (dBm) | BWCF (dB) | Duty Factor (dB) | Total PPSD (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| 142 | 5710(Band3) | 7.760 | -- | 0.15 | 7.910 | <11 | Pass |
| 142 | 5710(Band4) | 1.880 | 6.98 | 0.15 | 9.010 | <30 | Pass |

Note: Total PPSD = PPSD value + Duty Factor

## Channel 142 (Band3)




## Channel 142 (Band4)

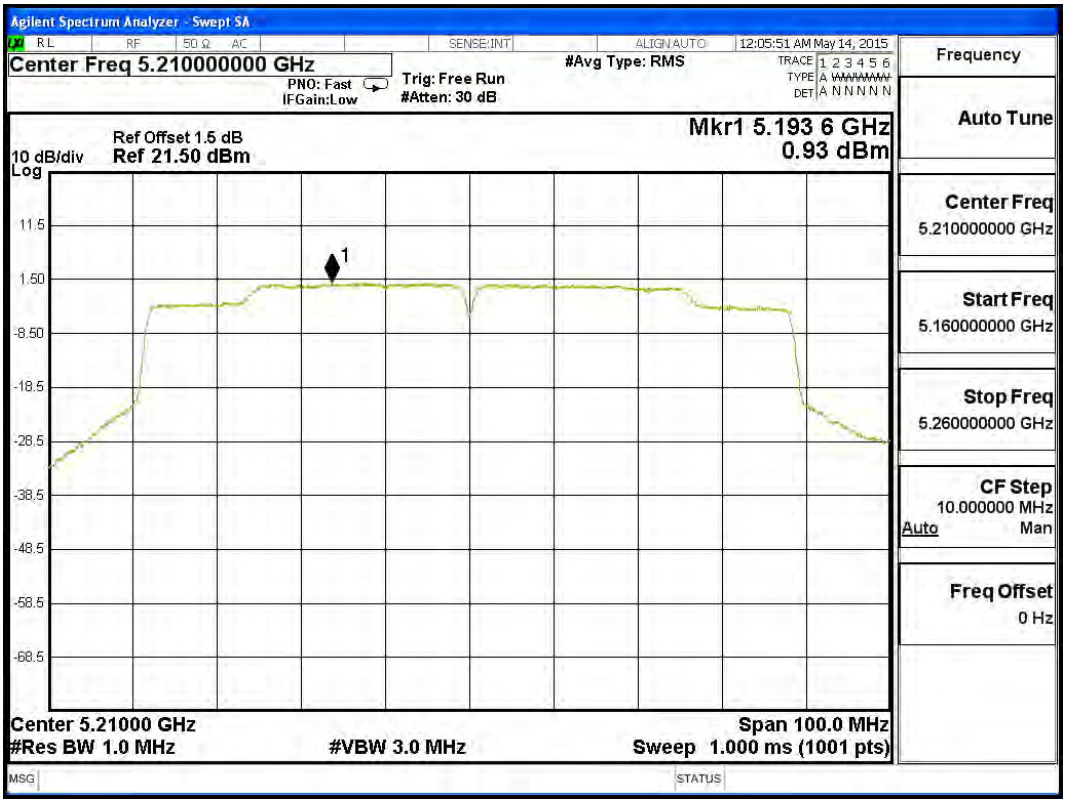


Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps)

