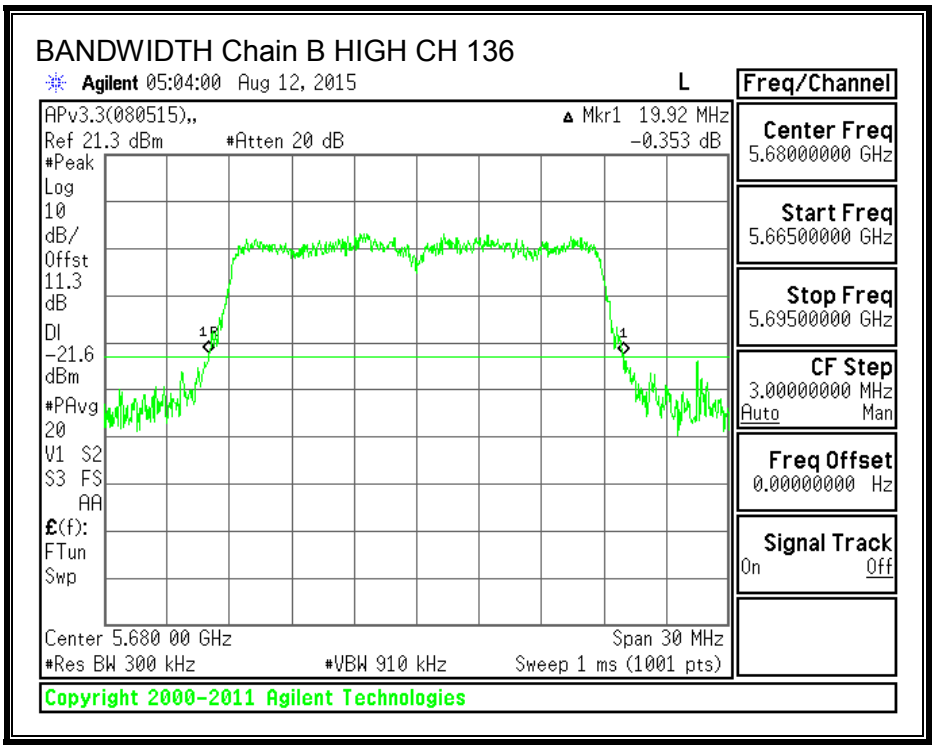
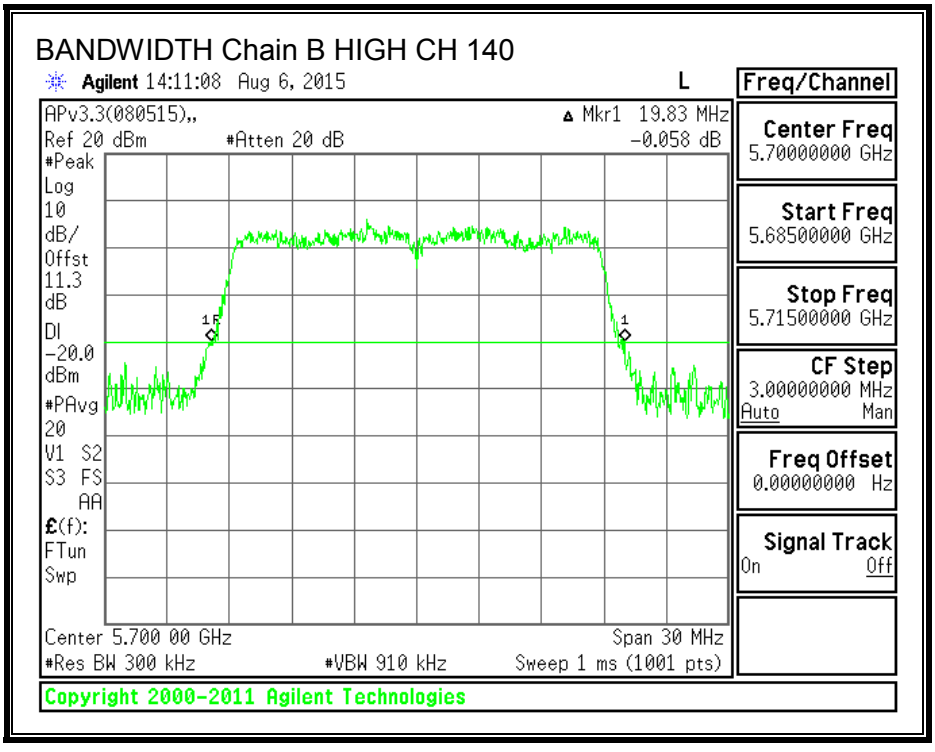
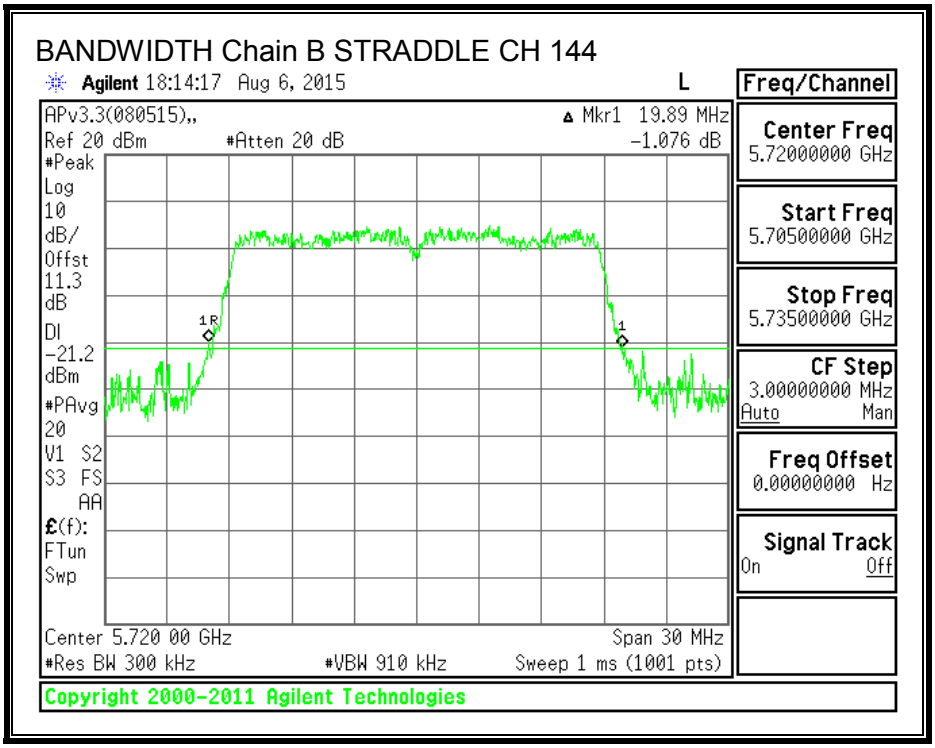
BANDWIDTH Chain B HIGH CH 136

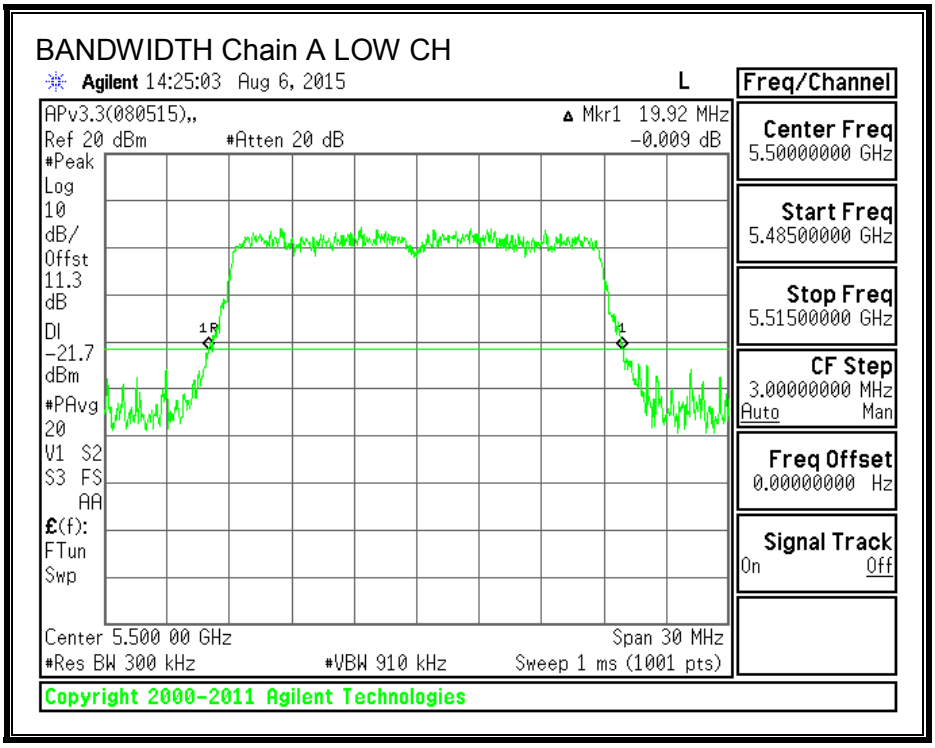


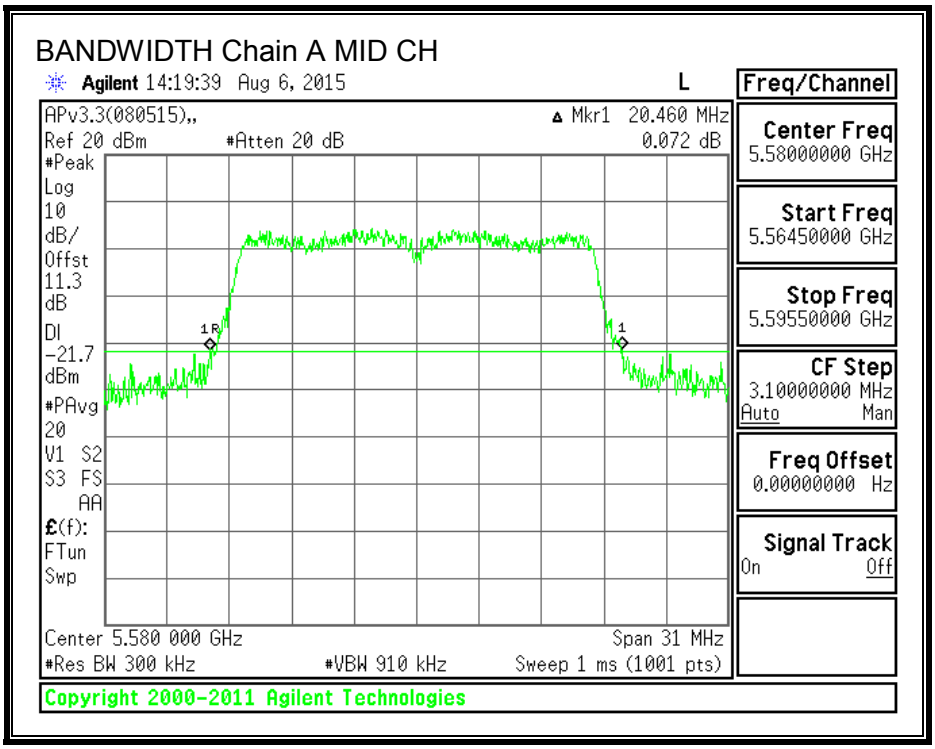
BANDWIDTH Chain B HIGH CH 140



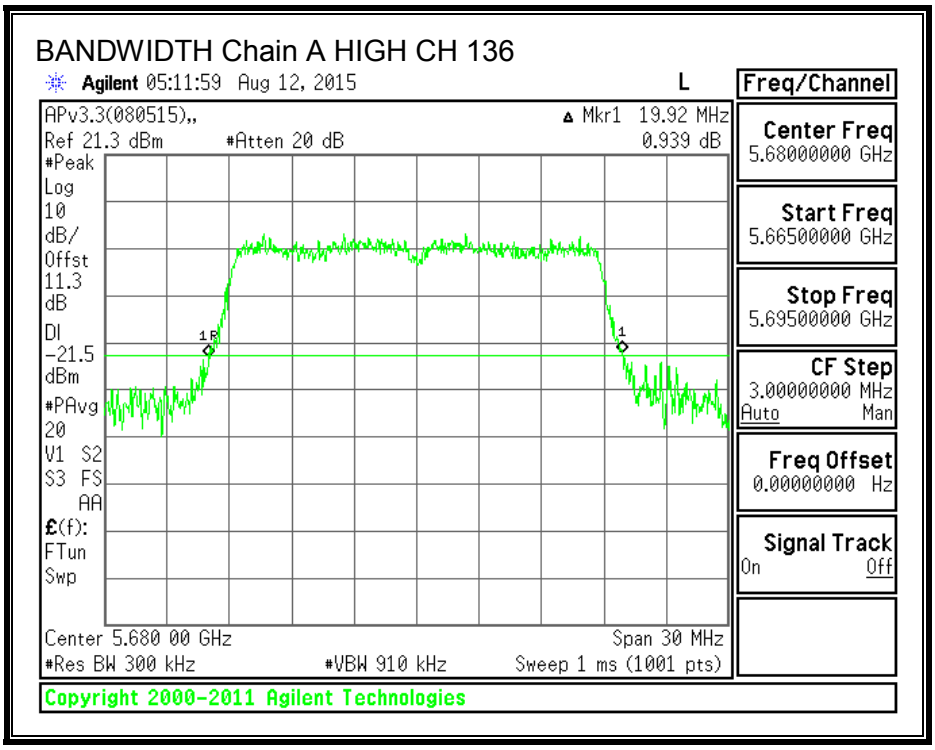


26 dB BANDWIDTH, Chain A

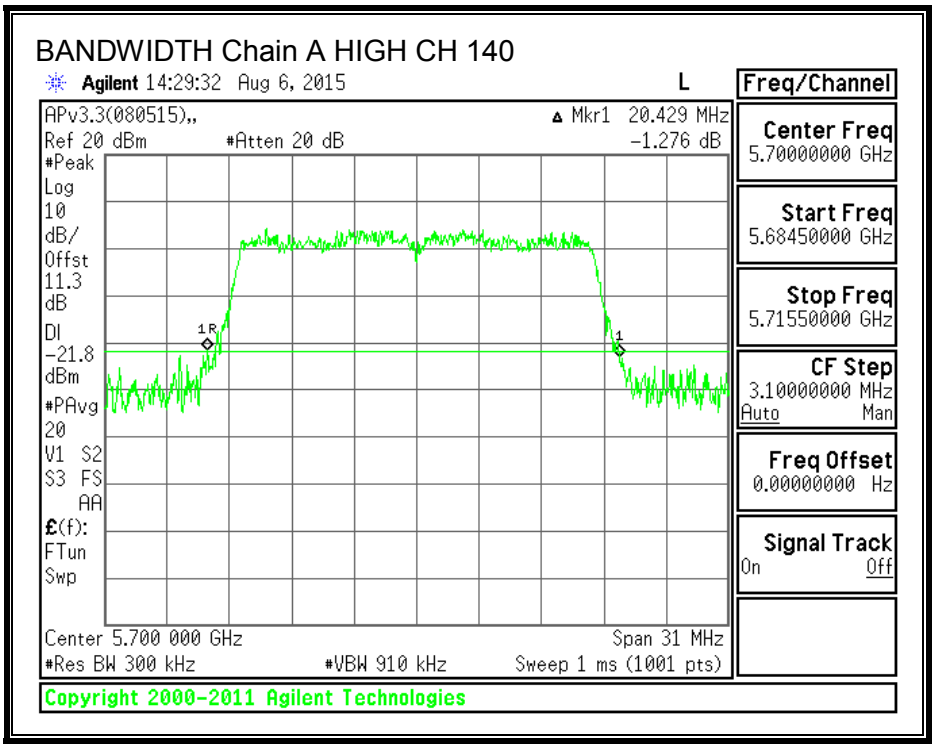




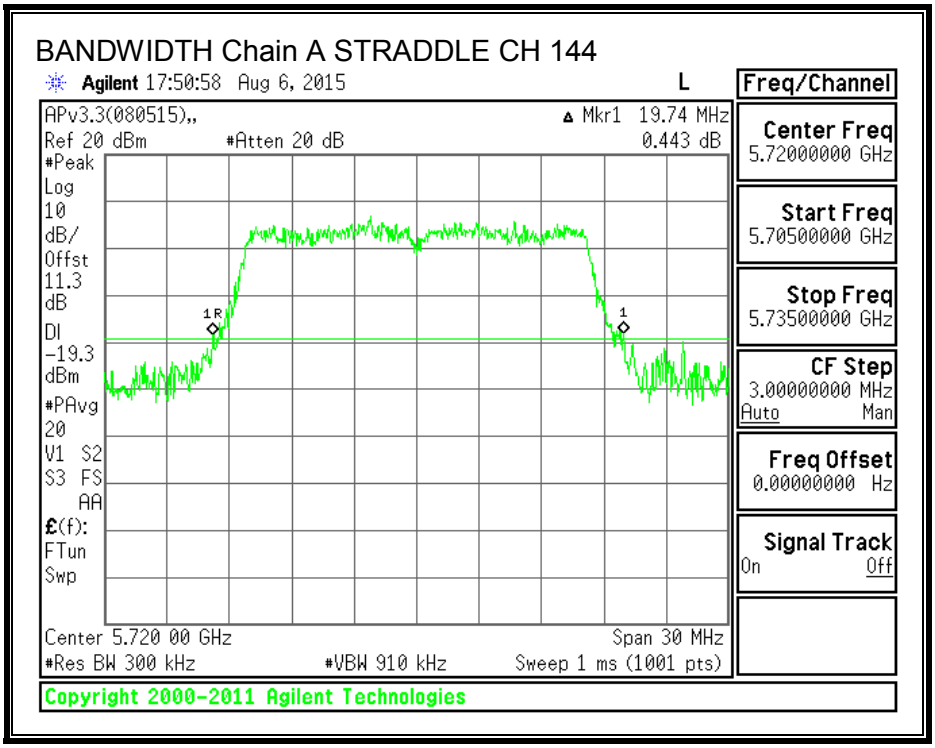
BANDWIDTH Chain A HIGH CH 136



BANDWIDTH Chain A HIGH CH 140



BANDWIDTH Chain A STRADDLE CH 144



8.11.2. 99% BANDWIDTH

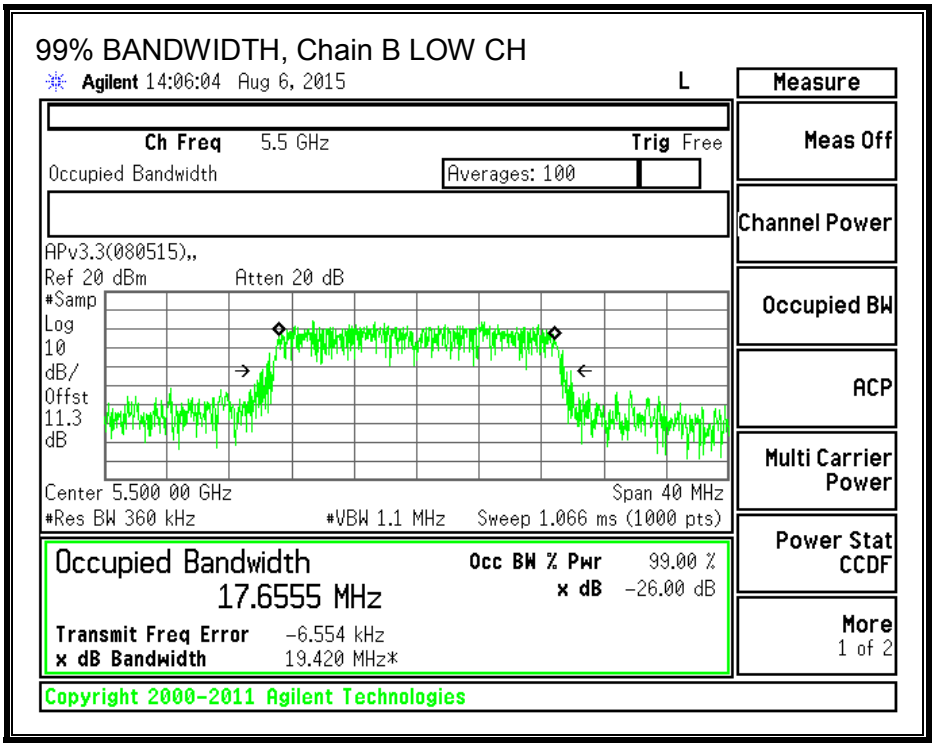
LIMITS

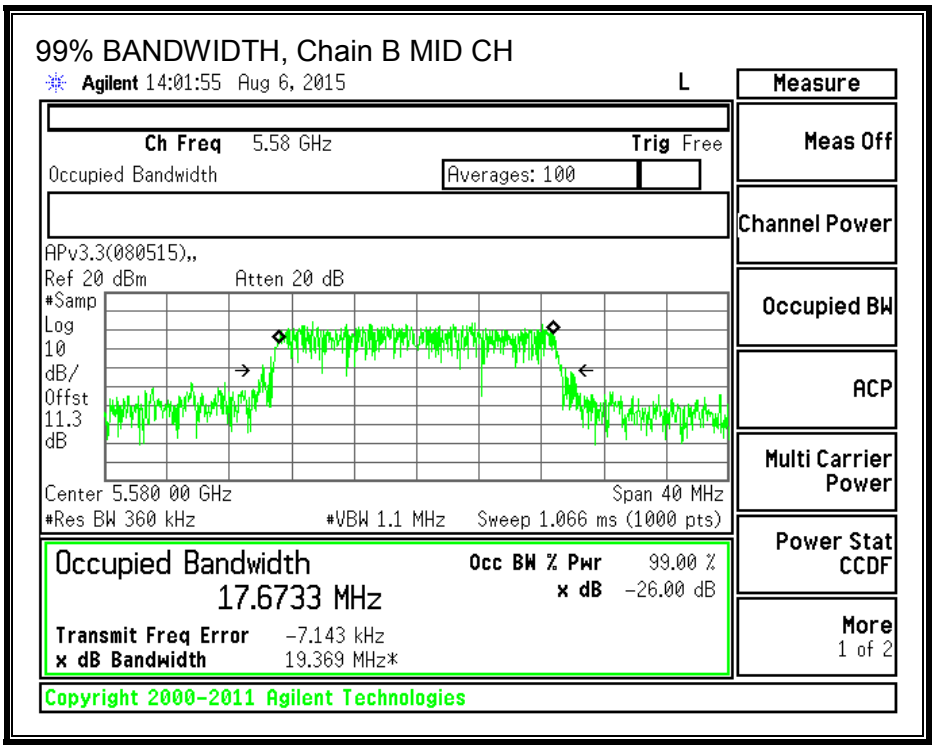
None; for reporting purposes only.

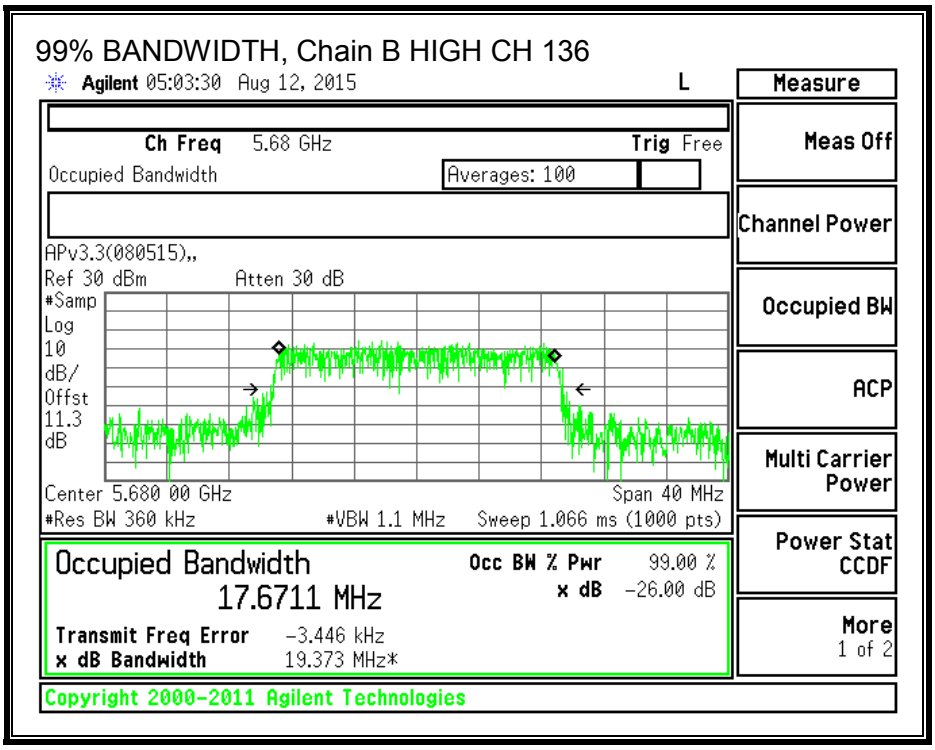
RESULTS

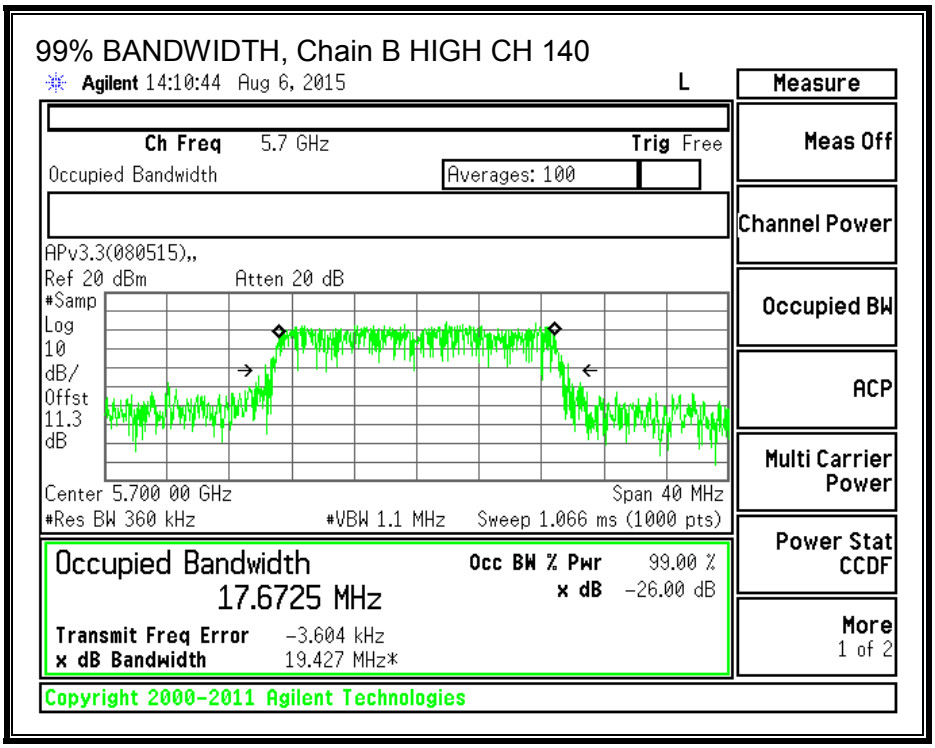
Channel	Frequency (MHz)	99% BW Chain B (MHz)	99% BW Chain A (MHz)
Low	5500	17.6555	17.6692
Mid	5580	17.6733	17.6774
High CH 136	5680	17.6711	17.6758
High CH 140	5700	17.6725	17.6670
144	5720	17.6696	17.6685

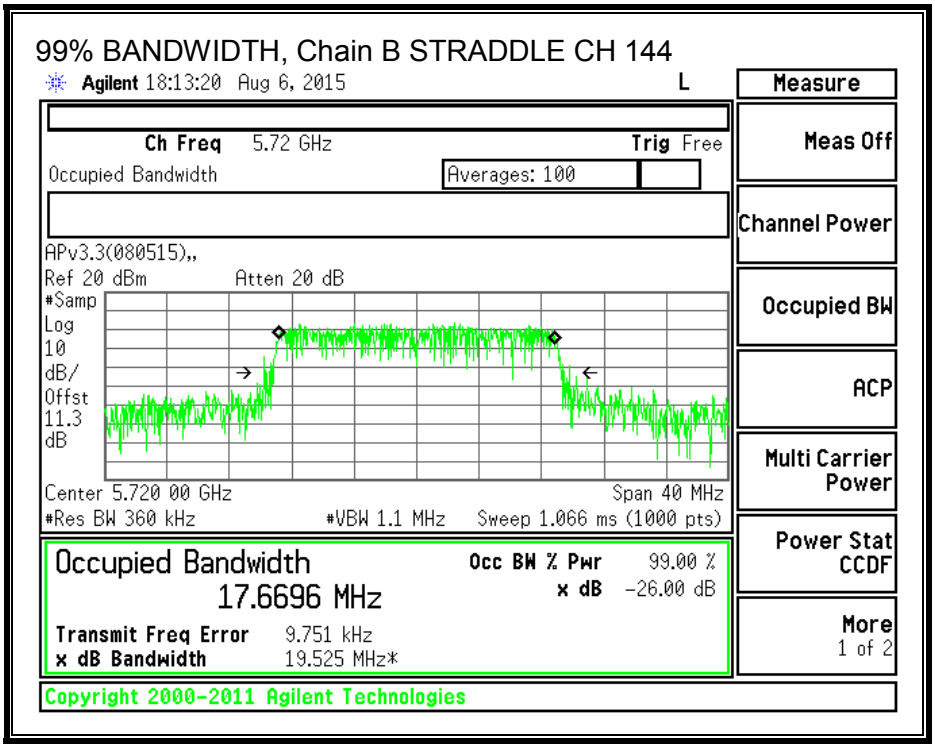
99% BANDWIDTH, Chain B



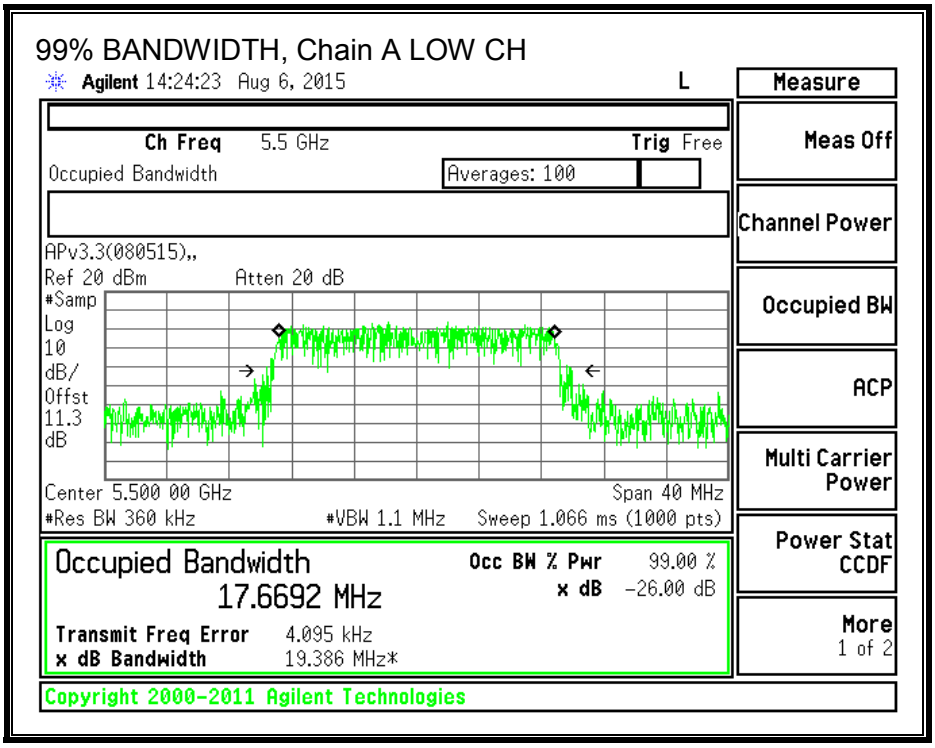


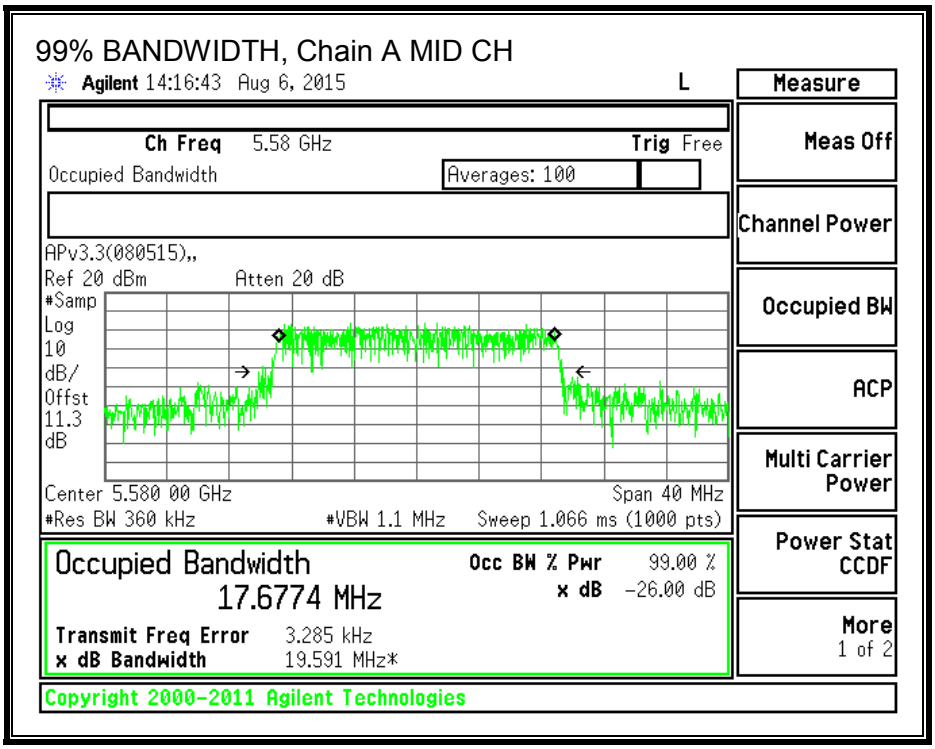


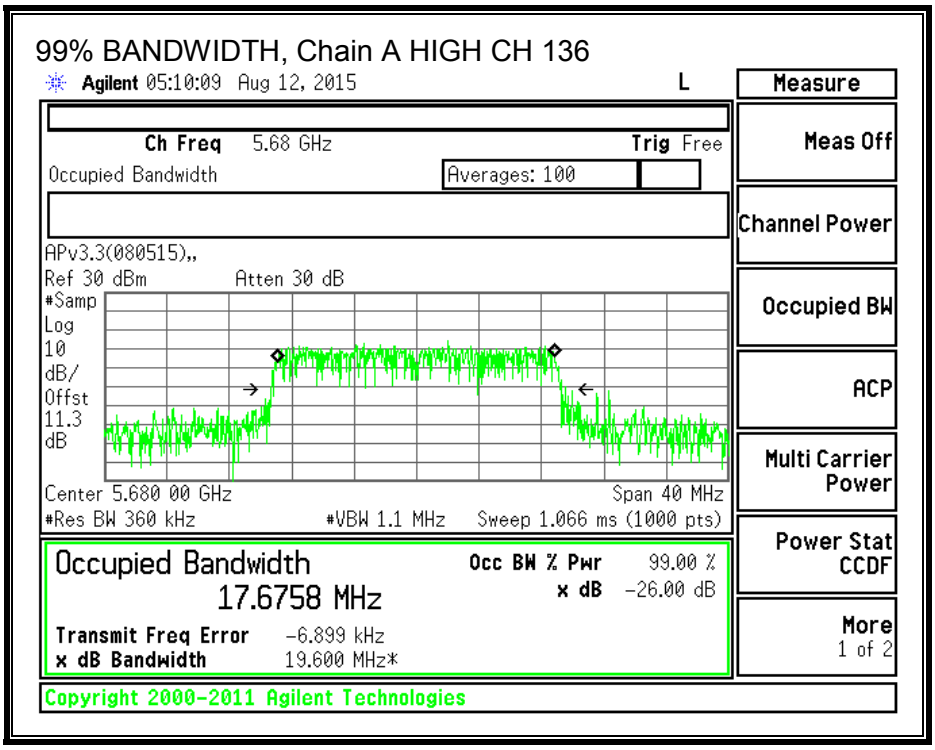


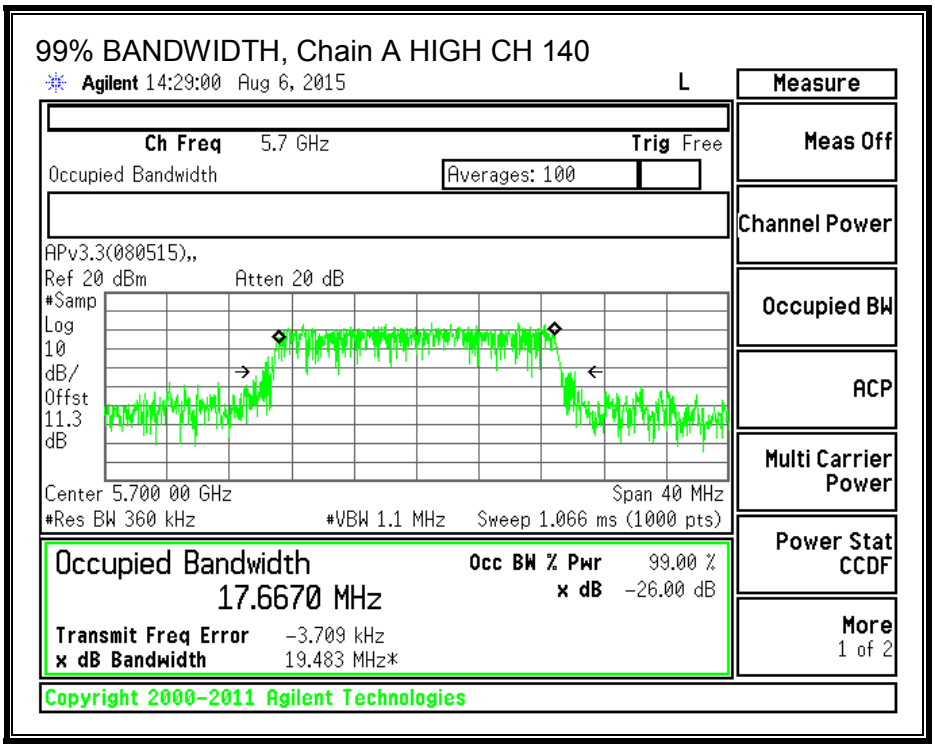


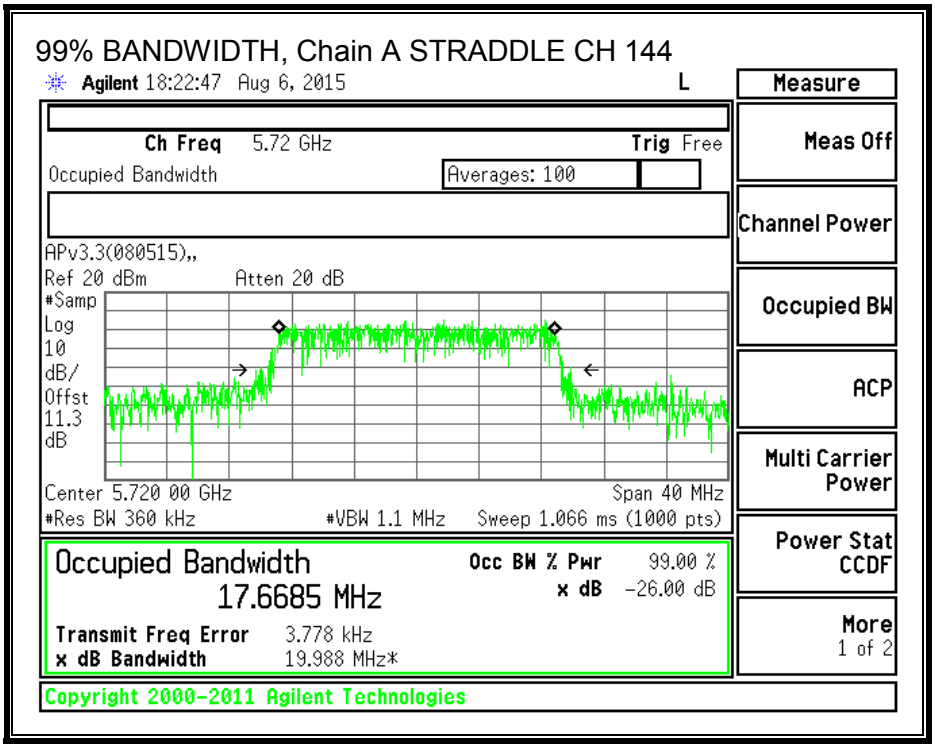
99% BANDWIDTH, Chain A











8.11.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.10	2.30	2.20

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5500	19.80	2.20	2.20	23.97	11.00
Mid	5580	20.06	2.20	2.20	24.00	11.00
High CH 136	5680	19.92	2.20	2.20	23.99	11.00
High CH 140	5700	19.83	2.20	2.20	23.97	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

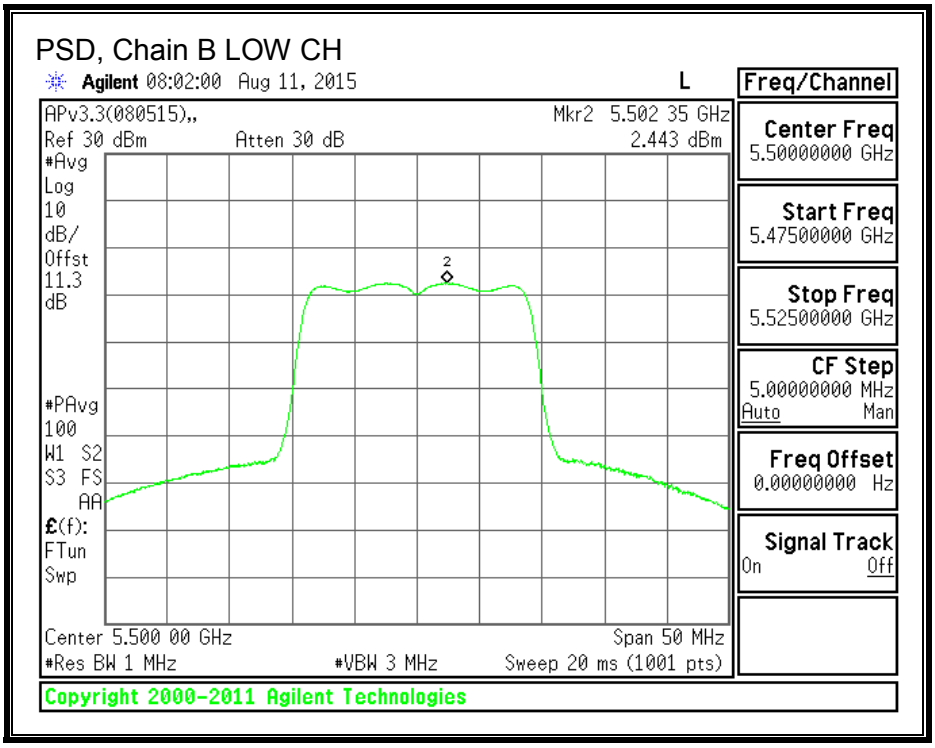
Output Power Results

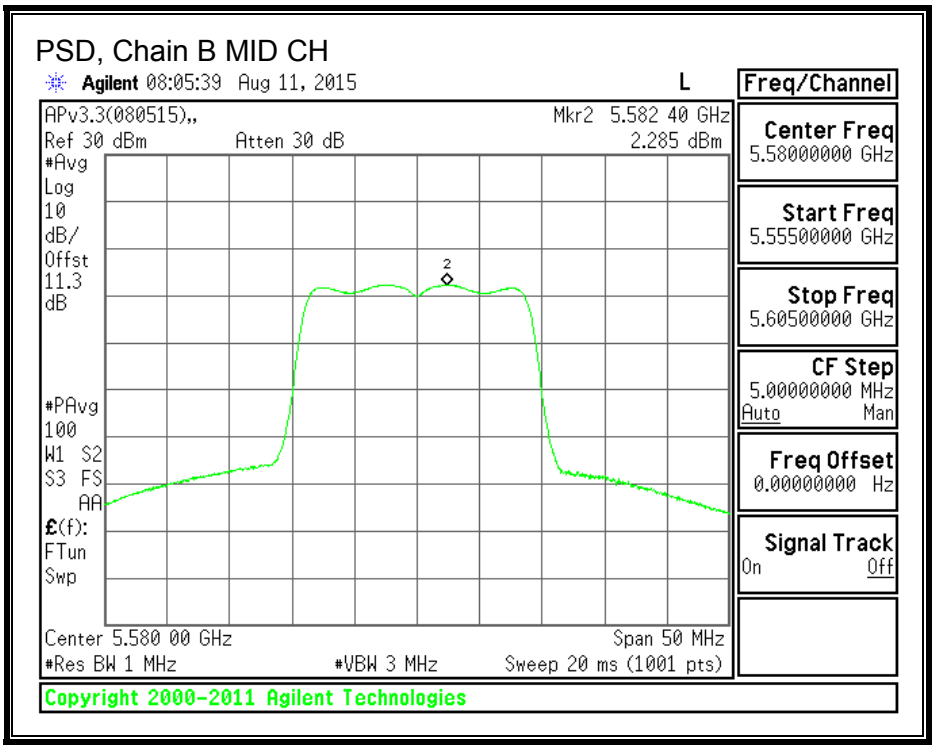
Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	13.46	13.46	16.47	23.97	-7.50
Mid	5580	13.45	13.14	16.31	24.00	-7.69
High CH 136	5680	14.30	13.51	16.93	23.99	-7.06
High CH 140	5700	12.83	12.64	15.75	23.97	-8.23

PSD Results

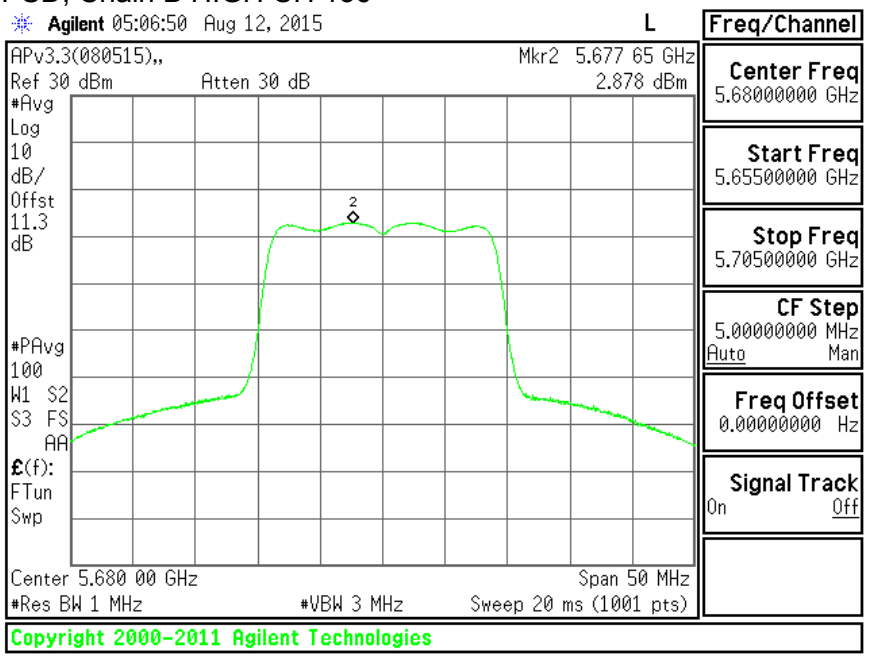
Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5500	2.44	2.45	5.46	11.00	-5.54
Mid	5580	2.29	2.66	5.48	11.00	-5.52
High CH 136	5680	2.88	2.86	5.88	11.00	-5.12
High CH 140	5700	1.80	1.79	4.81	11.00	-6.19