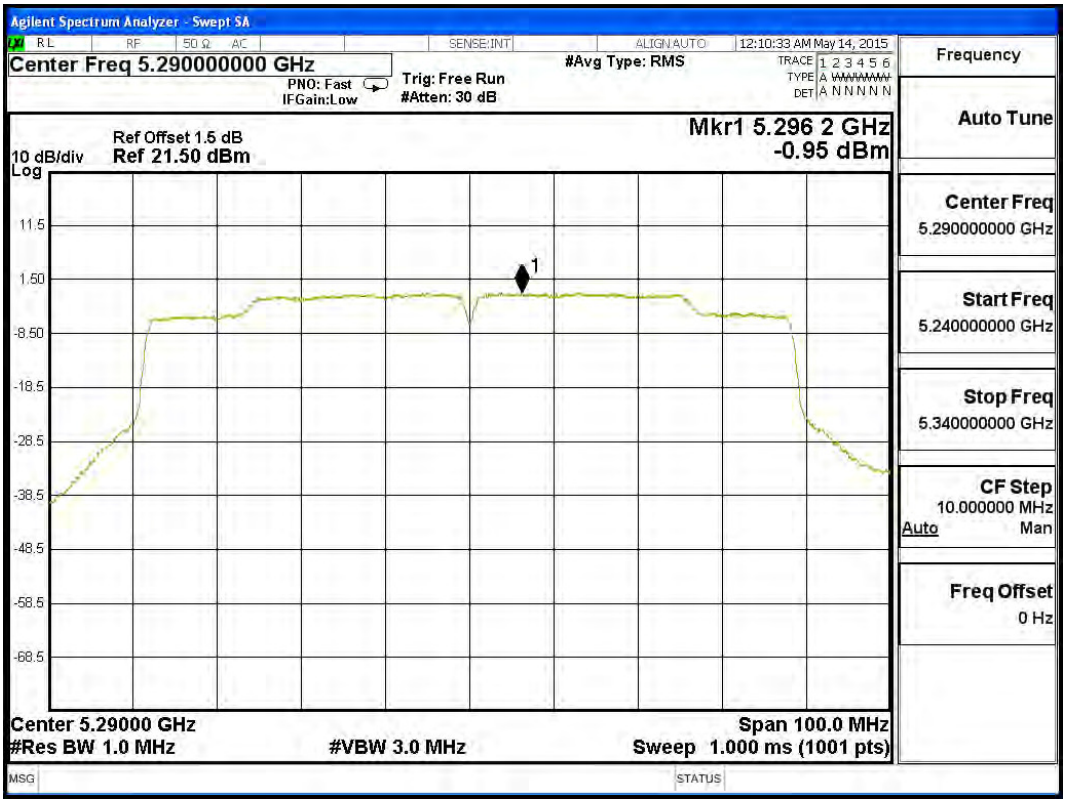
| Channel Number | Frequency (MHz) | PPSD (dBm) | BWCF (dB) | Duty Factor (dB) | Total PPSD (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| 42 | 5210 | 0.930 | -- | 0.31 | 1.240 | <11 | Pass |
| 58 | 5290 | -0.950 | -- | 0.31 | -0.640 | <11 | Pass |
| 106 | 5530 | -1.930 | -- | 0.31 | -1.620 | <11 | Pass |
| 122 | 5610 | -0.280 | -- | 0.31 | 0.030 | <11 | Pass |
| 138 | 5690 (Band3) | 4.479 | -- | 0.31 | 4.789 | <11 | Pass |
| 138 | 5690 (Band4) | -3.000 | 6.98 | 0.31 | 4.290 | <30 | Pass |

Note: Total PPSD = PPSD value + Duty Factor

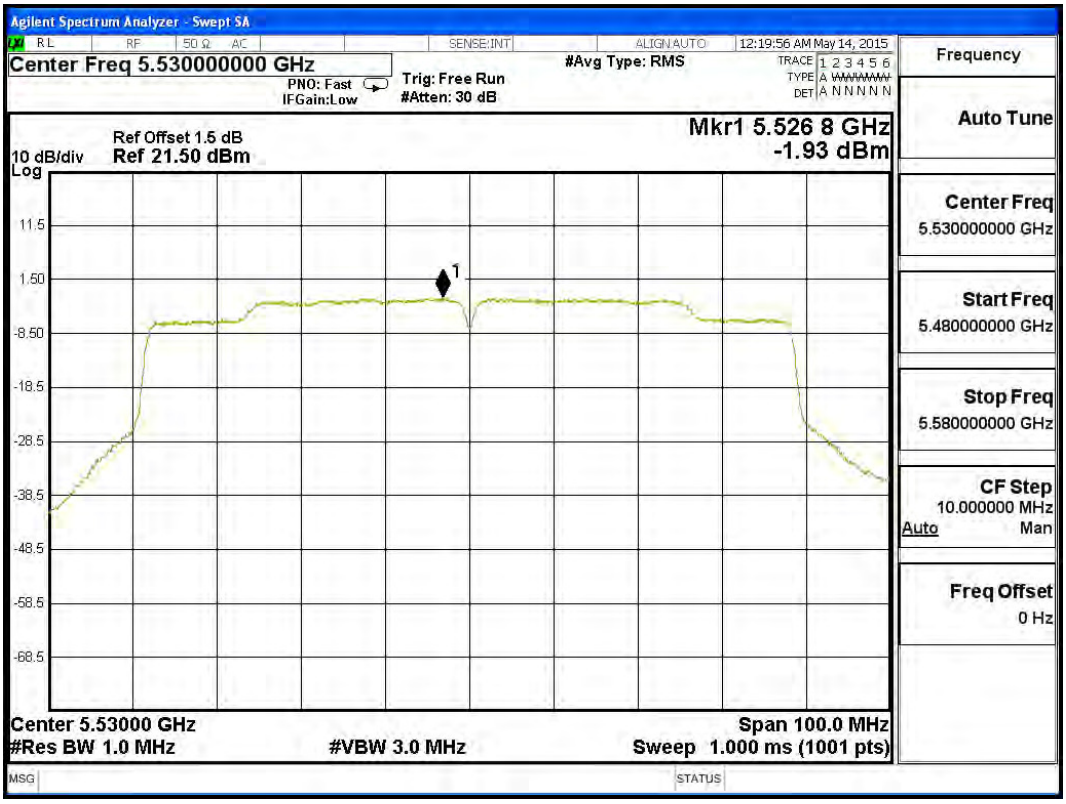
**Channel 42**



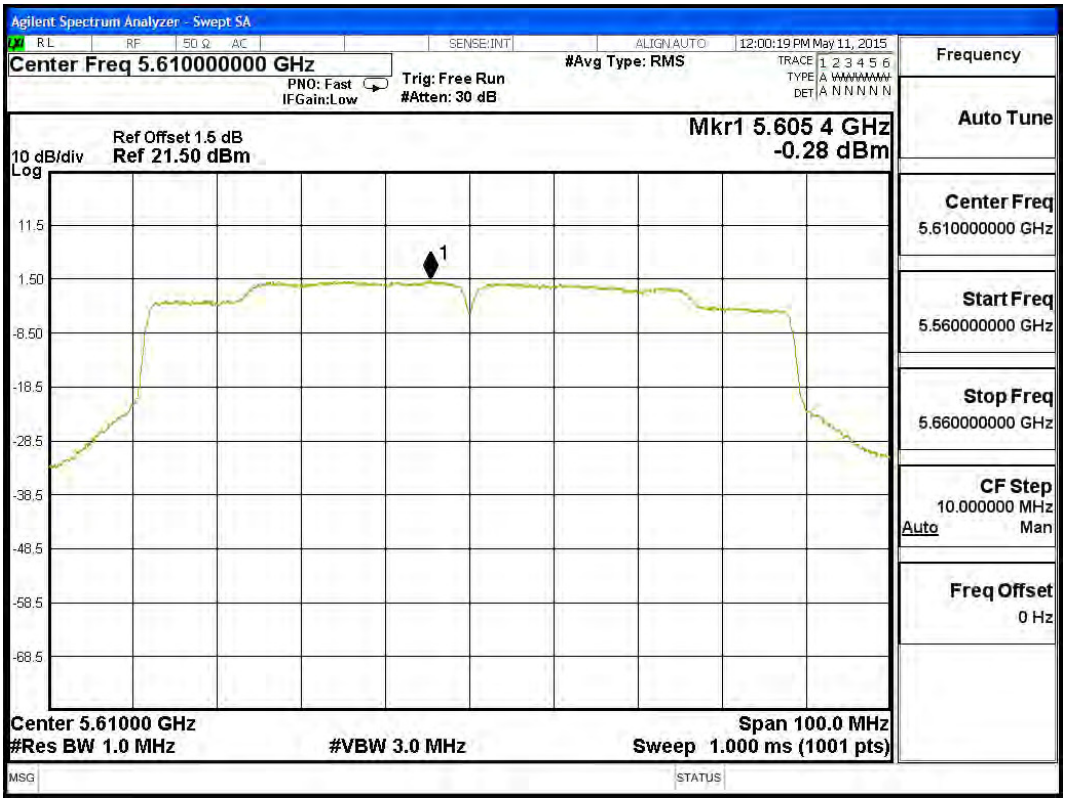

**Channel 58**



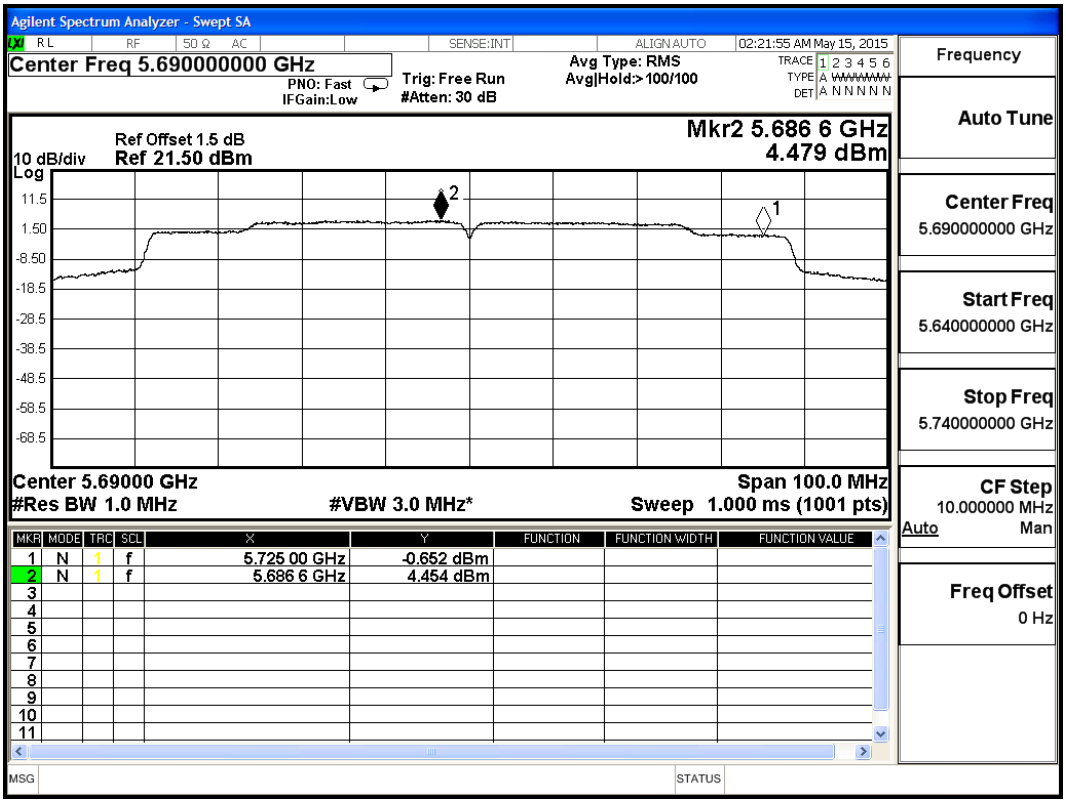
**Channel 106**



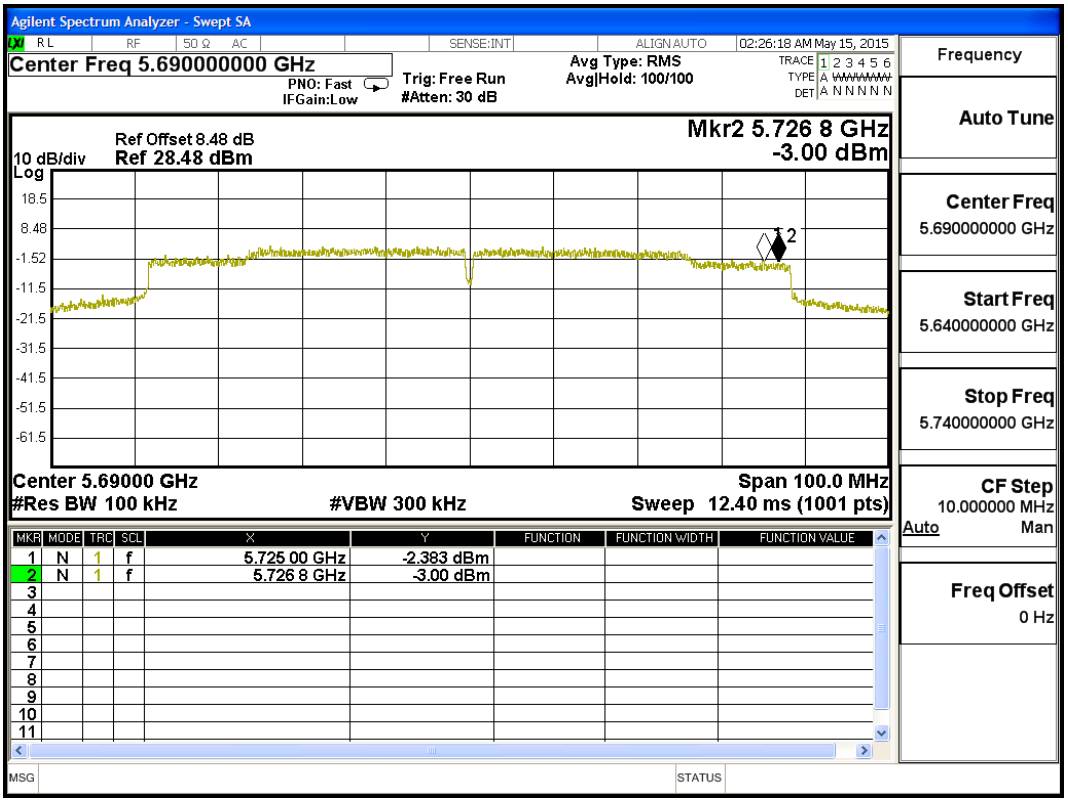