PSD, Chain B

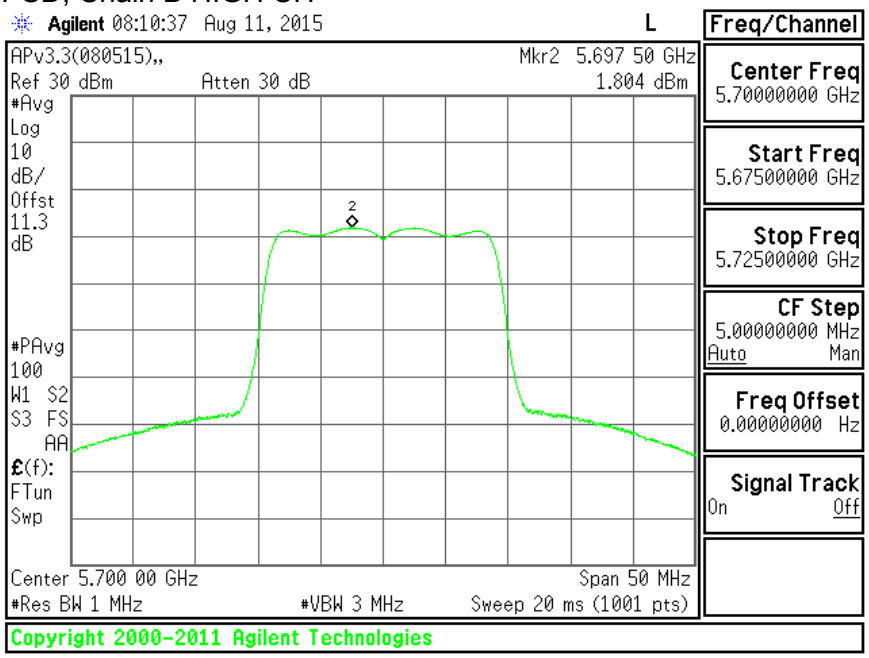




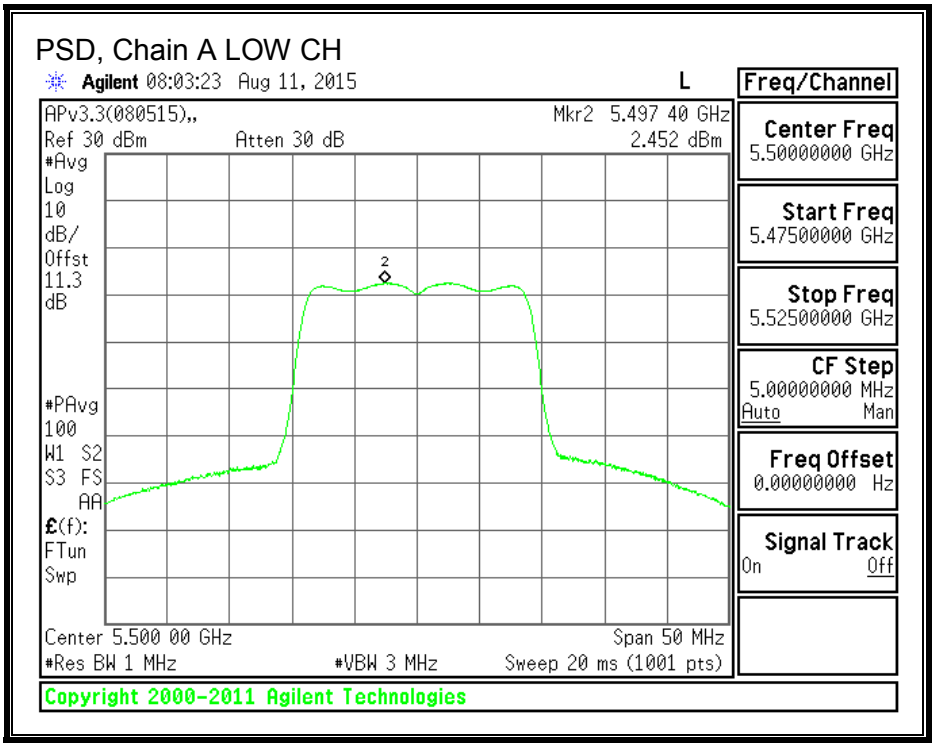
PSD, Chain B HIGH CH 136

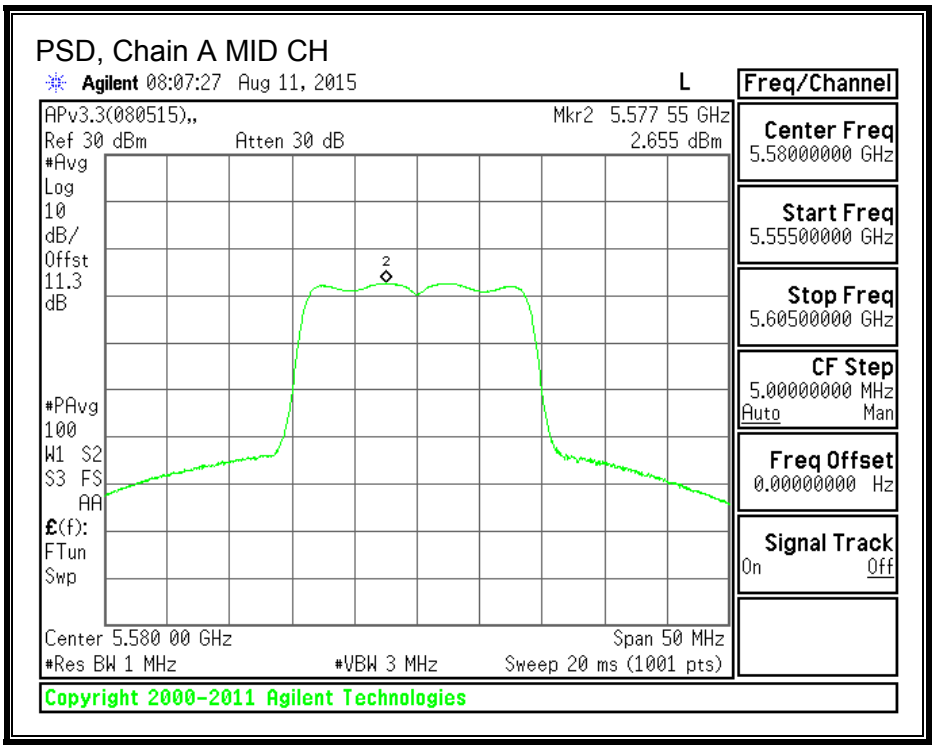


PSD, Chain B HIGH CH

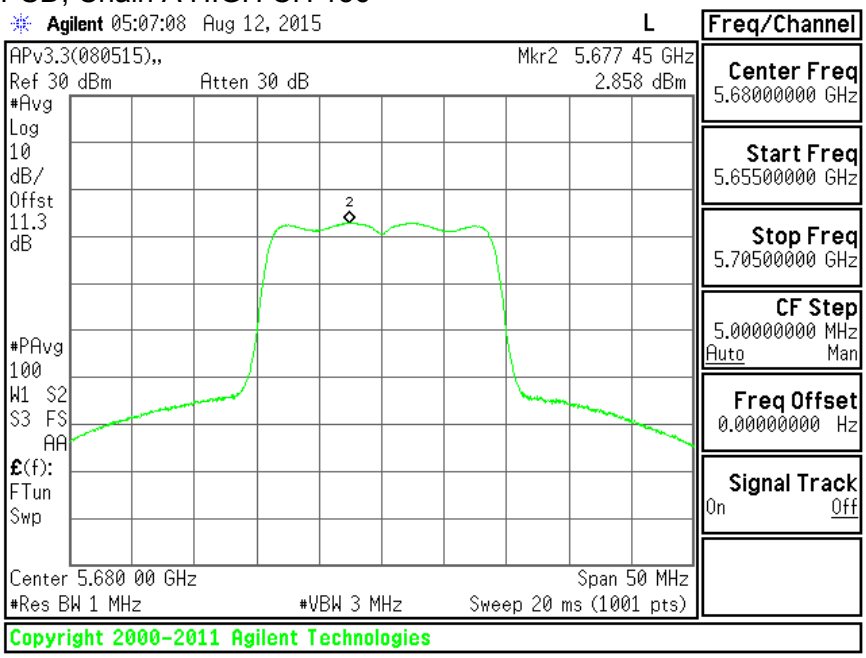


PSD, Chain A

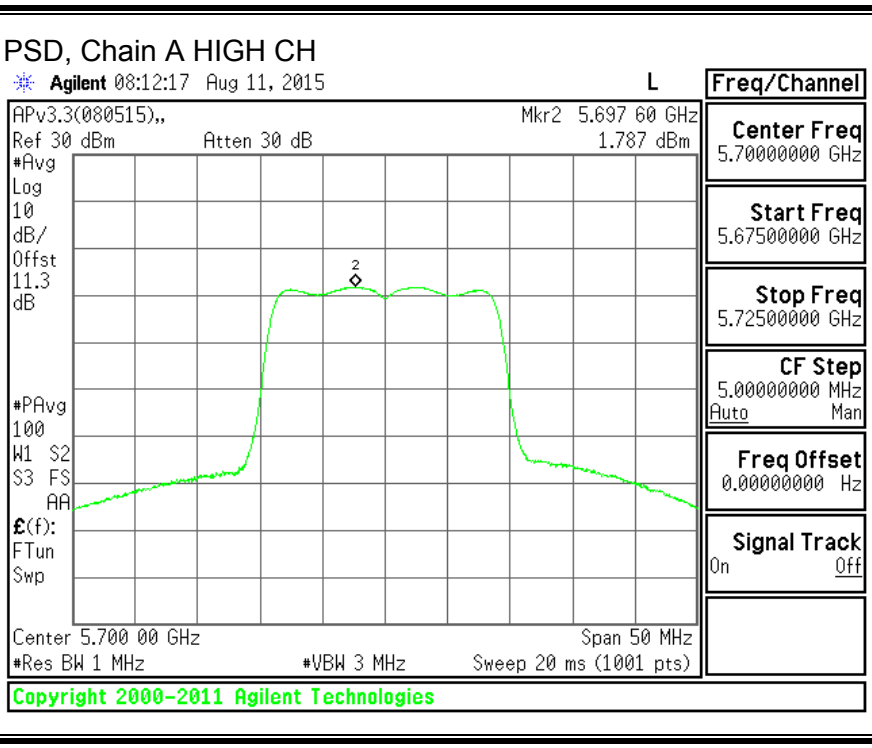




PSD, Chain A HIGH CH 136



PSD, Chain A HIGH CH



STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	19.74	2.20	2.20	23.95	11.00

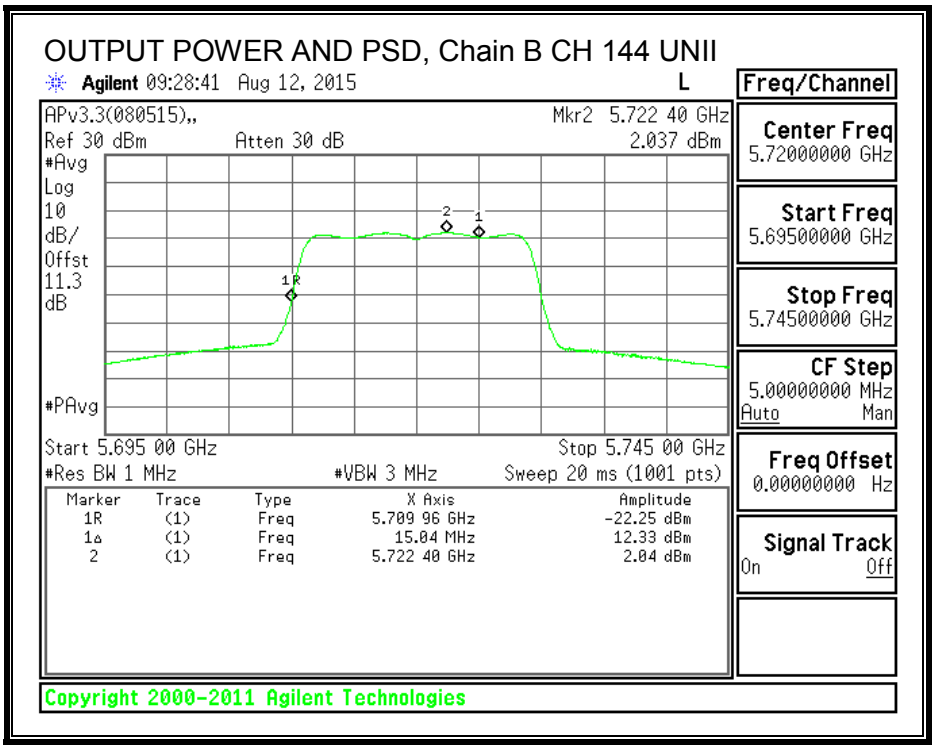
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

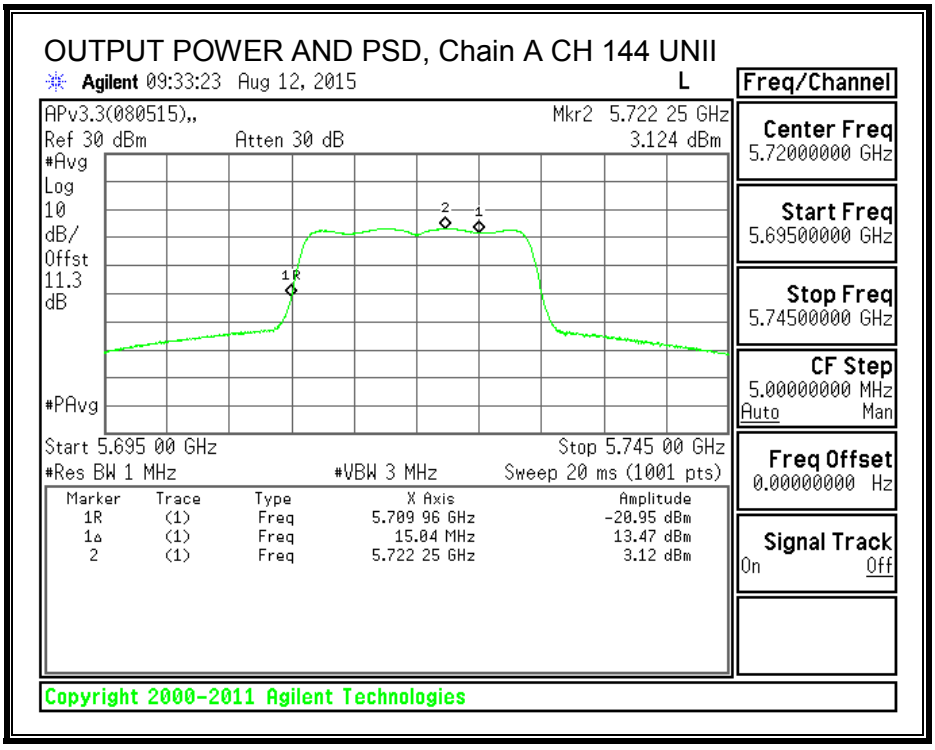
Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
144	5720	12.33	13.47	15.95	23.95	-8.01

PSD Results

Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	2.04	3.12	5.62	11.00	-5.38





UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	2.20	2.20	30.00	30.00

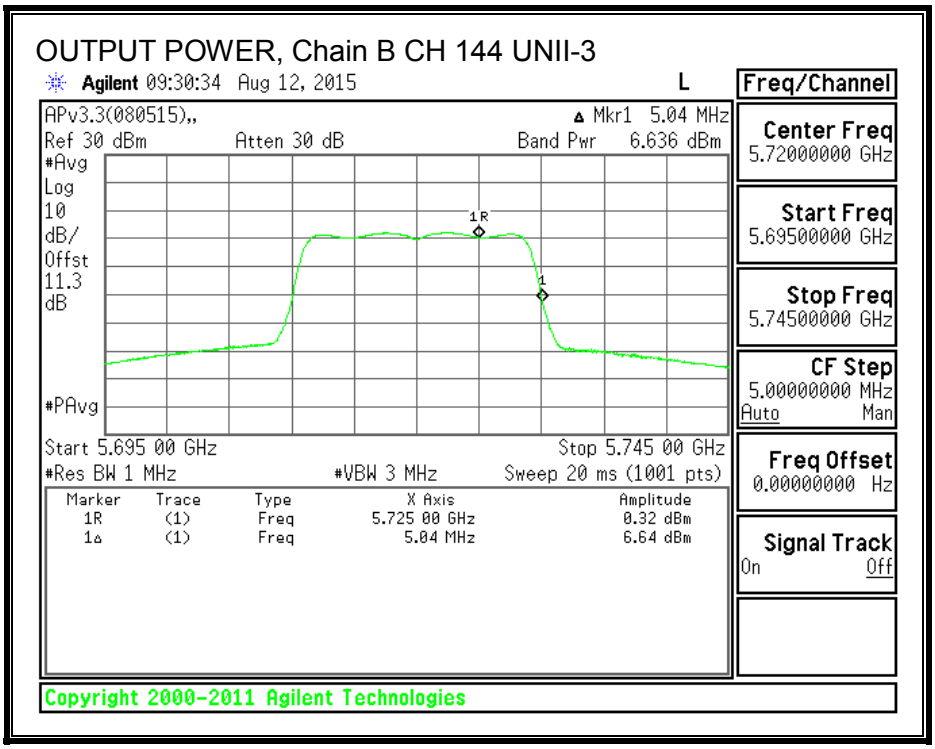
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

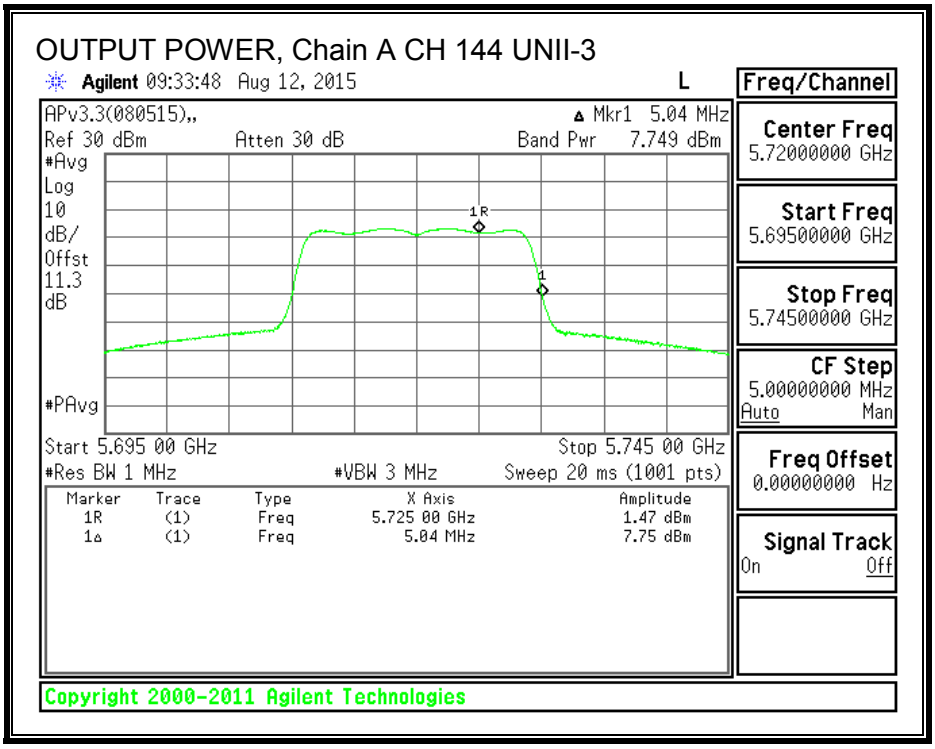
Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
144	5720	6.64	7.75	10.24	30.00	-19.76

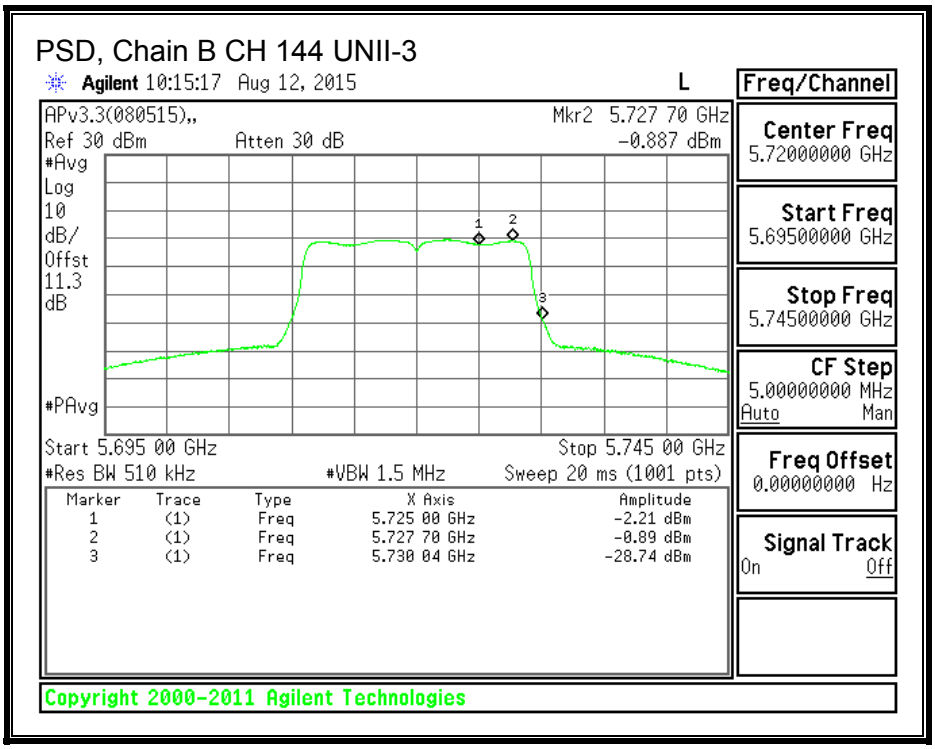
PSD Results

Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	-0.89	-0.19	2.48	30.00	-27.52

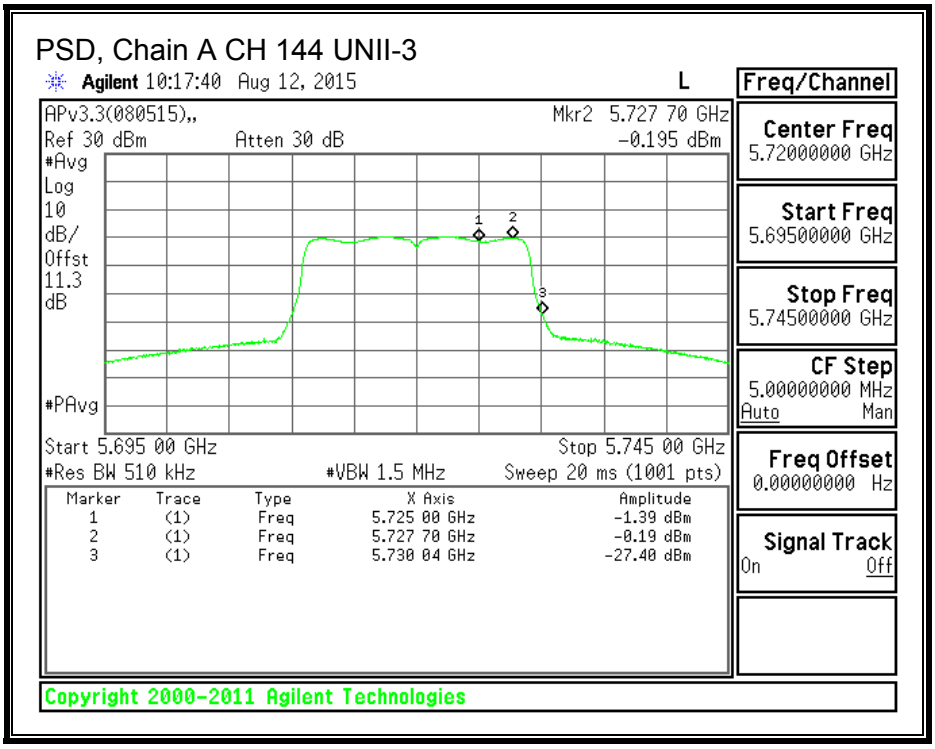




PSD, Chain B CH 144 UNII-3



PSD, Chain A CH 144 UNII-3



8.11.4. TPC POWER

LIMITS

FCC §15.407 (h) (1)

Transmit power control (TPC). U-NII devices operating in the 5.25–5.35 GHz band and the 5.47–5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.10	2.30	2.20

RESULTS

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	2.20	21.80
Mid	5580	24	2.20	21.80
High CH 136	5680	24	2.20	21.80
High CH 140	5700	24	2.20	21.80

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

TPC Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	13.46	13.46	16.47	21.80	-5.33
Mid	5580	13.45	13.14	16.31	21.80	-5.49
High CH 136	5680	14.30	13.51	16.93	21.80	-4.87
High CH 140	5700	12.83	12.64	15.75	21.80	-6.05

8.12. 802.11n HT40 MODE IN THE 5.6 GHz BAND

8.12.1. 26 dB BANDWIDTH

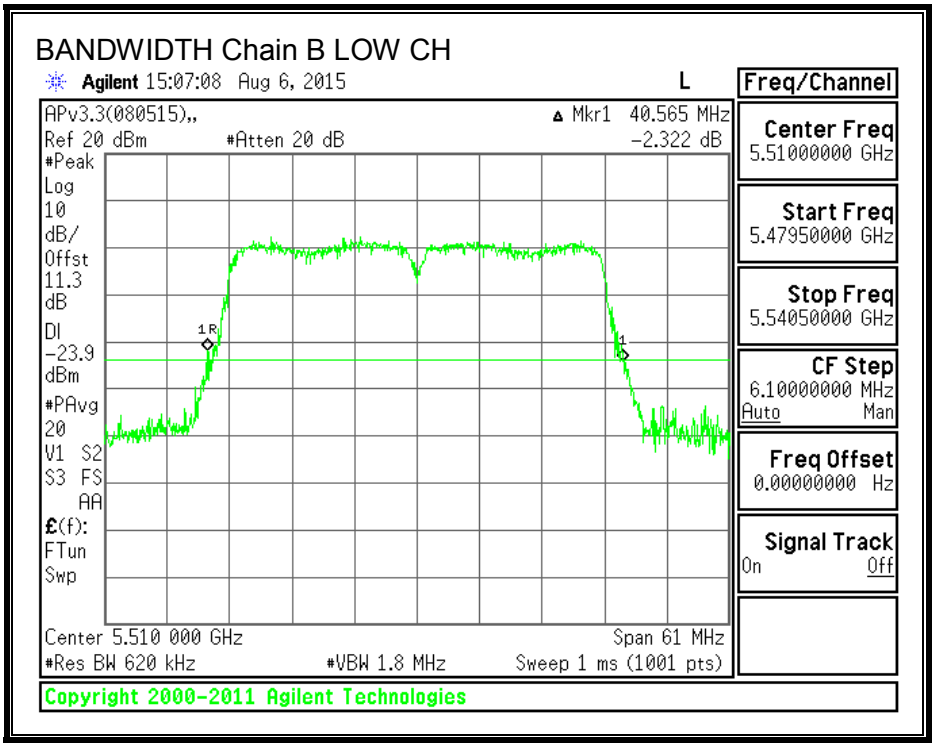
LIMITS

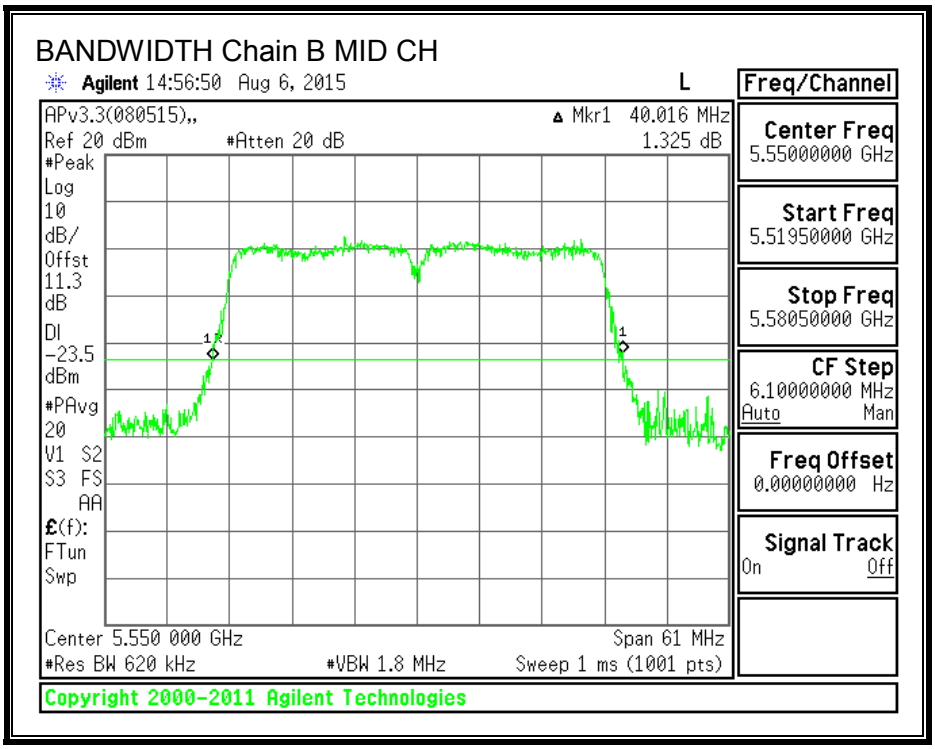
None; for reporting purposes only.

RESULTS

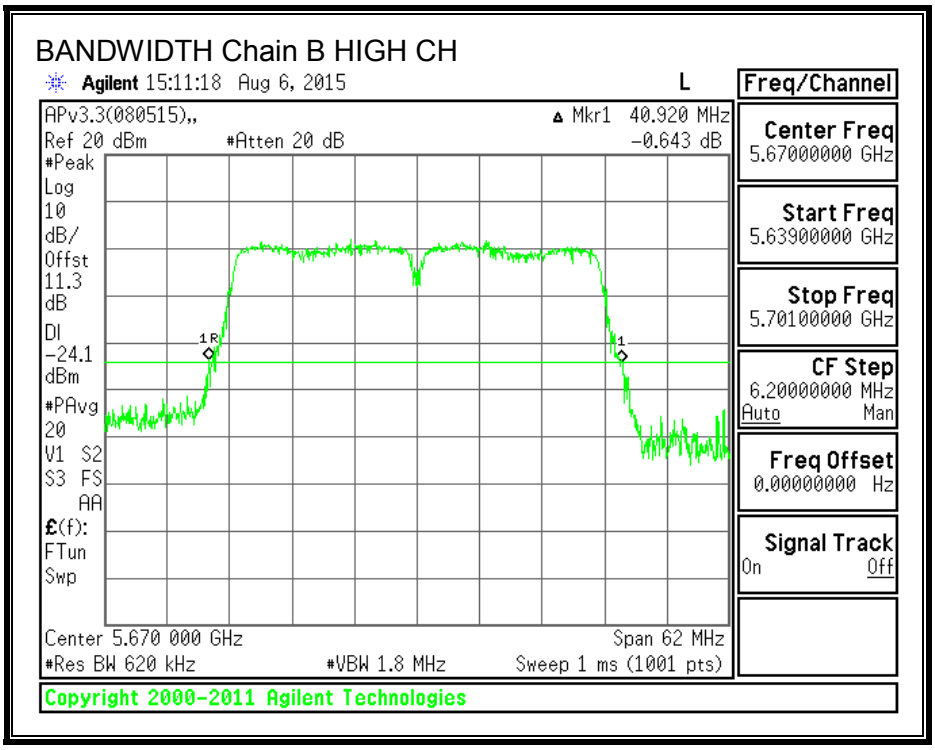
Channel	Frequency (MHz)	26 dB BW Chain B (MHz)	26 dB BW Chain A (MHz)
Low	5510	40.57	40.44
Mid	5550	40.02	40.98
High	5670	40.92	39.84
142	5710	40.80	40.44

26 dB BANDWIDTH, Chain B

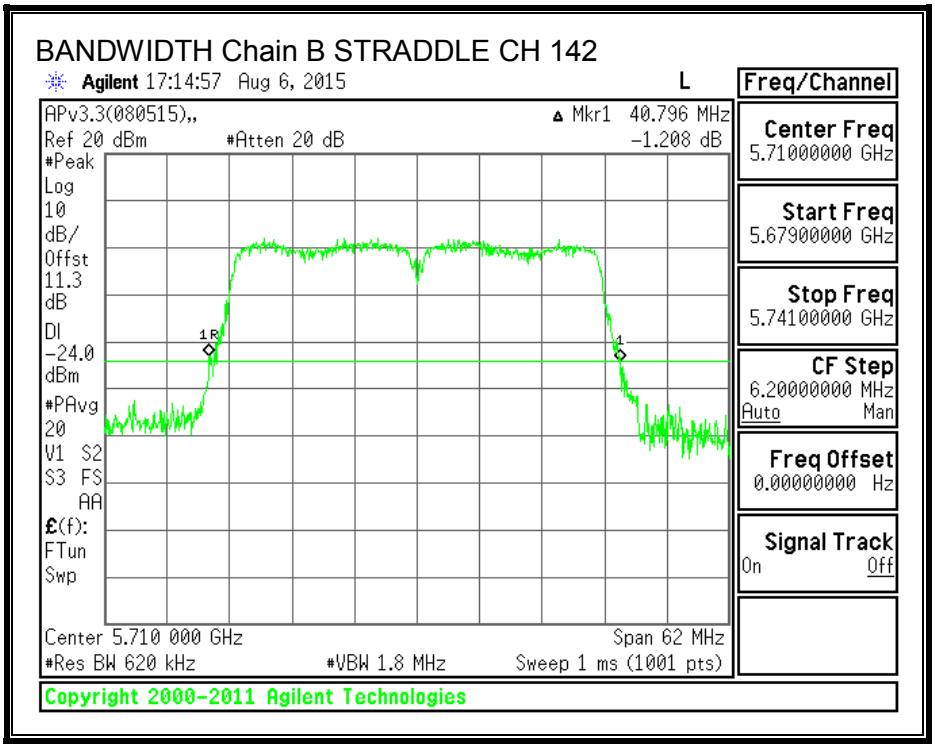




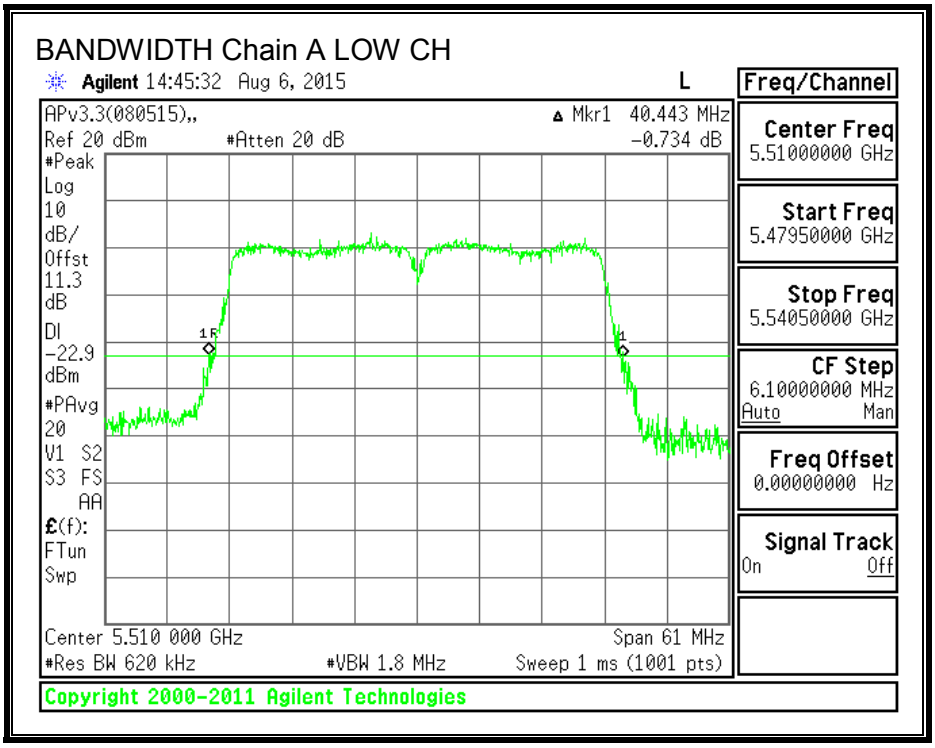
BANDWIDTH Chain B HIGH CH

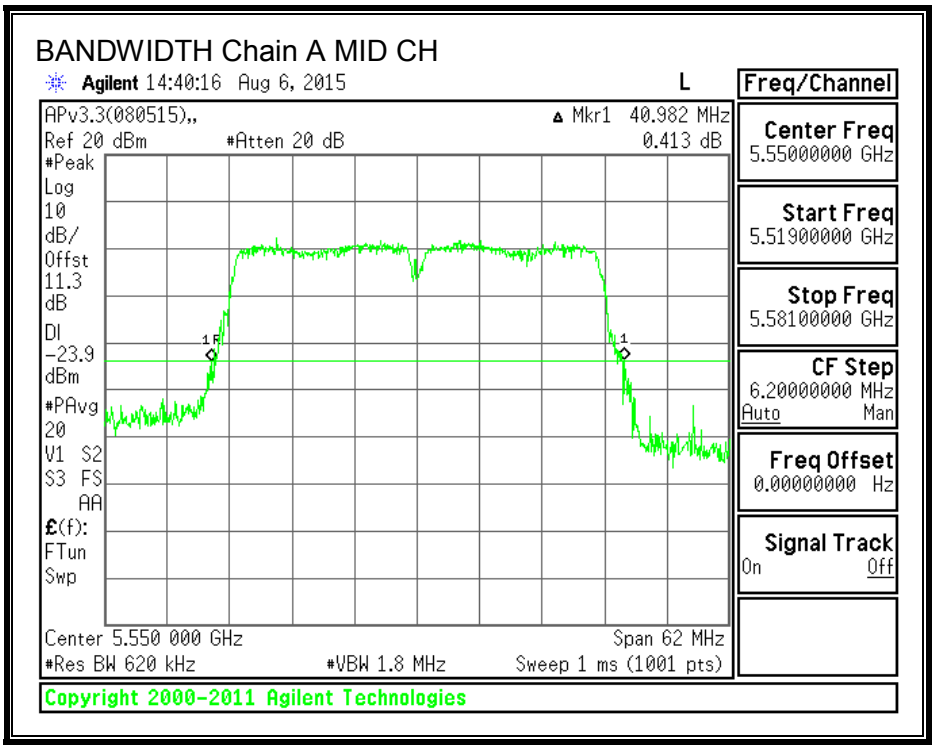


BANDWIDTH Chain B STRADDLE CH 142

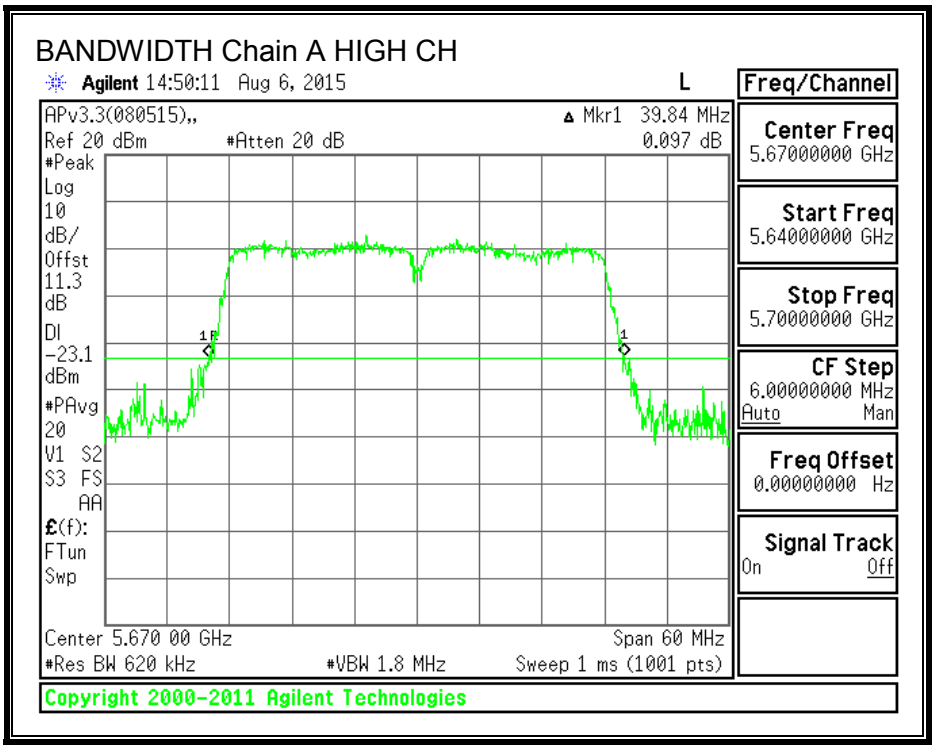


26 dB BANDWIDTH, Chain A

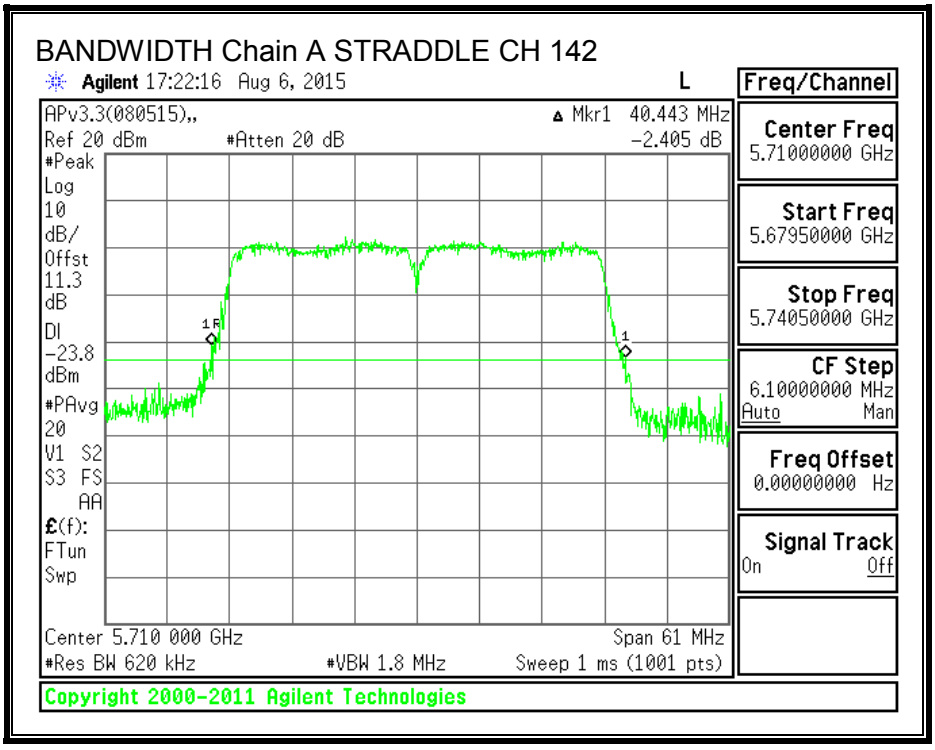




BANDWIDTH Chain A HIGH CH



BANDWIDTH Chain A STRADDLE CH 142



8.12.2. 99% BANDWIDTH

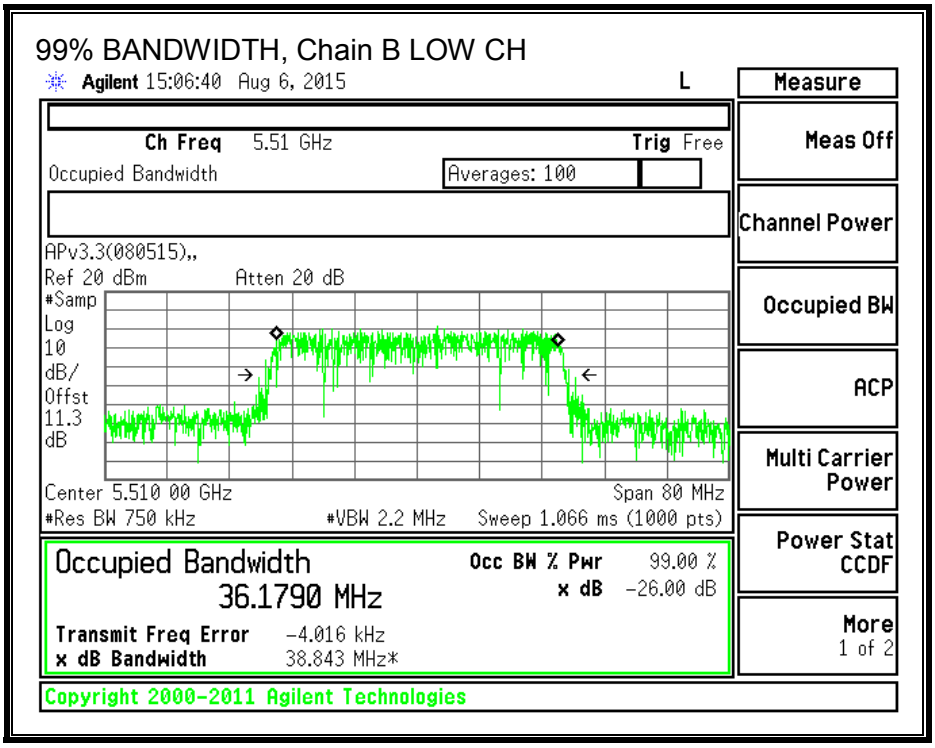
LIMITS

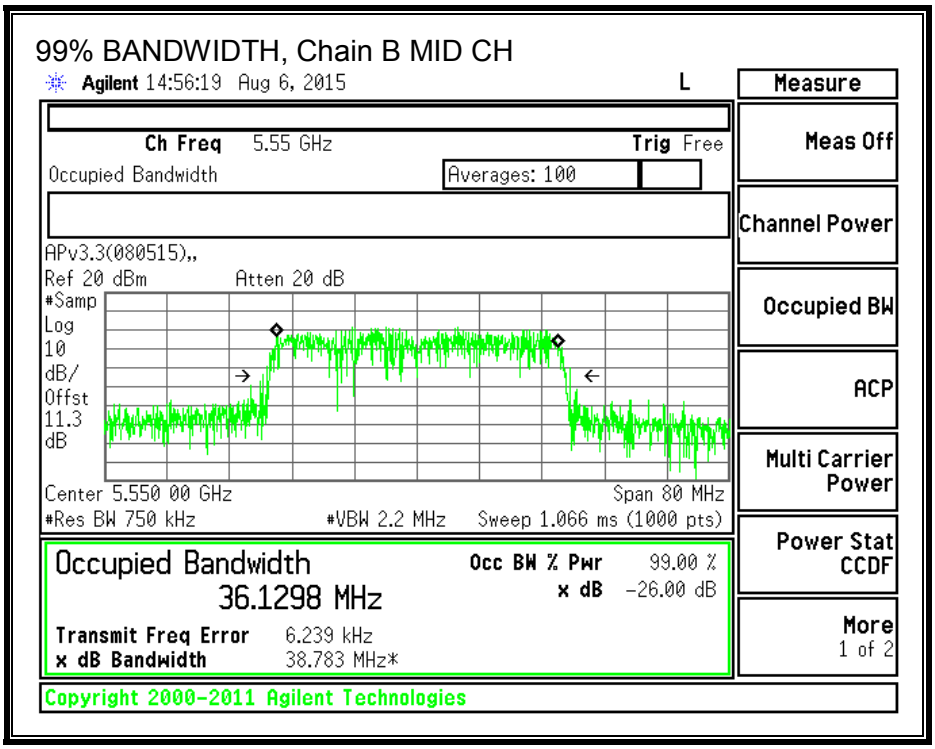
None; for reporting purposes only.