**Channel 122**



## Channel 138 (Band3)




## Channel 138 (Band4)



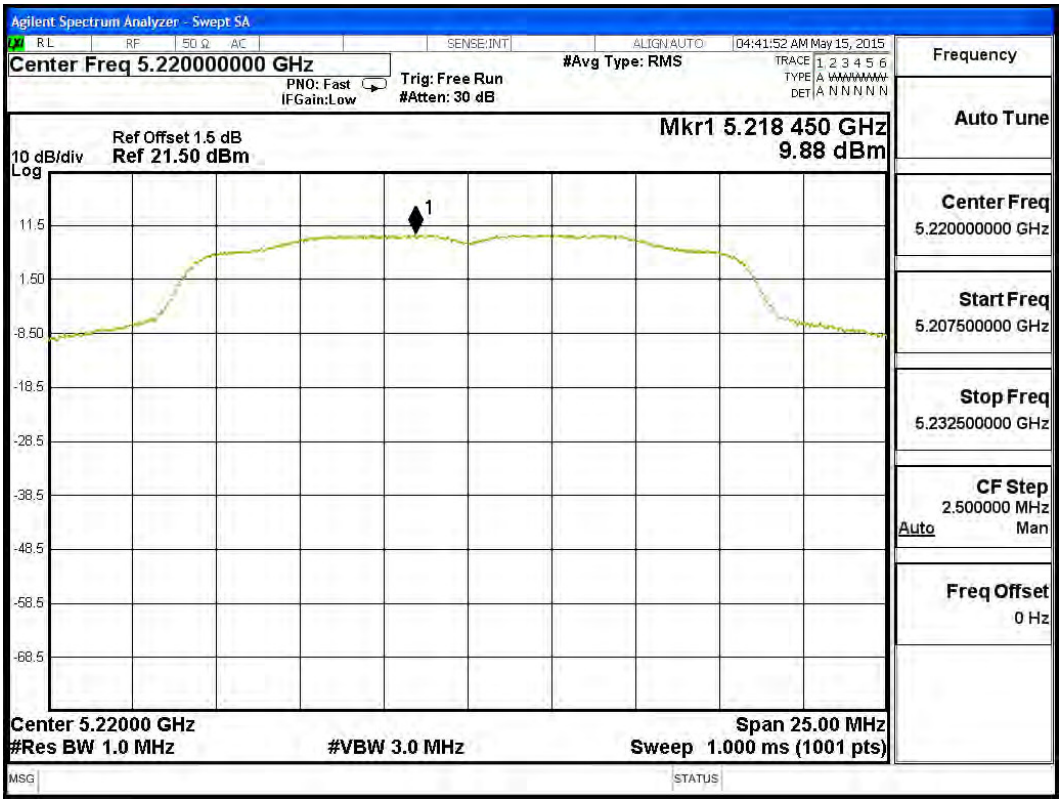
Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps)

| Channel Number | Frequency (MHz) | Data Rata (Mbps) | PPSD (dBm) | Duty Factor (dB) | Total PPSD (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 6 | 8.050 | 0.08 | 8.130 | 11 | Pass |
| 44 | 5220 | 6 | 9.880 | 0.08 | 9.960 | 11 | Pass |
| 48 | 5240 | 6 | 10.290 | 0.08 | 10.370 | 11 | Pass |
| 52 | 5260 | 6 | 10.320 | 0.08 | 10.400 | 11 | Pass |
| 60 | 5300 | 6 | 10.010 | 0.08 | 10.090 | 11 | Pass |
| 64 | 5320 | 6 | 6.090 | 0.08 | 6.170 | 11 | Pass |
| 100 | 5500 | 6 | 7.890 | 0.08 | 7.970 | 11 | Pass |
| 116 | 5580 | 6 | 10.570 | 0.08 | 10.650 | 11 | Pass |
| 140 | 5700 | 6 | 7.960 | 0.08 | 8.040 | 11 | Pass |

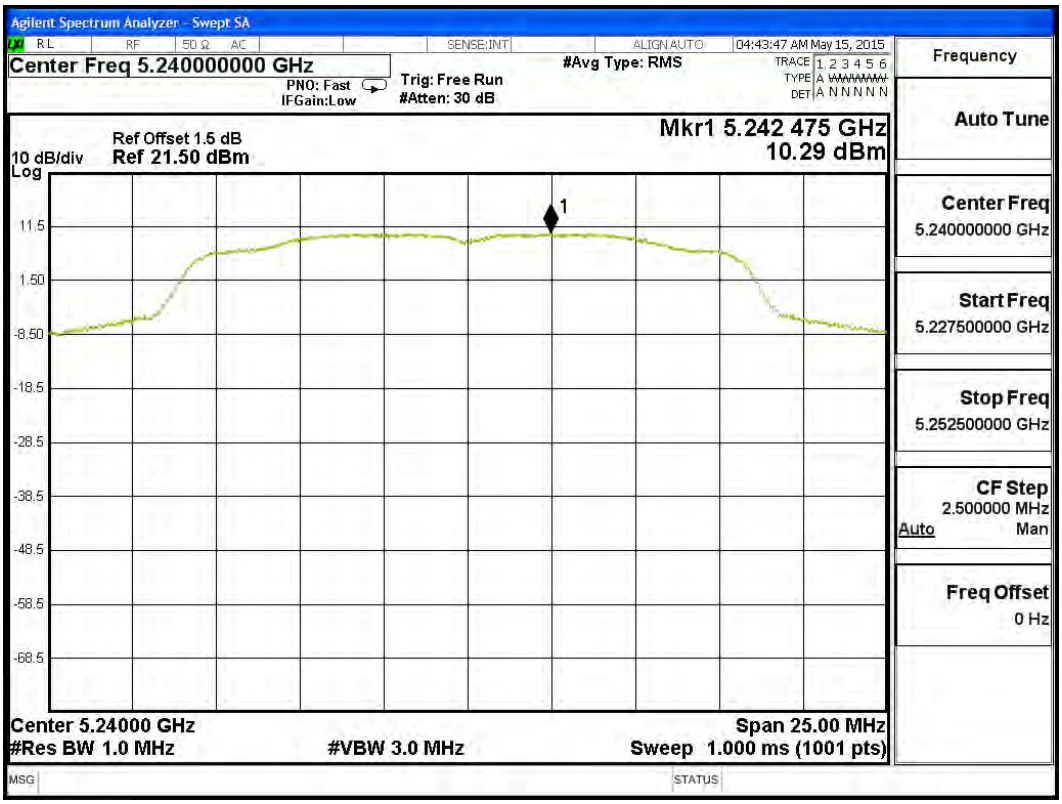
Note: Total PPSD = PPSD value + Duty Factor