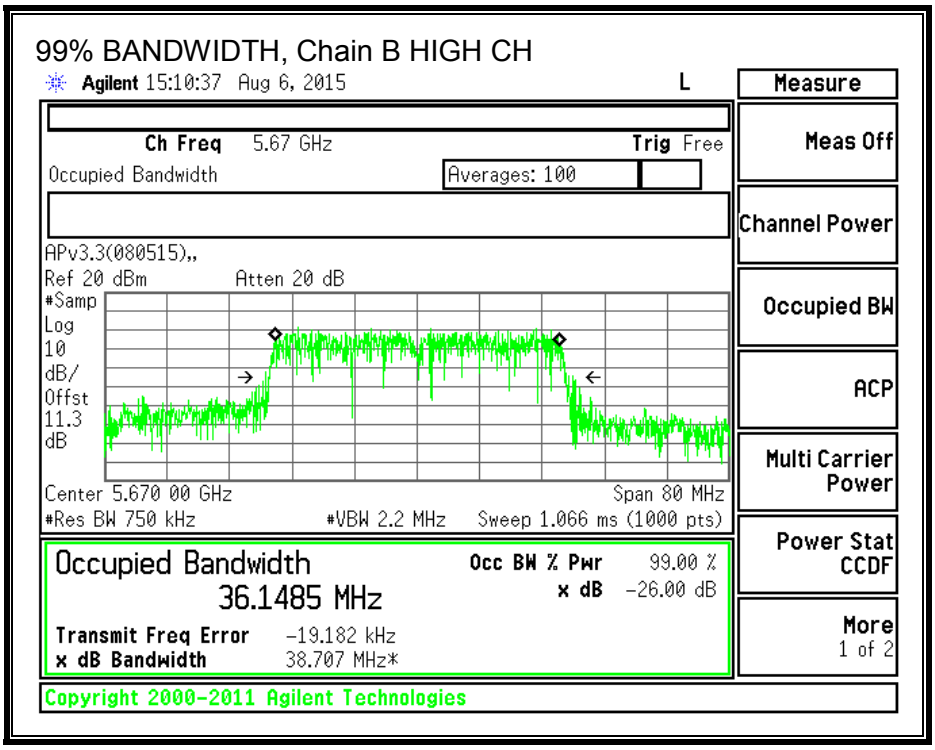
RESULTS

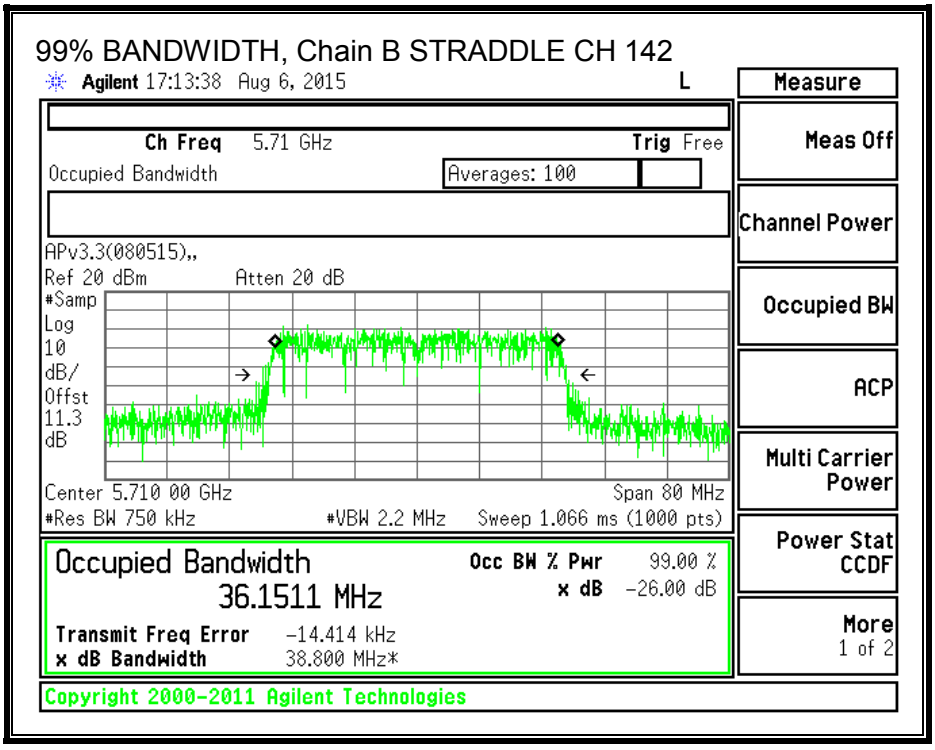
Channel	Frequency (MHz)	99% BW Chain B (MHz)	99% BW Chain A (MHz)
Low	5510	36.1790	36.1628
Mid	5550	36.1298	36.1403
High	5670	36.1485	36.1731
142	5710	36.1511	36.1695

99% BANDWIDTH, Chain B

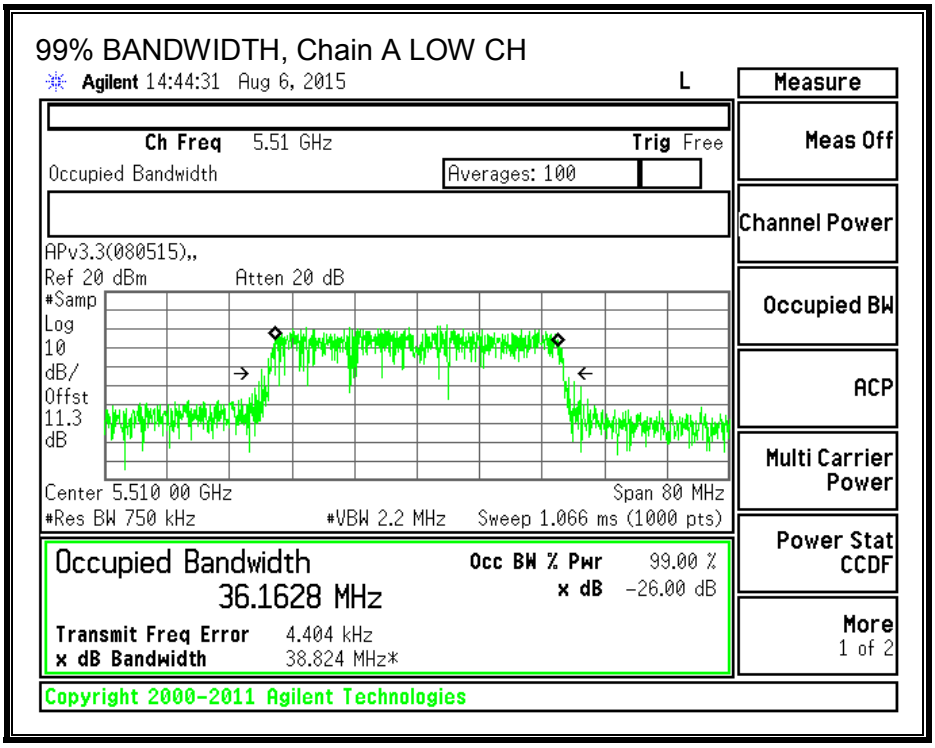


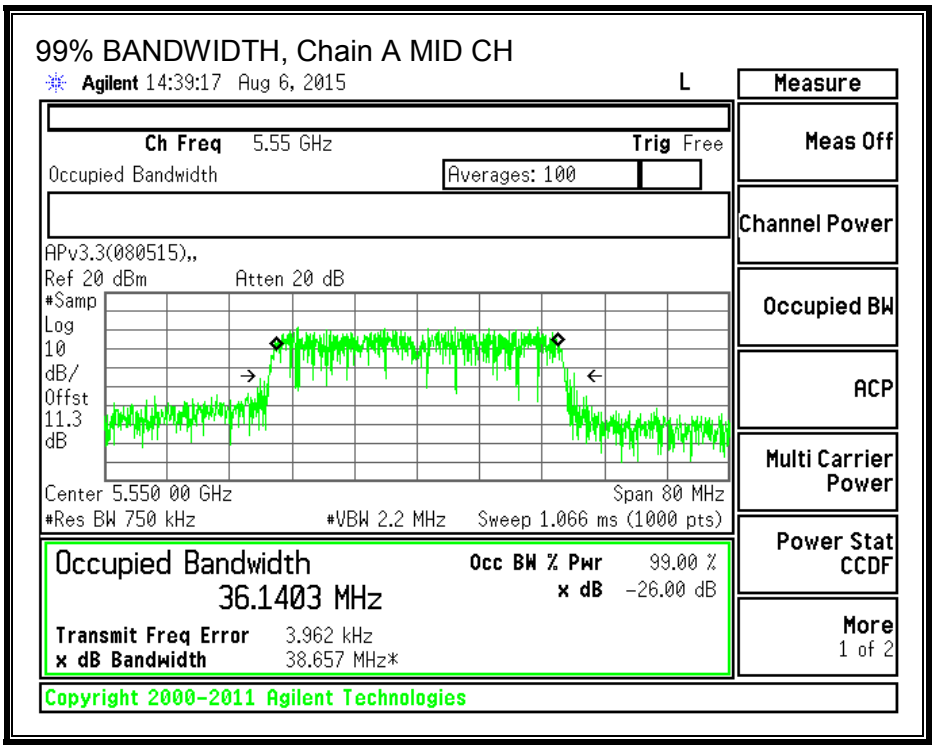


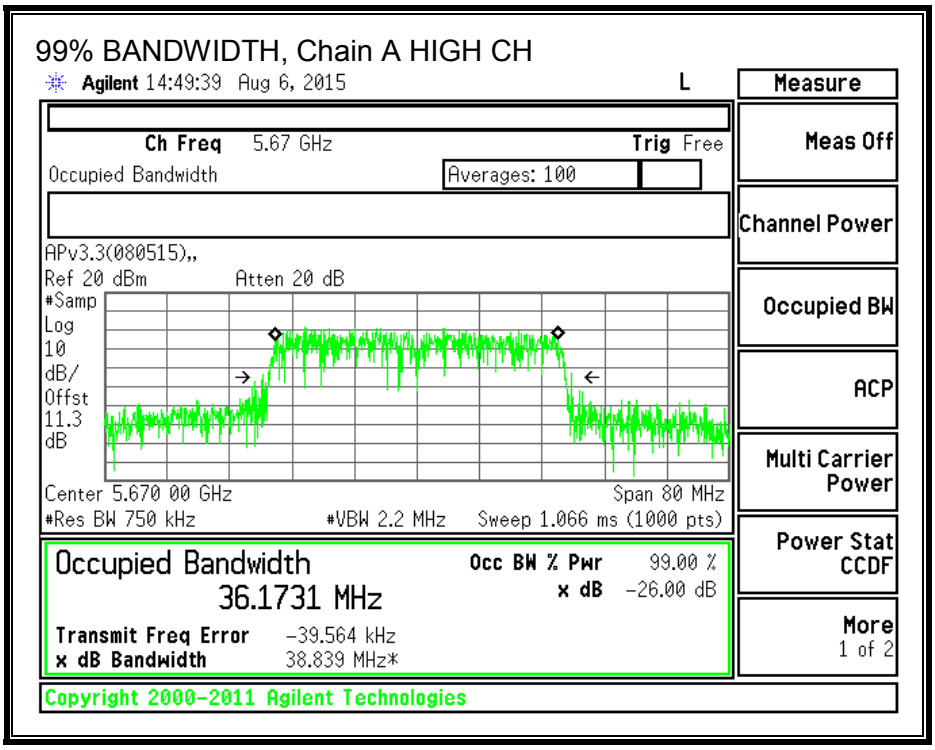


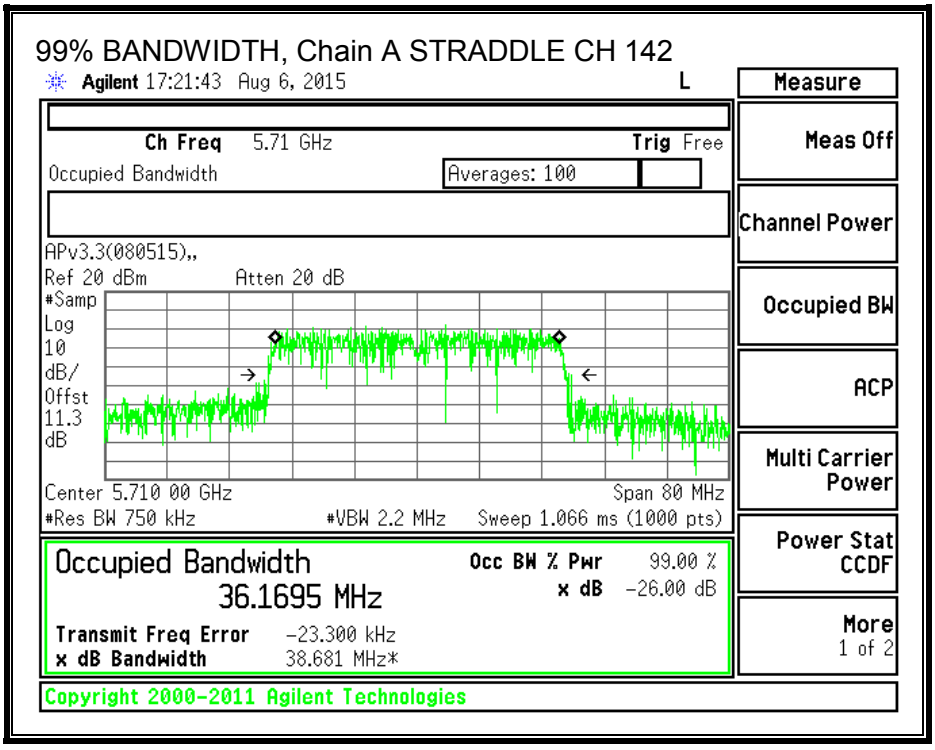


99% BANDWIDTH, Chain A









8.12.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.10	2.30	2.20

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5510	40.44	2.30	2.30	24.00	11.00
Mid	5550	40.02	2.30	2.30	24.00	11.00
High	5670	39.84	2.30	2.30	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

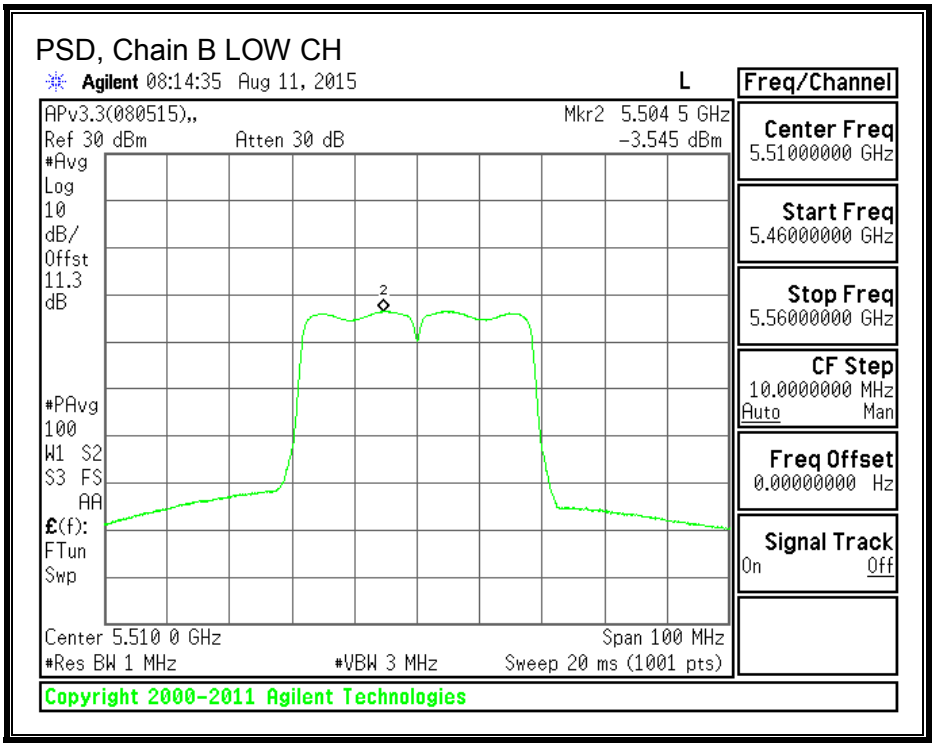
Output Power Results

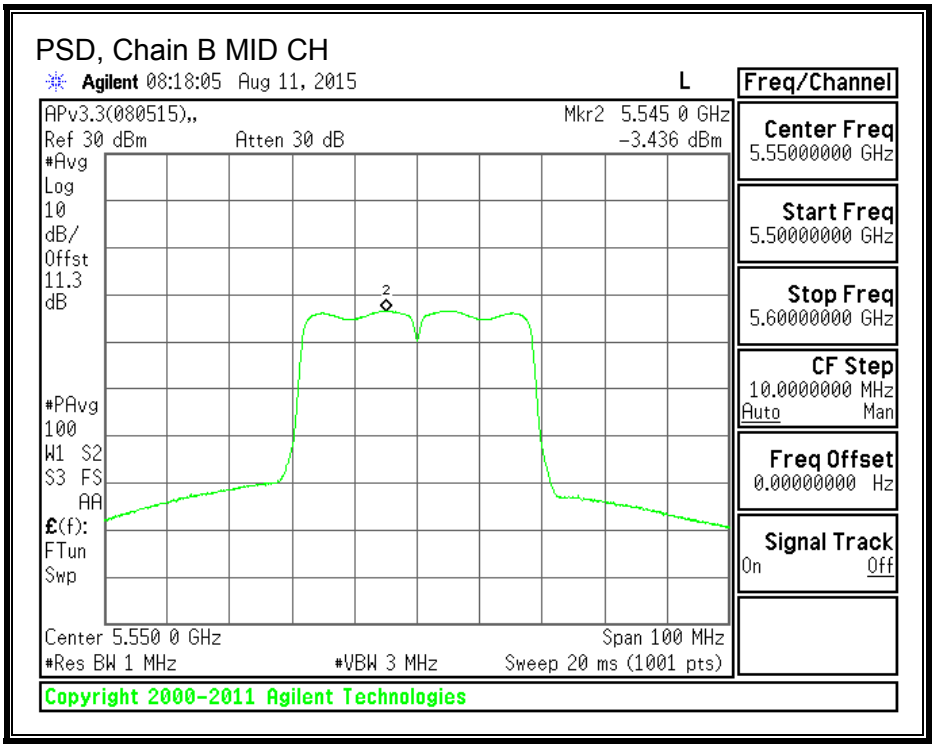
Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	11.04	11.06	14.06	24.00	-9.94
Mid	5550	10.92	10.81	13.88	24.00	-10.12
High	5670	11.09	11.01	14.06	24.00	-9.94

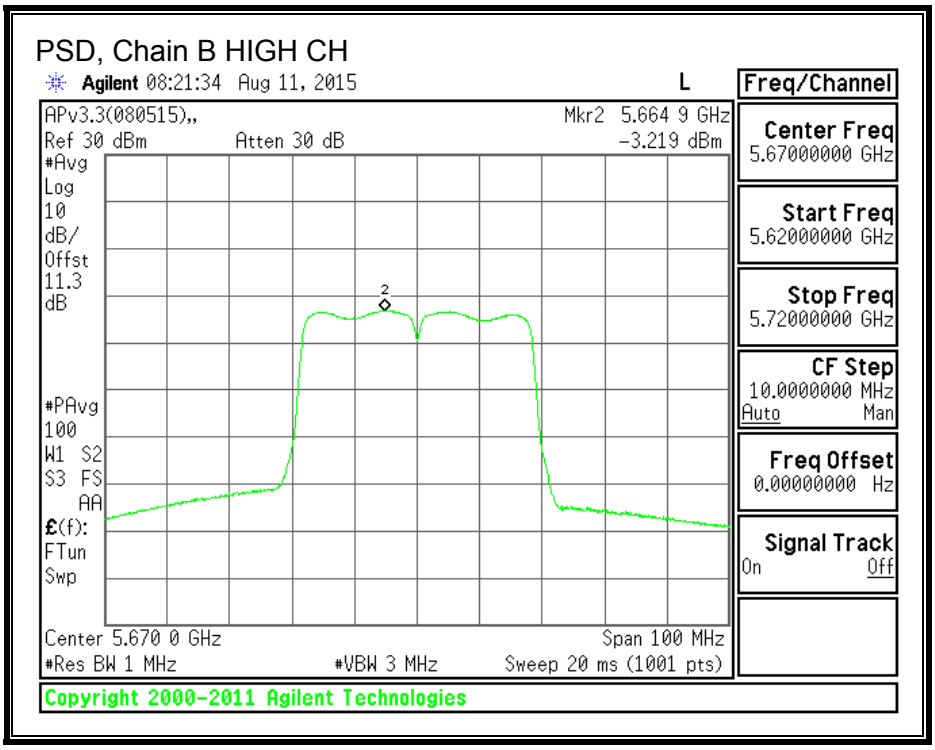
PSD Results

Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5510	-3.55	-3.18	-0.35	11.00	-11.35
Mid	5550	-3.44	-3.15	-0.28	11.00	-11.28
High	5670	-3.22	-3.13	-0.16	11.00	-11.16

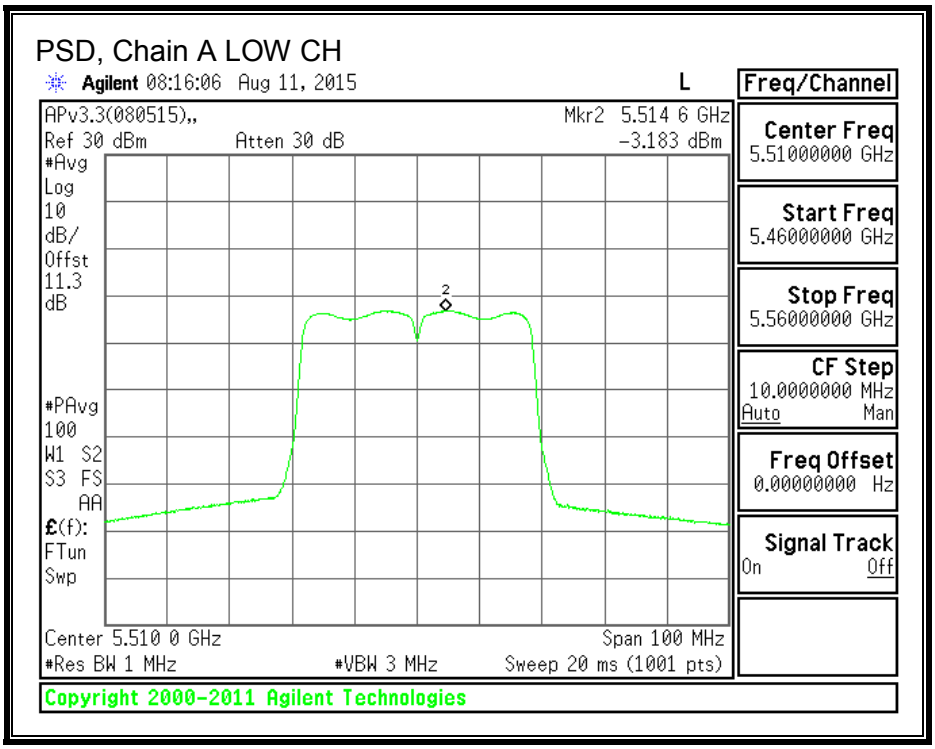
PSD, Chain B



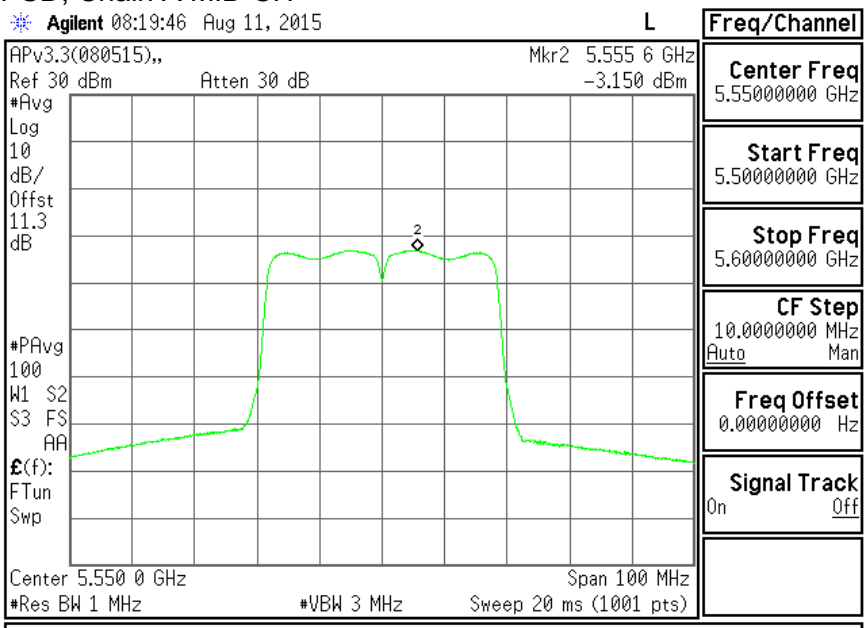




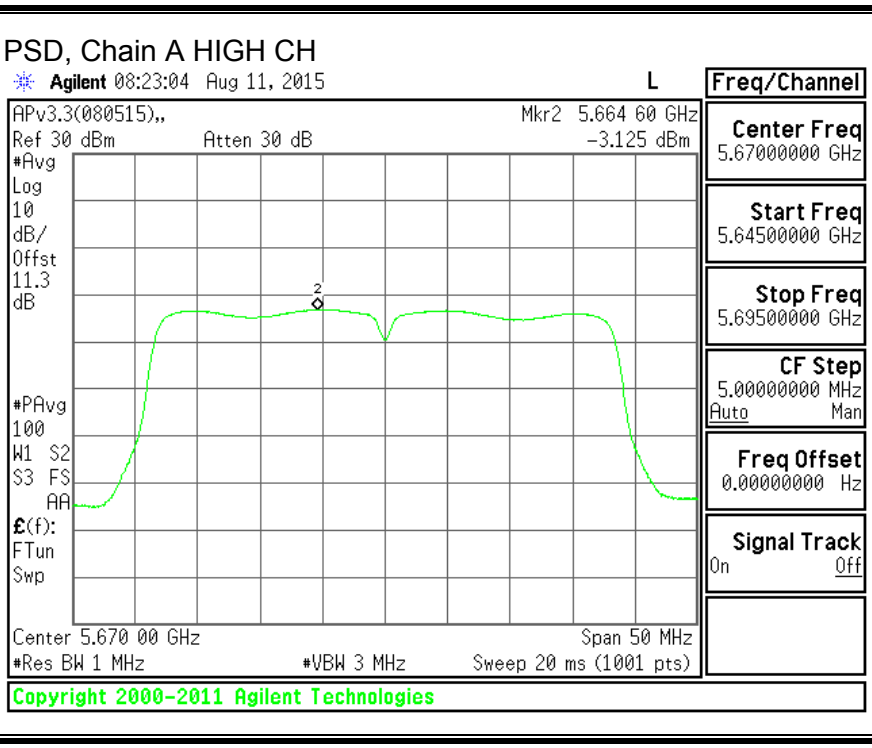
PSD, Chain A



PSD, Chain A MID CH



PSD, Chain A HIGH CH



STRADDLE CHANNEL 142 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	40.44	2.20	2.20	24.00	11.00

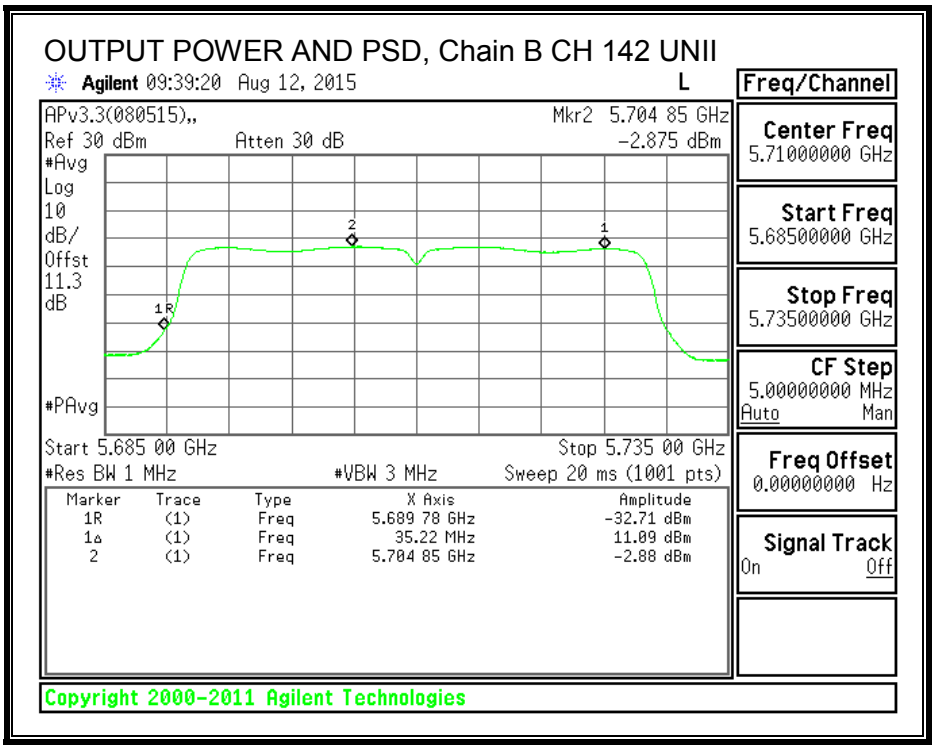
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

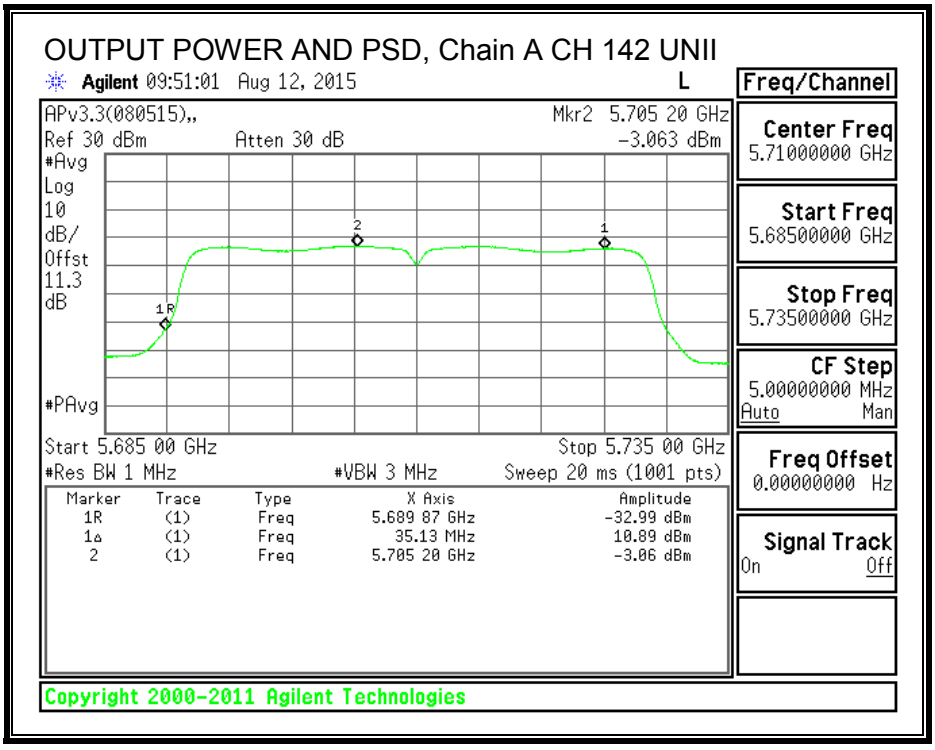
Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
142	5710	11.09	10.89	14.00	24.00	-10.00

PSD Results

Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	-2.88	-3.06	0.04	11.00	-10.96





UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	2.20	2.20	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

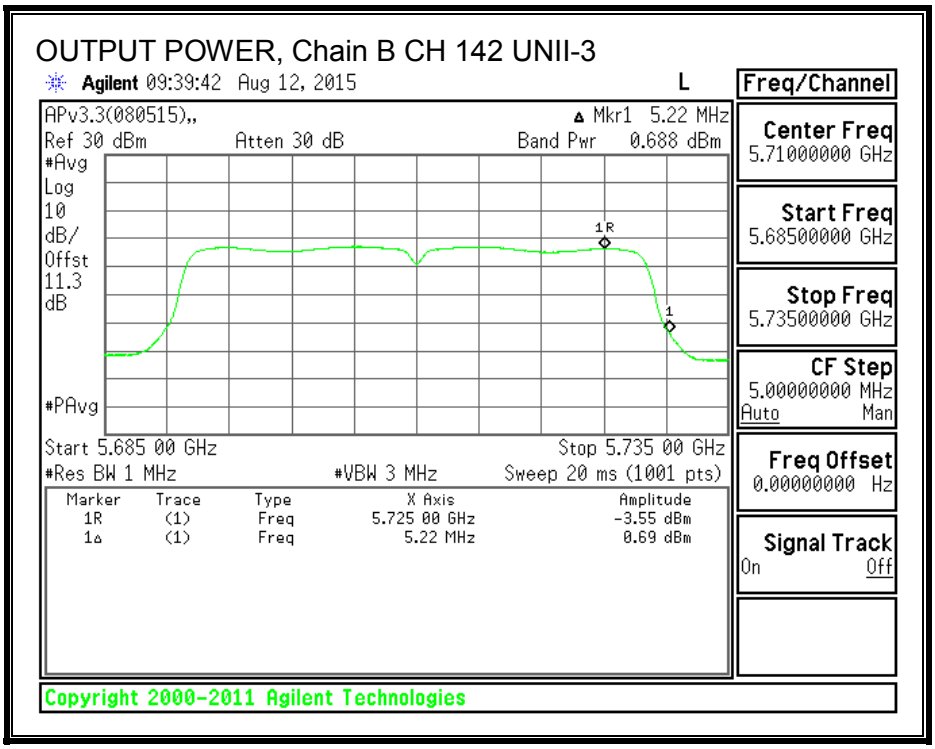
Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
142	5710	0.69	0.43	3.57	30.00	-26.43

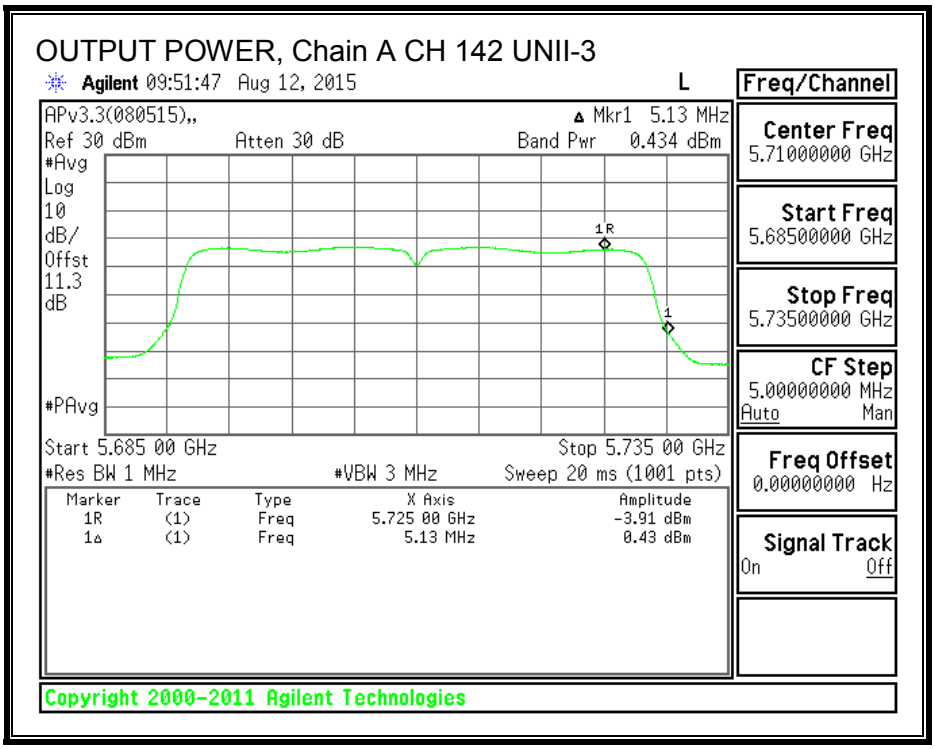
PSD Results

Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	-6.30	-6.53	-3.40	30.00	-33.40

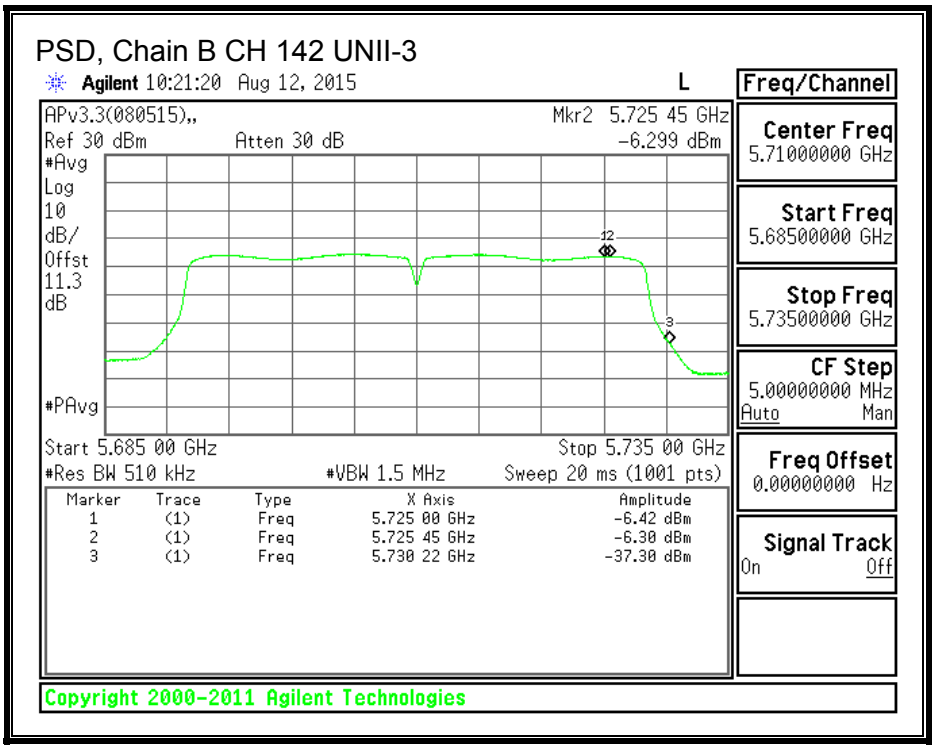
OUTPUT POWER, Chain B CH 142 UNII-3



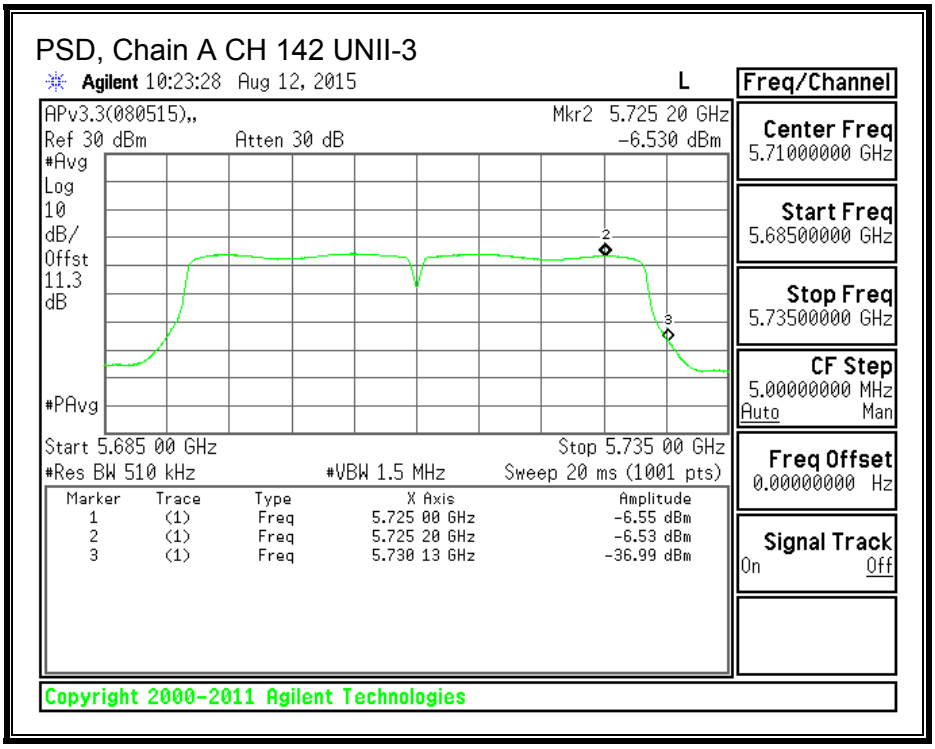
OUTPUT POWER, Chain A CH 142 UNII-3



PSD, Chain B CH 142 UNII-3



PSD, Chain A CH 142 UNII-3



8.12.4. TPC POWER

LIMITS

FCC §15.407 (h) (1)

Transmit power control (TPC). U-NII devices operating in the 5.25–5.35 GHz band and the 5.47–5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.10	2.30	2.20

RESULTS

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5510	24	2.20	21.80
Mid	5550	24	2.20	21.80
High	5670	24	2.20	21.80

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

TPC Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5510	11.04	11.06	14.06	21.80	-7.74
Mid	5550	10.92	10.81	13.88	21.80	-7.92
High	5670	11.09	11.01	14.06	21.80	-7.74

8.13. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

8.13.1. 26 dB BANDWIDTH

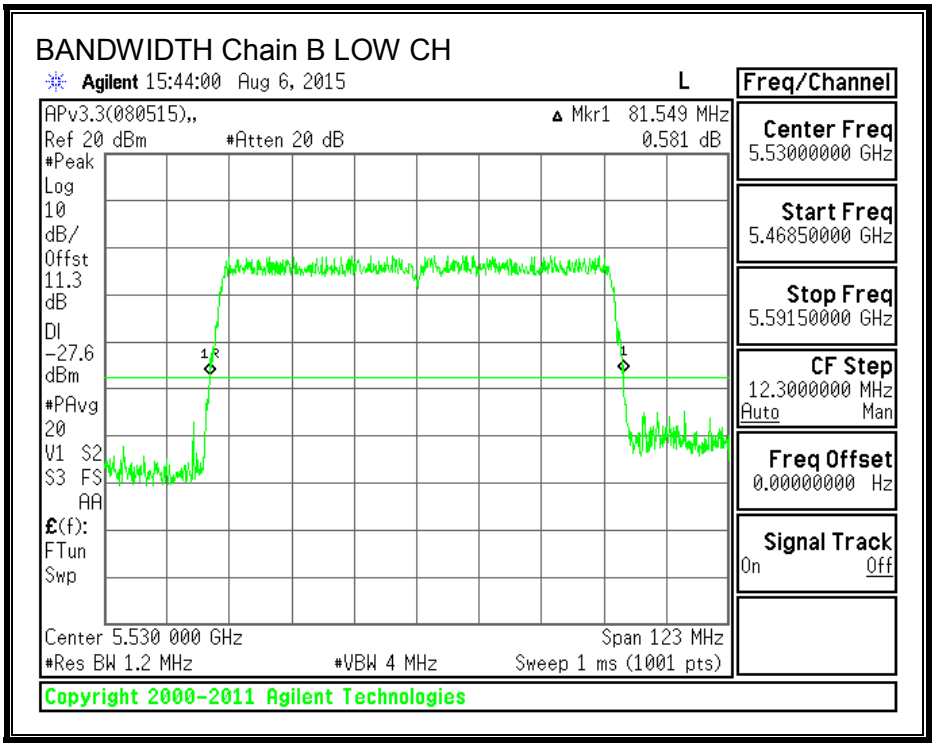
LIMITS

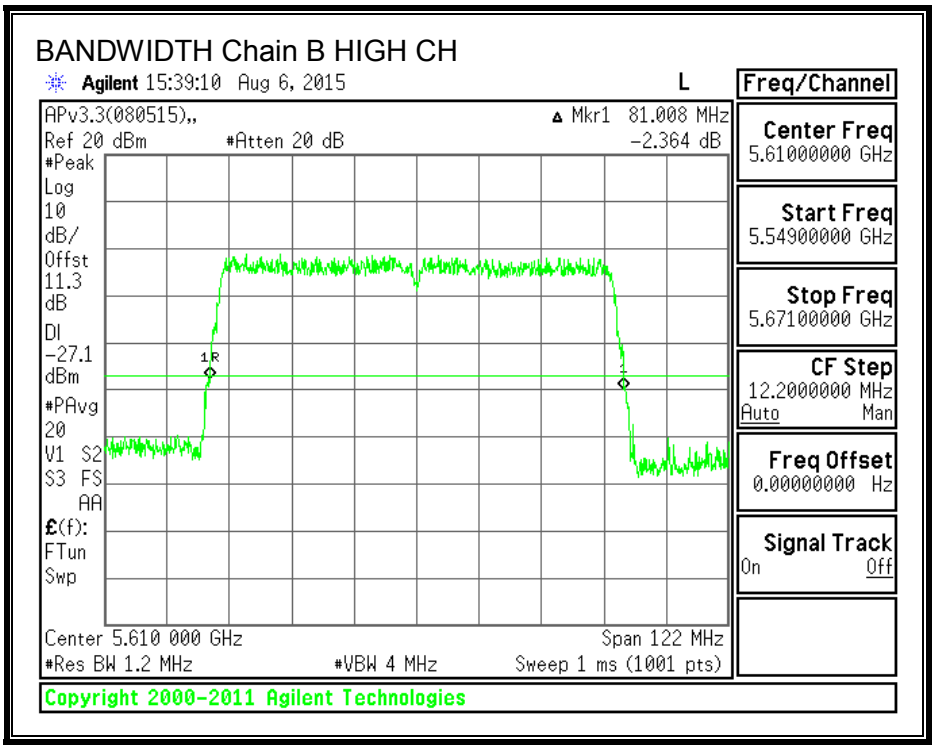
None; for reporting purposes only.

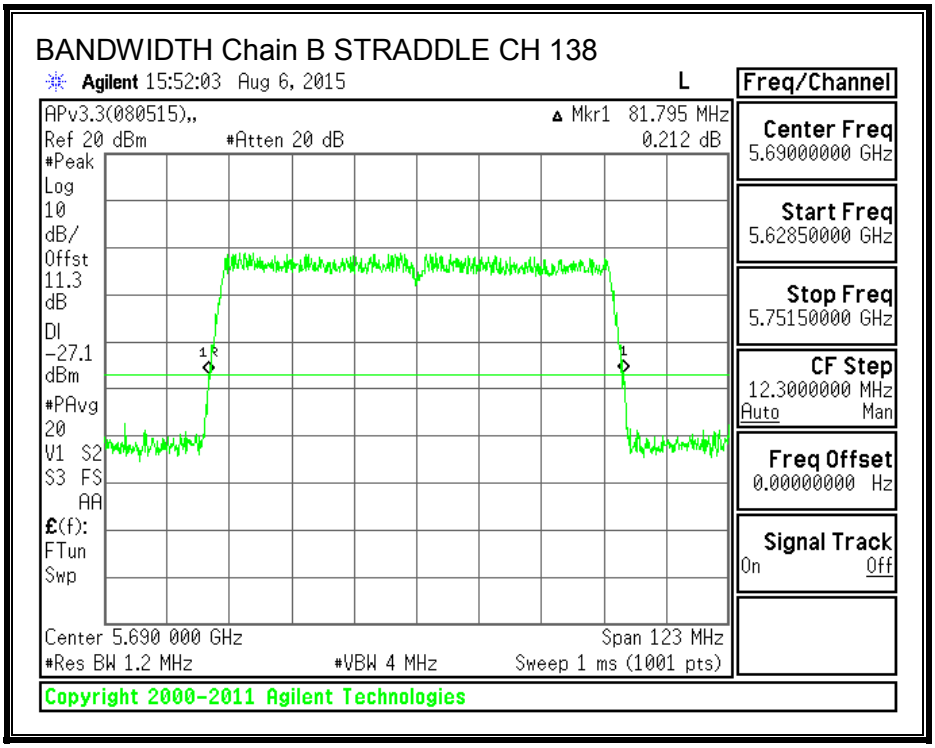
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain B (MHz)	26 dB BW Chain A (MHz)
Low	5530	81.55	81.50
High	5610	81.01	81.50
138	5690	81.80	81.01

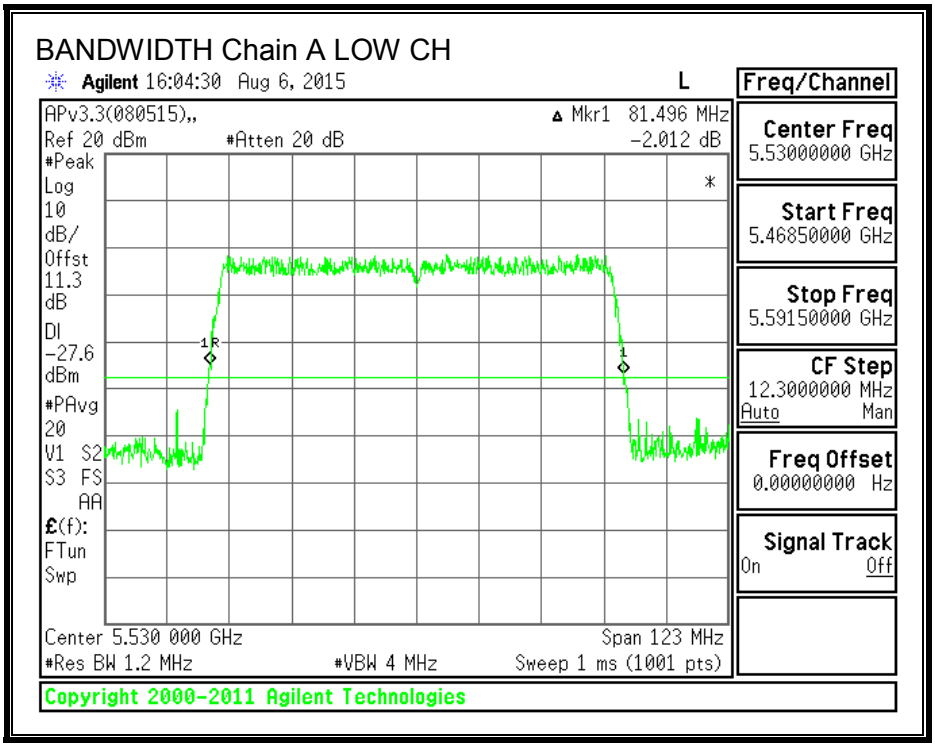
26 dB BANDWIDTH, Chain B

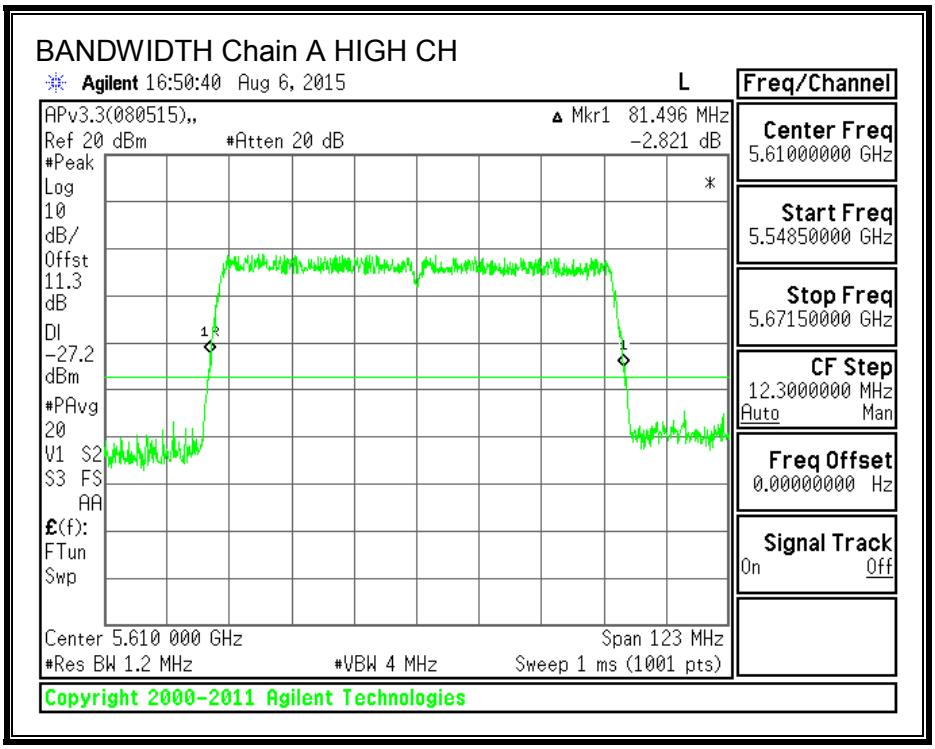


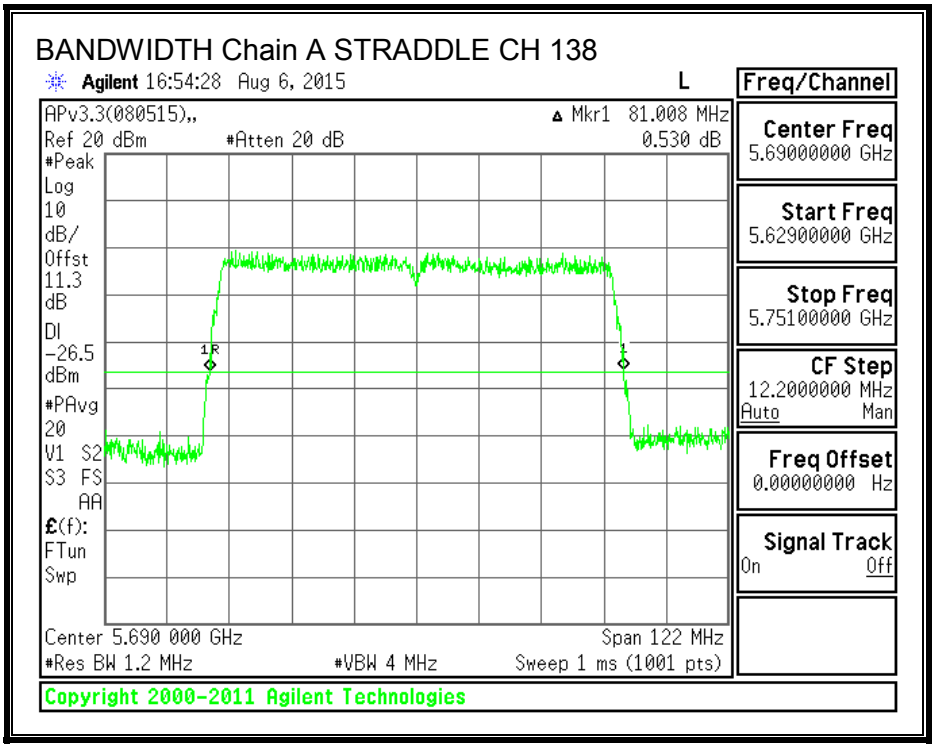




26 dB BANDWIDTH, Chain A







8.13.2. 99% BANDWIDTH

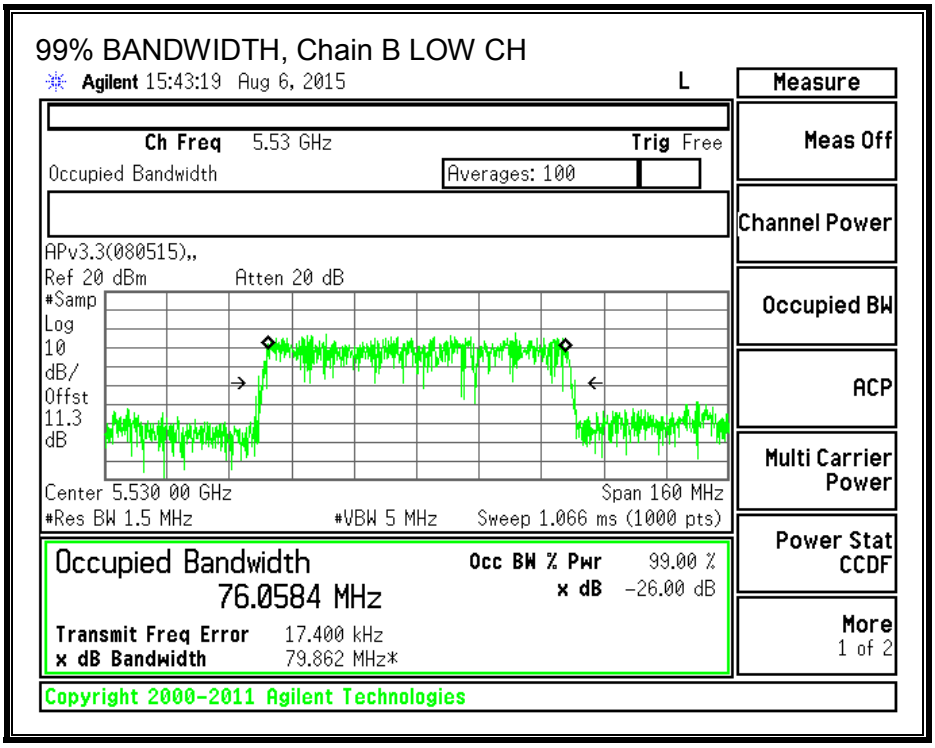
LIMITS

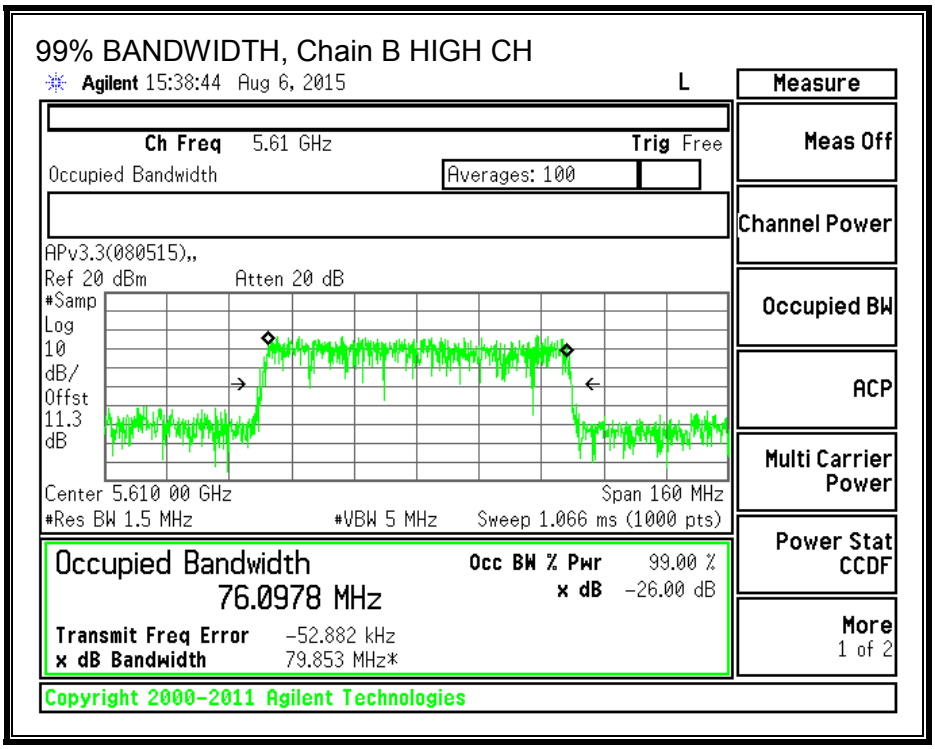
None; for reporting purposes only.

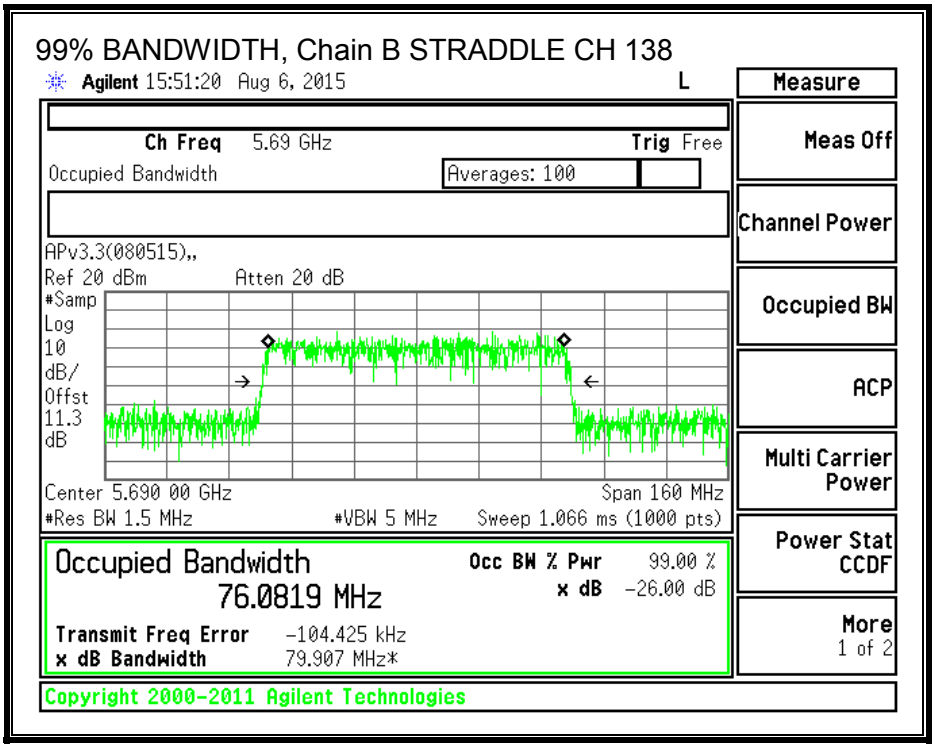
RESULTS

Channel	Frequency (MHz)	99% BW Chain B (MHz)	99% BW Chain A (MHz)
Low	5530	76.0584	76.0690
High	5610	76.0978	76.0926
138	5690	76.0819	76.0870

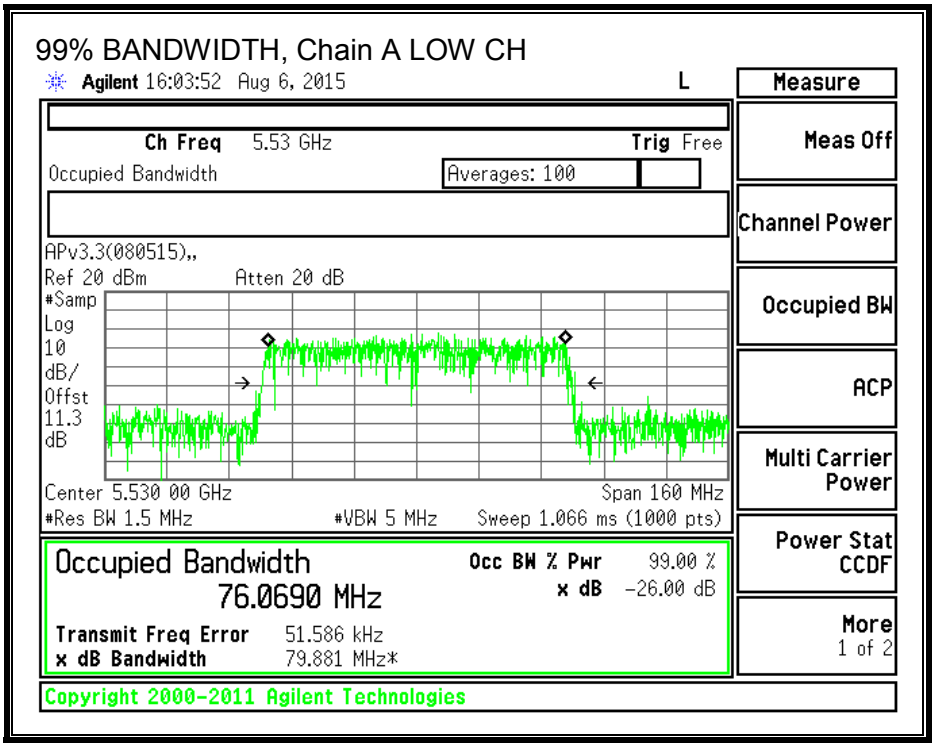
99% BANDWIDTH, Chain B

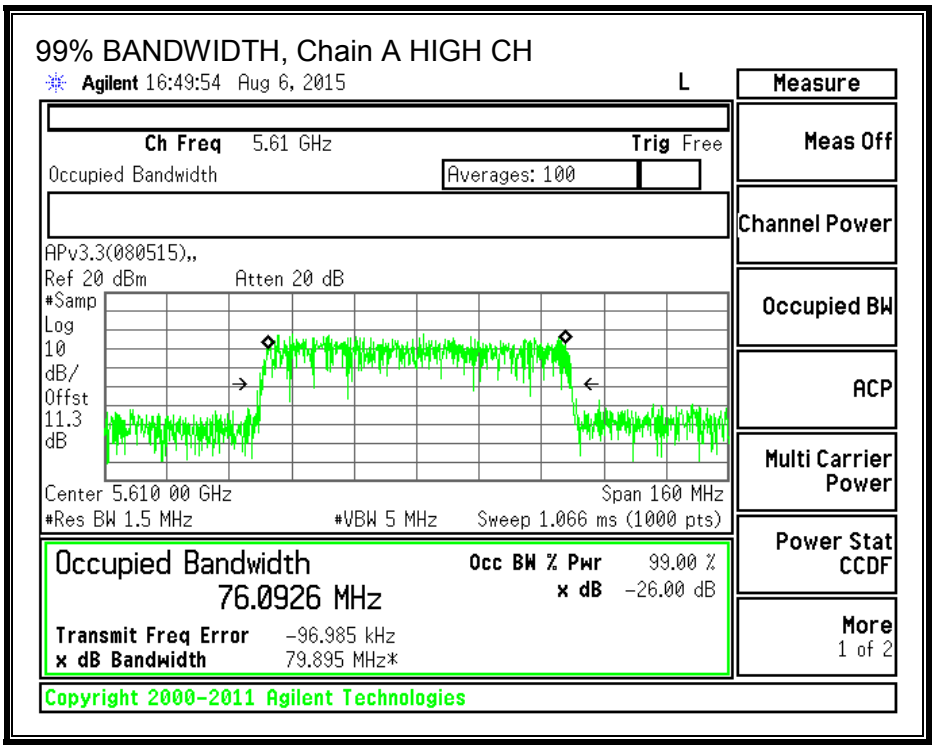


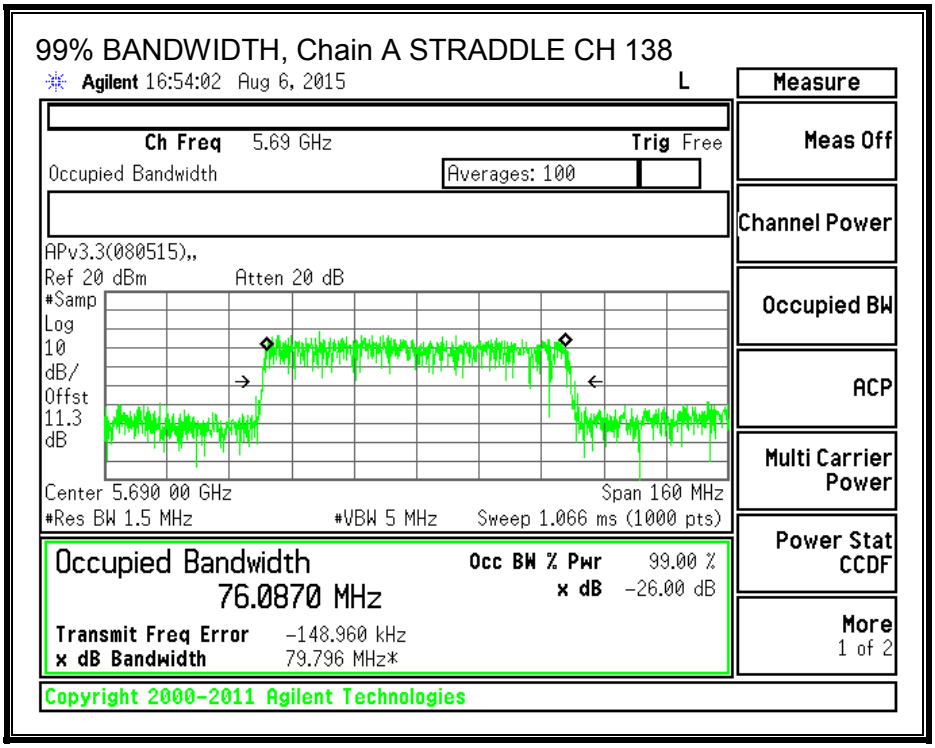




99% BANDWIDTH, Chain A







8.13.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.10	2.30	2.20

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5530	81.50	2.20	2.20	24.00	11.00
High	5610	81.01	2.20	2.20	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

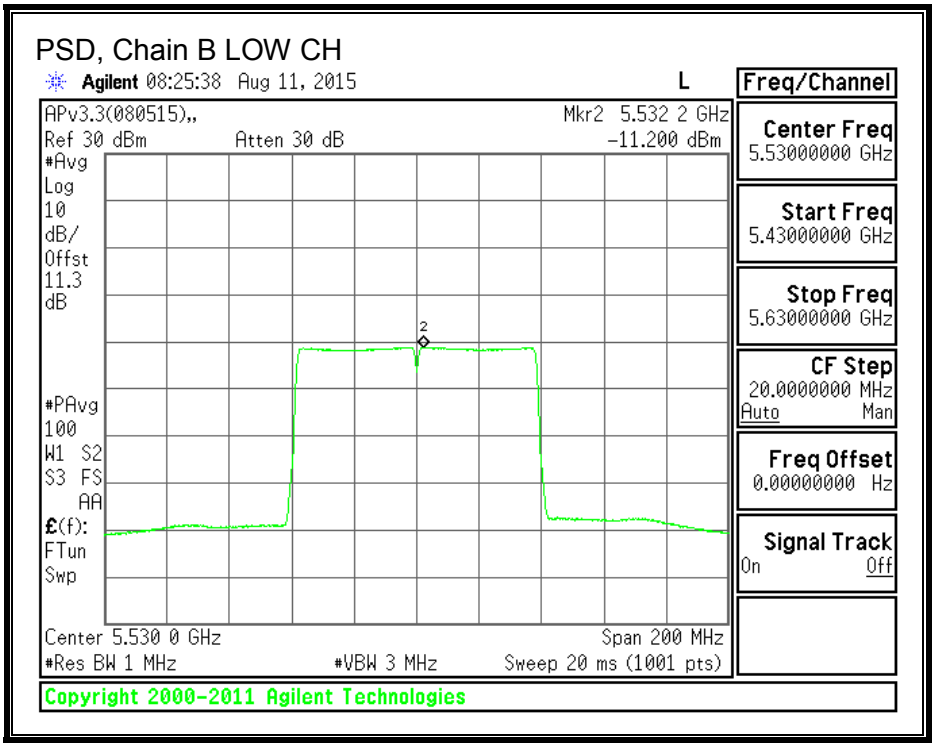
Output Power Results

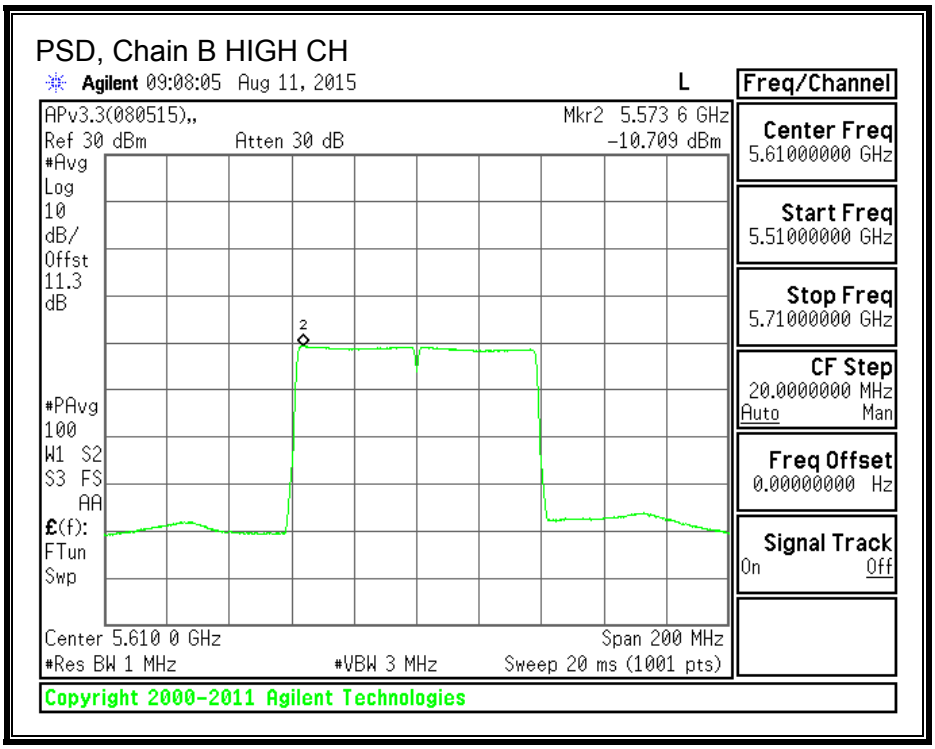
Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	6.99	7.39	10.20	24.00	-13.80
High	5610	7.16	7.31	10.25	24.00	-13.75

PSD Results

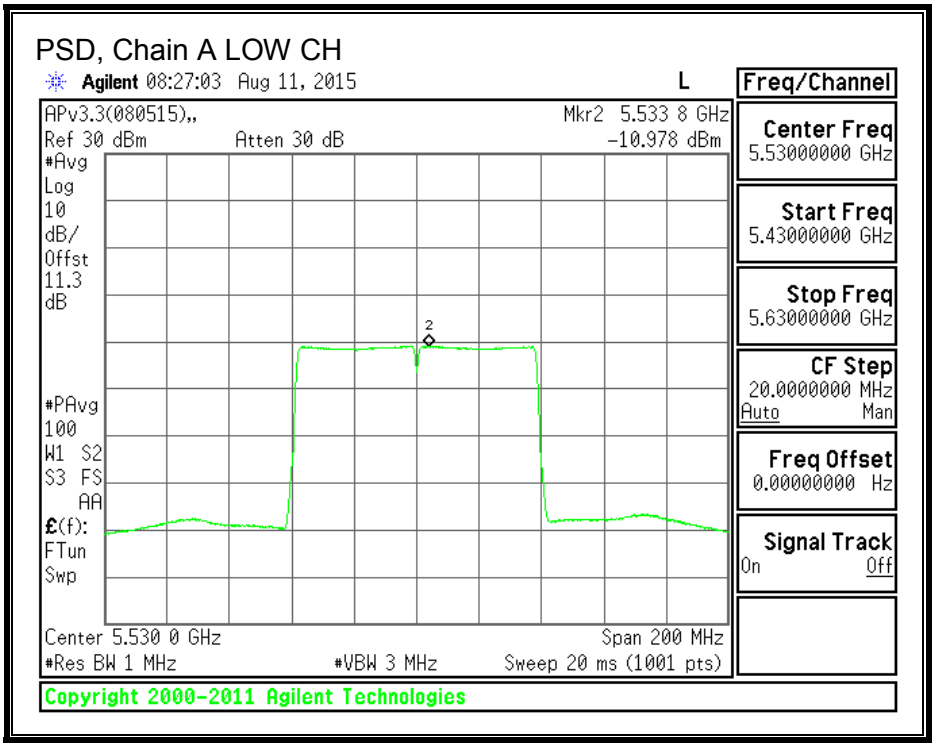
Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5530	-11.20	-10.98	-8.08	11.00	-19.08
High	5610	-10.71	-10.65	-7.67	11.00	-18.67

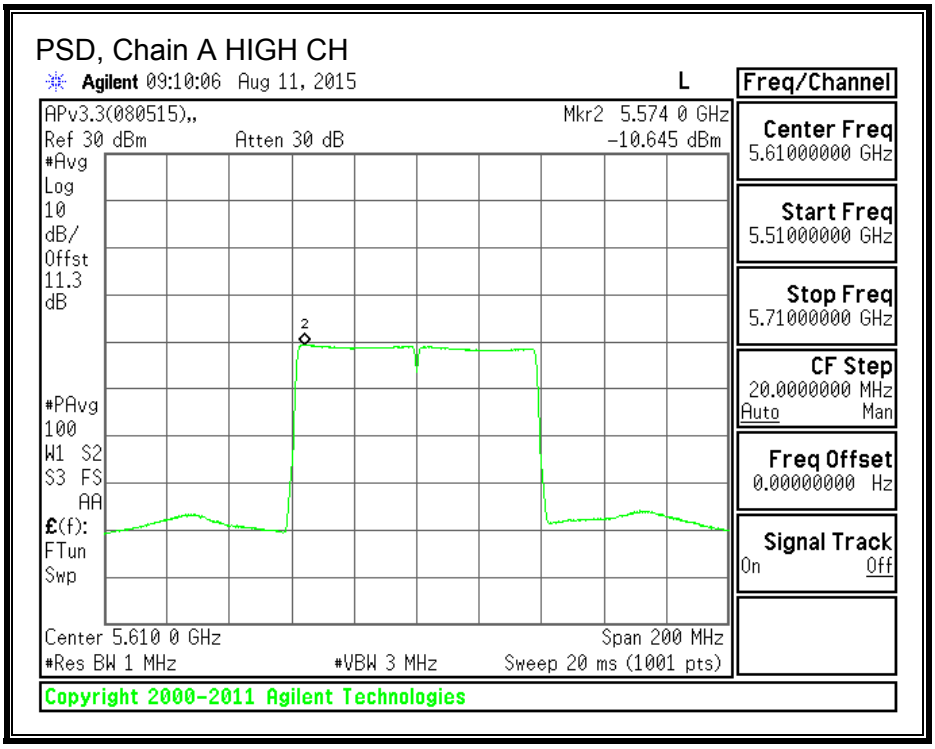
PSD, Chain B





PSD, Chain A





STRADDLE CHANNEL 138 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
138	5690	81.01	2.20	2.20	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

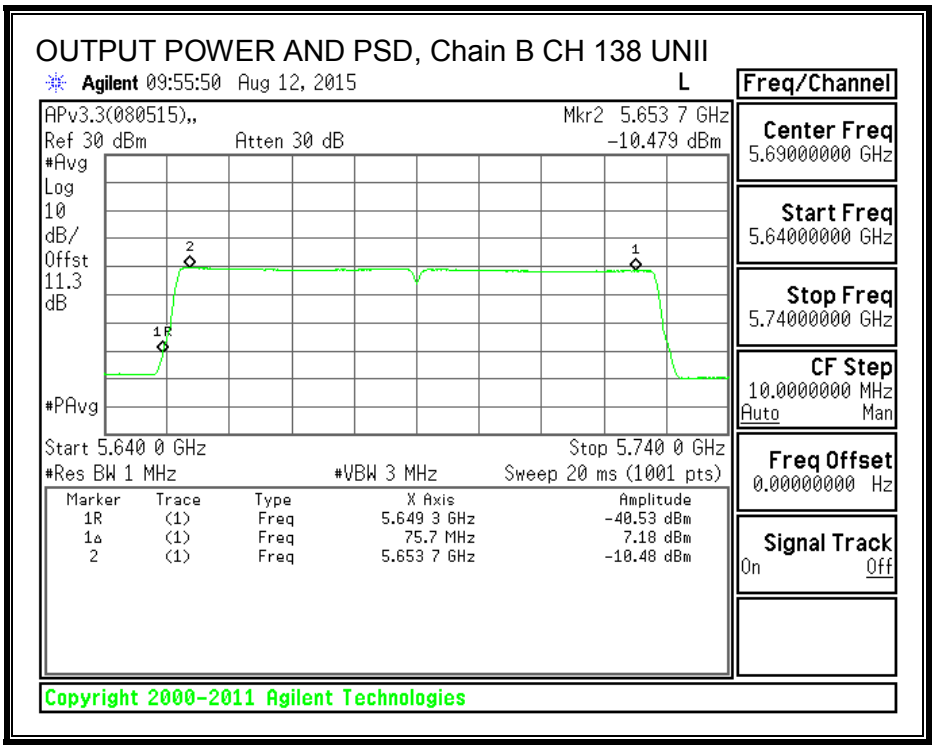
Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
138	5690	7.18	7.41	10.31	24.00	-13.69

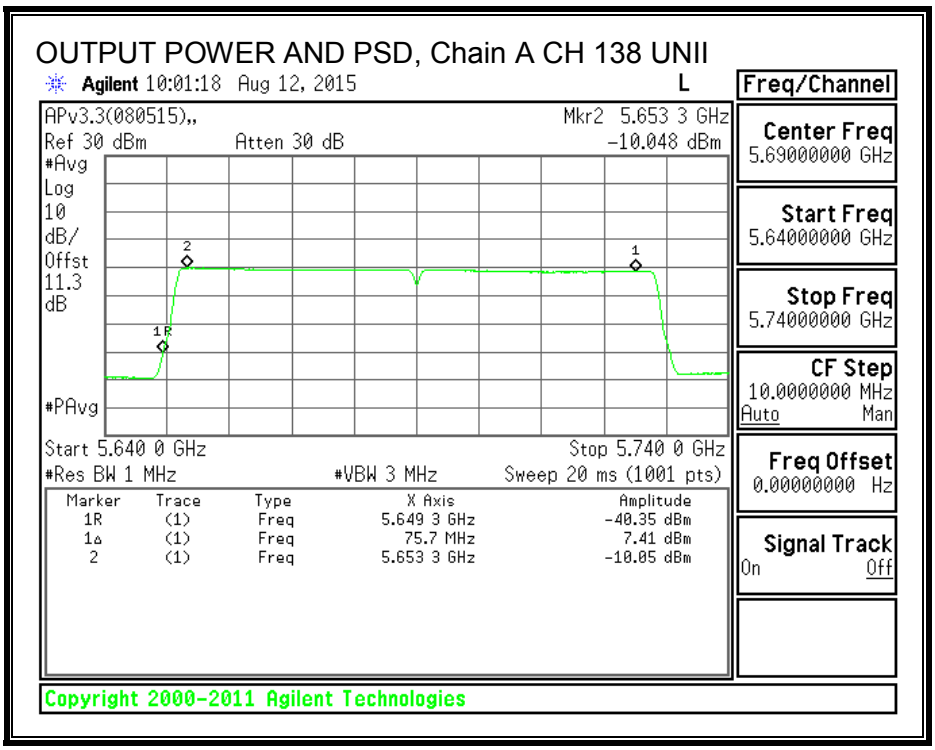
PSD Results

Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
138	5690	-10.48	-10.05	-7.25	11.00	-18.25

OUTPUT POWER AND PSD, Chain B CH 138 UNII



OUTPUT POWER AND PSD, Chain A CH 138 UNII



UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
138	5690	2.20	2.20	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

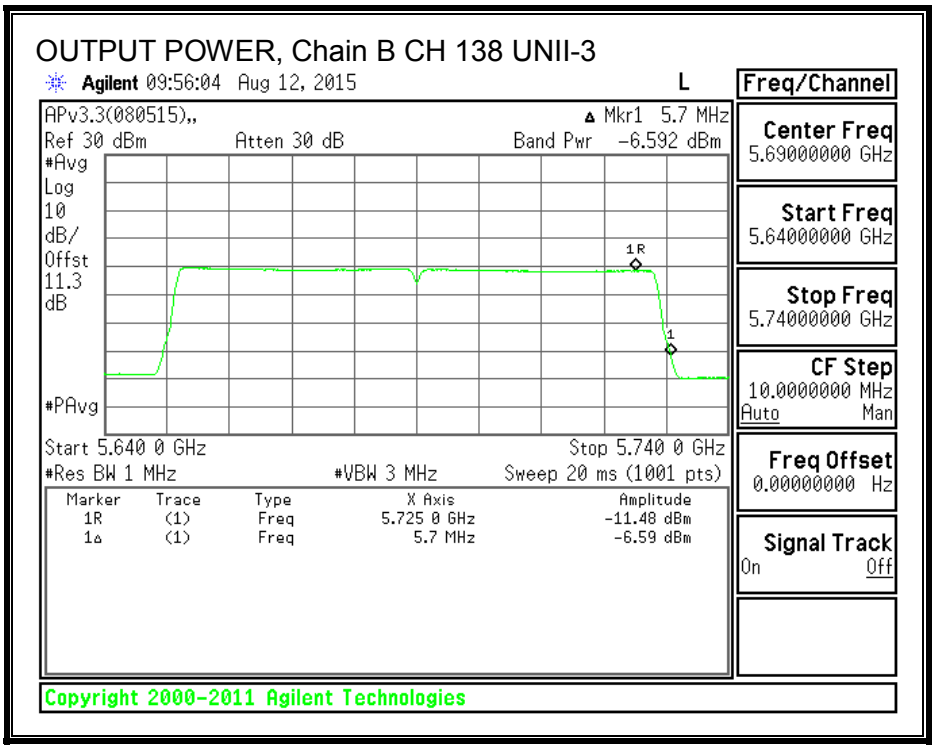
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
138	5690	-6.59	-6.45	-3.51	30.00	-33.51

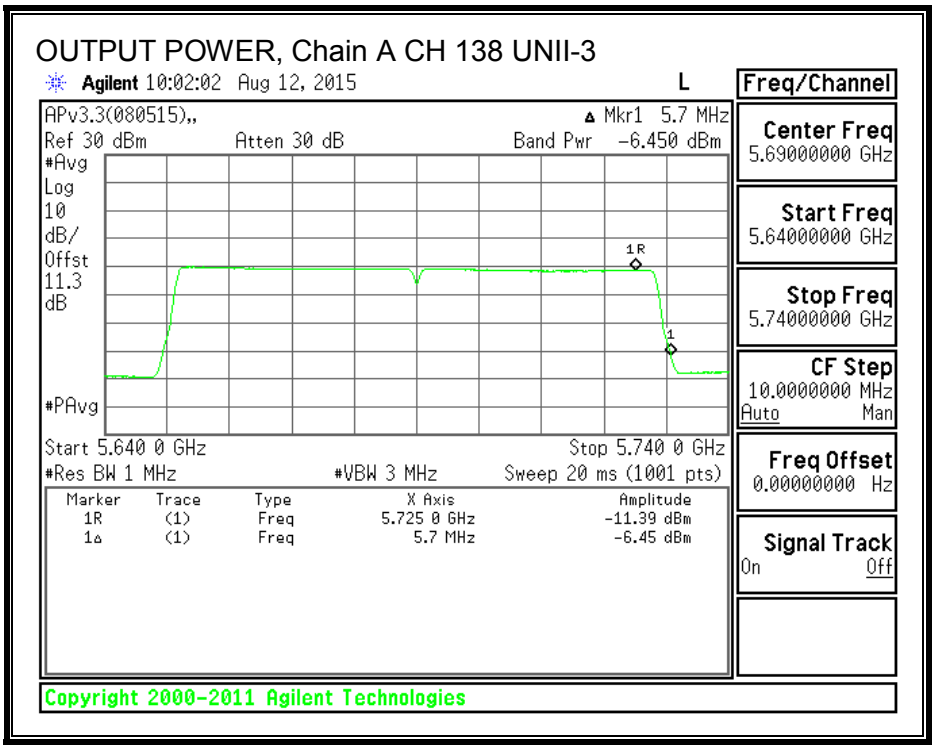
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
138	5690	-14.20	-14.23	-11.20	30.00	-41.20

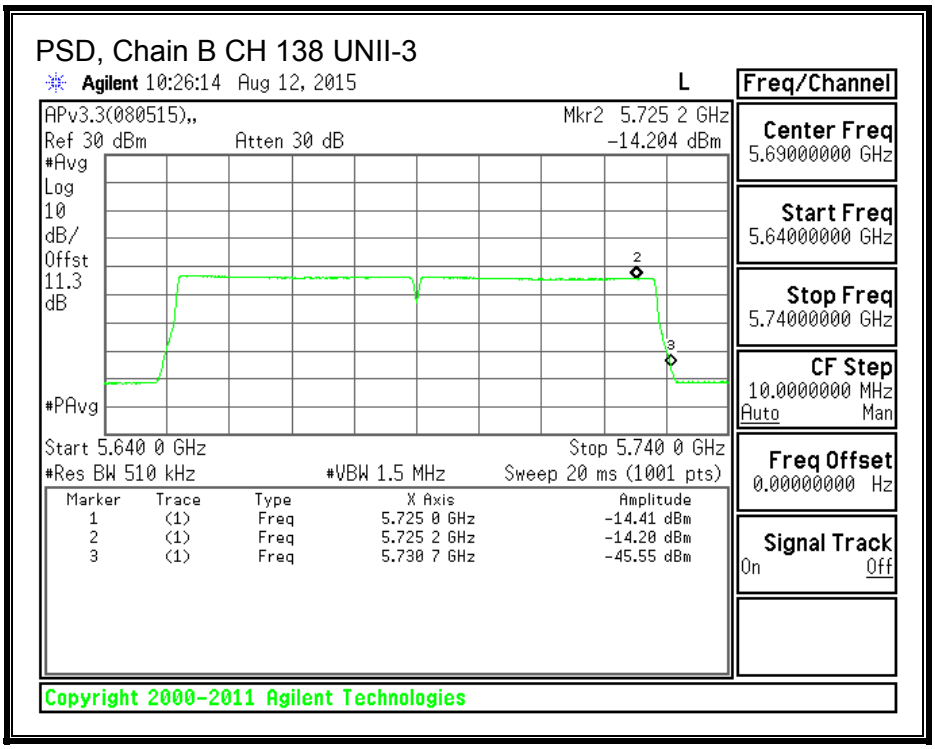
OUTPUT POWER, Chain B CH 138 UNII-3



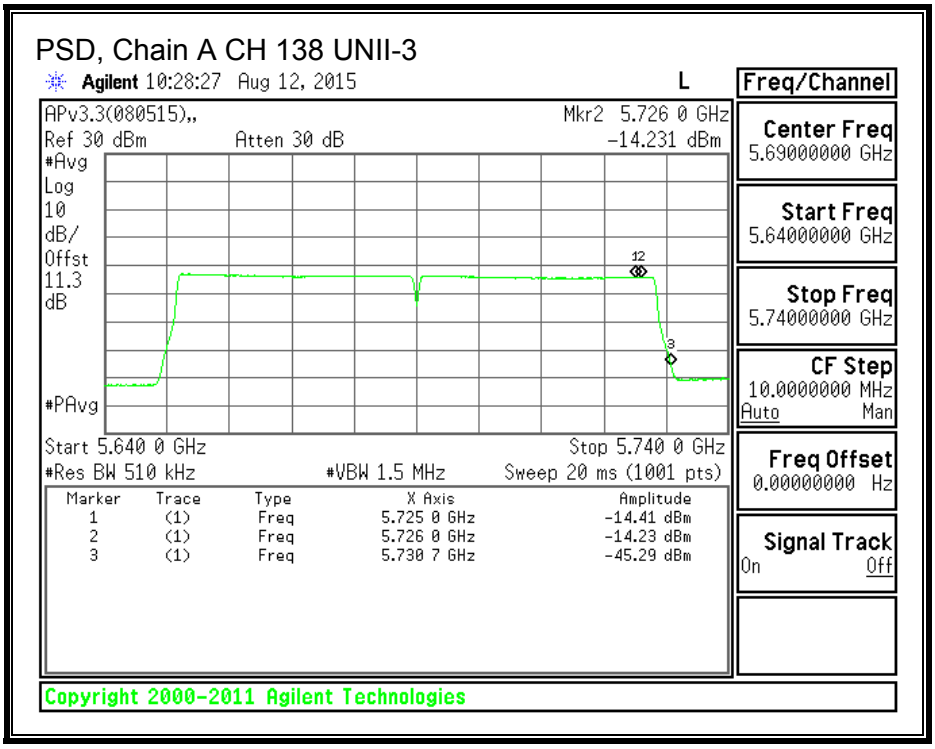
OUTPUT POWER, Chain A CH 138 UNII-3



PSD, Chain B CH 138 UNII-3



PSD, Chain A CH 138 UNII-3



8.13.4. TPC POWER

LIMITS

FCC §15.407 (h) (1)

Transmit power control (TPC). U-NII devices operating in the 5.25–5.35 GHz band and the 5.47–5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.10	2.30	2.20

RESULTS

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5530	24	2.20	21.80
Mid	5610	24	2.20	21.80

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

TPC Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5530	6.99	7.39	10.20	21.80	-11.60
Mid	5610	7.16	7.31	10.25	21.80	-11.55

8.14. 802.11a MODE IN THE 5.8 GHz BAND

8.14.1. 6 dB BANDWIDTH

LIMITS

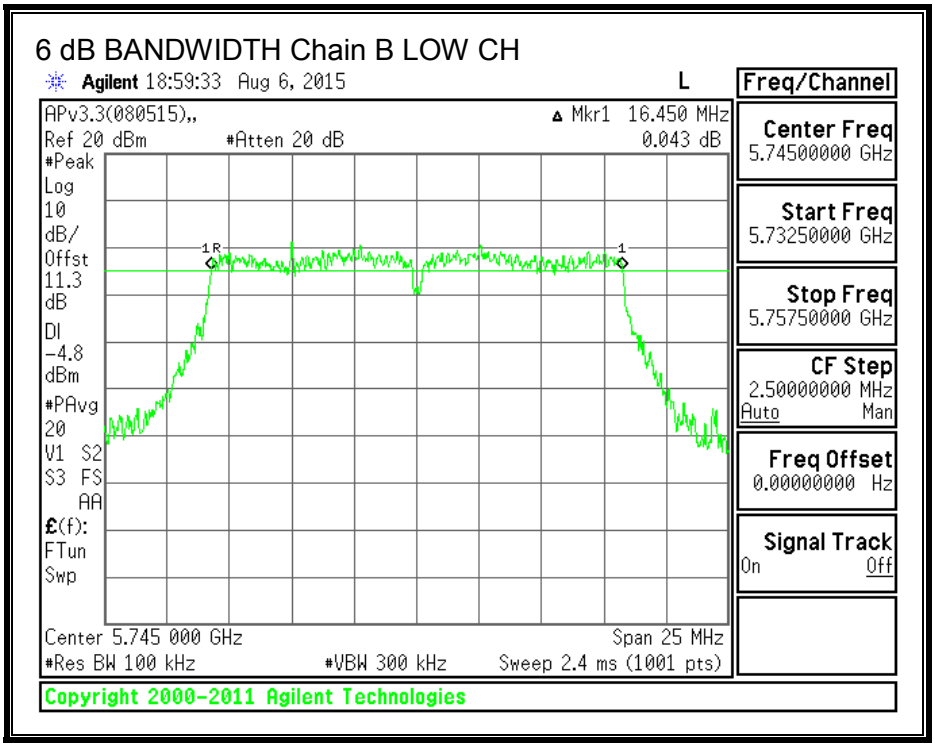
FCC §15.407 (e)

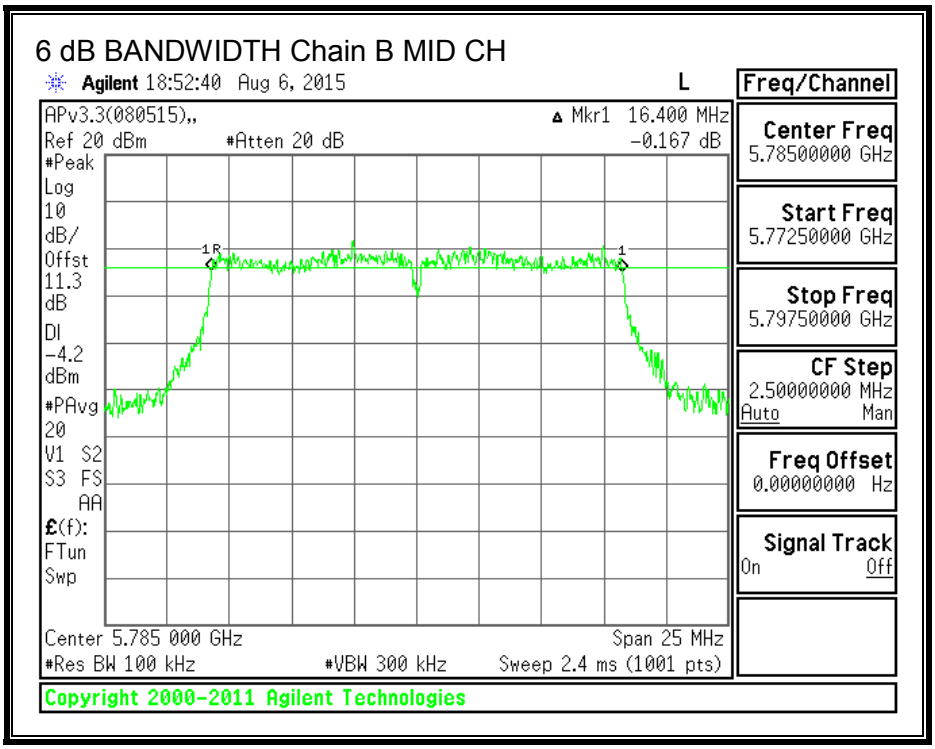
The minimum 6 dB bandwidth shall be at least 500 kHz.

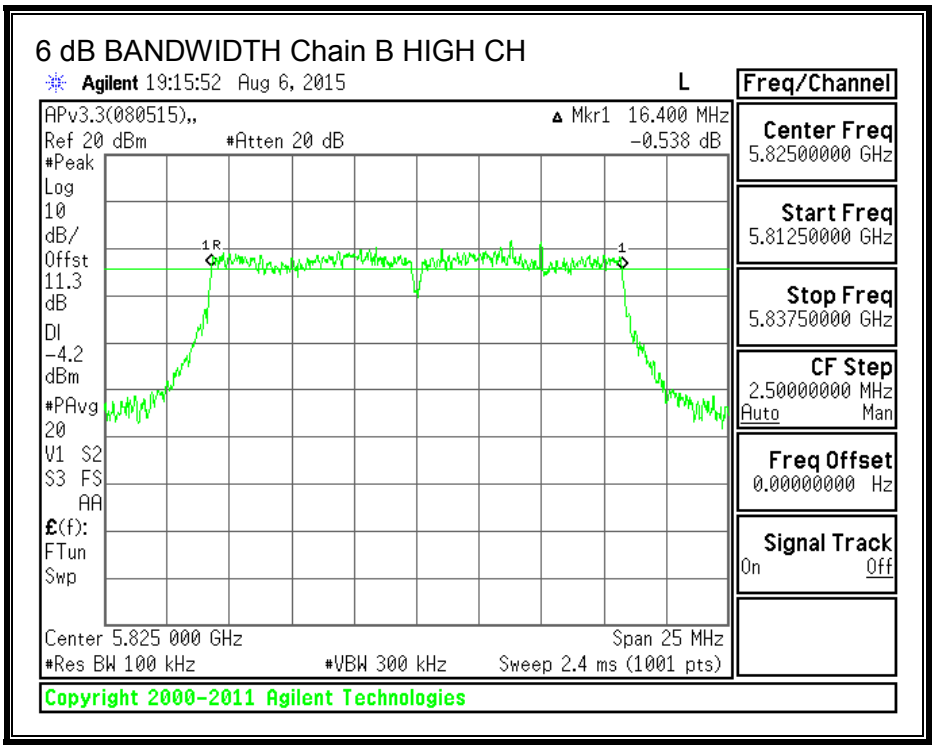
RESULTS

Channel	Frequency (MHz)	6 dB BW Chain B (MHz)	6 dB BW Chain A (MHz)	Minimum Limit (MHz)
Low	5745	16.4500	16.3750	0.5
Mid	5785	16.4000	16.3750	0.5
High	5825	16.4000	16.5750	0.5

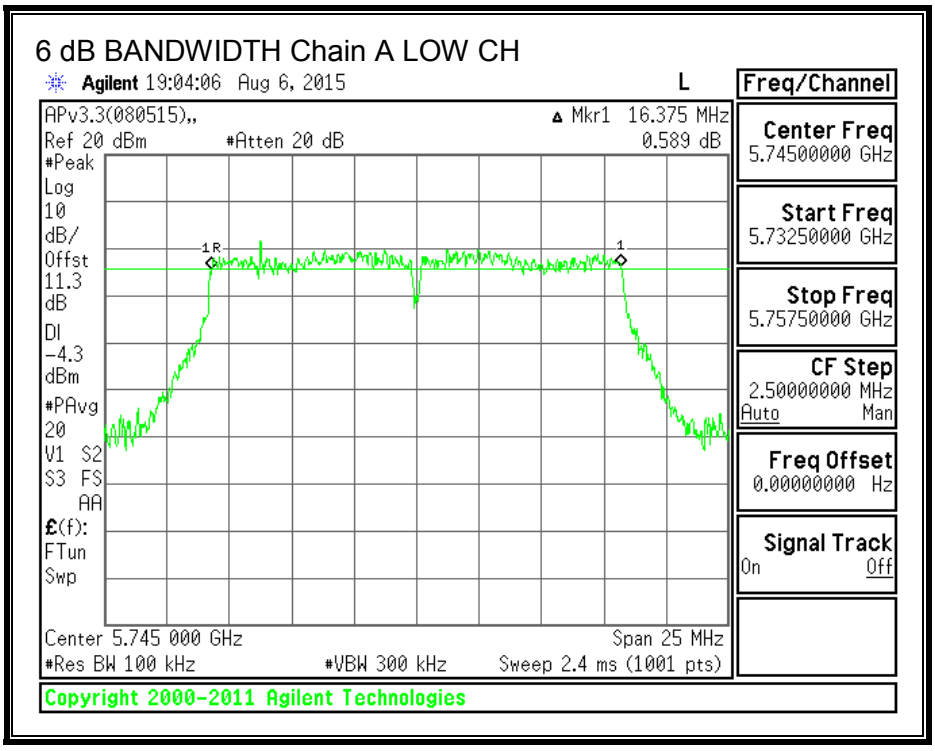
6 dB BANDWIDTH, Chain B



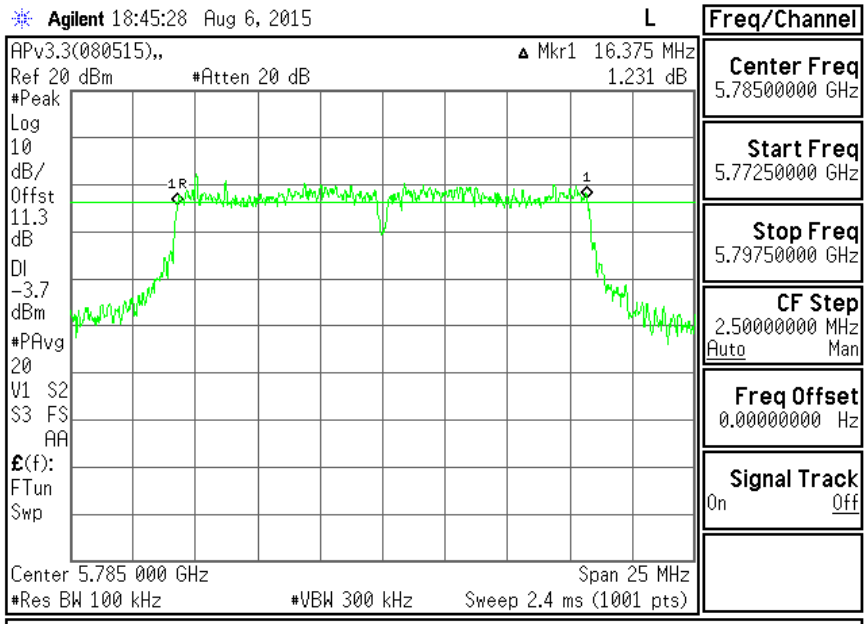




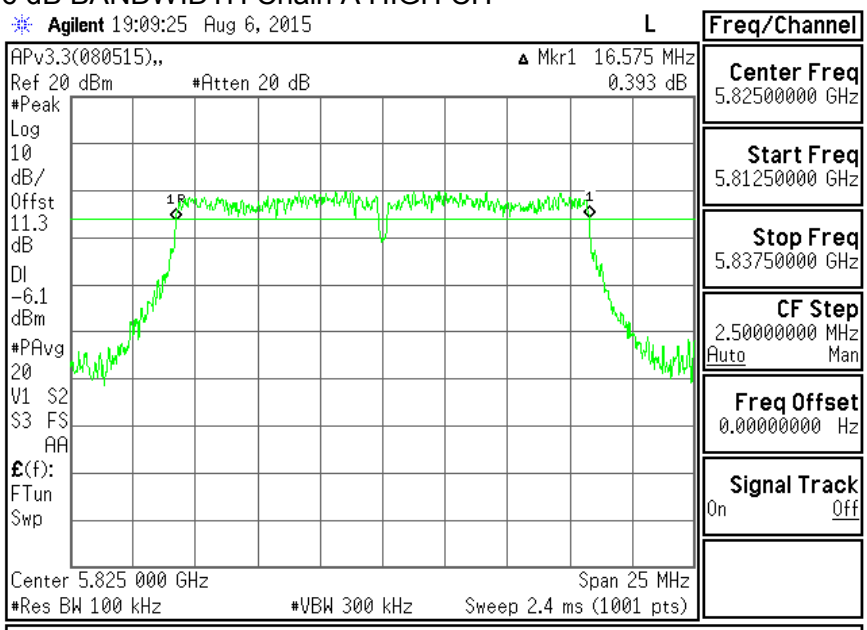
6 dB BANDWIDTH, Chain A



6 dB BANDWIDTH Chain A MID CH



6 dB BANDWIDTH Chain A HIGH CH



8.14.2. 26 dB BANDWIDTH

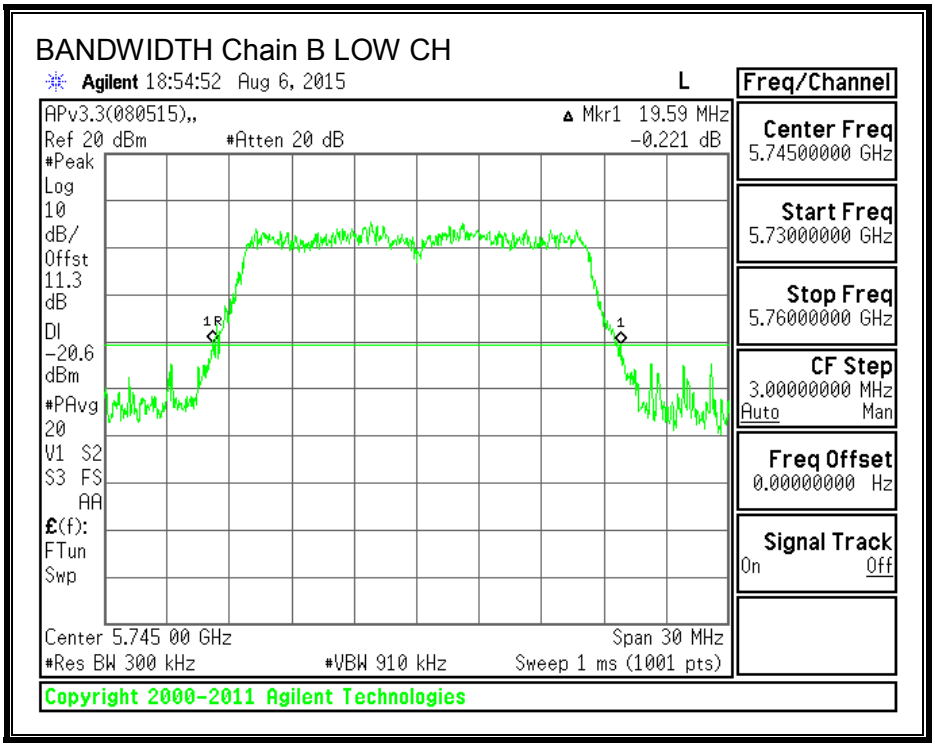
LIMITS

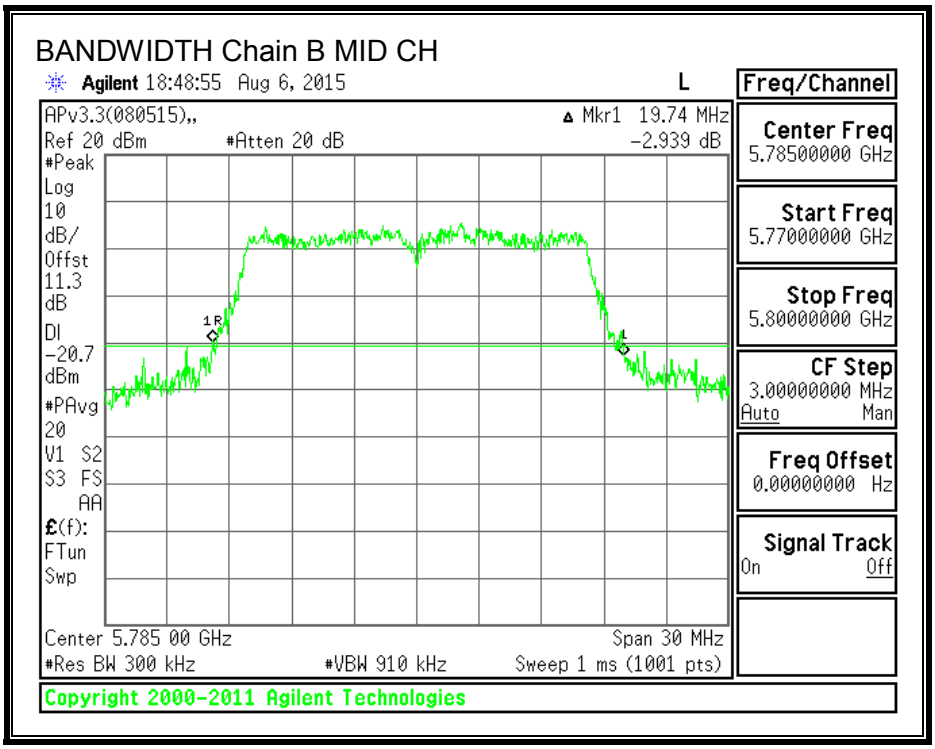
None; for reporting purposes only.