**Channel 36:**

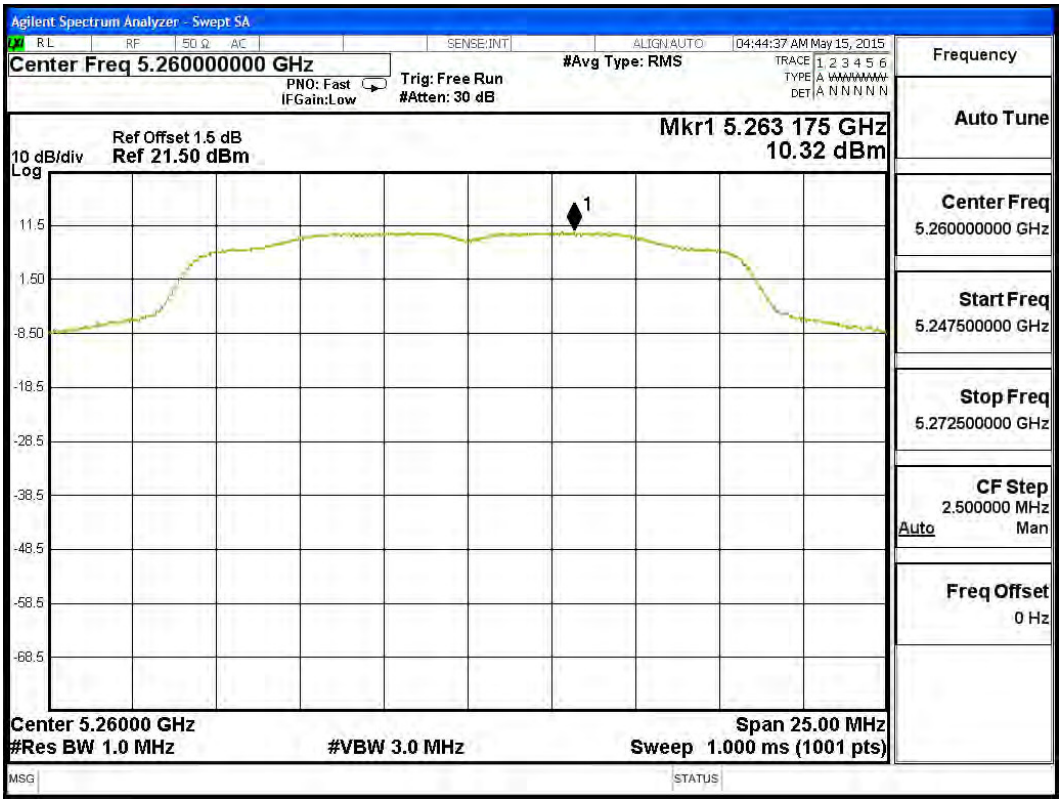

**Channel 44:**



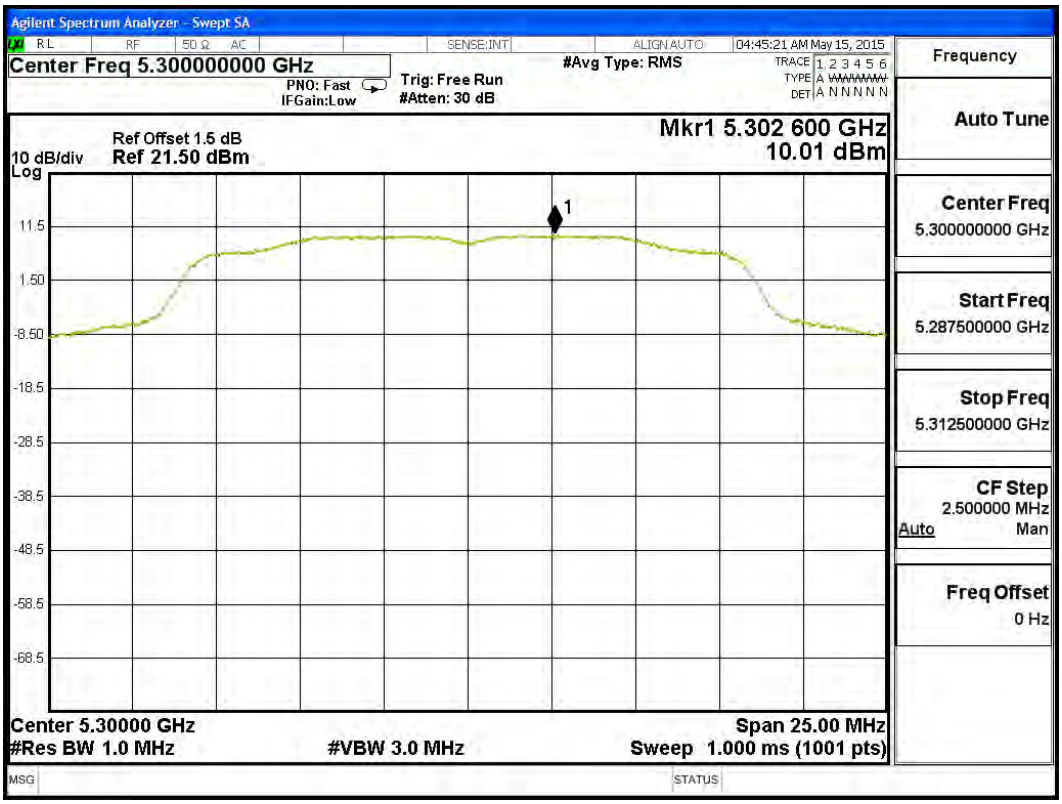
**Channel 48:**




**Channel 52:**



**Channel 60:**




**Channel 64:**