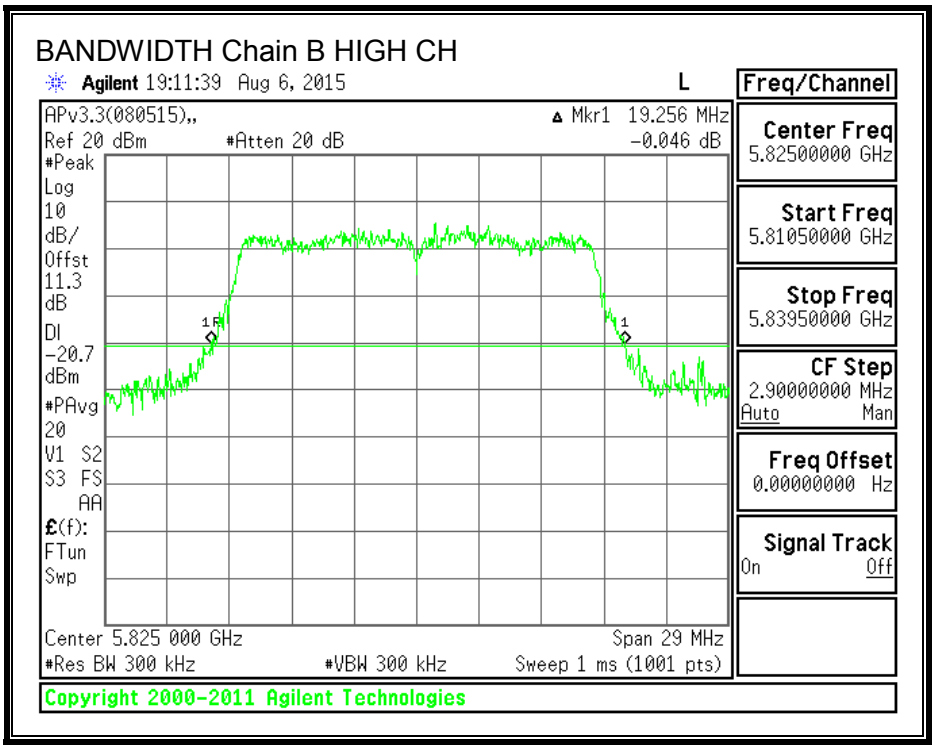
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain B (MHz)	26 dB BW Chain A (MHz)
Low	5745	19.59	19.59
Mid	5785	19.74	22.33
High	5825	19.26	19.56

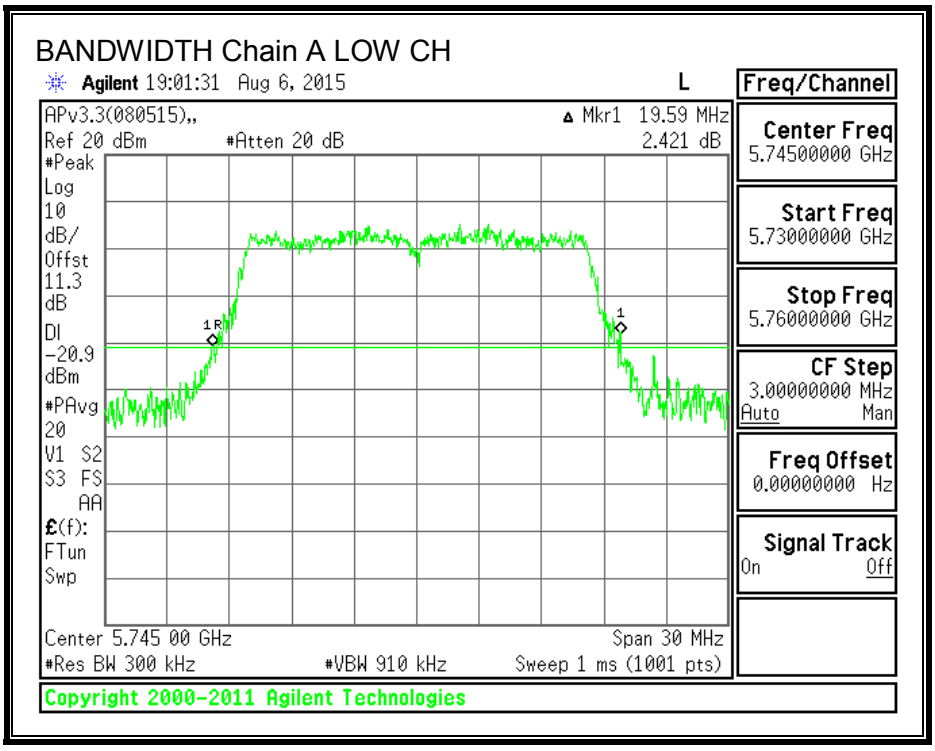
26 dB BANDWIDTH, Chain B



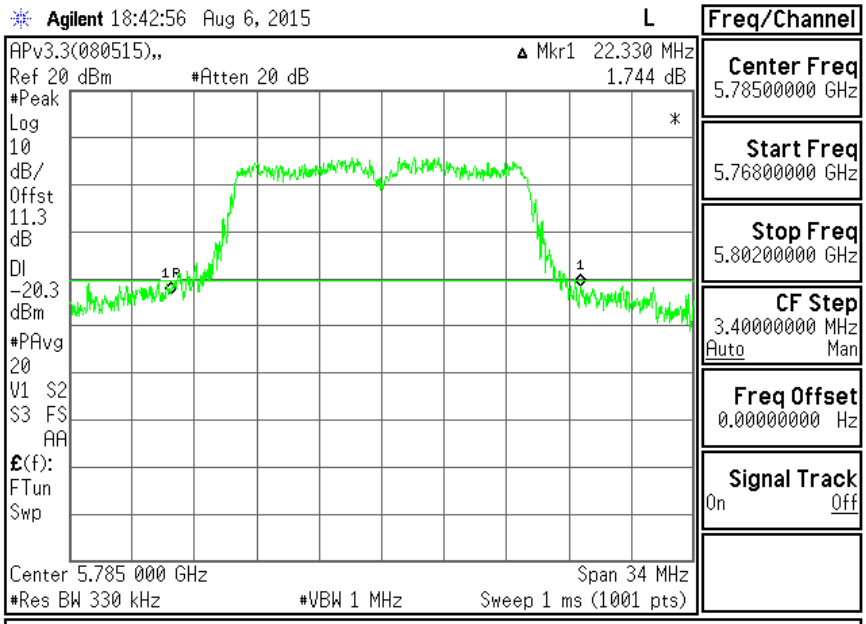




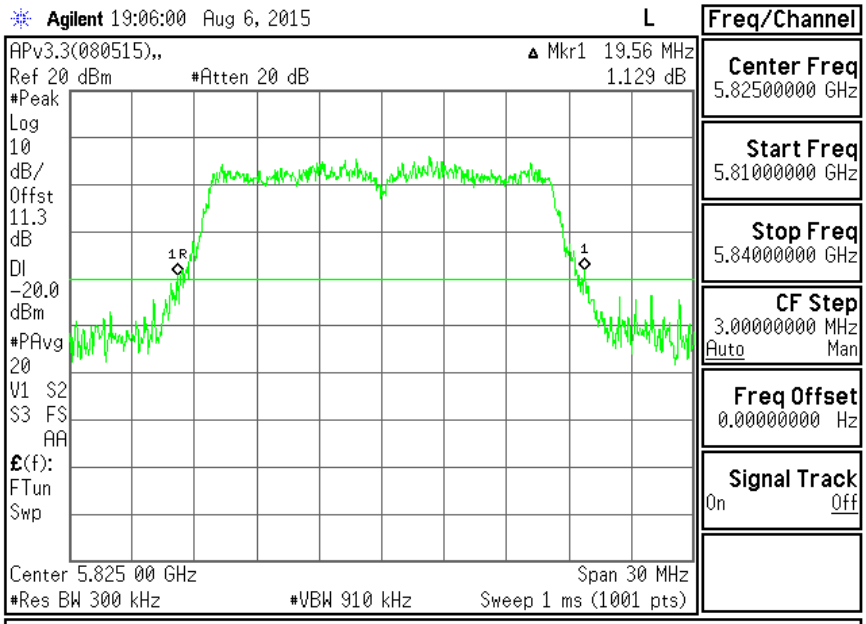
26 dB BANDWIDTH, Chain A



BANDWIDTH Chain A MID CH



BANDWIDTH Chain A HIGH CH



8.14.3. 99% BANDWIDTH

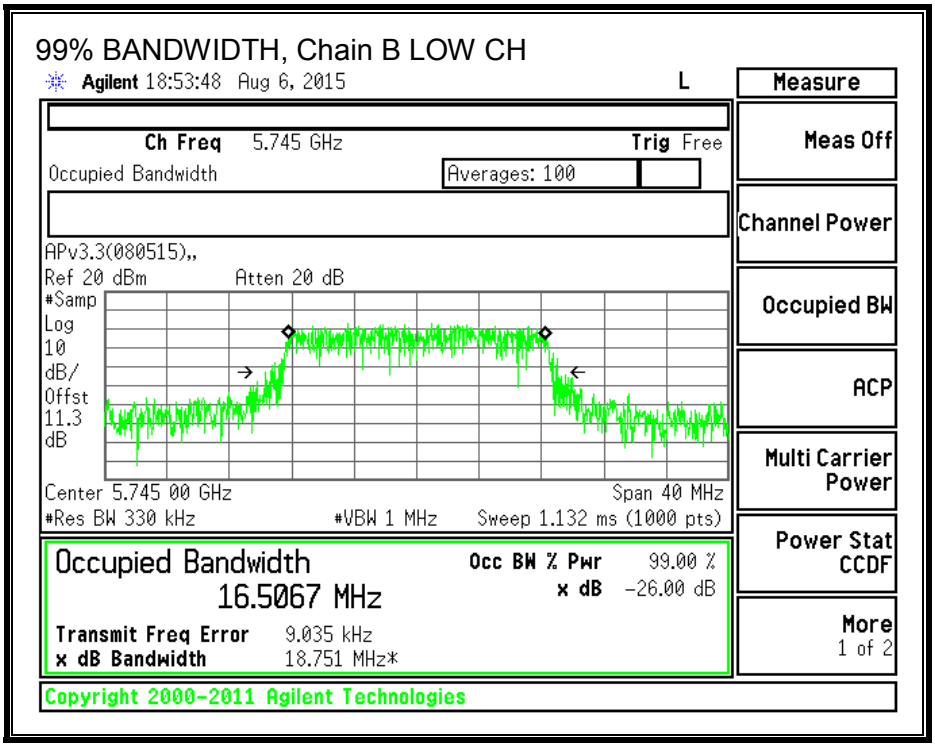
LIMITS

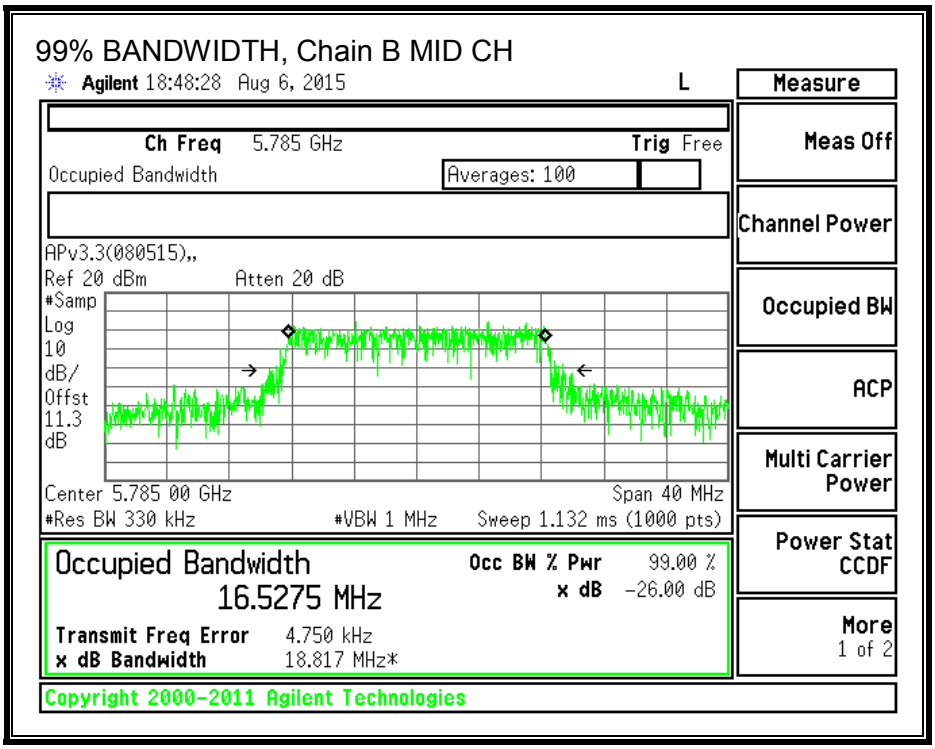
None; for reporting purposes only.

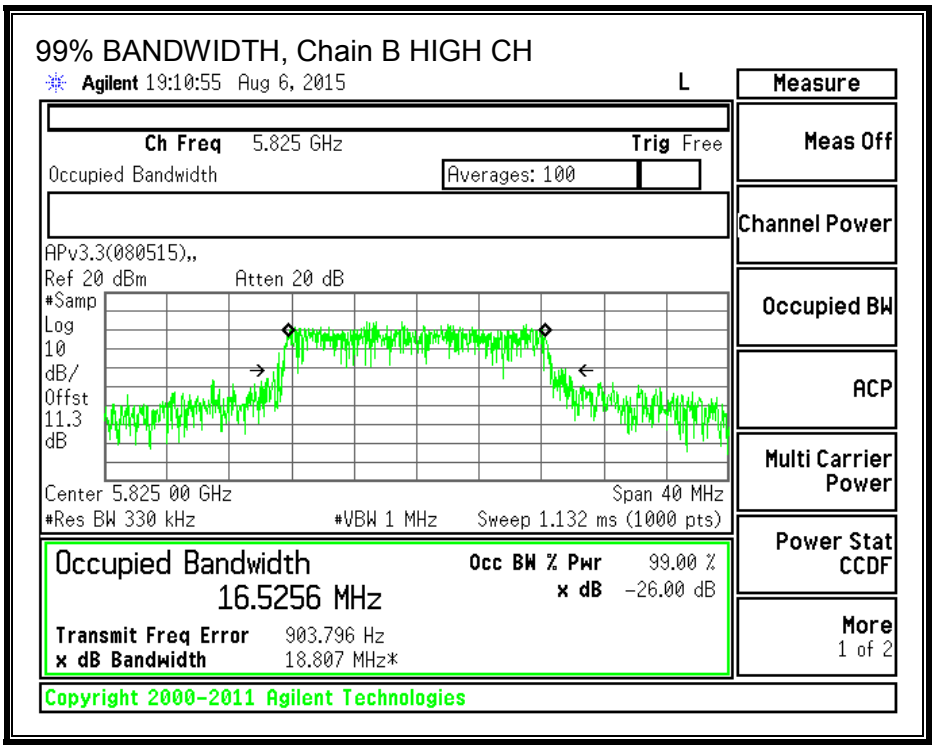
RESULTS

Channel	Frequency (MHz)	99% BW Chain B (MHz)	99% BW Chain A (MHz)
Low	5745	16.5067	16.5016
Mid	5785	16.5275	16.5640
High	5825	16.5256	16.5255

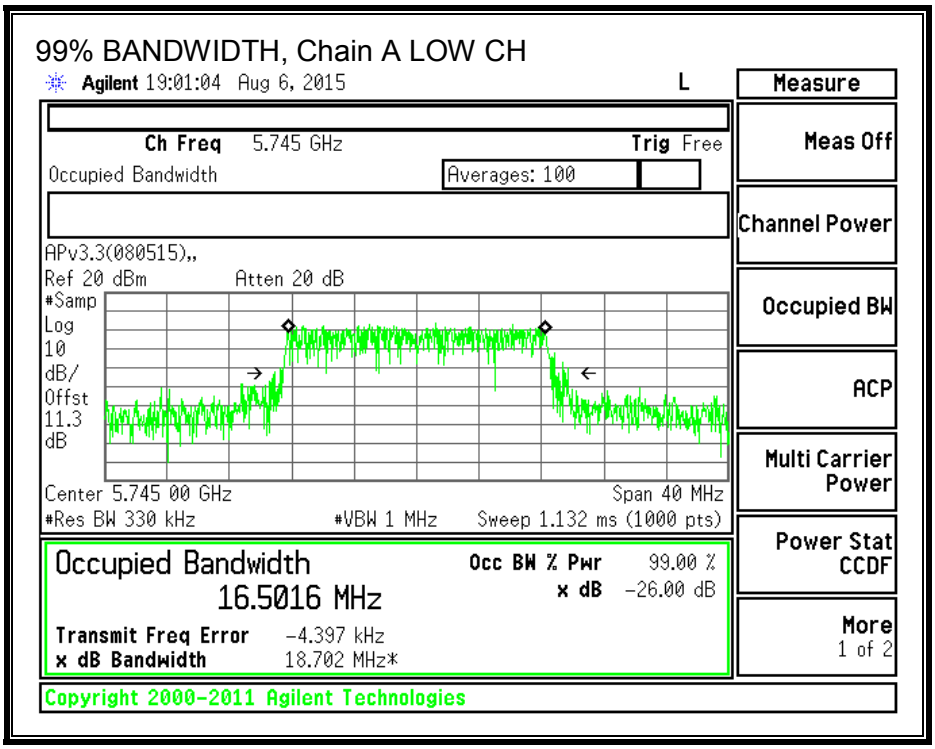
99% BANDWIDTH, Chain B

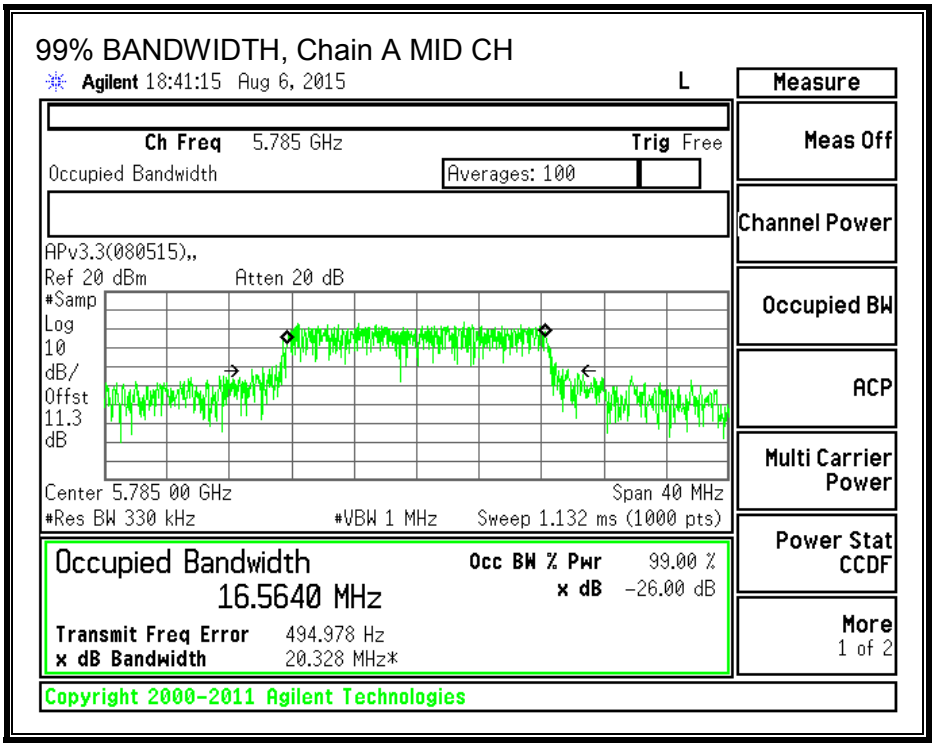


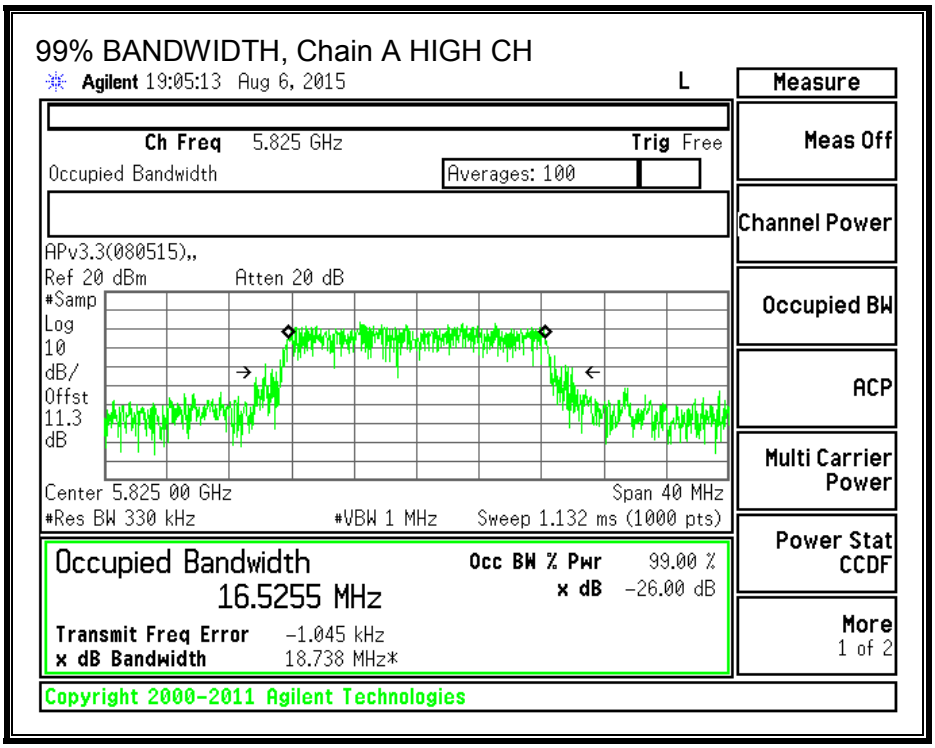




99% BANDWIDTH, Chain A







8.14.4. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.40	1.70	1.55

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5745	1.55	30.00
Mid	5785	1.55	30.00
High	5825	1.55	30.00

Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd Power

Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	13.37	13.43	16.53	30.00	-13.47
Mid	5785	13.80	13.68	16.87	30.00	-13.13
High	5825	13.54	13.54	16.67	30.00	-13.33

8.14.5. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.40	1.70	1.55

RESULTS

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Low	5745	1.55	30.00
Mid	5785	1.55	30.00
High	5825	1.55	30.00

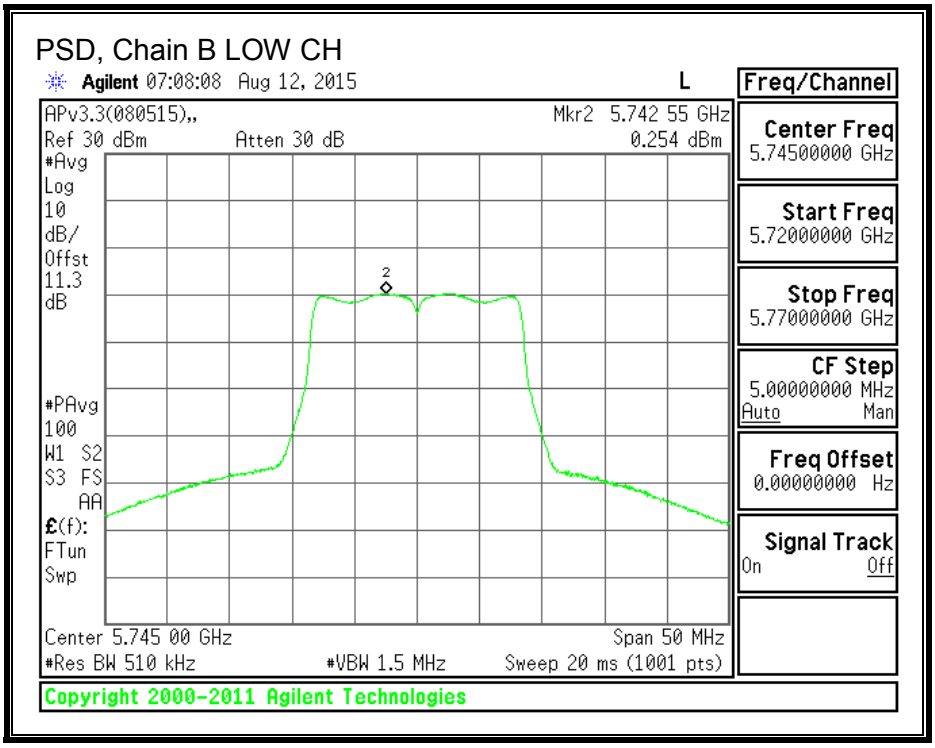
Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd PSD

PSD Results

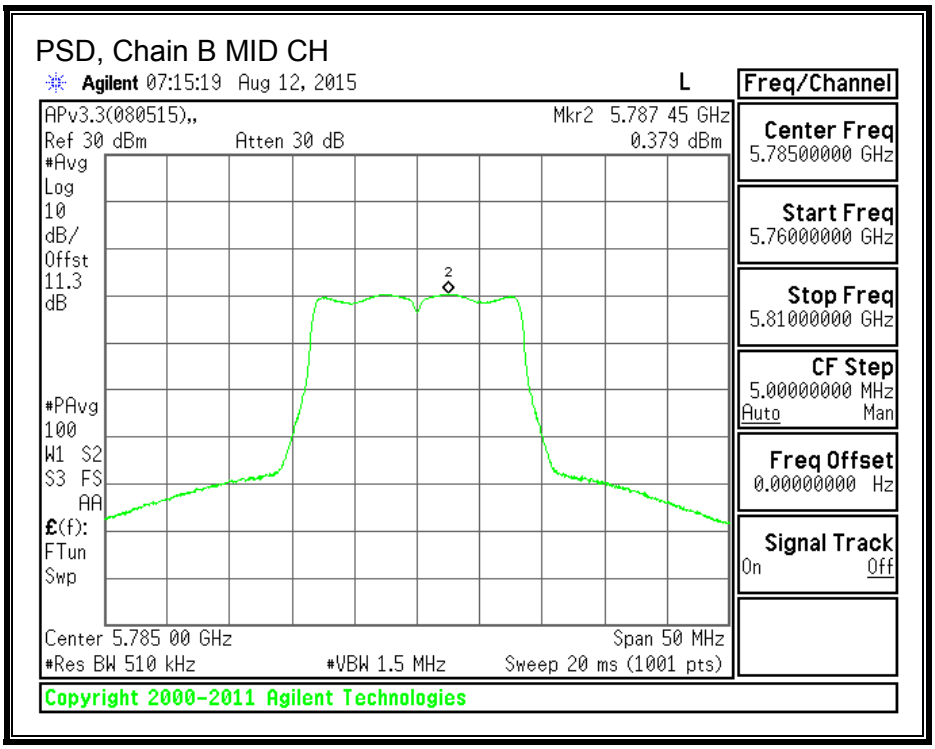
Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5745	0.25	0.15	3.33	30.00	-26.67
Mid	5785	0.38	0.30	3.47	30.00	-26.53
High	5825	0.26	0.30	3.41	30.00	-26.59

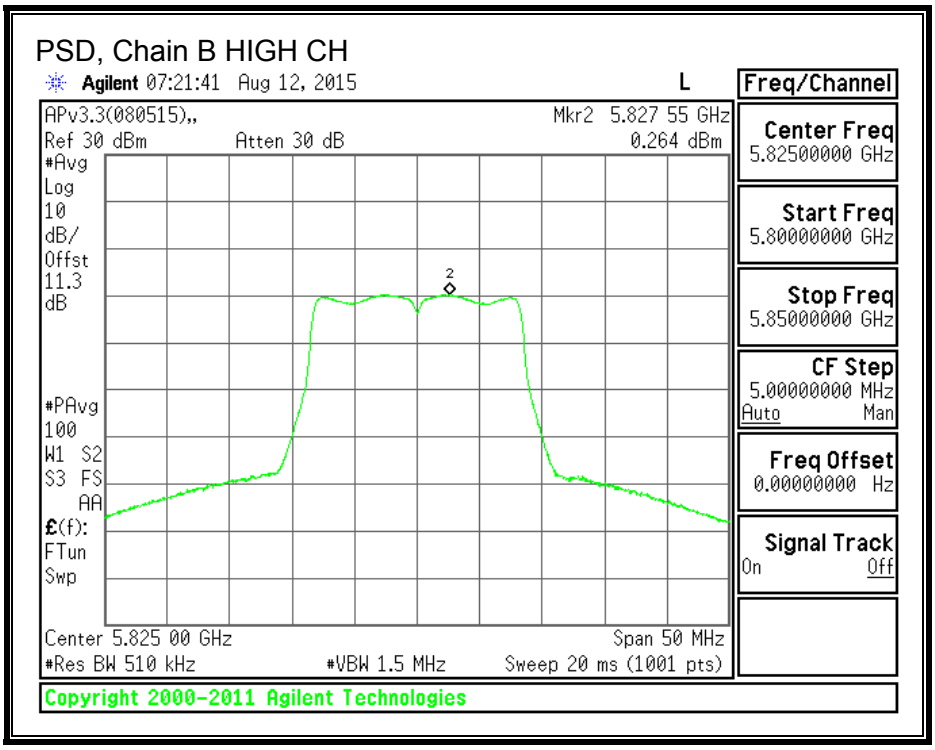
PSD, Chain B

PSD, Chain B LOW CH

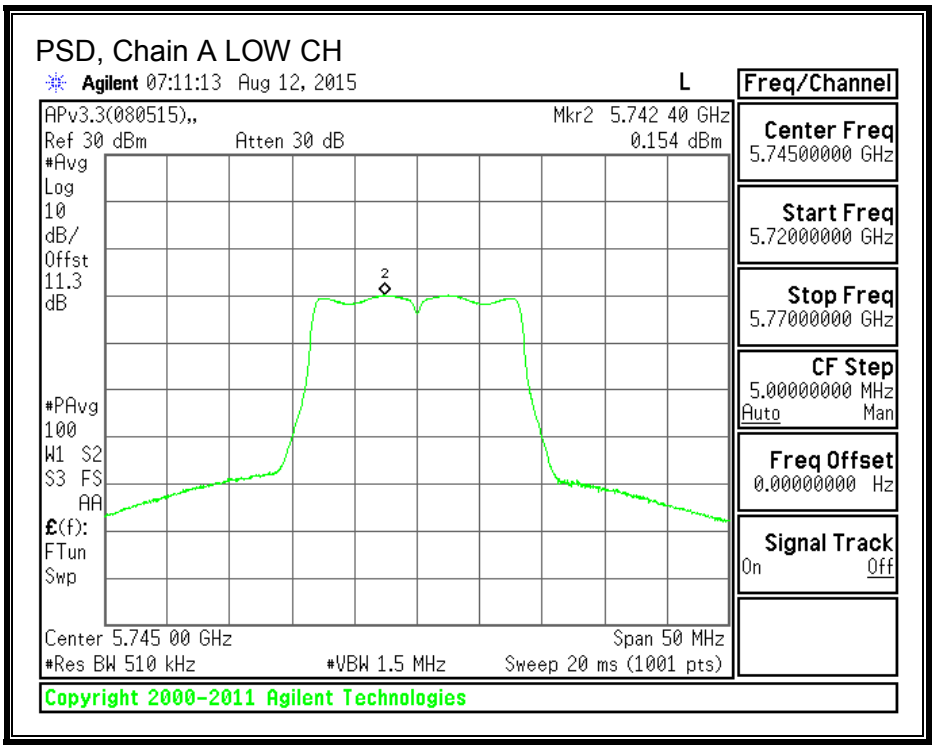


PSD, Chain B MID CH

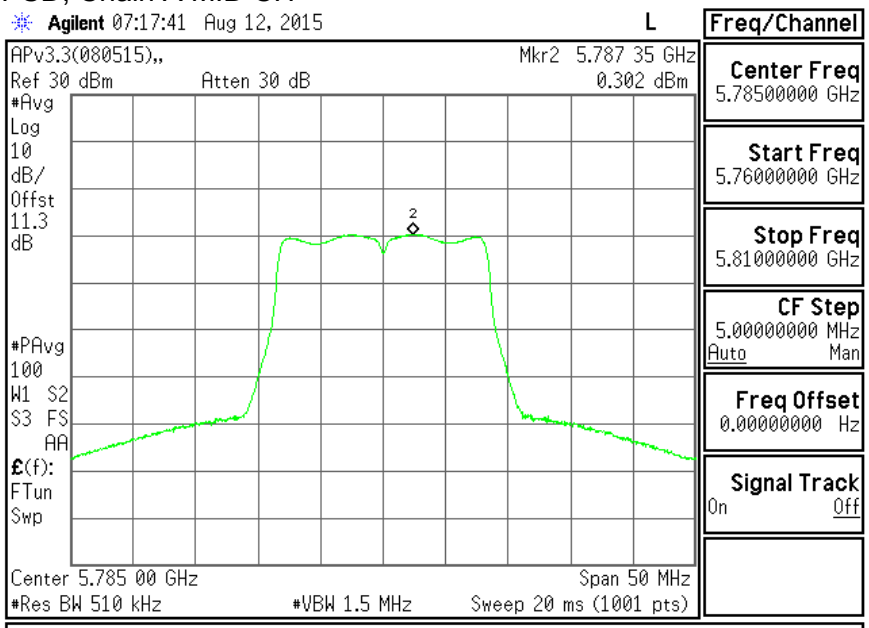




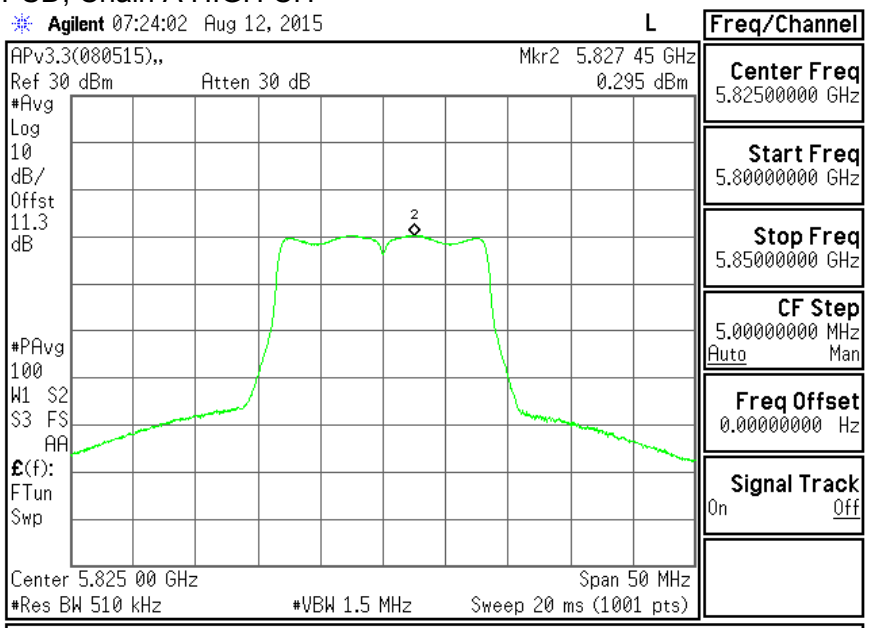
PSD, Chain A



PSD, Chain A MID CH



PSD, Chain A HIGH CH



8.15. 802.11n HT20 MODE IN THE 5.8 GHz BAND

8.15.1. 6 dB BANDWIDTH

LIMITS

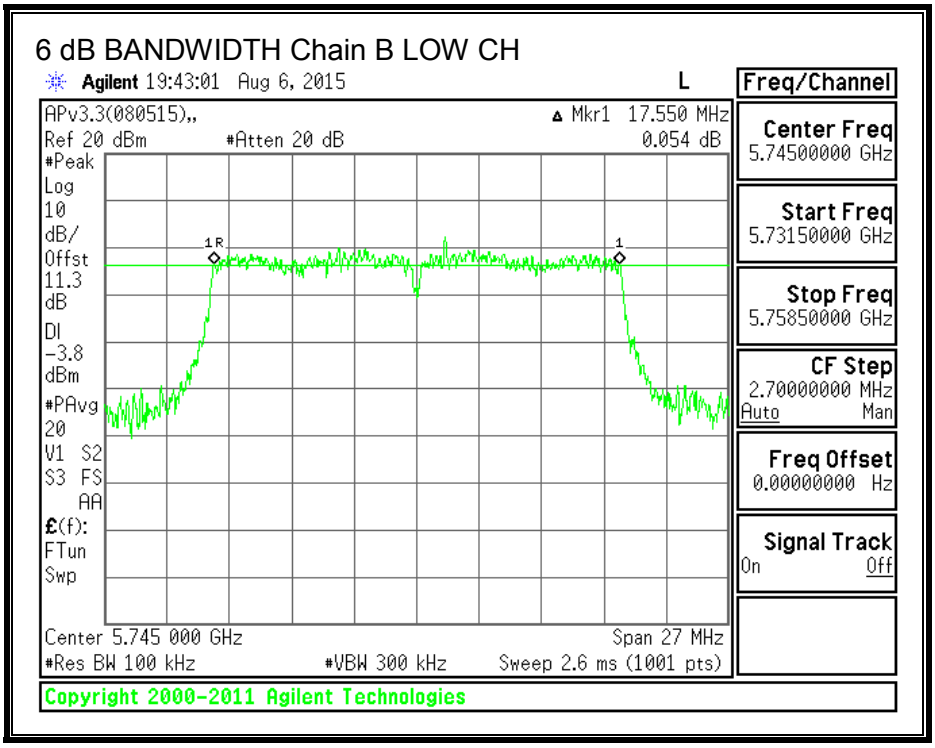
FCC §15.407 (e)

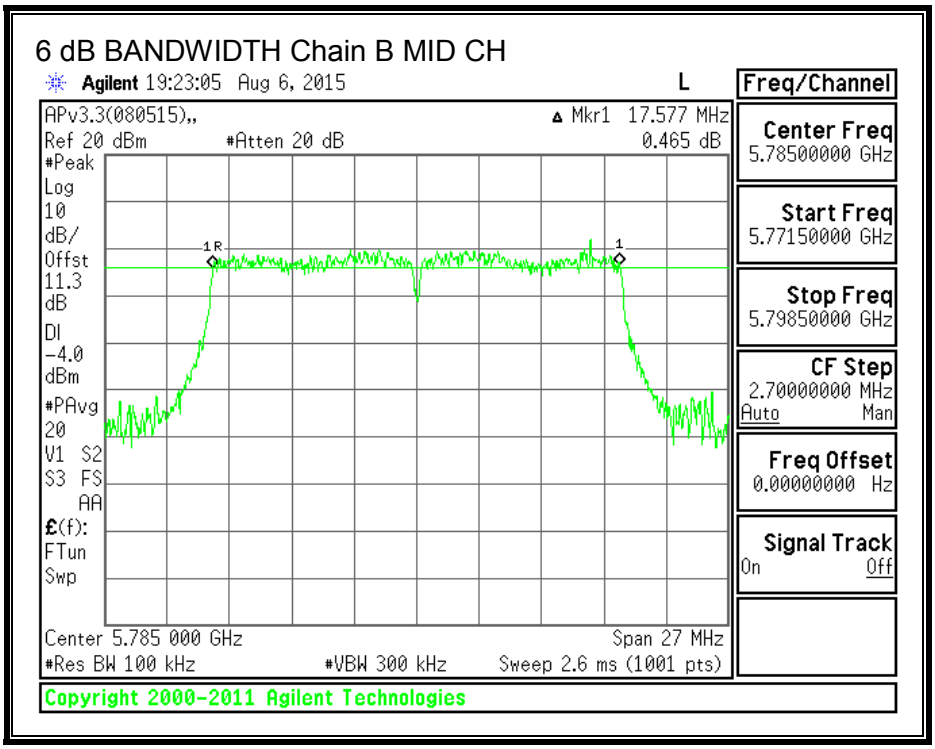
The minimum 6 dB bandwidth shall be at least 500 kHz.

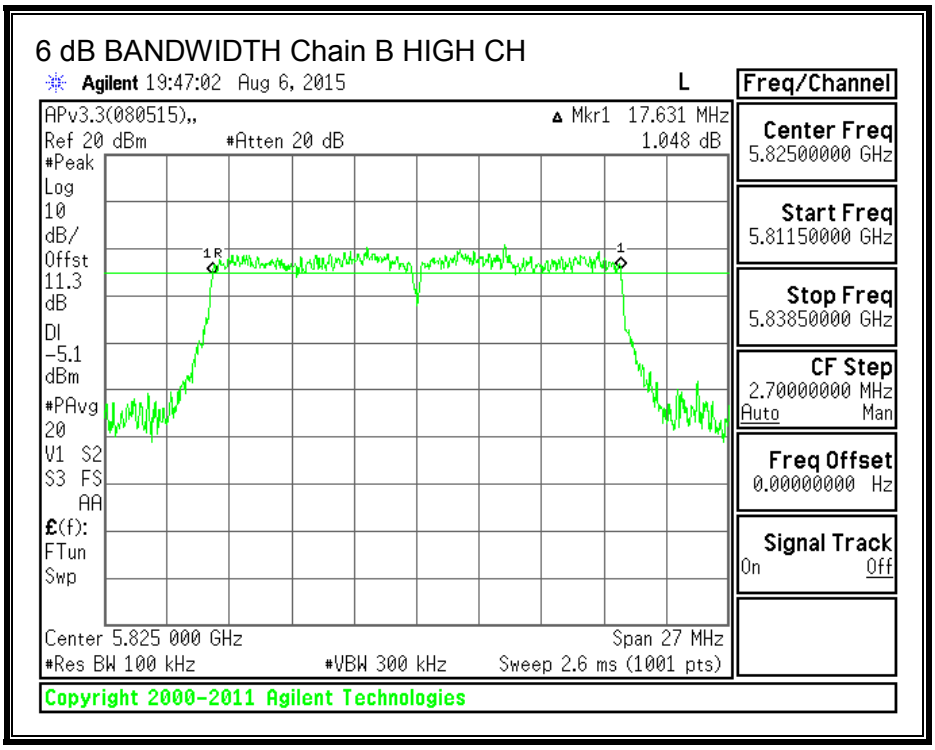
RESULTS

Channel	Frequency (MHz)	6 dB BW Chain B (MHz)	6 dB BW Chain A (MHz)	Minimum Limit (MHz)
Low	5745	17.5500	17.6850	0.5
Mid	5785	17.5770	17.7120	0.5
High	5825	17.6310	17.7390	0.5

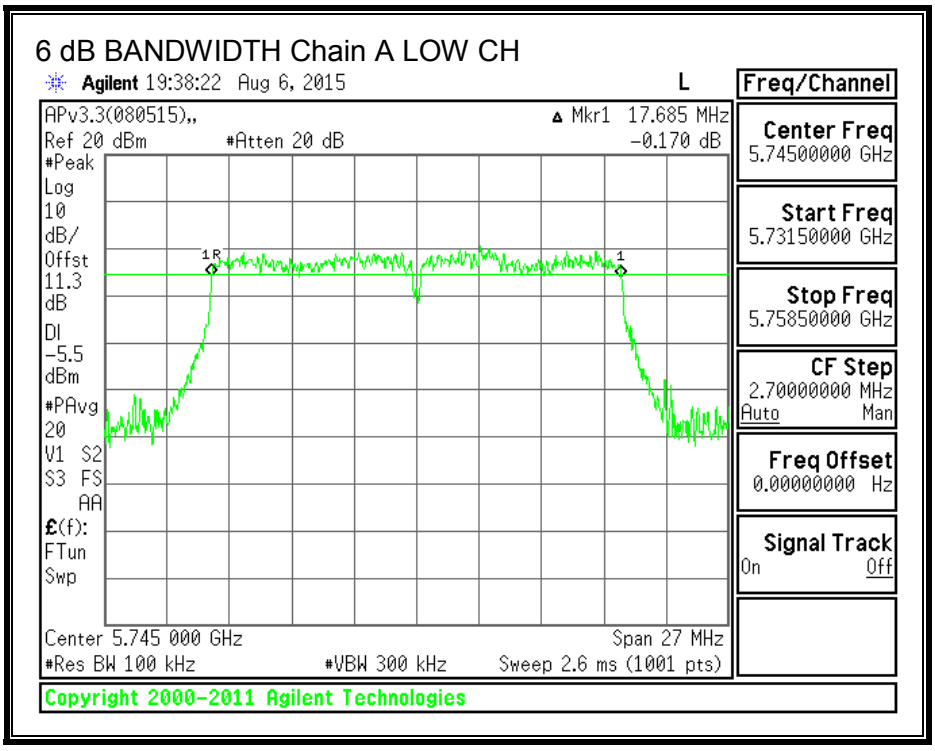
6 dB BANDWIDTH, Chain B



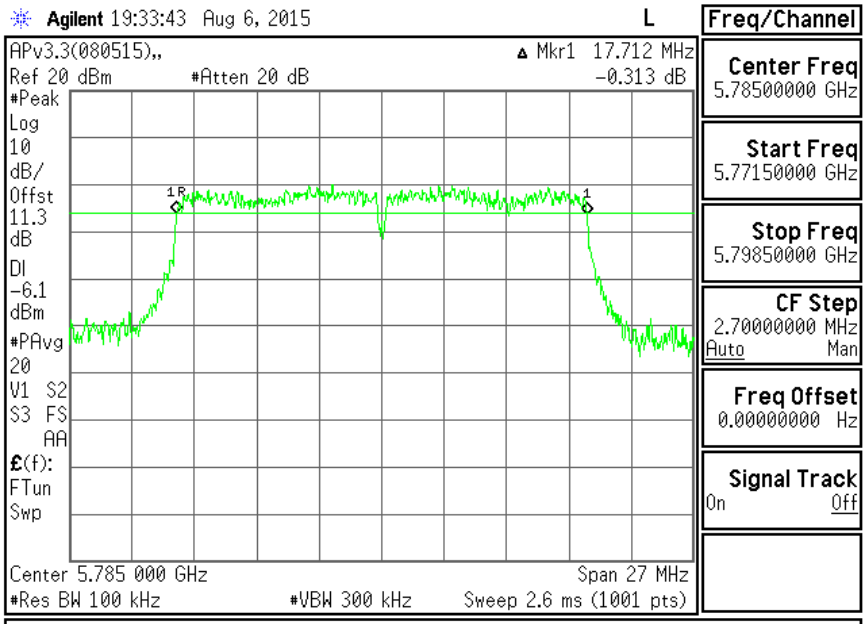




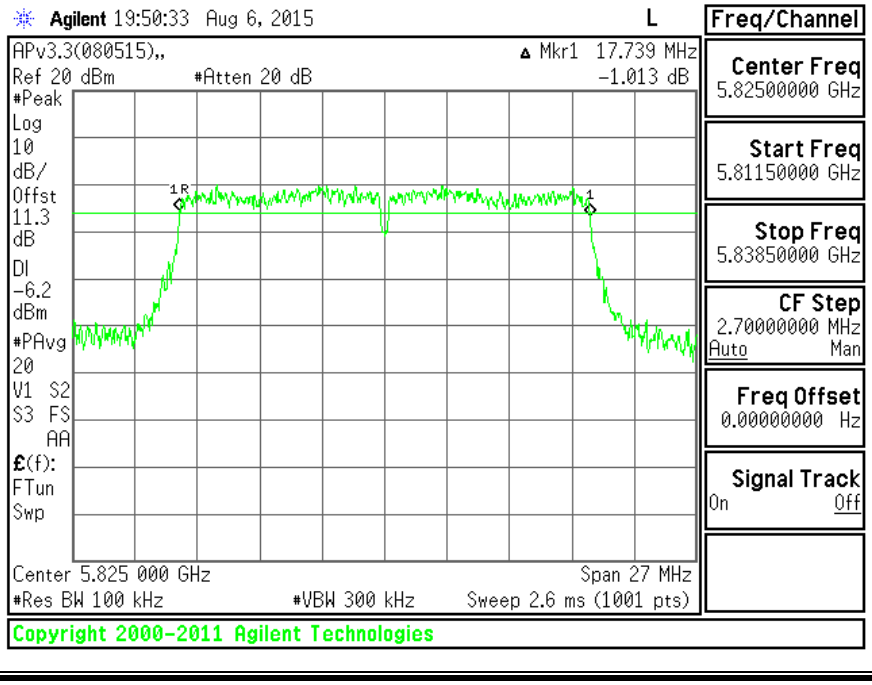
6 dB BANDWIDTH, Chain A



6 dB BANDWIDTH Chain A MID CH



6 dB BANDWIDTH Chain A HIGH CH



8.15.2. 26 dB BANDWIDTH

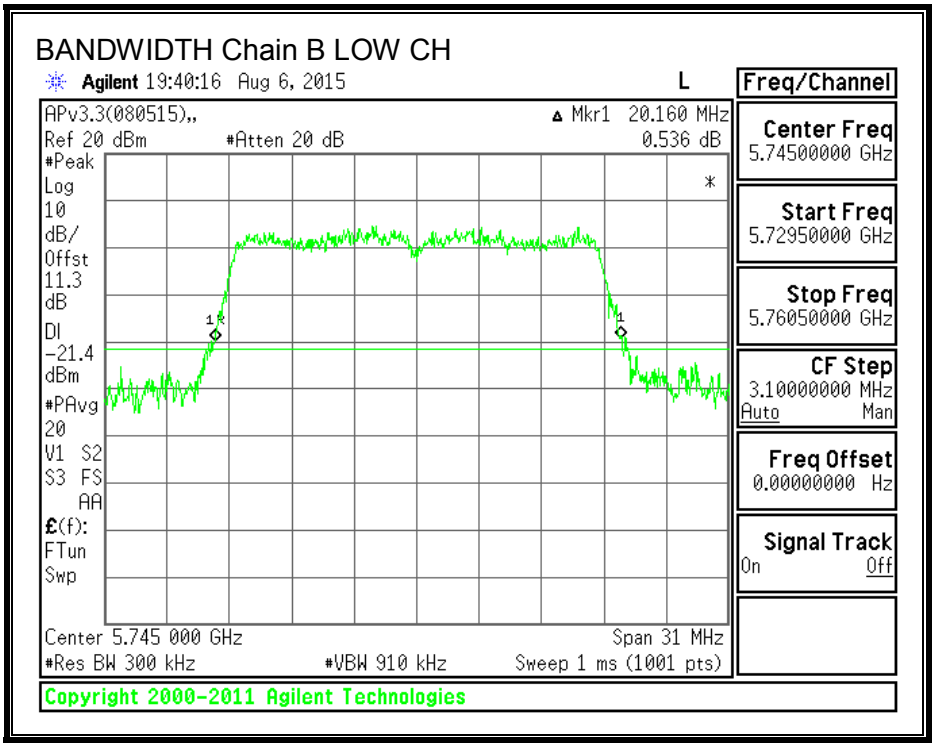
LIMITS

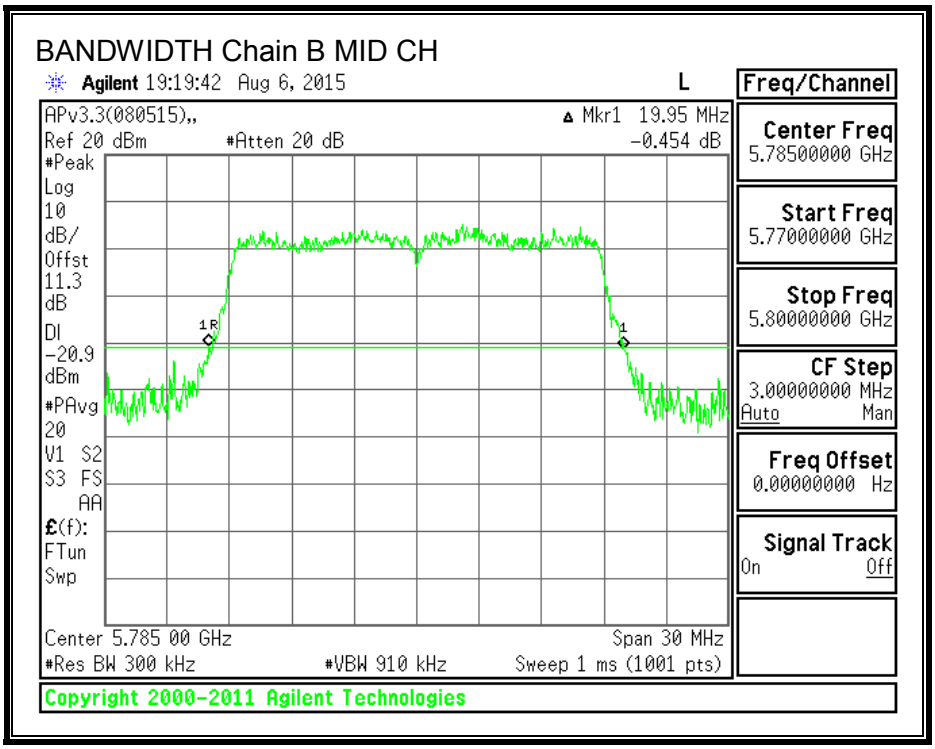
None; for reporting purposes only.

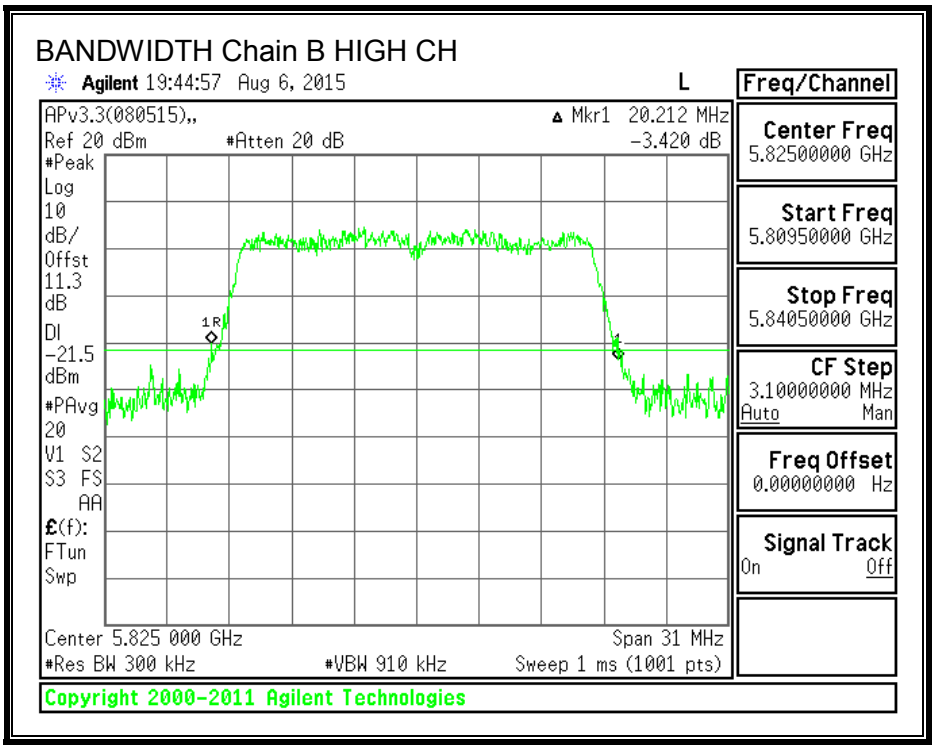
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain B (MHz)	26 dB BW Chain A (MHz)
Low	5745	20.16	20.27
Mid	5785	19.95	20.09
High	5825	20.21	20.03

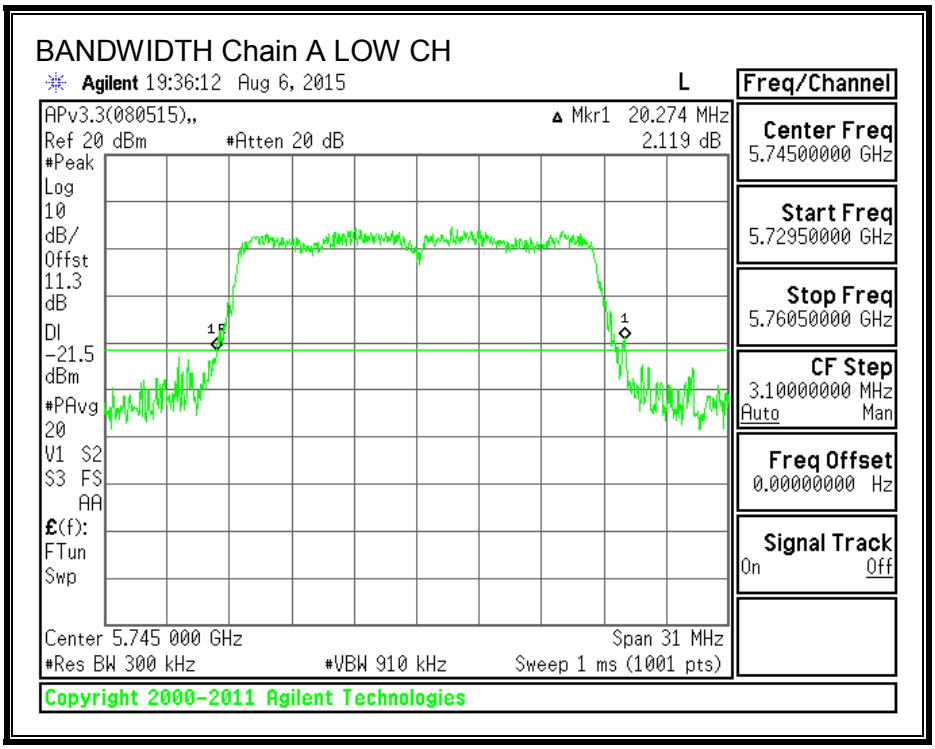
26 dB BANDWIDTH, Chain B



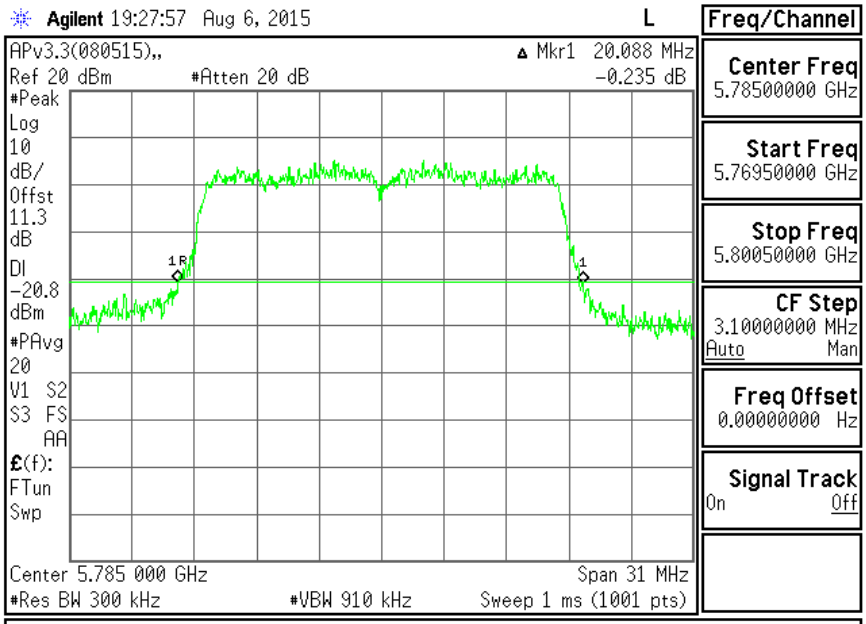




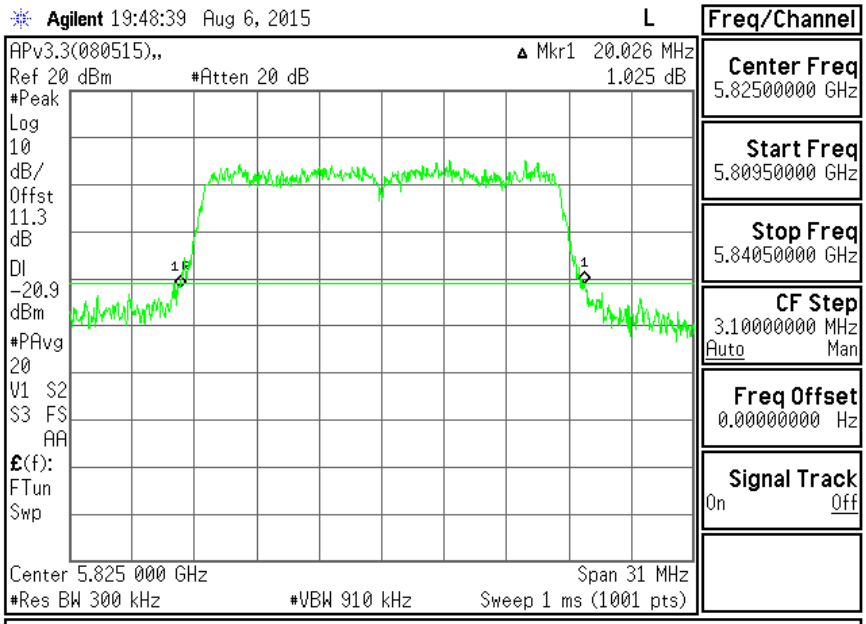
26 dB BANDWIDTH, Chain A



BANDWIDTH Chain A MID CH



BANDWIDTH Chain A HIGH CH



8.15.3. 99% BANDWIDTH

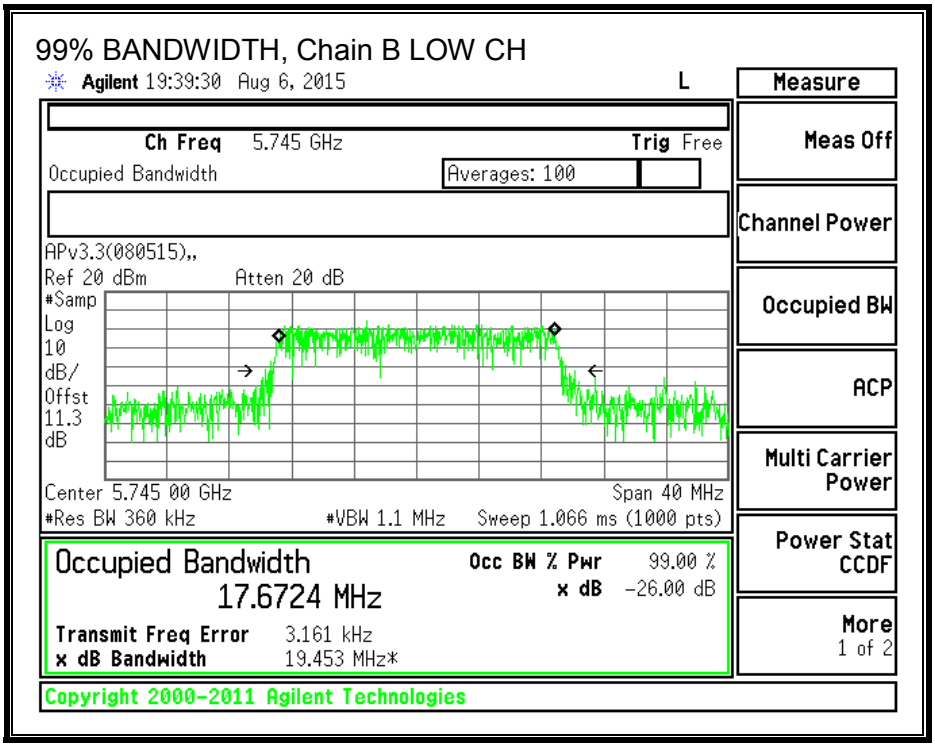
LIMITS

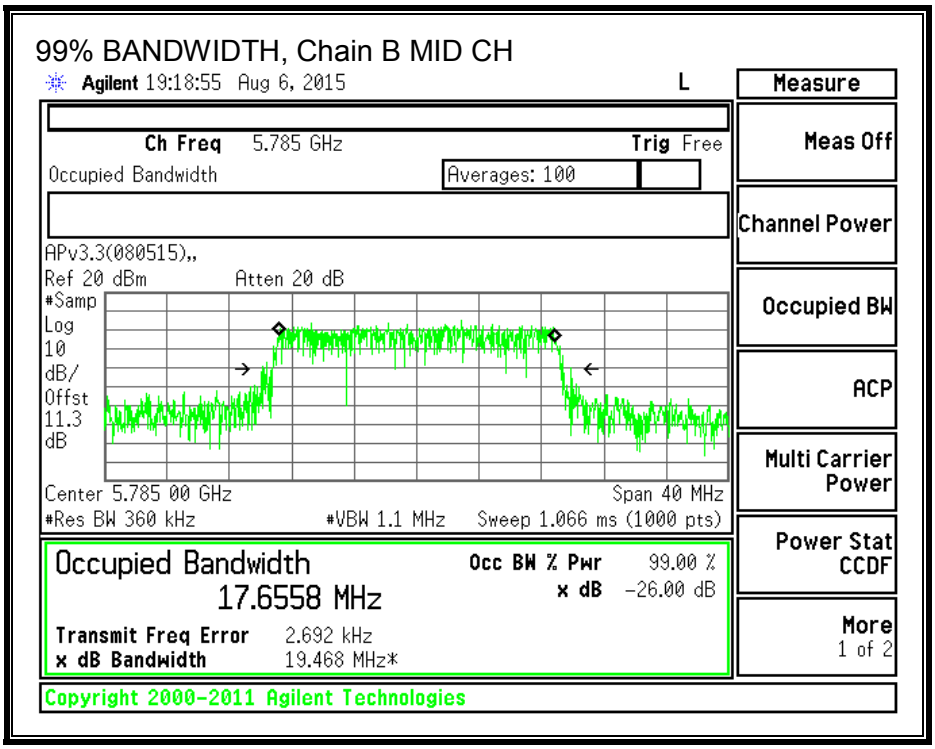
None; for reporting purposes only.

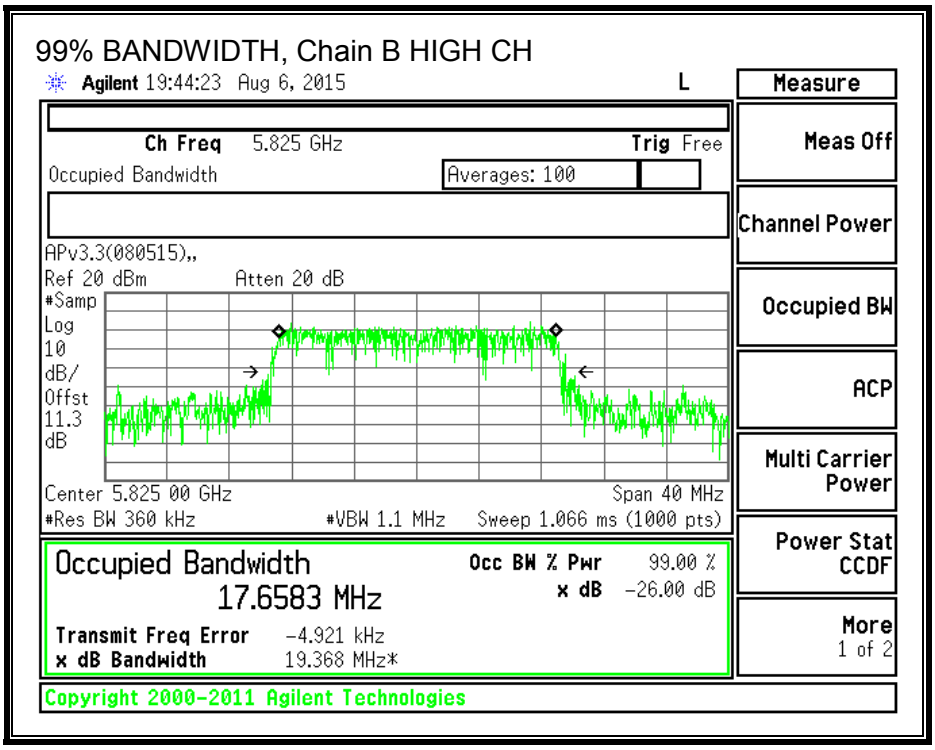
RESULTS

Channel	Frequency (MHz)	99% BW Chain B (MHz)	99% BW Chain A (MHz)
Low	5745	17.6724	17.6501
Mid	5785	17.6558	17.6849
High	5825	17.6583	17.6832

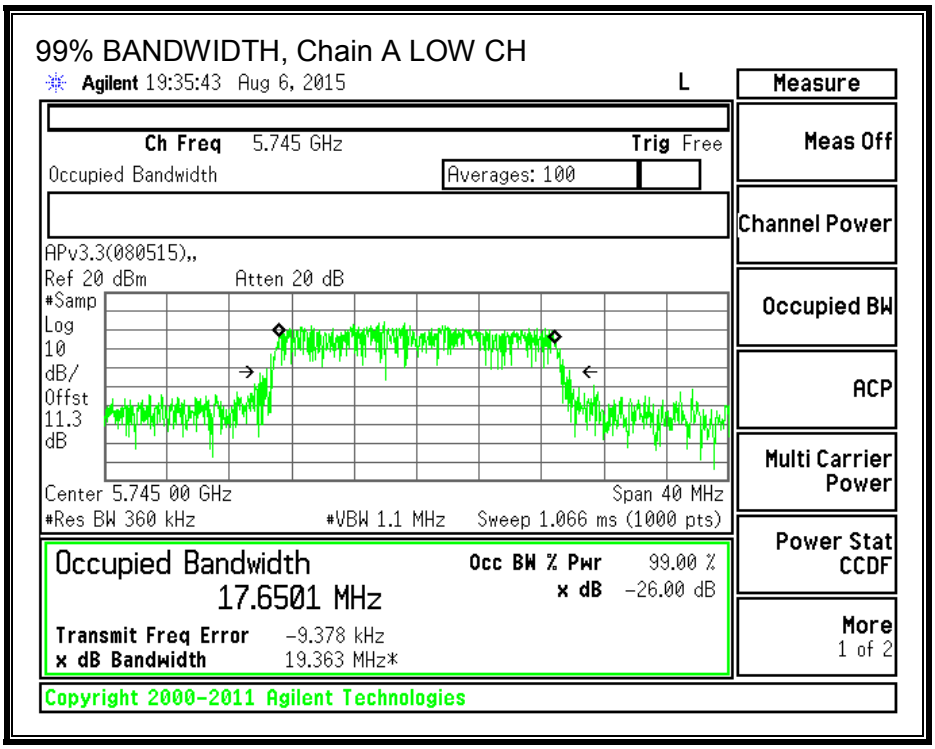
99% BANDWIDTH, Chain B

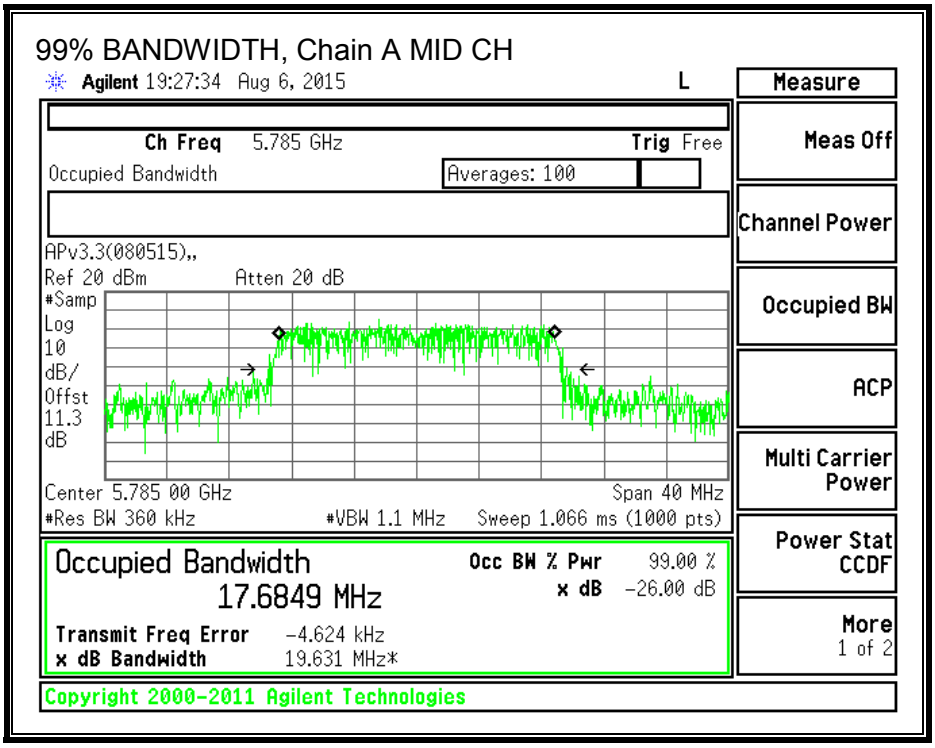


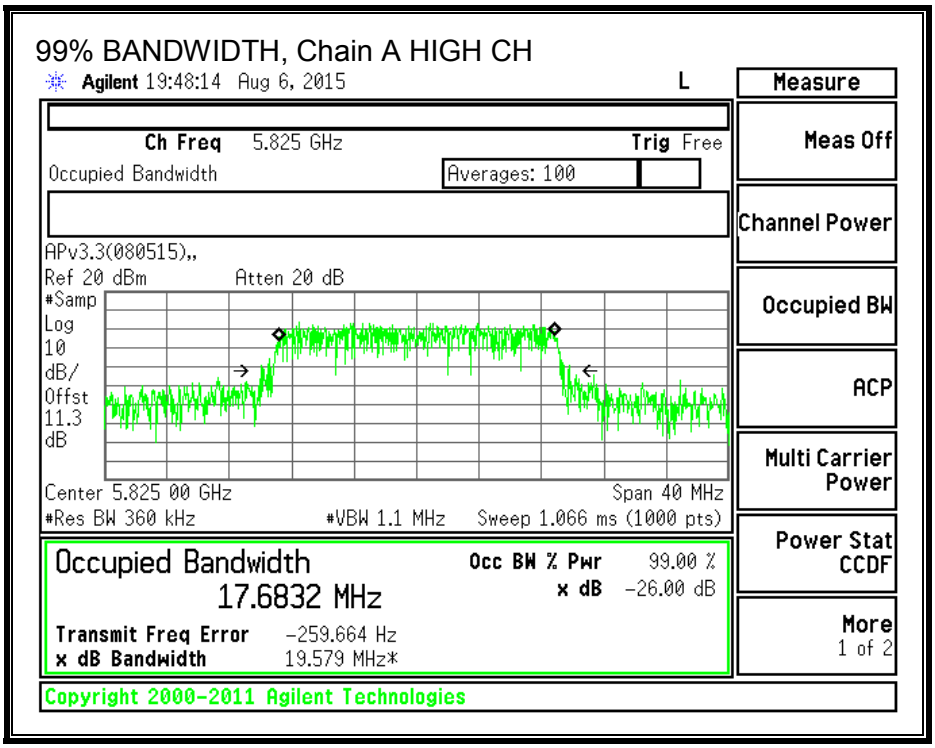




99% BANDWIDTH, Chain A







8.15.4. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.40	1.70	1.55

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5745	1.55	30.00
Mid	5785	1.55	30.00
High	5825	1.55	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	13.45	13.47	16.47	30.00	-13.53
Mid	5785	13.82	13.68	16.76	30.00	-13.24
High	5825	13.56	13.54	16.56	30.00	-13.44

8.15.5. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.40	1.70	1.55

RESULTS

Antenna Gain and Limits

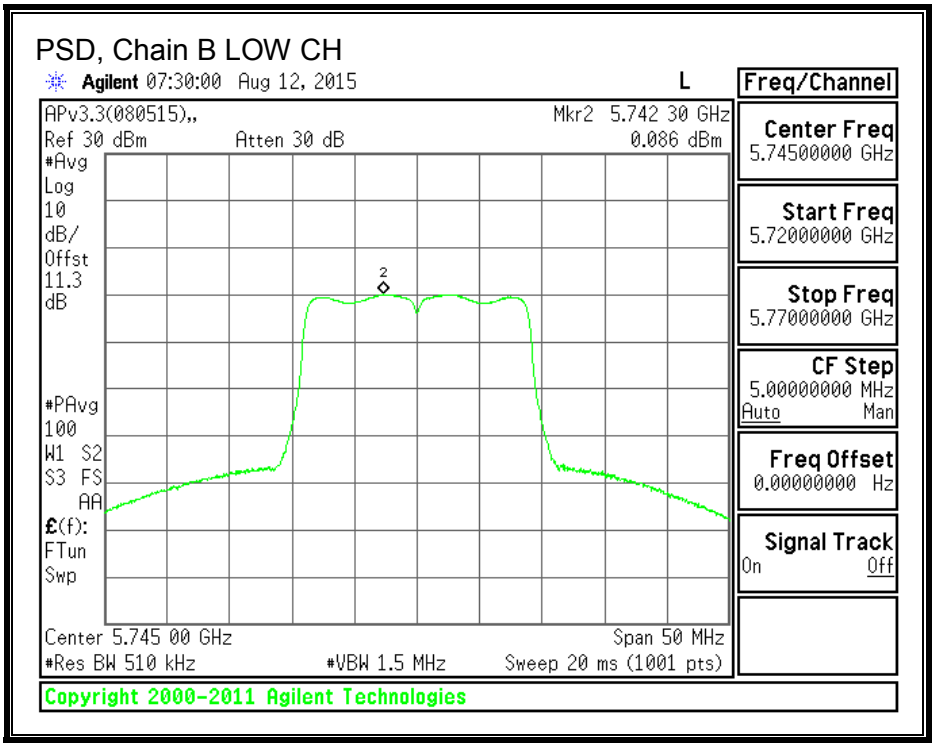
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Low	5745	1.55	30.00
Mid	5785	1.55	30.00
High	5825	1.55	30.00

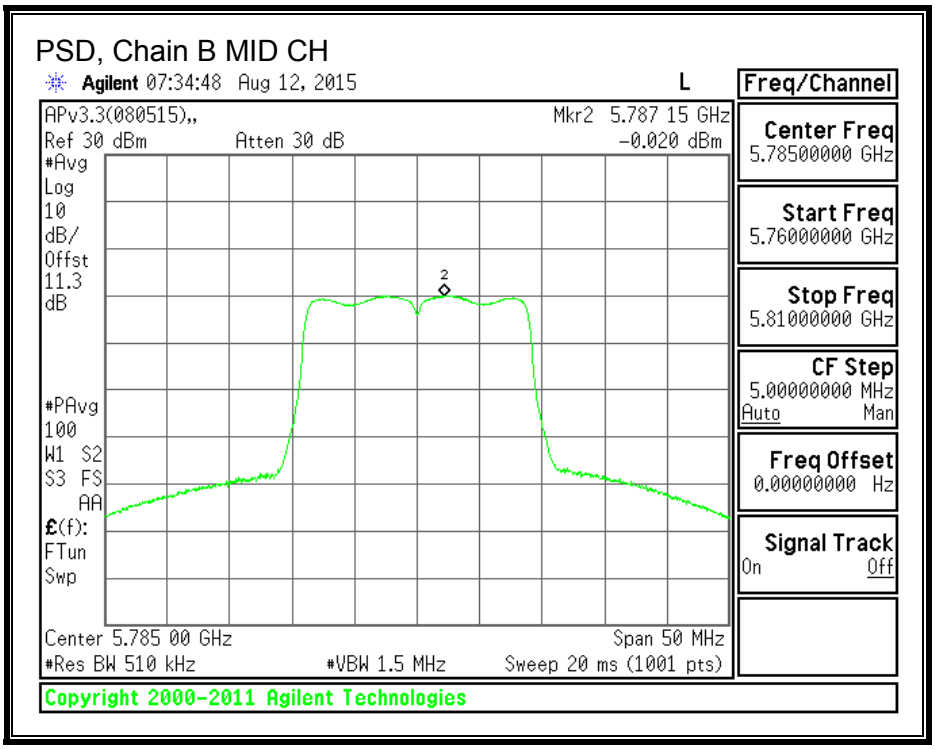
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

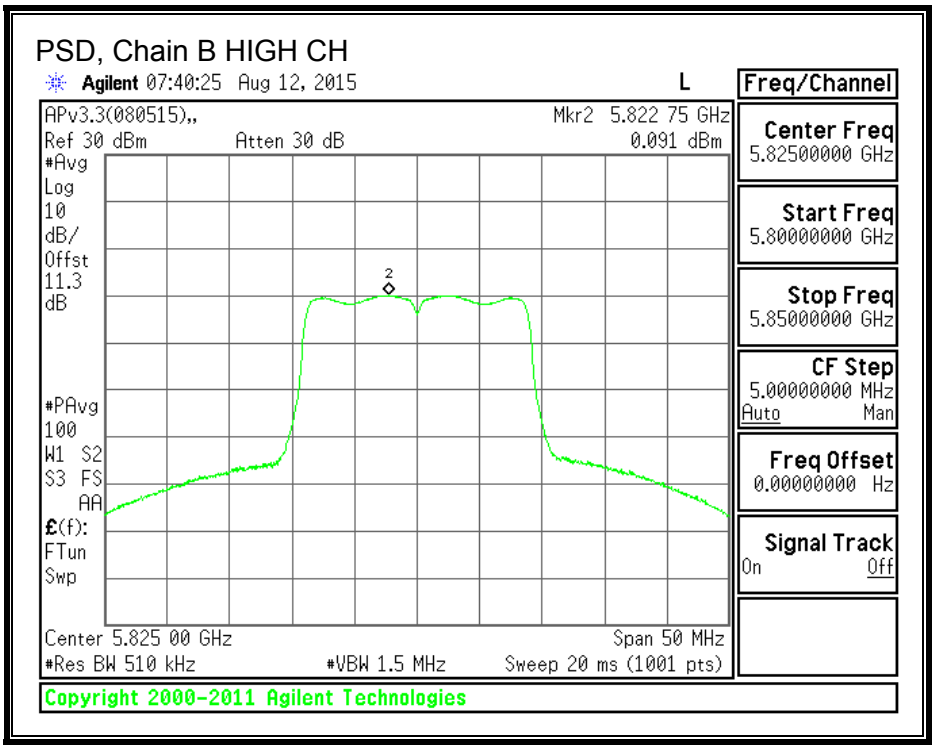
PSD Results

Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5745	0.09	-0.20	2.96	30.00	-27.04
Mid	5785	-0.02	0.13	3.06	30.00	-26.94
High	5825	0.09	0.10	3.11	30.00	-26.89

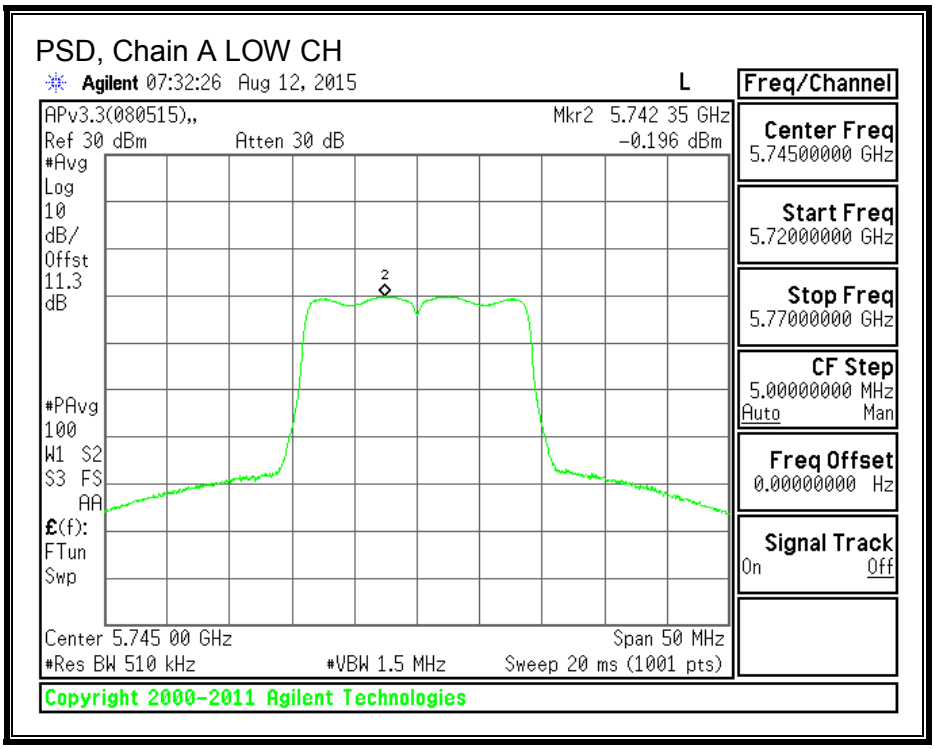
PSD, Chain B



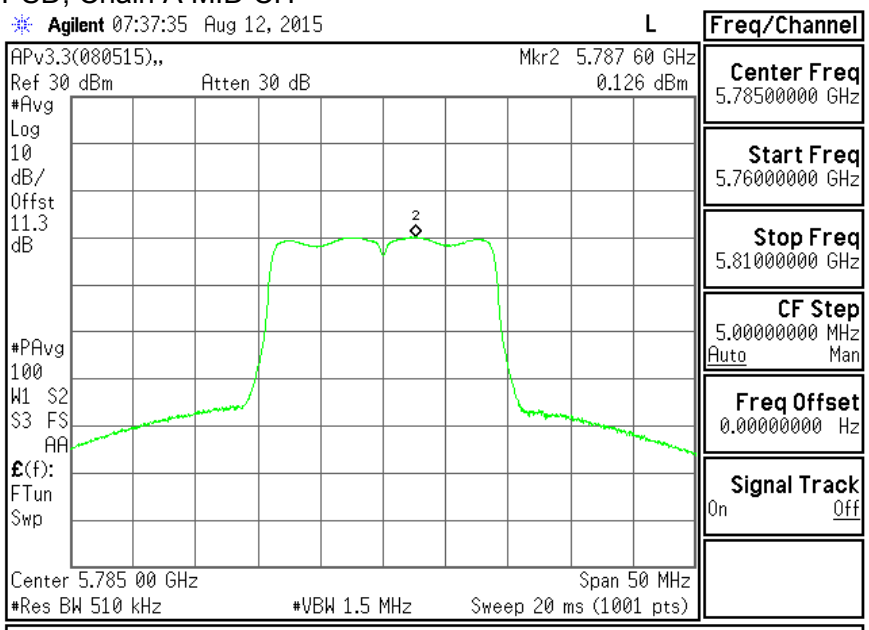




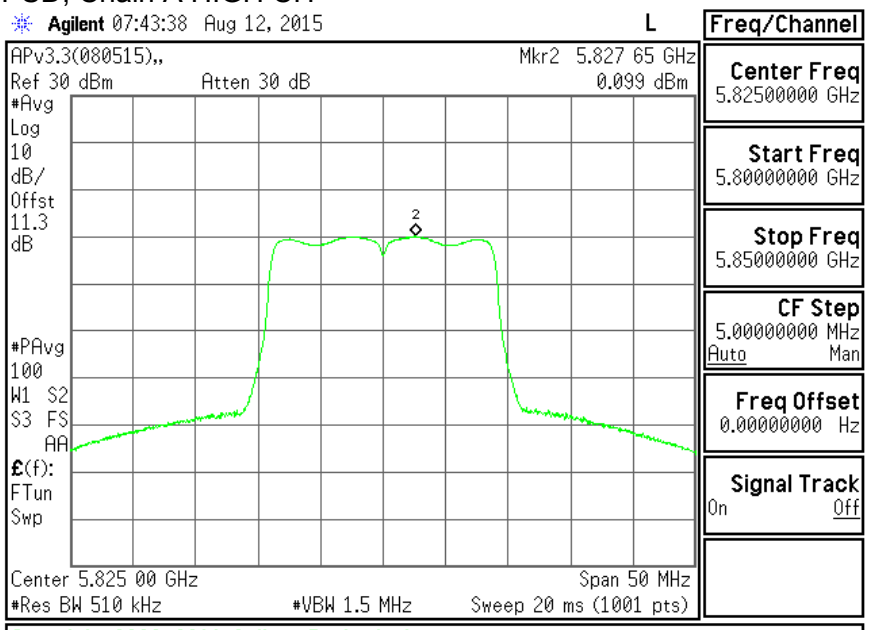
PSD, Chain A



PSD, Chain A MID CH



PSD, Chain A HIGH CH



8.16. 802.11n HT40 MODE IN THE 5.2 GHz BAND

8.16.1. 6 dB BANDWIDTH

LIMITS

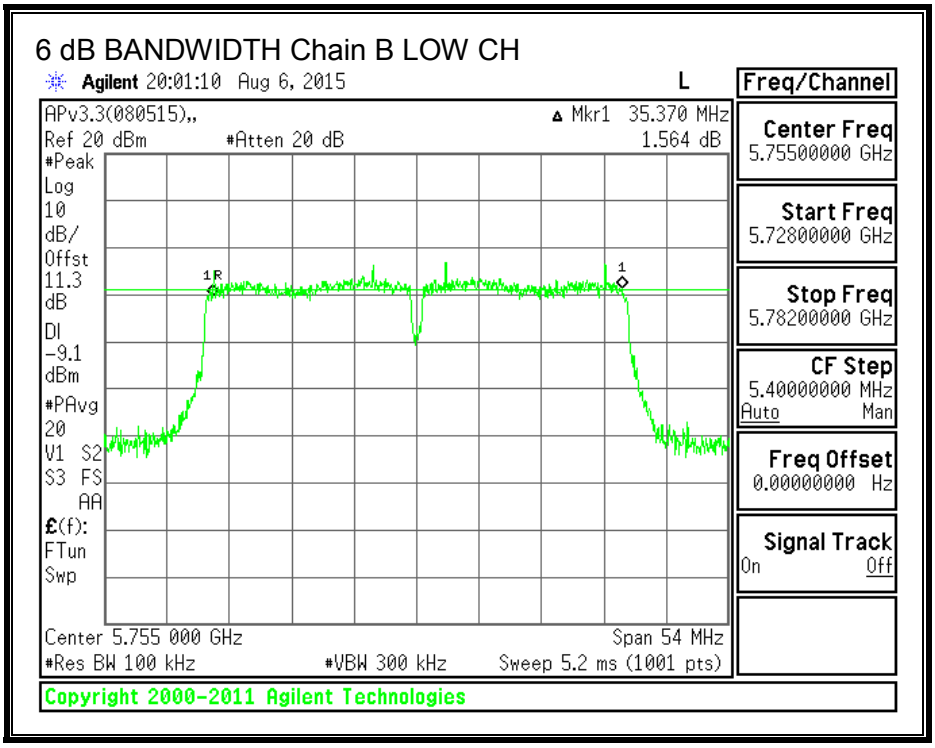
FCC §15.407 (e)

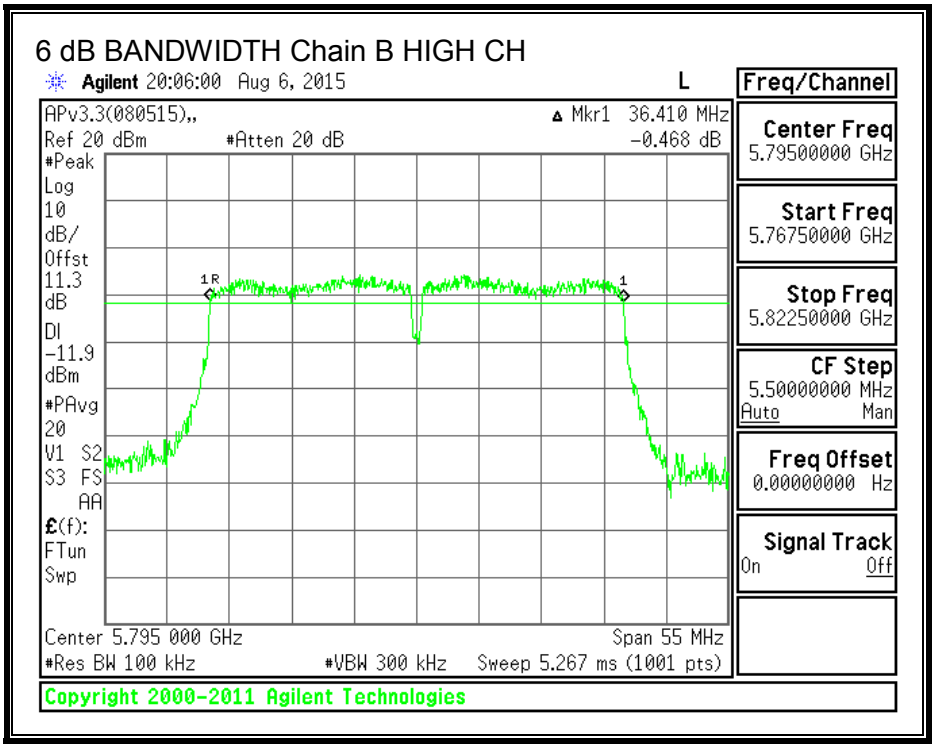
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

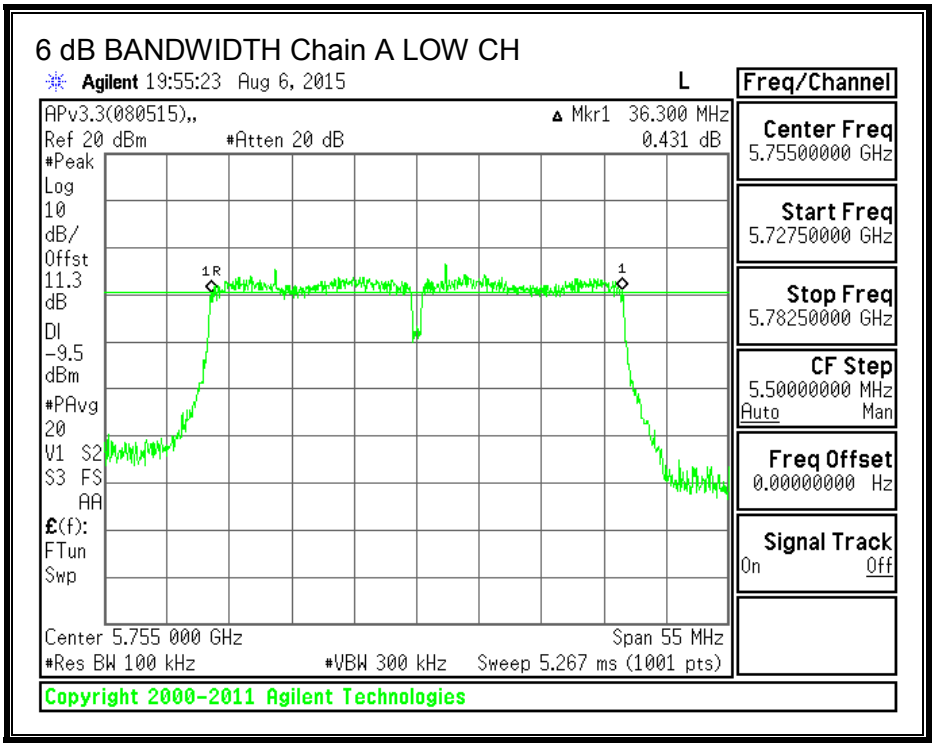
Channel	Frequency (MHz)	6 dB BW Chain B (MHz)	6 dB BW Chain A (MHz)	Minimum Limit (MHz)
Low	5755	35.3700	36.3000	0.5
High	5795	36.4100	36.3960	0.5

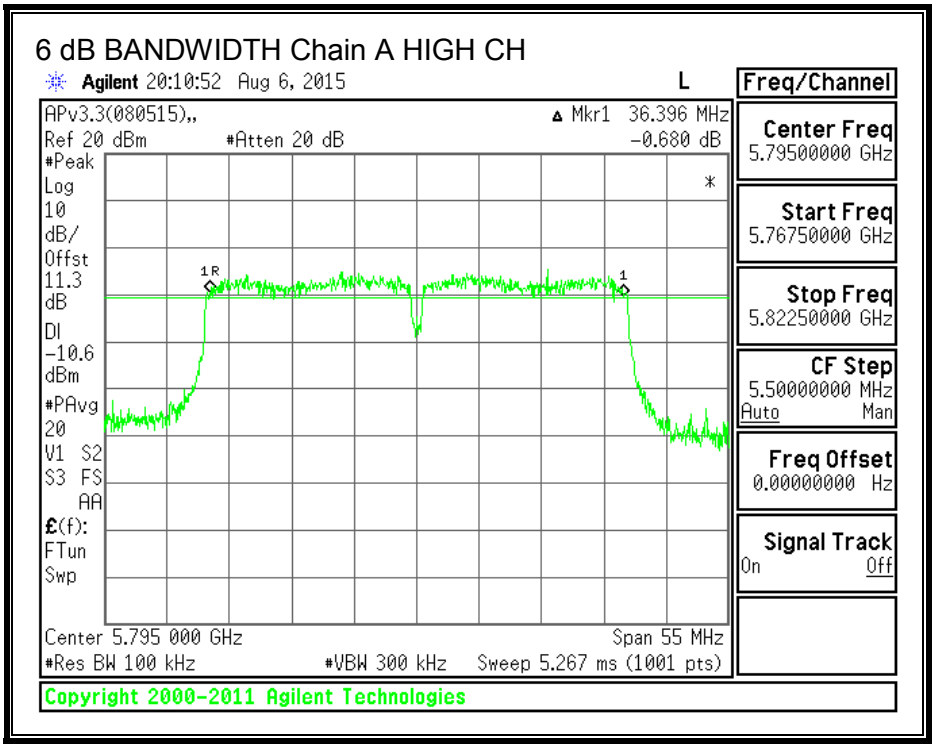
6 dB BANDWIDTH, Chain B





6 dB BANDWIDTH, Chain A





8.16.2. 26 dB BANDWIDTH

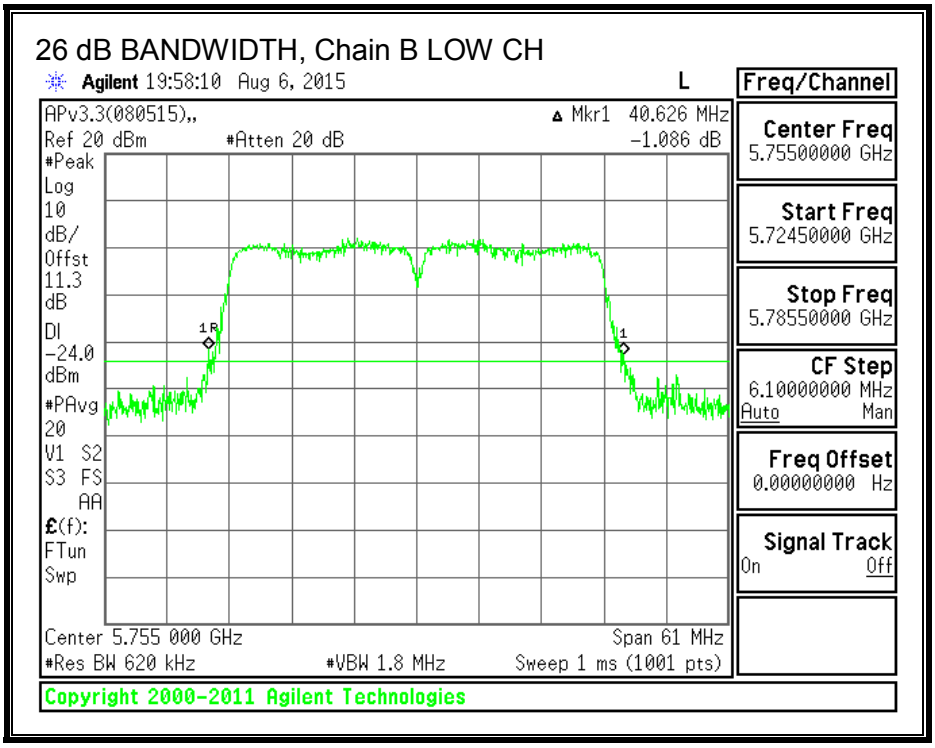
LIMITS

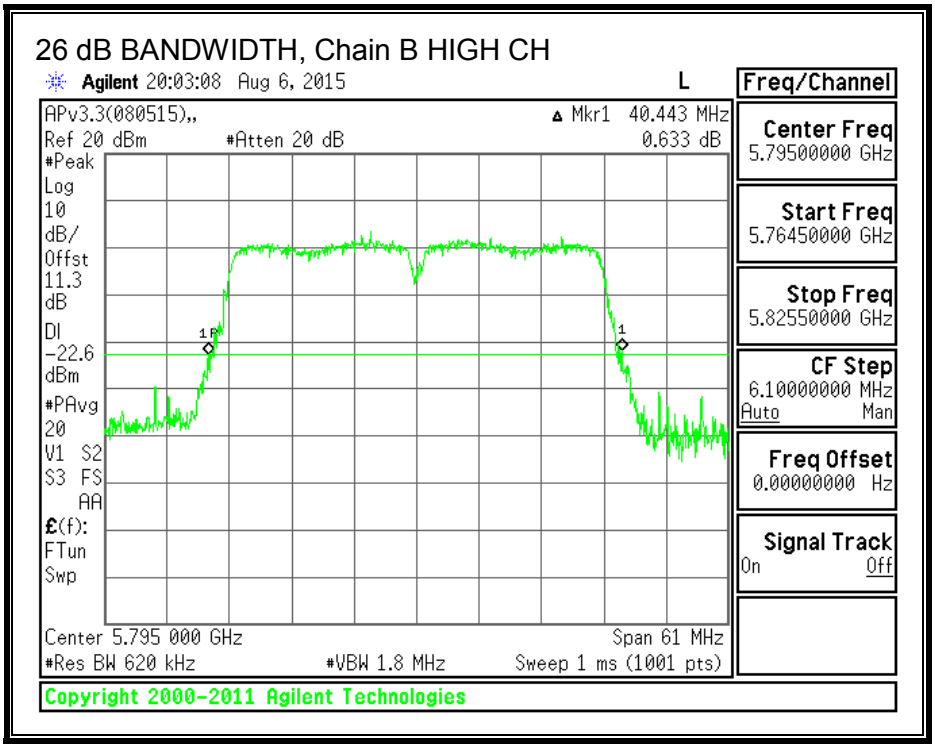
None; for reporting purposes only.

RESULTS

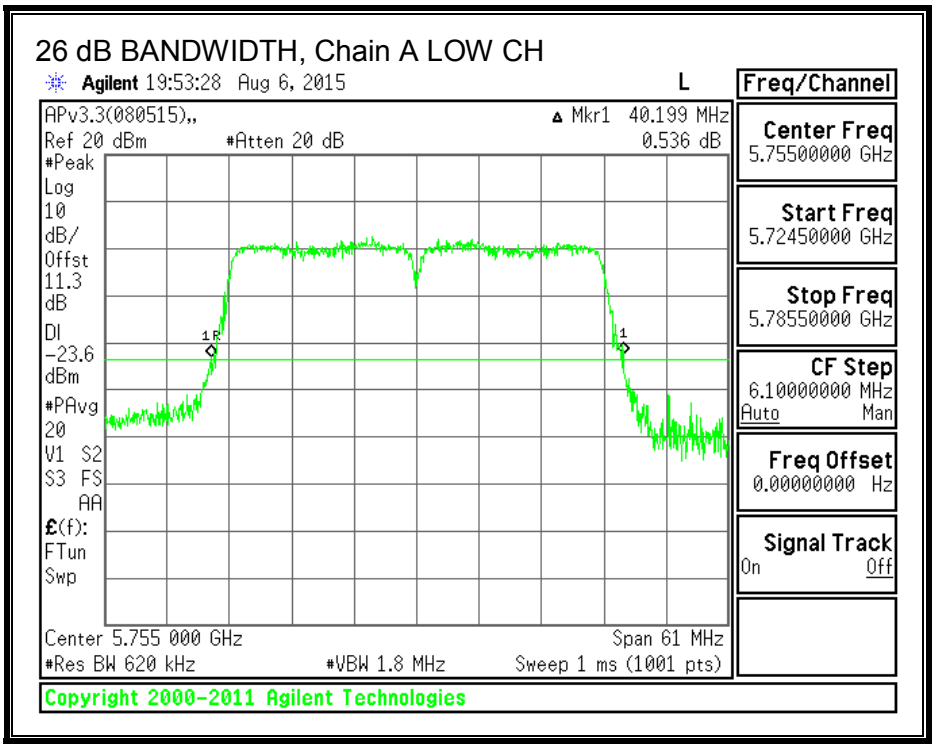
Channel	Frequency (MHz)	26 dB BW Chain B (MHz)	26 dB BW Chain A (MHz)
Low	5755	40.63	40.20
High	5795	40.44	40.63

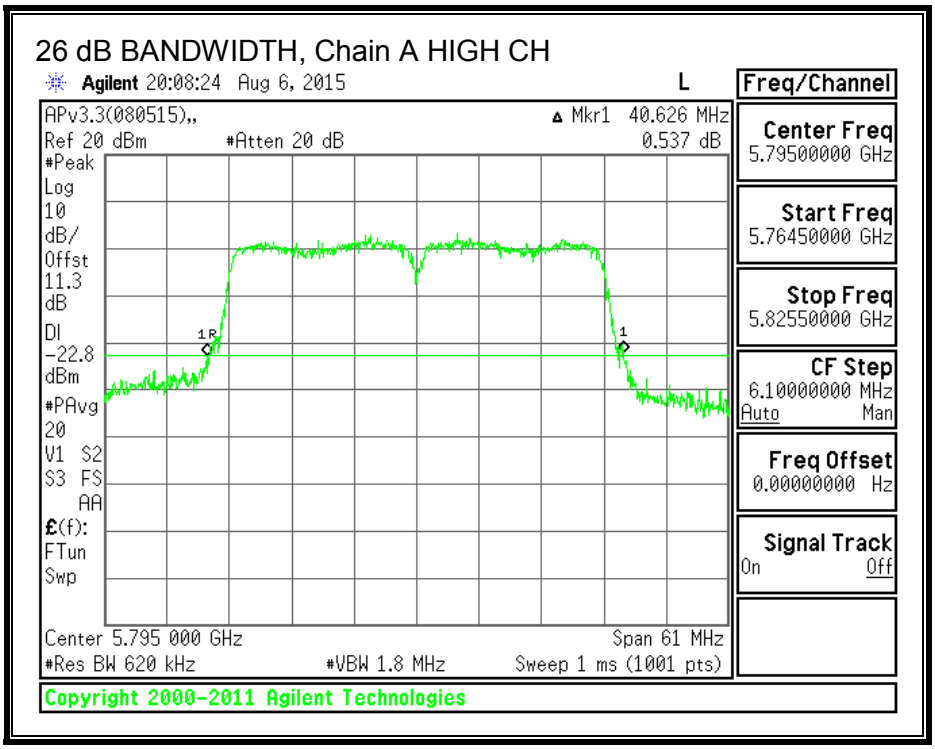
26 dB BANDWIDTH, Chain B





26 dB BANDWIDTH, Chain A





8.16.3. 99% BANDWIDTH

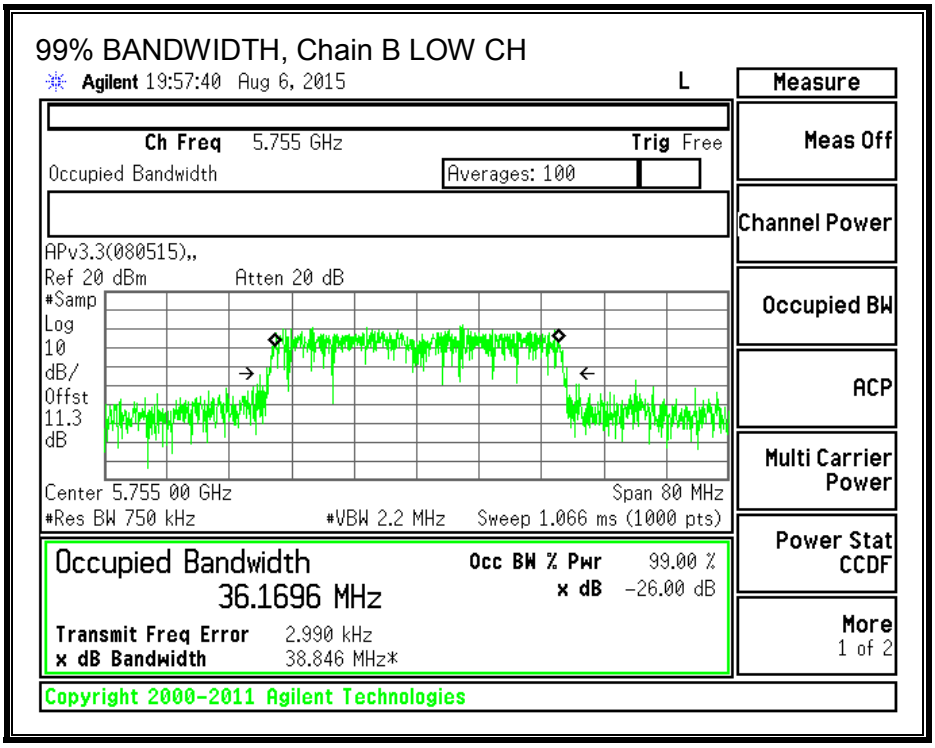
LIMITS

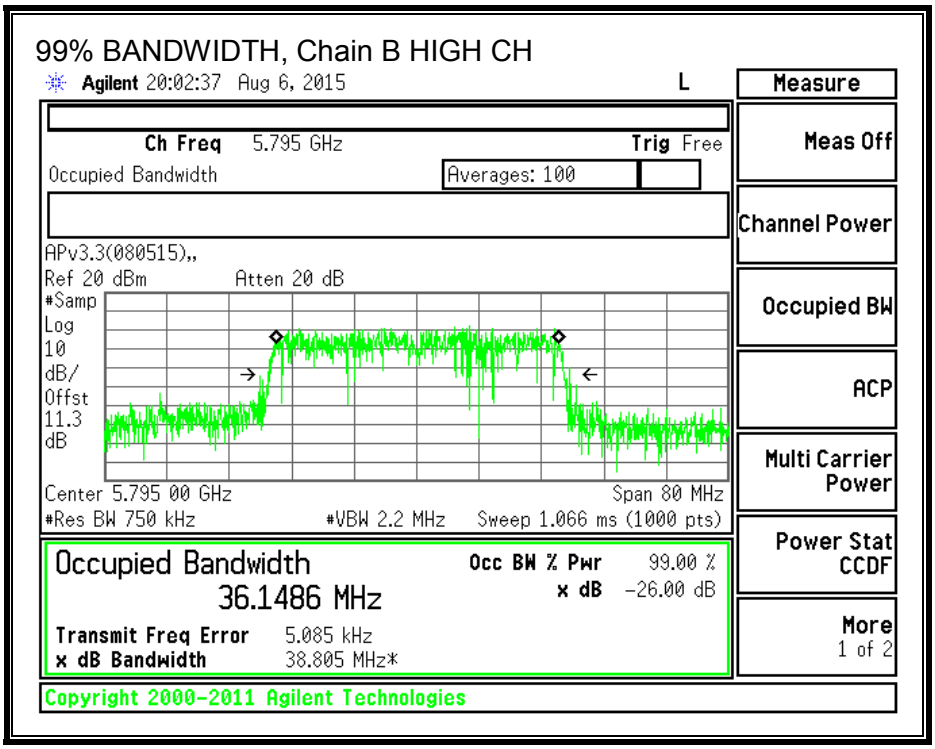
None; for reporting purposes only.

RESULTS

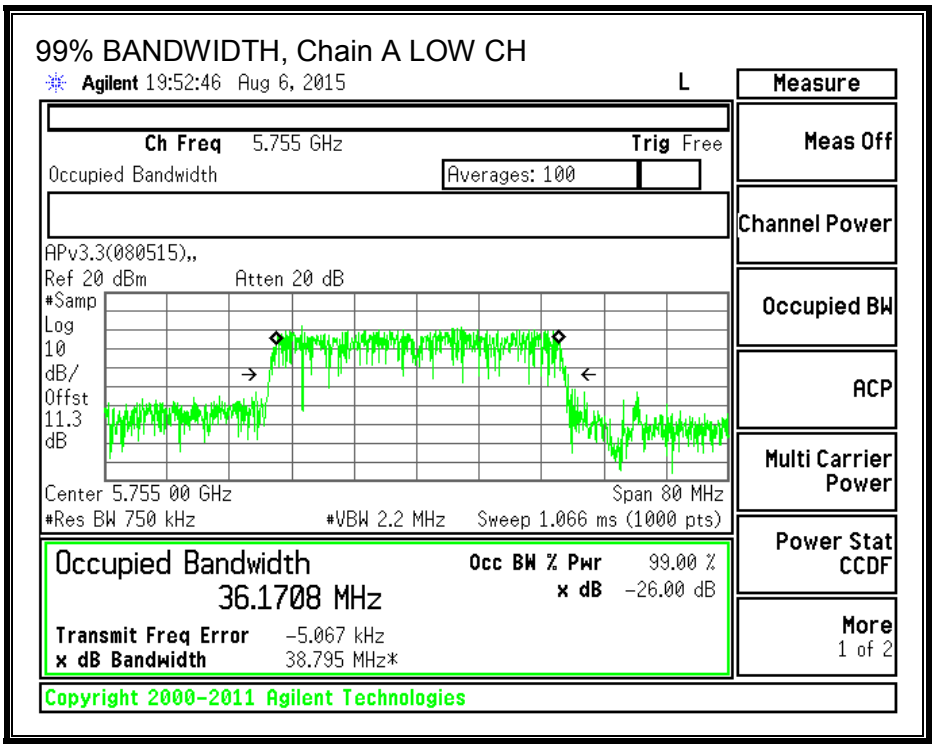
Channel	Frequency (MHz)	99% BW Chain B (MHz)	99% BW Chain A (MHz)
Low	5755	36.1696	36.1708
High	5795	36.1486	36.2021

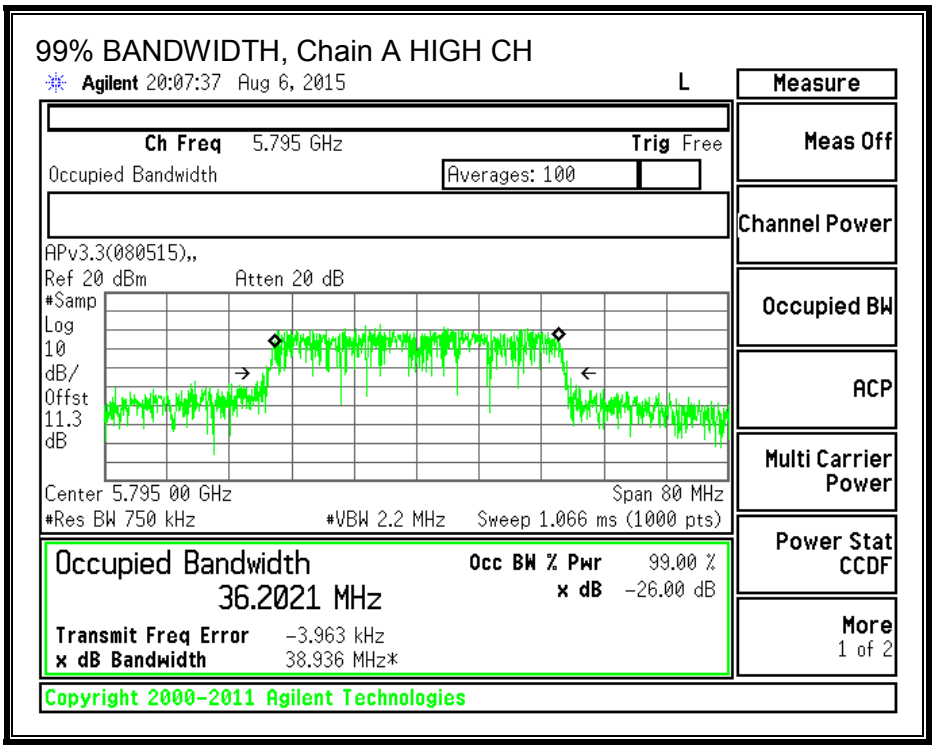
99% BANDWIDTH, Chain B





99% BANDWIDTH, Chain A





8.16.4. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.40	1.70	1.55

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5755	1.55	30.00
High	5795	1.55	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	10.72	11.11	13.93	30.00	-16.07
High	5795	10.99	11.20	14.11	30.00	-15.89

8.16.5. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.40	1.70	1.55

RESULTS

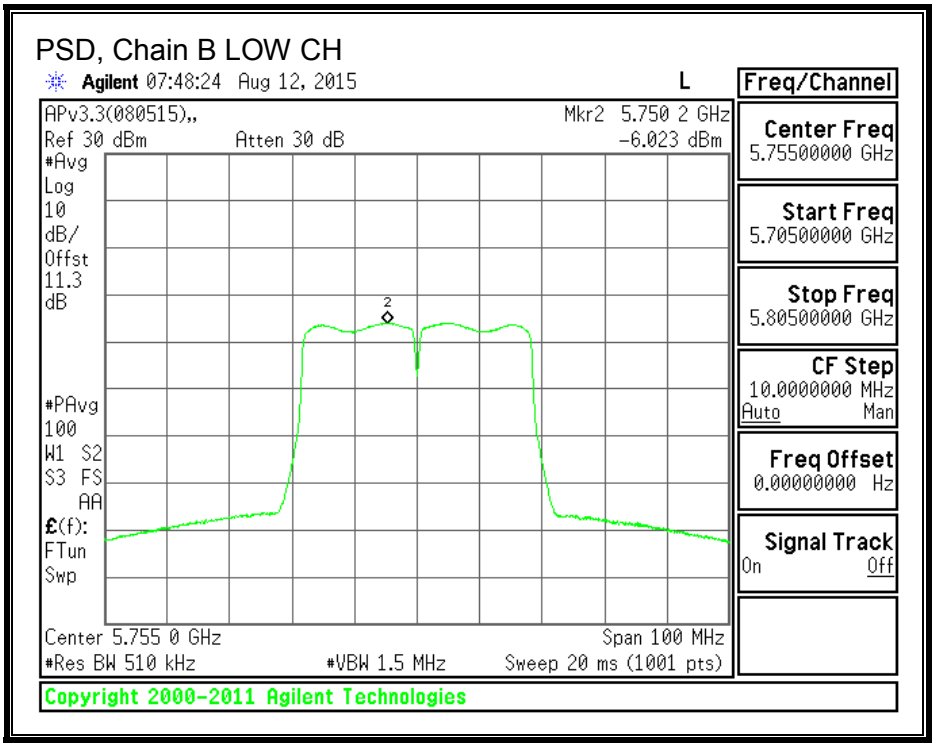
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Low	5755	1.55	30.00
High	5795	1.55	30.00

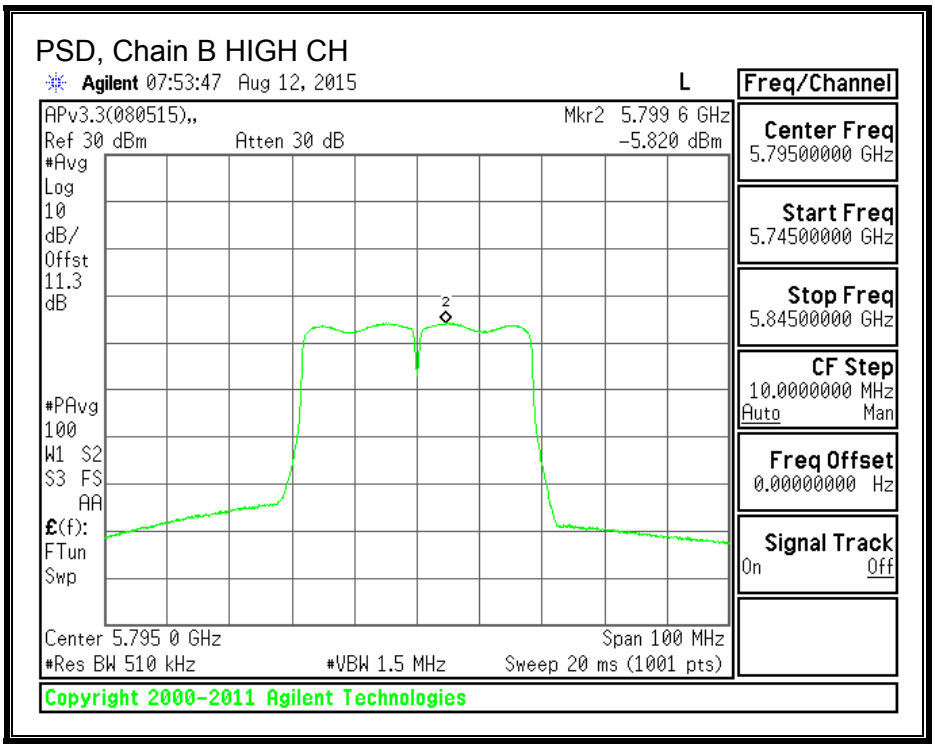
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

PSD Results

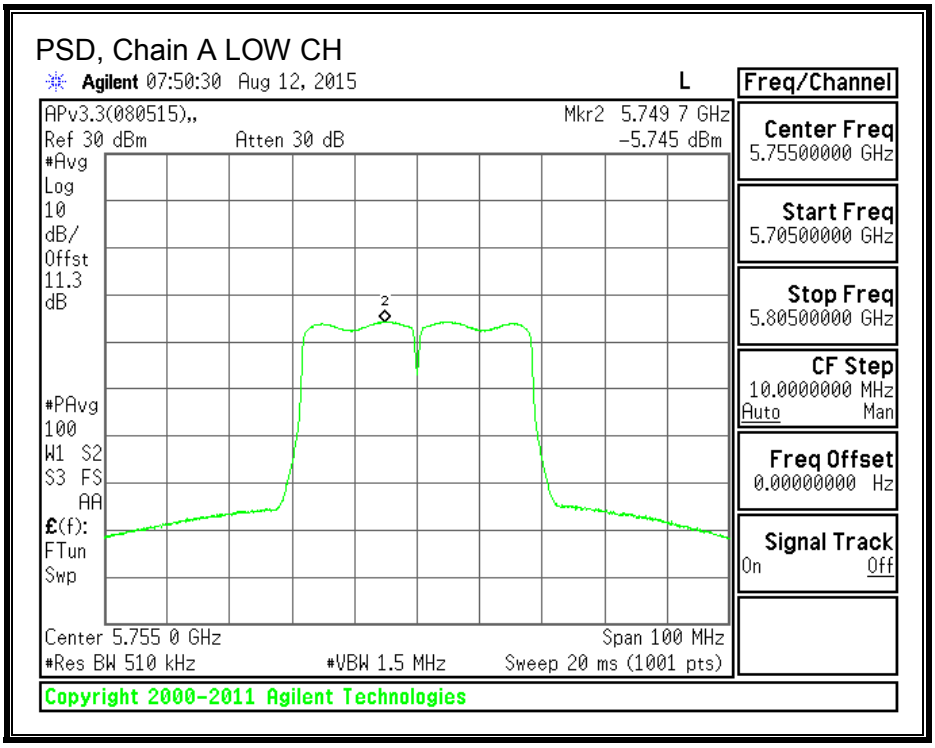
Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	-6.02	-5.75	-2.87	30.00	-32.87
High	5795	-5.82	-5.48	-2.63	30.00	-32.63

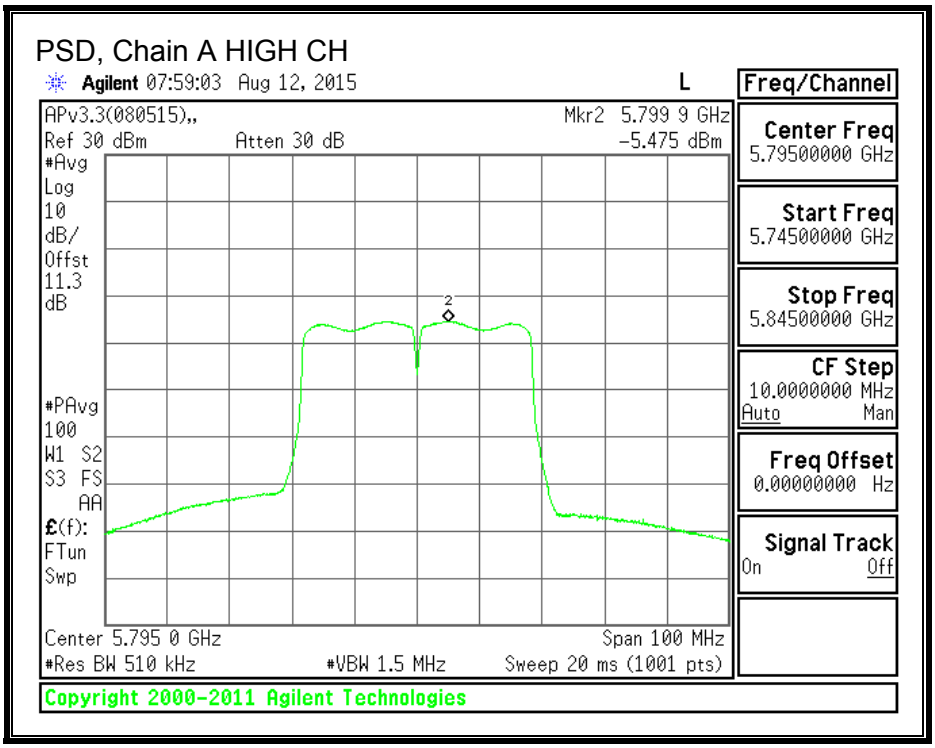
PSD, Chain B





PSD, Chain A





8.17. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

8.17.1. 6 dB BANDWIDTH

LIMITS

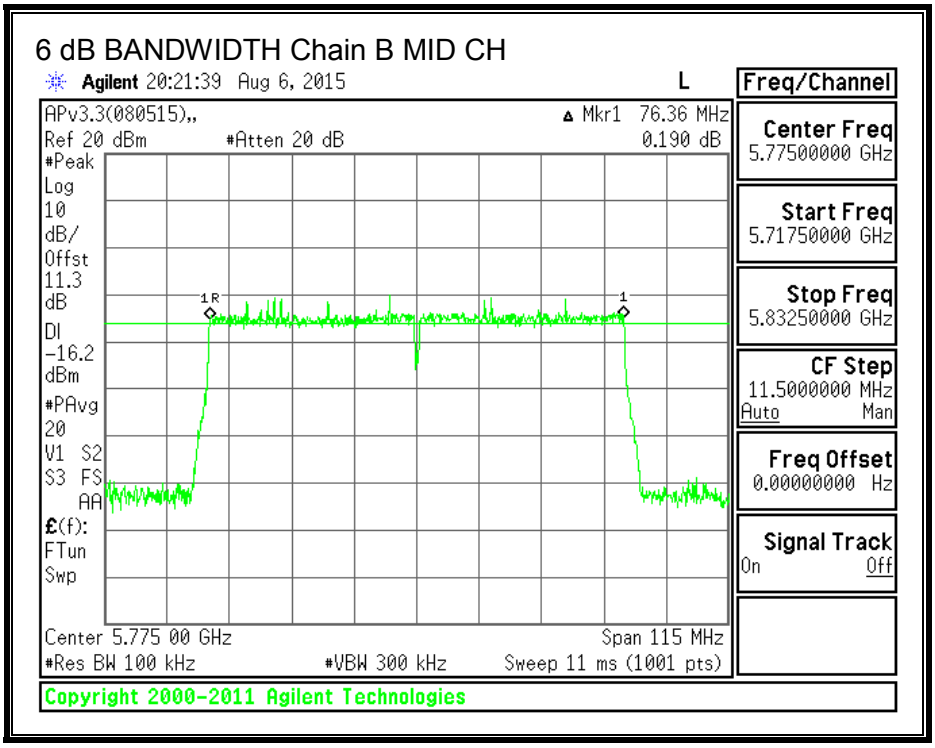
FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

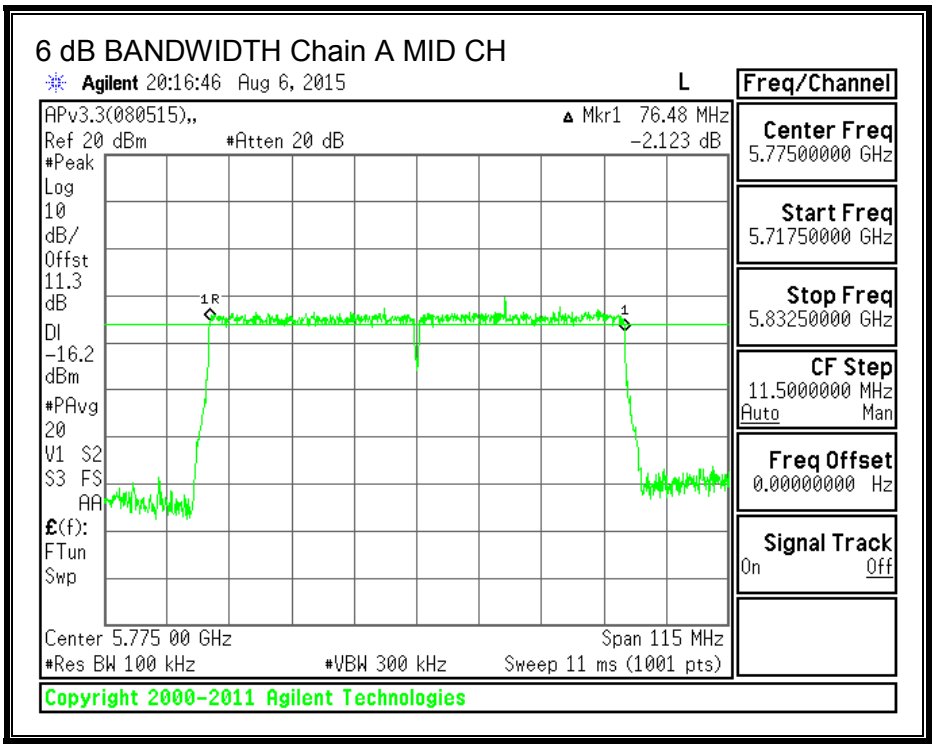
RESULTS

Channel	Frequency (MHz)	6 dB BW Chain B (MHz)	6 dB BW Chain A (MHz)	Minimum Limit (MHz)
Mid	5775	76.3600	76.4800	0.5

6 dB BANDWIDTH, Chain B



6 dB BANDWIDTH, Chain A



8.17.2. 26 dB BANDWIDTH

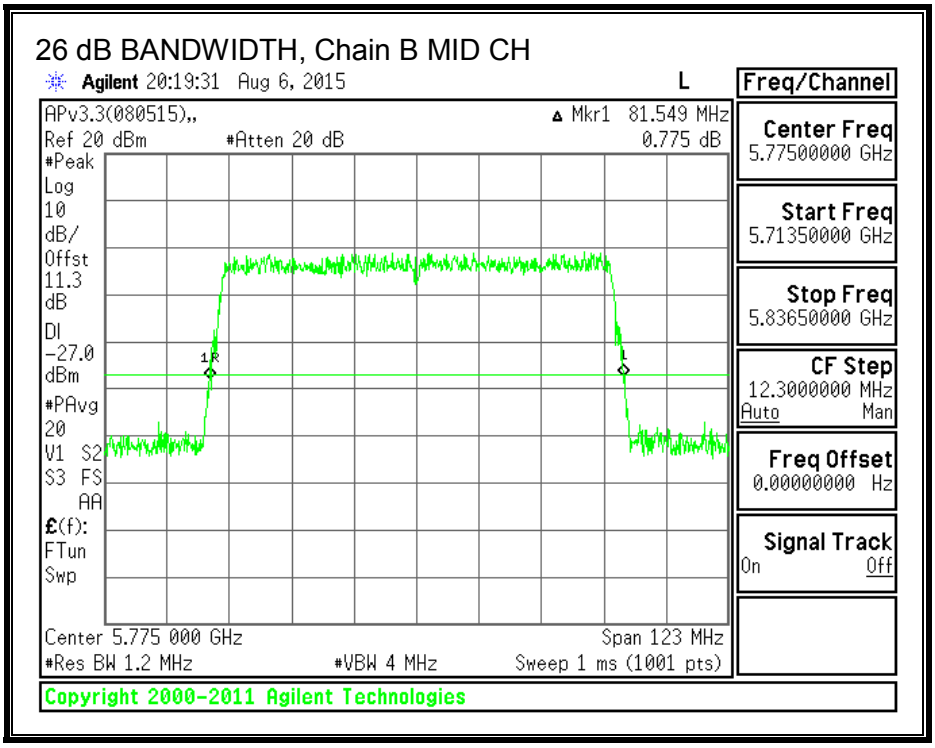
LIMITS

None; for reporting purposes only.

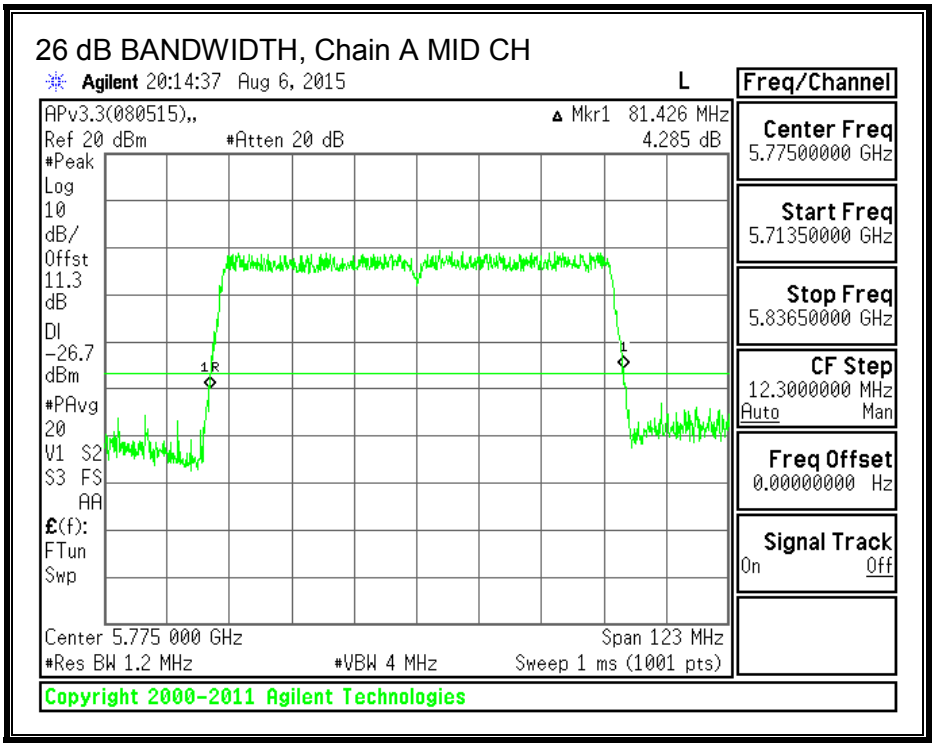
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain B (MHz)	26 dB BW Chain A (MHz)
Mid	5775	81.55	81.43

26 dB BANDWIDTH, Chain B



26 dB BANDWIDTH, Chain A



8.17.3. 99% BANDWIDTH

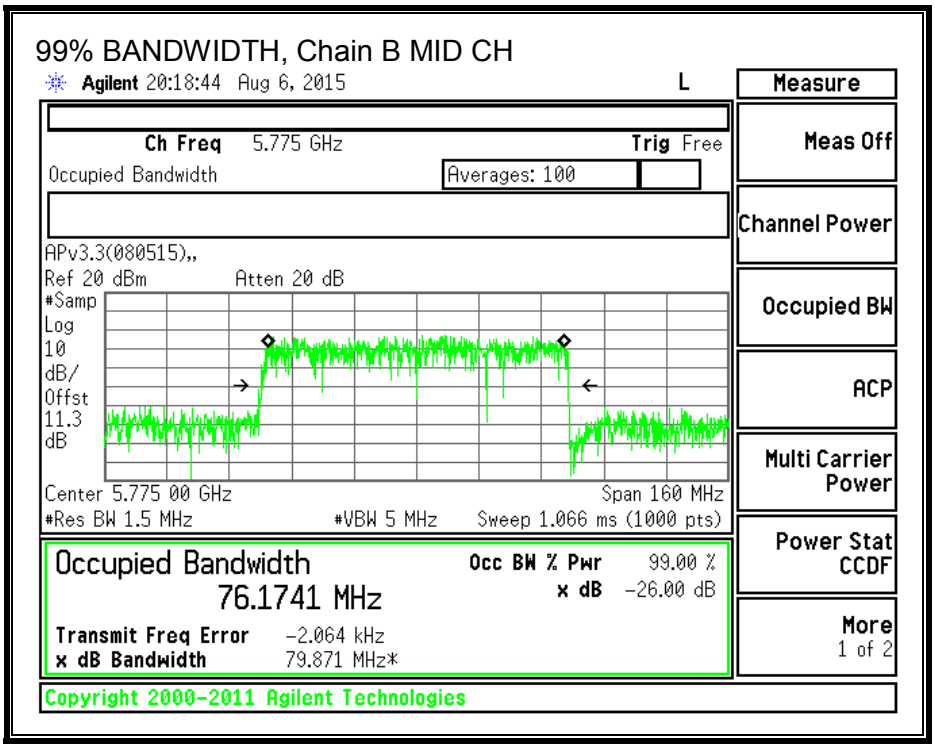
LIMITS

None; for reporting purposes only.

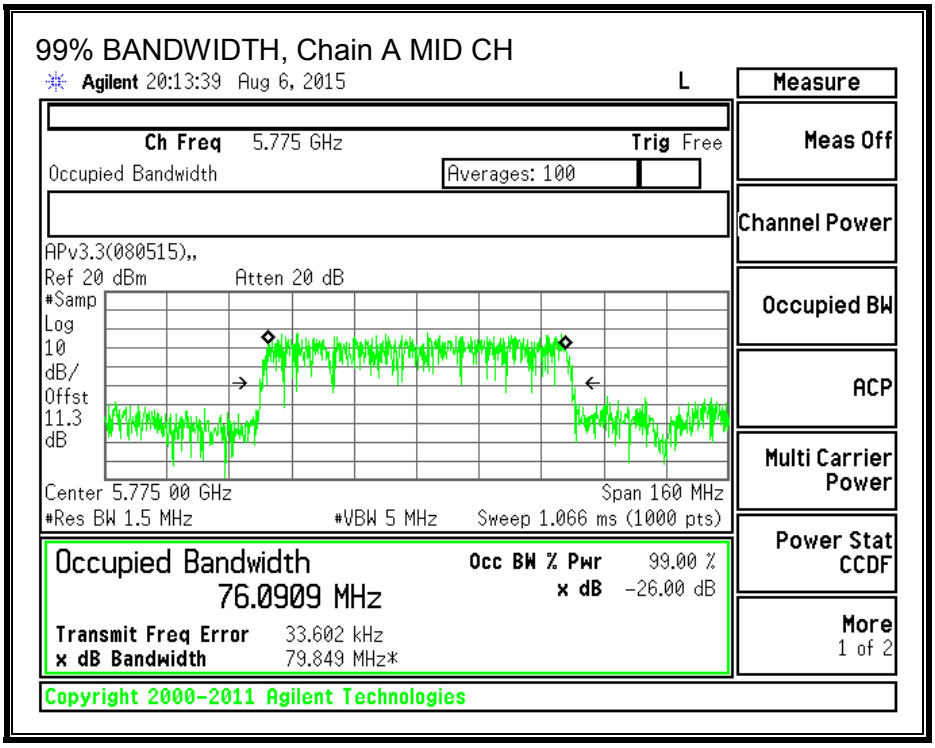
RESULTS

Channel	Frequency (MHz)	99% BW Chain B (MHz)	99% BW Chain A (MHz)
Mid	5775	76.1741	76.0909

99% BANDWIDTH, Chain B



99% BANDWIDTH, Chain A



8.17.4. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.40	1.70	1.55

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	1.55	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Output Power Results

Channel	Frequency (MHz)	Chain B Meas Power (dBm)	Chain A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	7.42	7.88	10.67	30.00	-19.33

8.17.5. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain B Antenna Gain (dBi)	Chain A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
1.40	1.70	1.55

RESULTS

Antenna Gain and Limit

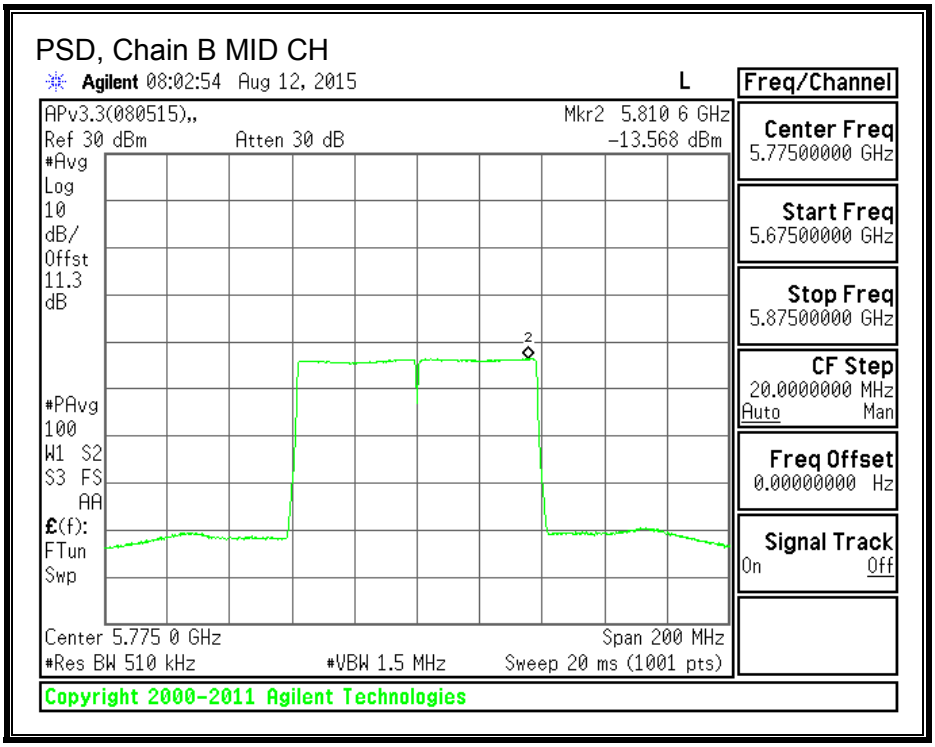
Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	1.55	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

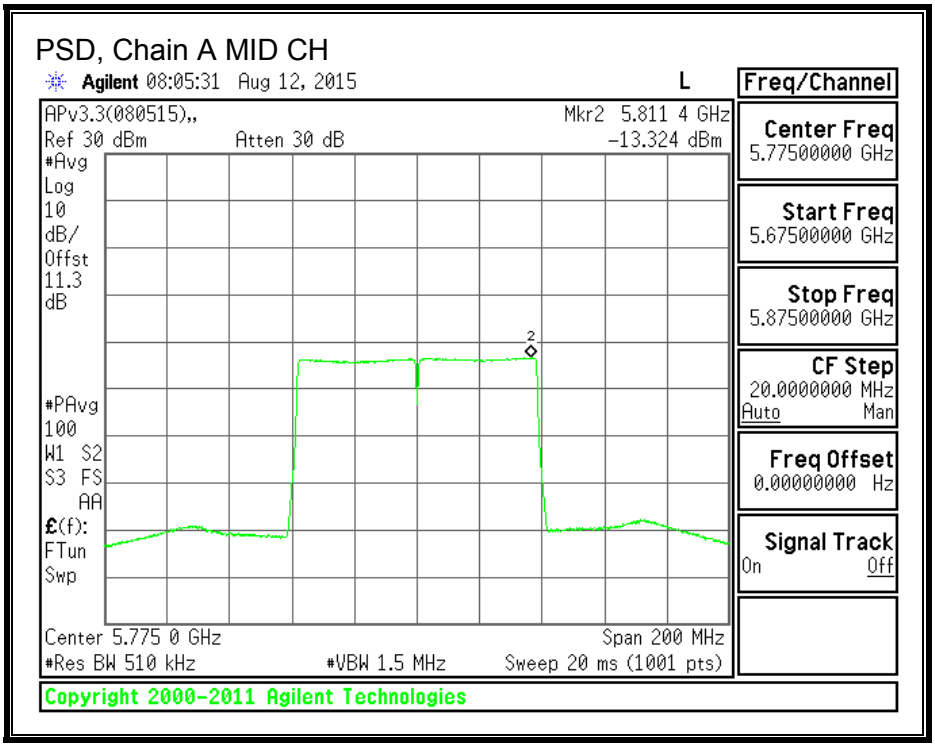
PSD Results

Channel	Frequency (MHz)	Chain B Meas PSD (dBm)	Chain A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5775	-13.57	-13.32	-10.43	30.00	-40.43

PSD, Chain B



PSD, Chain A



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz measurements and 1.5 m above the ground plane for above 1GHz measurements. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

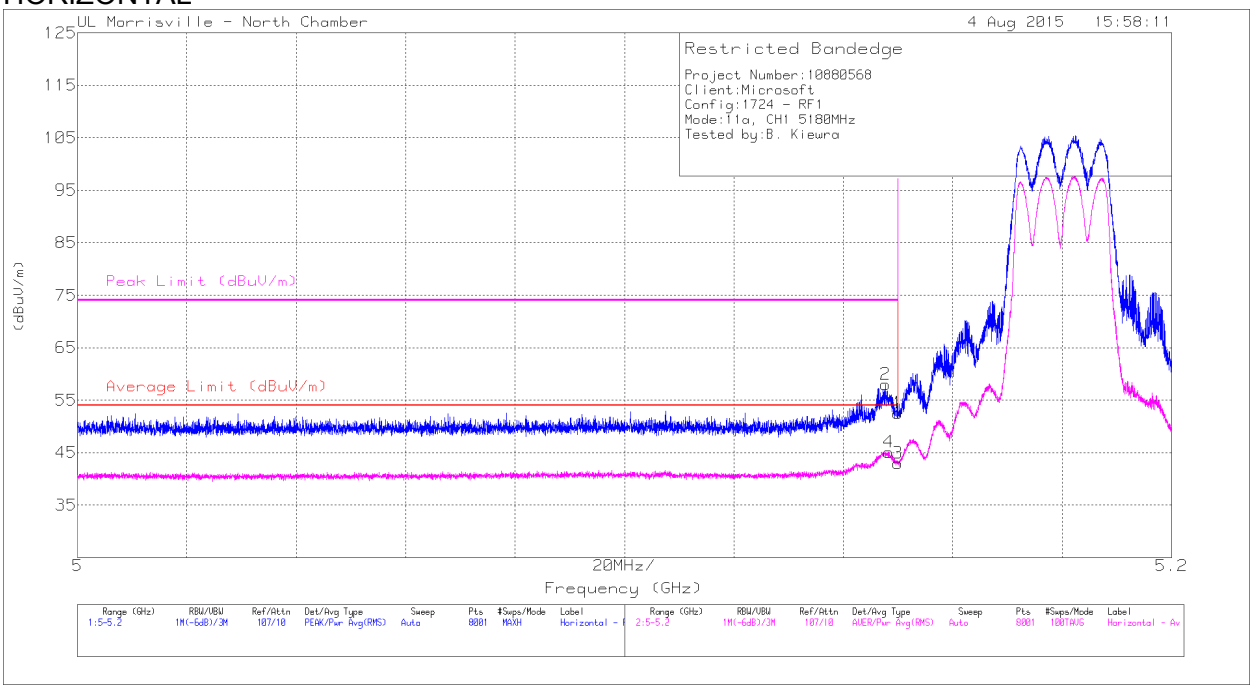
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

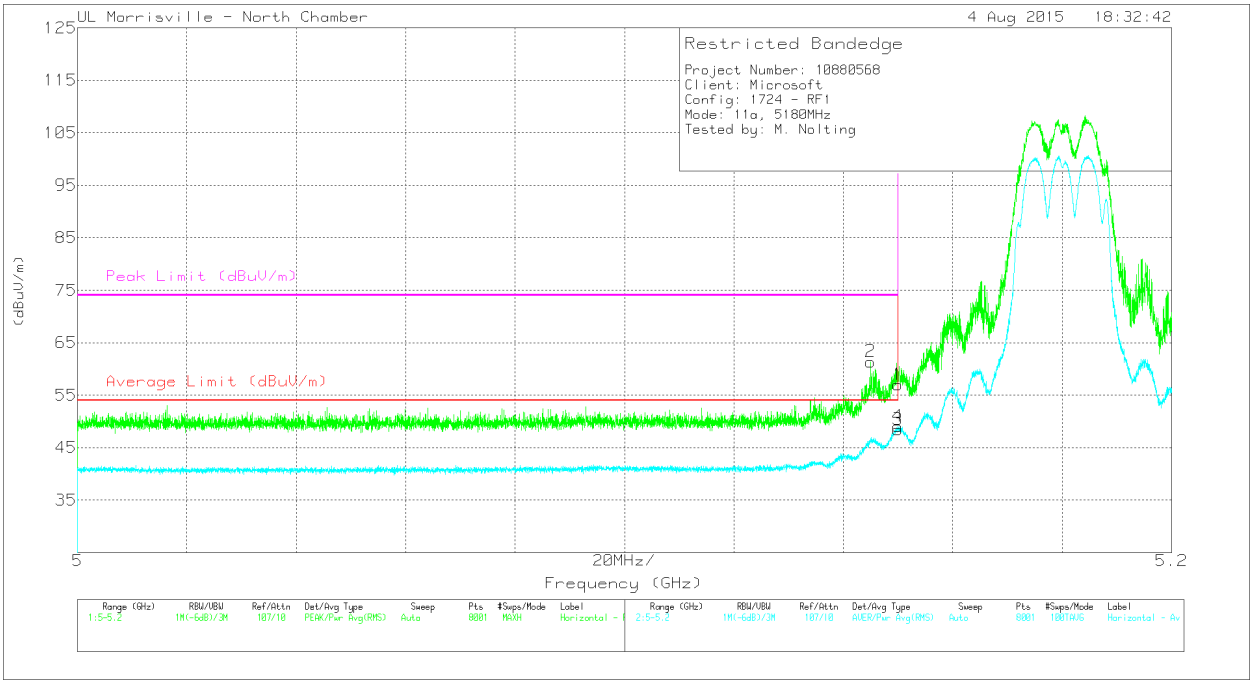
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.58	Pk	34.3	-21.4	-	52.48	-	-	74	-21.52	259	205	H
2	* 5.148	44.96	Pk	34.3	-21.3	-	57.96	-	-	74	-16.04	259	205	H
3	* 5.15	30.08	RMS	34.3	-21.4	0.12	43.10	54	-10.9	-	-	259	205	H
4	* 5.148	32.07	RMS	34.3	-21.3	0.12	45.19	54	-8.81	-	-	259	205	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
RMS - RMS detection
Duty Cycle Correction (DCCF) = 10log(1/x) = 10log(1/0.9722) = 0.12 dB

VERTICAL

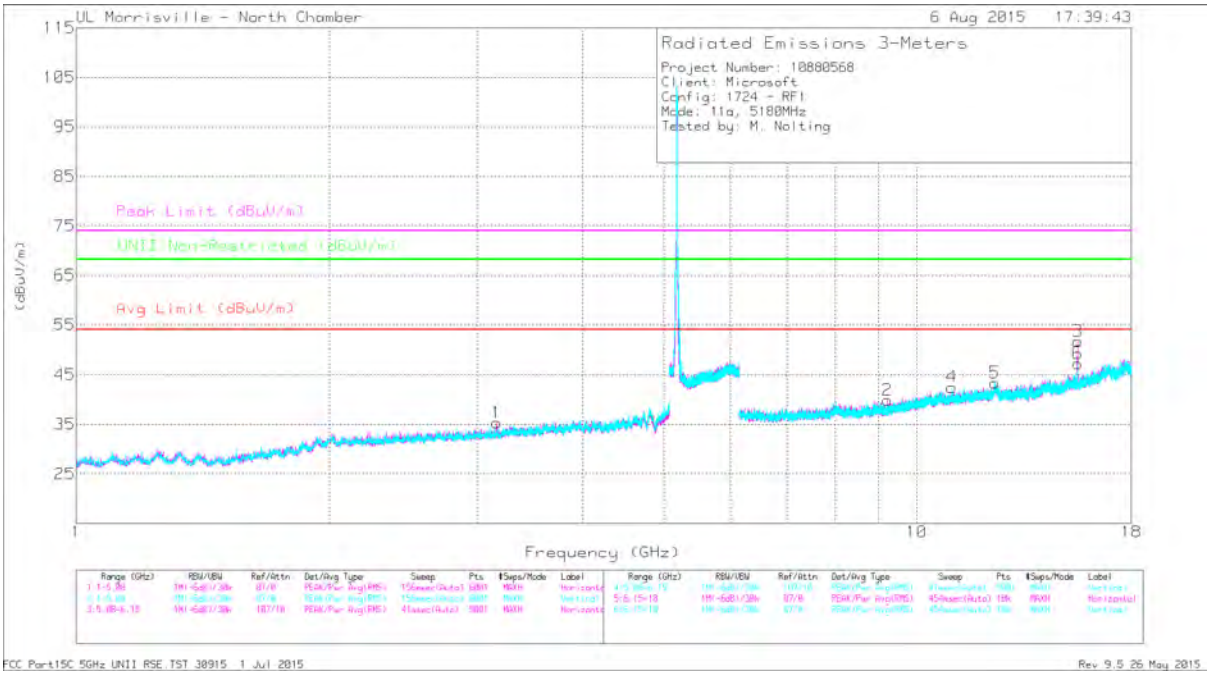


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.13	Pk	34.3	-21.4	-	57.03	-	-	74	-16.97	12	282	V
2	* 5.145	48.4	Pk	34.3	-21.3	-	61.4	-	-	74	-12.6	12	282	V
3	* 5.15	35.54	RMS	34.3	-21.4	0.12	48.56	54.0	-5.44	-	-	12	282	V
4	* 5.15	36.2	RMS	34.3	-21.4	0.12	49.22	54.0	-4.78	-	-	12	282	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
RMS - RMS detection
Duty Cycle Correction (DCCF) = 10log(1/x) = 10log(1/0.9722) = 0.12 dB

HARMONICS AND SPURIOUS EMISSIONS

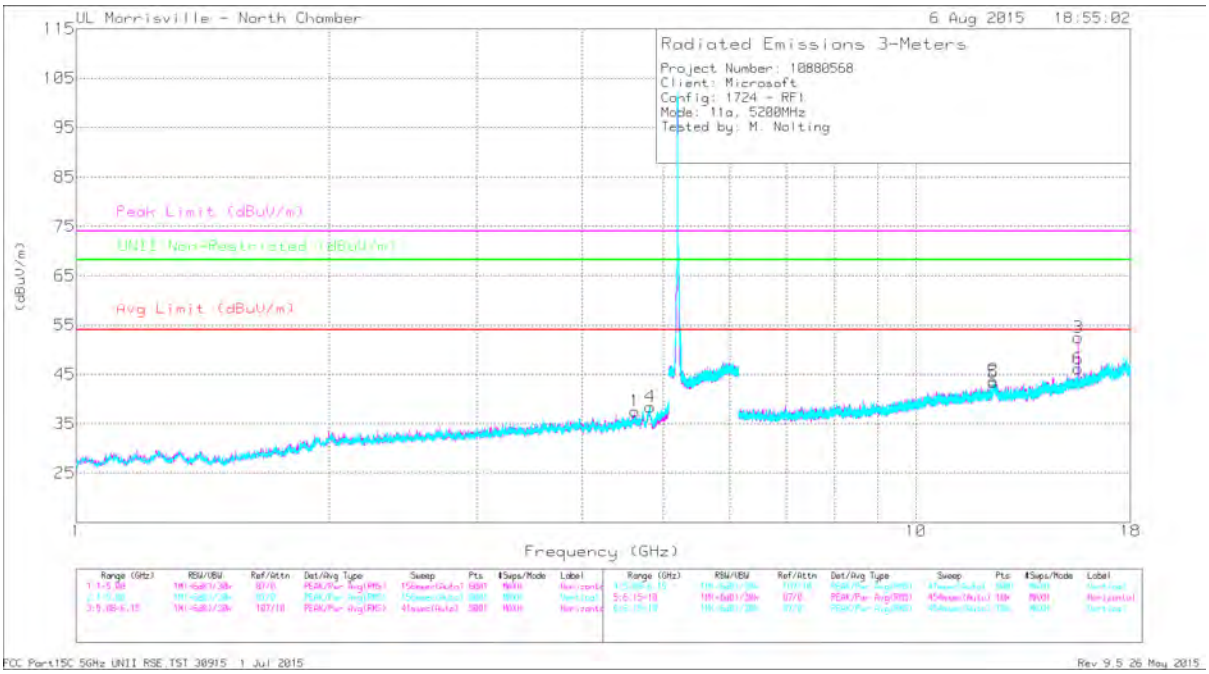
LOW CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 15.535	45.8	PK3	40.5	-23.9	-	62.4	-	-	74	-11.6	-	-	351	101	H
	* 15.541	32.15	ADR	40.5	-23.9	0.12	48.87	54	-5.13	-	-	-	-	351	101	H
4	* 11.008	34.3	PK3	38	-23.6	-	48.7	-	-	74	-25.3	-	-	188	314	V
	* 11.007	22.88	ADR	38	-23.6	-	37.28	54	-16.72	-	-	-	-	188	314	V
5	* 12.385	34.44	PK3	39.1	-22.9	-	50.64	-	-	74	-23.36	-	-	42	241	V
	* 12.383	22.95	ADR	39.1	-22.9	-	39.15	54	-14.85	-	-	-	-	42	241	V
6	* 15.536	44.67	PK3	40.5	-23.9	-	61.27	-	-	74	-12.73	-	-	314	236	V
	* 15.541	30.69	ADR	40.5	-23.9	0.12	47.41	54	-6.59	-	-	-	-	314	236	V
1	3.168	43.21	PK3	32.7	-33.1	-	42.81	-	-	-	-	68.2	-25.39	6	155	H
2	9.22	36.44	PK3	36.4	-26.5	-	46.34	-	-	-	-	68.2	-21.86	186	217	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK3 - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average
Duty Cycle Correction (DCCF) = 10log(1/x) = 10log(1/0.9722) = 0.12 dB

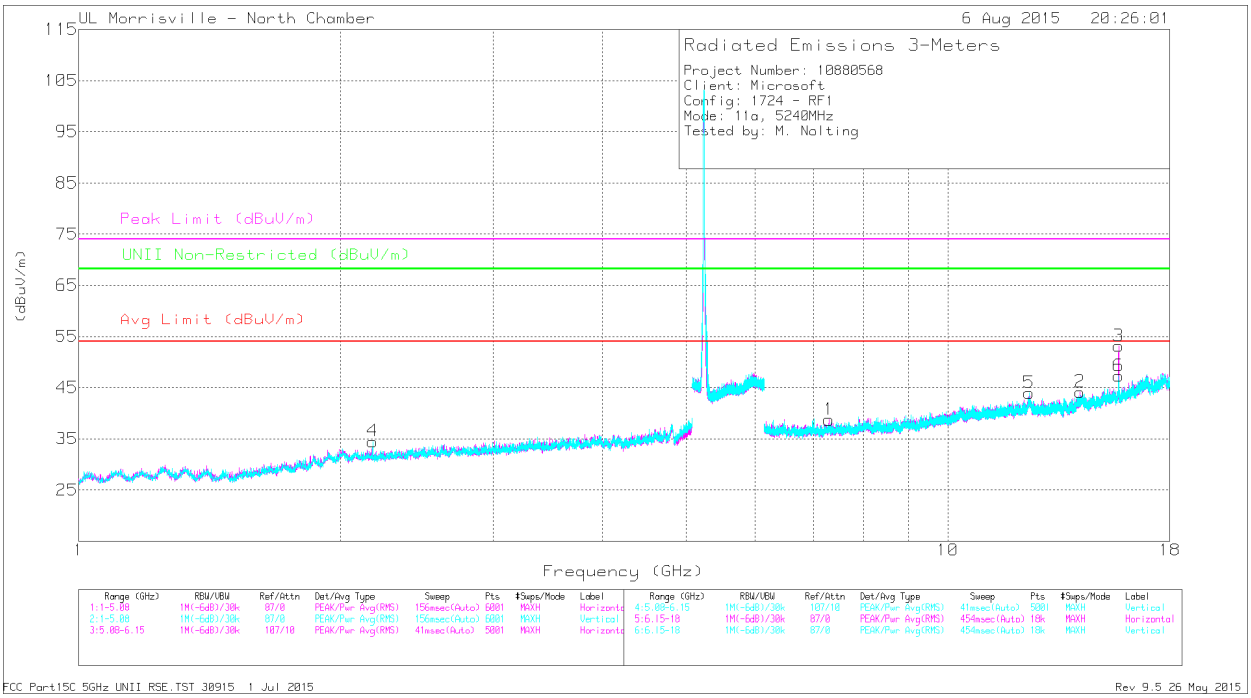
MID CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.626	41.07	PK3	34	-30.7	-	44.37	-	-	74	-29.63	-	-	199	244	H
	* 4.623	29.59	ADR	34	-30.8	-	32.79	54	-21.21	-	-	-	-	199	244	H
4	* 4.825	41.96	PK3	34.1	-30.2	-	45.86	-	-	74	-28.14	-	-	346	107	V
	* 4.824	30.26	ADR	34.1	-30.2	-	34.16	54	-19.84	-	-	-	-	346	107	V
2	* 15.603	46.91	PK3	40.6	-25	-	62.51	-	-	74	-11.49	-	-	343	102	H
	* 15.603	33	ADR	40.6	-25	0.12	48.72	54	-5.28	-	-	-	-	343	102	H
3	* 12.368	34.28	PK3	39	-23	-	50.28	-	-	74	-23.72	-	-	223	101	H
	* 12.369	22.84	ADR	39	-23	-	38.84	54	-15.16	-	-	-	-	223	101	H
5	* 12.368	35.38	PK3	39	-23	-	51.38	-	-	74	-22.62	-	-	223	103	V
	* 12.374	22.81	ADR	39	-22.9	-	38.91	54	-15.09	-	-	-	-	223	103	V
6	* 15.603	45.86	PK3	40.6	-25	-	61.46	-	-	74	-12.54	-	-	313	237	V
	* 15.603	32.34	ADR	40.6	-25	0.12	48.06	54	-5.94	-	-	-	-	313	237	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK3 - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average
Duty Cycle Correction (DCCF) = 10log(1/x) = 10log(1/0.9722) = 0.12 dB

HIGH CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.291	38.69	PK3	35.7	-28.2	-	46.19	-	-	74	-27.81	-	-	271	299	H
	* 7.295	26.79	ADR	35.7	-28.2	-	34.29	54	-19.71	-	-	-	-	271	299	H
3	* 15.716	47.17	PK3	40.7	-24.2	-	63.67	-	-	74	-10.33	-	-	345	103	H
	* 15.721	33.06	ADR	40.8	-24.1	0.12	49.88	54	-4.12	-	-	-	-	345	103	H
5	* 12.399	34.95	PK3	39.1	-22.9	-	51.15	-	-	74	-22.85	-	-	82	231	V
	* 12.401	23.13	ADR	39.1	-22.9	-	39.33	54	-14.67	-	-	-	-	82	231	V
6	* 15.716	46.17	PK3	40.7	-24.2	-	62.67	-	-	74	-11.33	-	-	313	235	V
	* 15.721	32	ADR	40.8	-24.1	0.12	48.82	54	-5.18	-	-	-	-	313	235	V
4	2.183	44.28	PK3	31.6	-34.4	-	41.48	-	-	-	-	68.2	-26.72	346	118	V
2	14.181	36	PK3	39.3	-24.9	-	50.4	-	-	-	-	68.2	-17.8	25	199	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

PK3 - U-NII: Maximum Peak

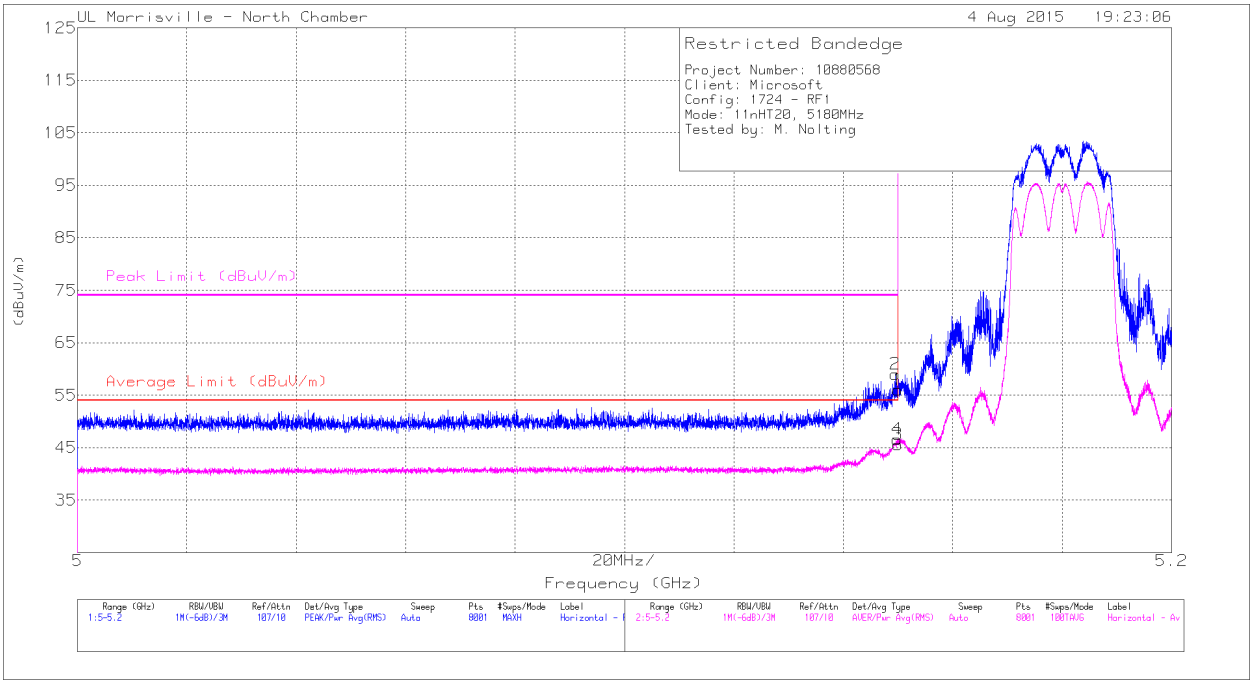
ADR - U-NII AD primary method, RMS average

Duty Cycle Correction (DCCF) = 10log(1/x) = 10log(1/0.9722) = 0.12 dB

9.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

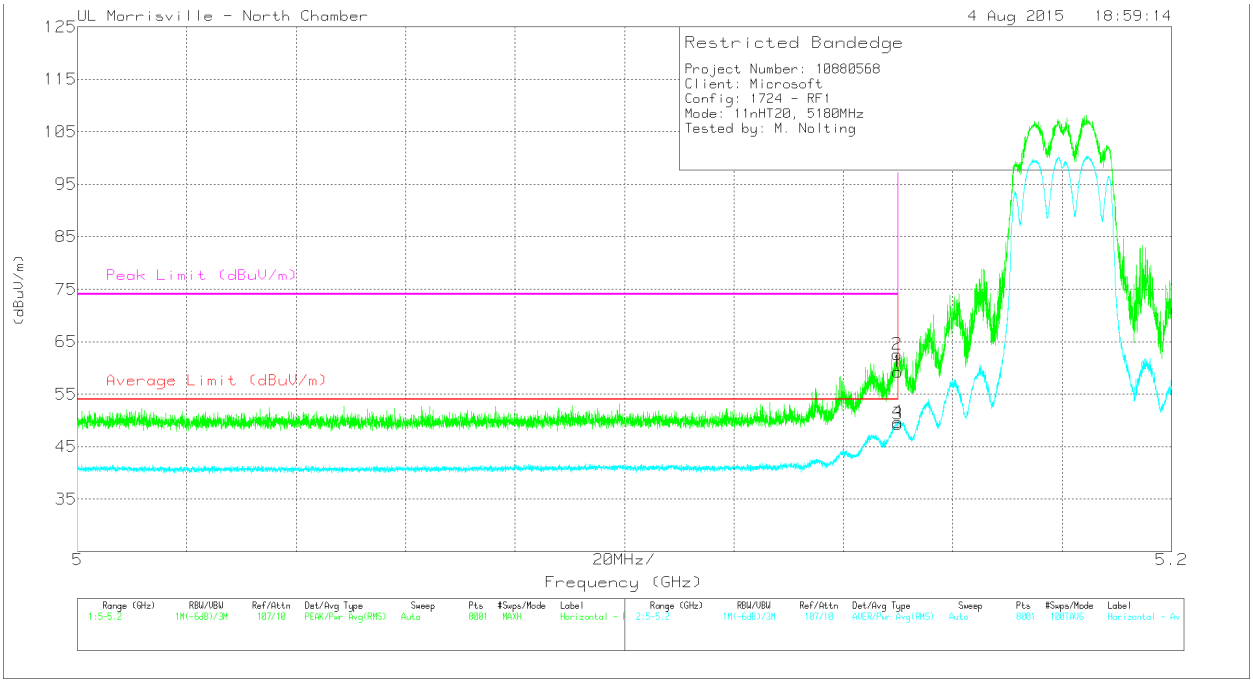
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	43.13	Pk	34.3	-21.4	56.03	-	-	74	-17.97	260	177	H
2	* 5.149	46.1	Pk	34.3	-21.4	59	-	-	74	-15	260	177	H
3	* 5.15	32.62	RMS	34.3	-21.4	45.52	54	-8.48	-	-	260	177	H
4	* 5.15	33.7	RMS	34.3	-21.4	46.6	54	-7.4	-	-	260	177	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL

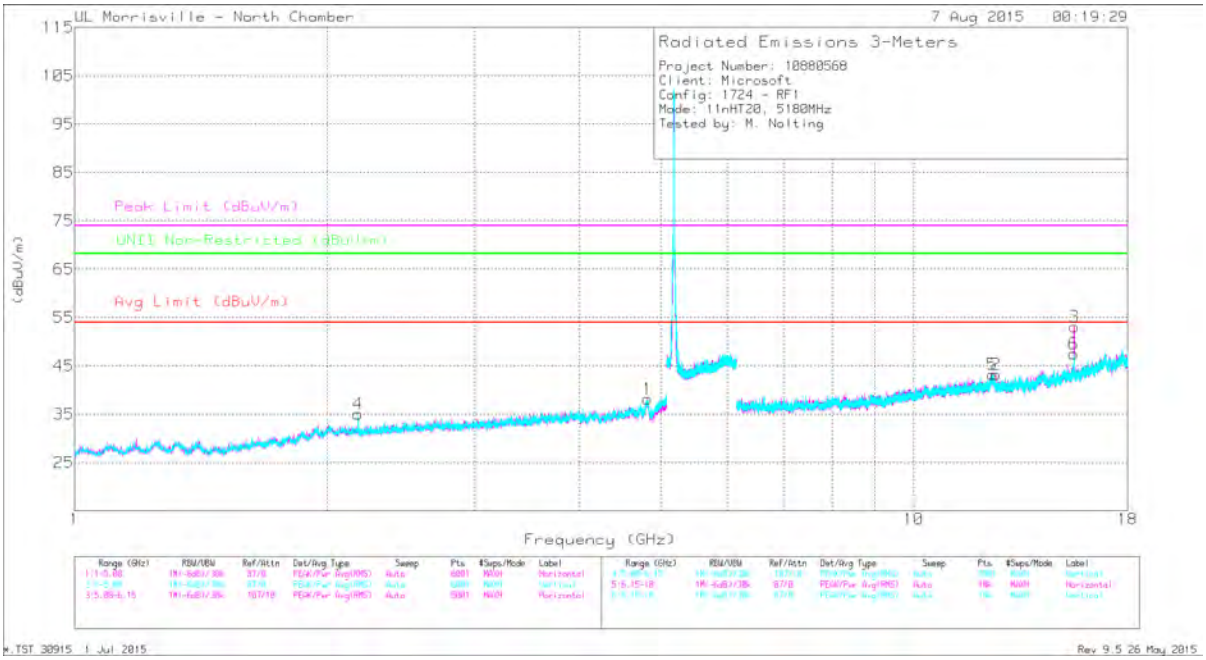


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.33	Pk	34.3	-21.4	59.23	-	-	74	-14.77	12	281	V
2	* 5.15	49.67	Pk	34.3	-21.4	62.57	-	-	74	-11.43	12	281	V
3	* 5.15	36.43	RMS	34.3	-21.4	49.33	54	-4.67	-	-	12	281	V
4	* 5.15	36.74	RMS	34.3	-21.4	49.64	54	-4.36	-	-	12	281	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

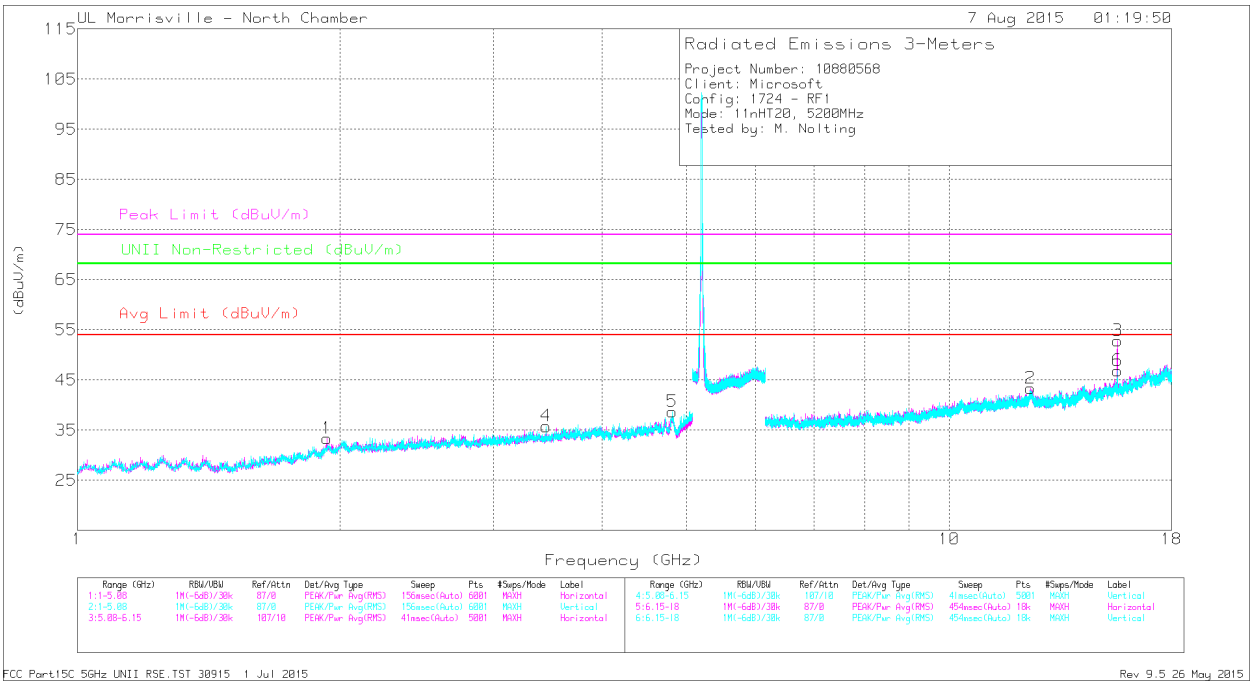
LOW CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.817	41.74	PK3	34.1	-30.2	45.64	-	-	74	-28.36	-	-	86	132	H
	* 4.814	29.78	ADR	34.1	-30.2	33.68	54	-20.32	-	-	-	-	86	132	H
2	* 12.544	34.95	PK3	39.1	-24.8	49.25	-	-	74	-24.75	-	-	95	231	H
	* 12.554	23.2	ADR	39.1	-24.9	37.4	54	-16.6	-	-	-	-	95	231	H
3	* 15.529	46.72	PK3	40.4	-23.8	63.32	-	-	74	-10.68	-	-	353	101	H
	* 15.543	32.73	ADR	40.5	-24	49.23	54	-4.77	-	-	-	-	353	101	H
5	* 12.419	35.25	PK3	39.1	-23	51.35	-	-	74	-22.65	-	-	87	146	V
	* 12.413	22.92	ADR	39.1	-23.1	38.92	54	-15.08	-	-	-	-	87	146	V
6	* 15.529	44.28	PK3	40.4	-23.8	60.88	-	-	74	-13.12	-	-	312	236	V
	* 15.543	30.25	ADR	40.5	-24	46.75	54	-7.25	-	-	-	-	312	236	V
4	2.179	44.92	PK3	31.6	-34.4	42.12	-	-	-	-	68.2	-26.08	339	138	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK3 - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

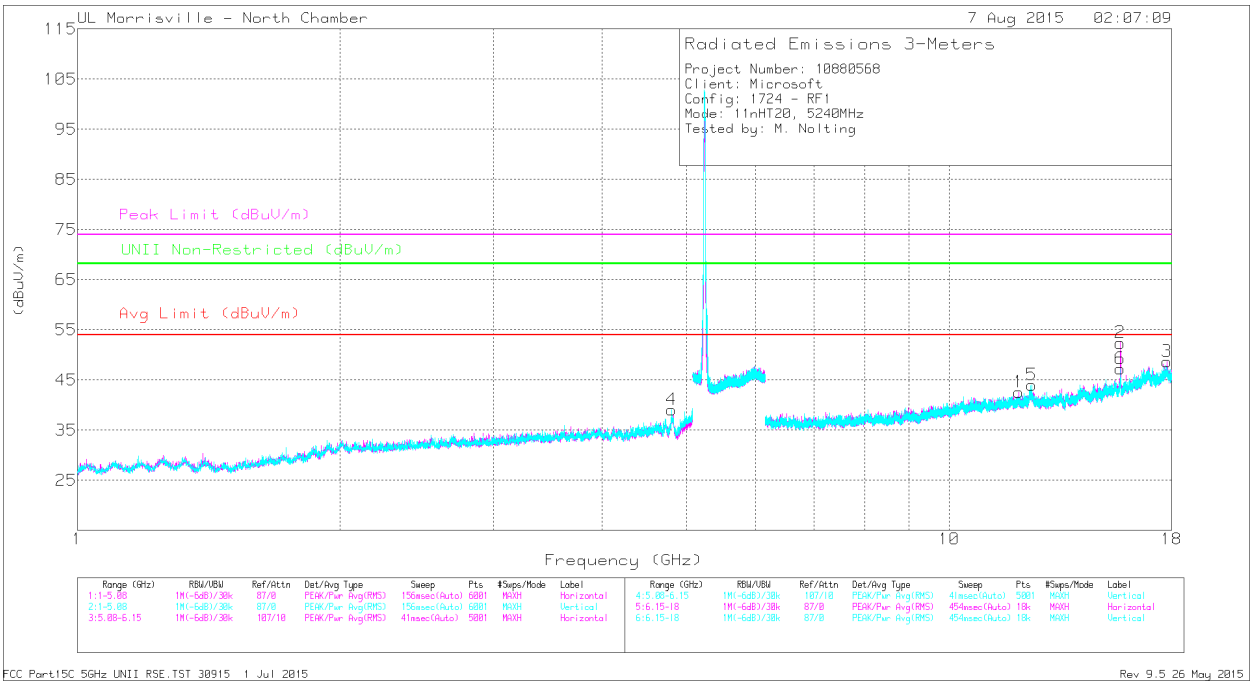
MID CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 4.812	42.44	PK3	34.1	-30.2	46.34	-	-	74	-27.66	-	-	360	121	V
	* 4.809	30.57	ADR	34.1	-30.2	34.47	54	-19.53	-	-	-	-	360	121	V
2	* 12.4	34.5	PK3	39.1	-22.9	50.7	-	-	74	-23.3	-	-	321	262	H
	* 12.399	22.92	ADR	39.1	-22.9	39.12	54	-14.88	-	-	-	-	321	262	H
3	* 15.603	47.81	PK3	40.6	-25	63.41	-	-	74	-10.59	-	-	352	101	H
	* 15.603	34	ADR	40.6	-25	49.6	54	-4.4	-	-	-	-	352	101	H
6	* 15.598	43.03	PK3	40.6	-25	58.63	-	-	74	-15.37	-	-	307	233	V
	* 15.603	29.24	ADR	40.6	-25	44.84	54	-9.16	-	-	-	-	307	233	V
1	1.93	44.22	PK3	31.1	-34.6	40.72	-	-	-	-	68.2	-27.48	269	154	H
4	3.447	43.69	PK3	33.1	-32.7	44.09	-	-	-	-	68.2	-24.11	350	237	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK3 - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



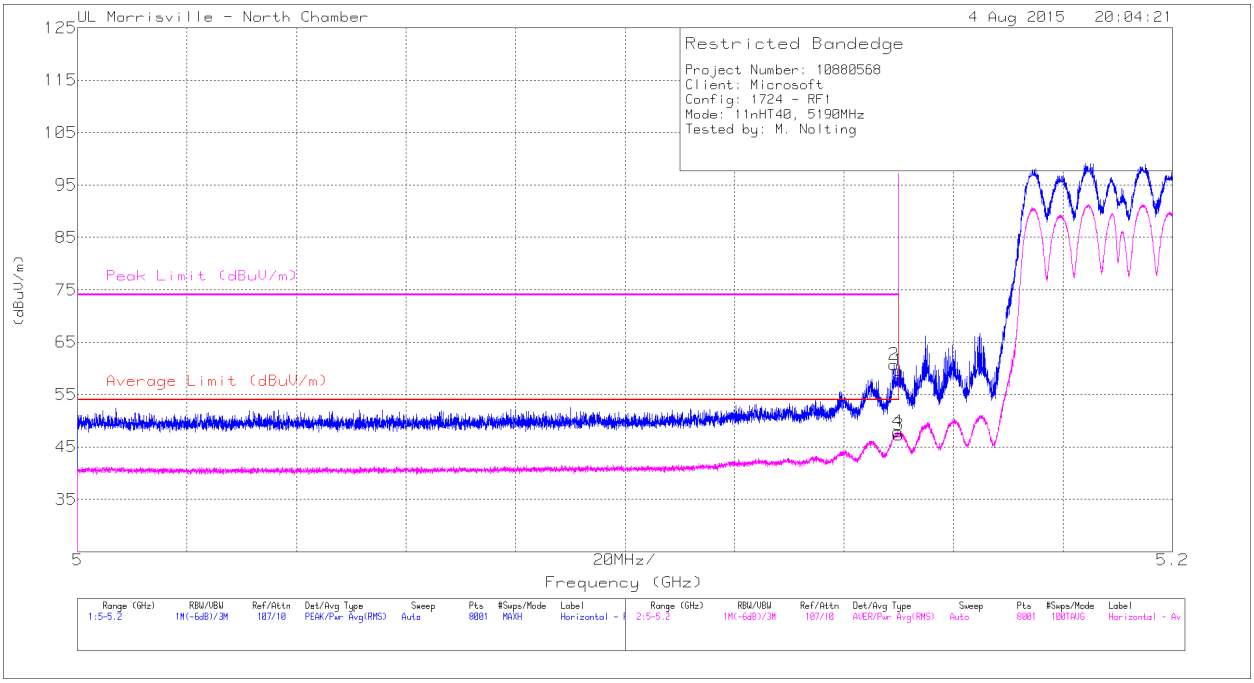
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.809	41.22	PK3	34.1	-30.2	45.12	-	-	74	-28.88	-	-	354	287	V
	* 4.811	30.06	ADR	34.1	-30.2	33.96	54	-20.04	-	-	-	-	354	287	V
1	* 12.021	35.03	PK3	38.9	-24.5	49.43	-	-	74	-24.57	-	-	17	131	H
	* 12.007	23.45	ADR	38.9	-24.6	37.75	54	-16.25	-	-	-	-	17	131	H
2	* 15.731	46.21	PK3	40.8	-24	63.01	-	-	74	-10.99	-	-	345	103	H
	* 15.721	32.58	ADR	40.8	-24.1	49.28	54	-4.72	-	-	-	-	345	103	H
3	* 17.786	33.27	PK3	41.9	-19.9	55.27	-	-	74	-18.73	-	-	118	330	H
	* 17.78	21.73	ADR	41.9	-19.9	43.73	54	-10.27	-	-	-	-	118	330	H
5	* 12.434	35.08	PK3	39.1	-23.1	51.08	-	-	74	-22.92	-	-	327	126	V
	* 12.423	23.01	ADR	39.1	-23	39.11	54	-14.89	-	-	-	-	327	126	V
6	* 15.73	44.48	PK3	40.8	-24	61.28	-	-	74	-12.72	-	-	309	237	V
	* 15.72	30.07	ADR	40.8	-24.1	46.77	54	-7.23	-	-	-	-	309	237	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK3 - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

9.2.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

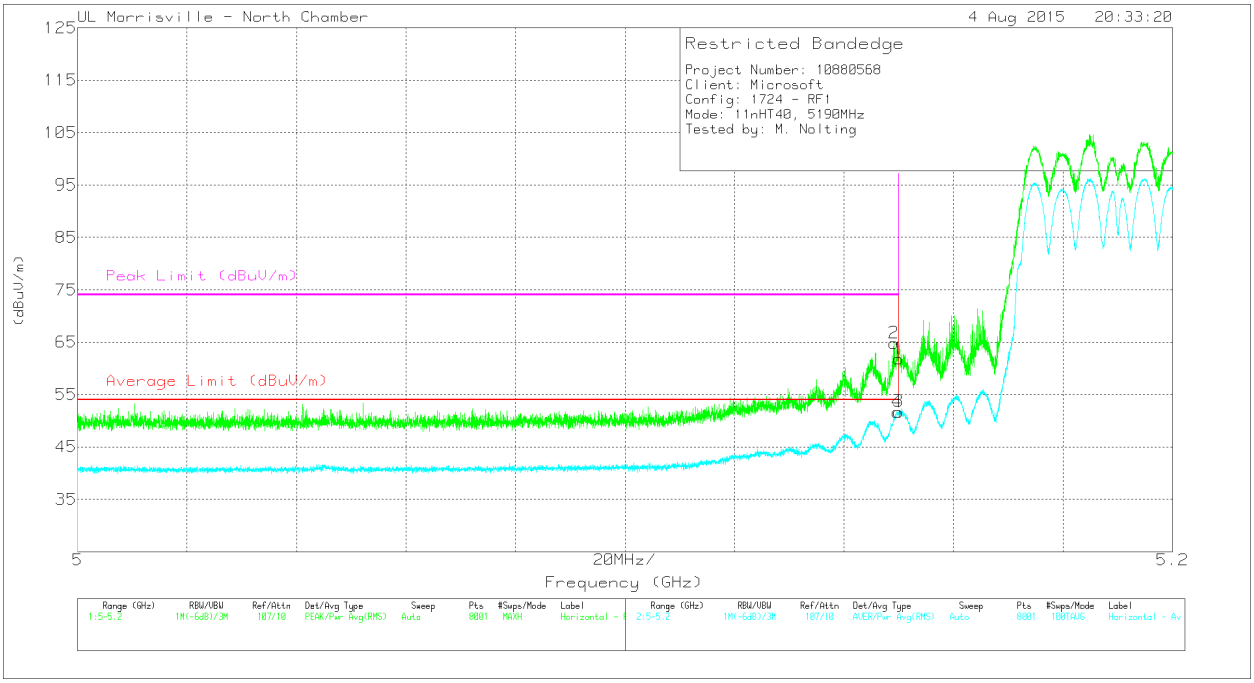
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.15	46.75	Pk	34.3	-21.4	59.65	-	-	74	-14.35	263	205	H
2	*5.149	47.72	Pk	34.3	-21.3	60.72	-	-	74	-13.28	263	205	H
3	*5.15	34.38	RMS	34.3	-21.4	47.28	54	-6.72	-	-	263	205	H
4	*5.15	35.06	RMS	34.3	-21.4	47.96	54	-6.04	-	-	263	205	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL

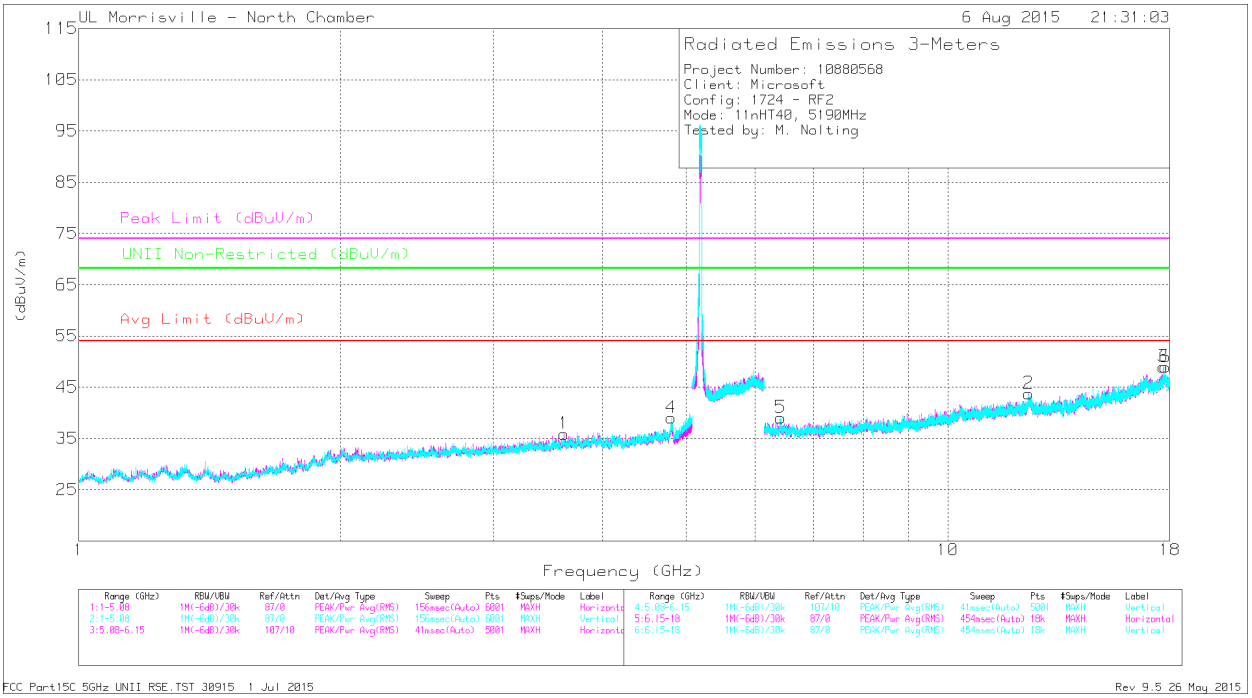


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.15	48.96	Pk	34.3	-21.4	61.86	-	-	74	-12.14	8	281	V
2	*5.149	51.84	Pk	34.3	-21.3	64.84	-	-	74	-9.16	8	281	V
3	*5.15	38.82	RMS	34.3	-21.4	51.72	54	-2.28	-	-	8	281	V
4	*5.15	38.79	RMS	34.3	-21.4	51.69	54	-2.31	-	-	8	281	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.624	40.85	PK3	33.2	-31.5	42.55	-	-	74	-31.45	-	-	344	383	H
	* 3.617	29.44	ADR	33.2	-31.5	31.14	54	-22.86	-	-	-	-	344	383	H
4	* 4.809	42.39	PK3	34.1	-30.2	46.29	-	-	74	-27.71	-	-	50	181	V
	* 4.806	30.98	ADR	34.1	-30.3	34.78	54	-19.22	-	-	-	-	50	181	V
2	* 12.393	34.86	PK3	39.1	-22.9	51.06	-	-	74	-22.94	-	-	247	258	H
	* 12.393	22.98	ADR	39.1	-22.9	39.18	54	-14.82	-	-	-	-	247	258	H
6	* 17.785	33.26	PK3	41.9	-19.9	55.26	-	-	74	-18.74	-	-	146	151	V
	* 17.769	22.05	ADR	41.9	-20.1	43.85	54	-10.15	-	-	-	-	146	151	V
5	6.427	39.58	PK3	35.5	-29.3	45.78	-	-	-	-	68.2	-22.42	4	201	V
3	17.686	35.55	PK3	41.9	-20.8	56.65	-	-	-	-	68.2	-11.55	152	293	H

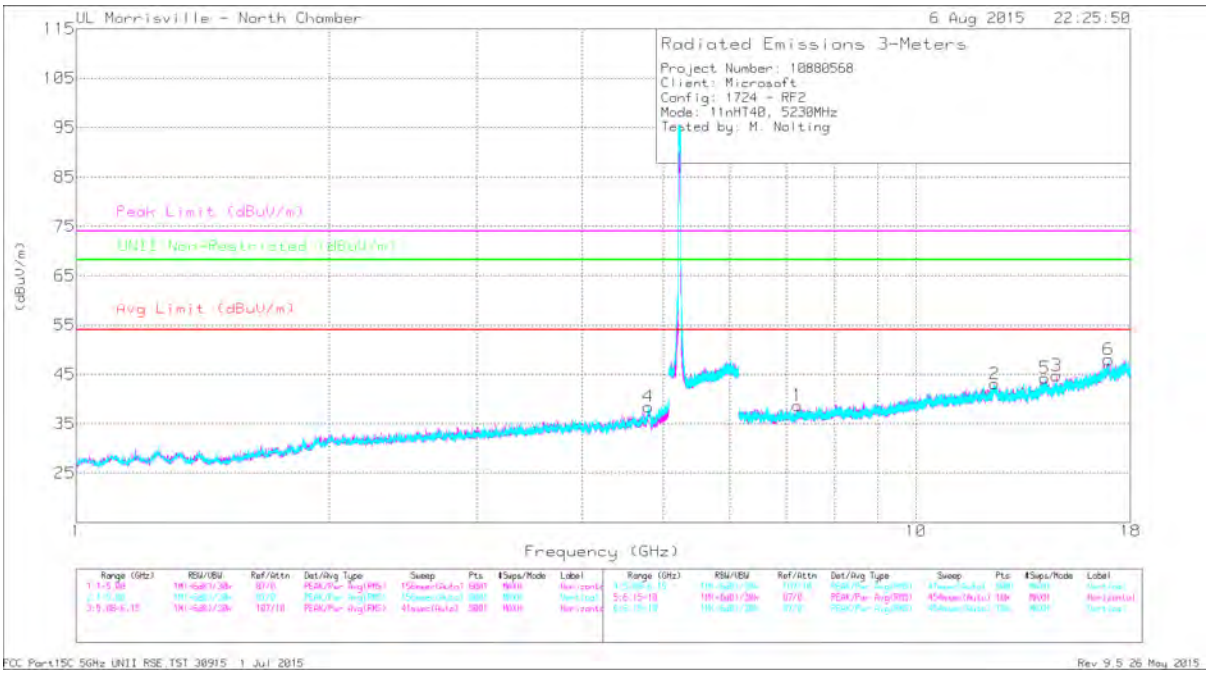
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

PK3 - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



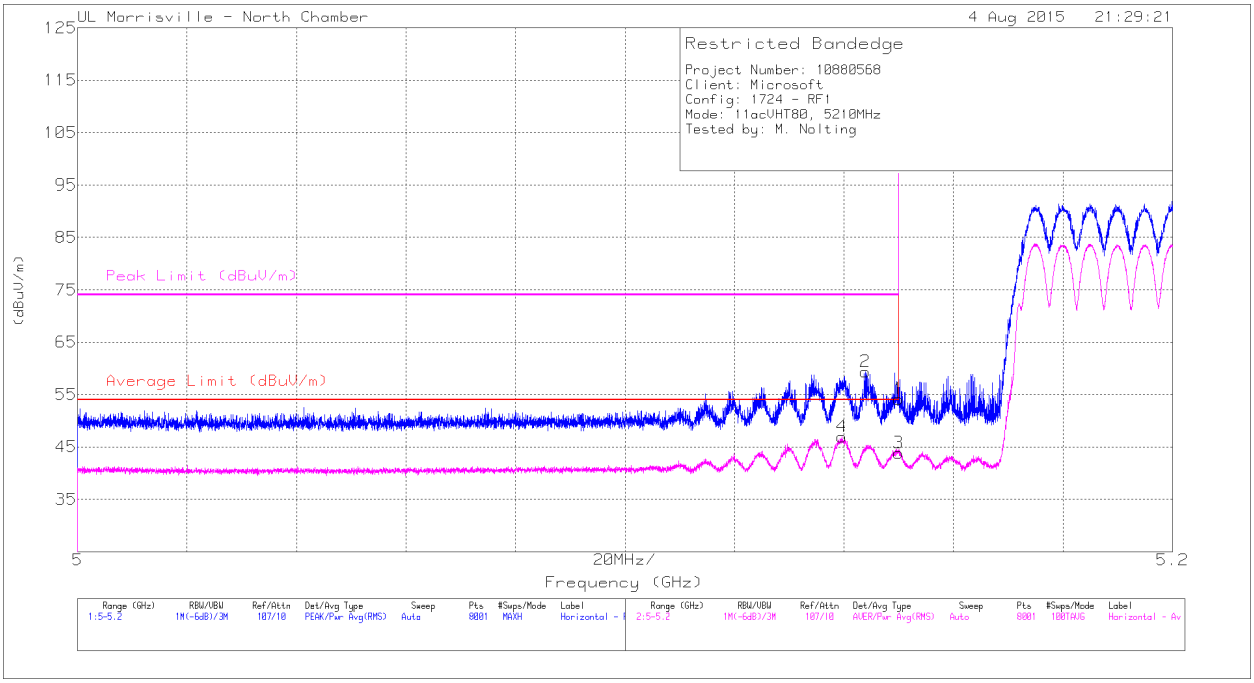
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.81	42.06	PK3	34.1	-30.2	45.96	-	-	74	-28.04	-	-	17	108	V
	* 4.807	30.84	ADR	34.1	-30.3	34.64	54	-19.36	-	-	-	-	17	108	V
2	* 12.408	34.45	PK3	39.1	-23	50.55	-	-	74	-23.45	-	-	254	343	H
	* 12.408	23.07	ADR	39.1	-23	39.17	54	-14.83	-	-	-	-	254	343	H
1	7.228	37.69	PK3	35.7	-28.1	45.29	-	-	-	-	68.2	-22.91	110	179	H
5	14.241	36.38	PK3	39.4	-24.4	51.38	-	-	-	-	68.2	-16.82	97	300	V
3	14.707	36.83	PK3	39.8	-24.8	51.83	-	-	-	-	68.2	-16.37	137	212	H
6	16.96	35.05	PK3	42.2	-22.2	55.05	-	-	-	-	68.2	-13.15	0	177	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
PK3 - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

9.2.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

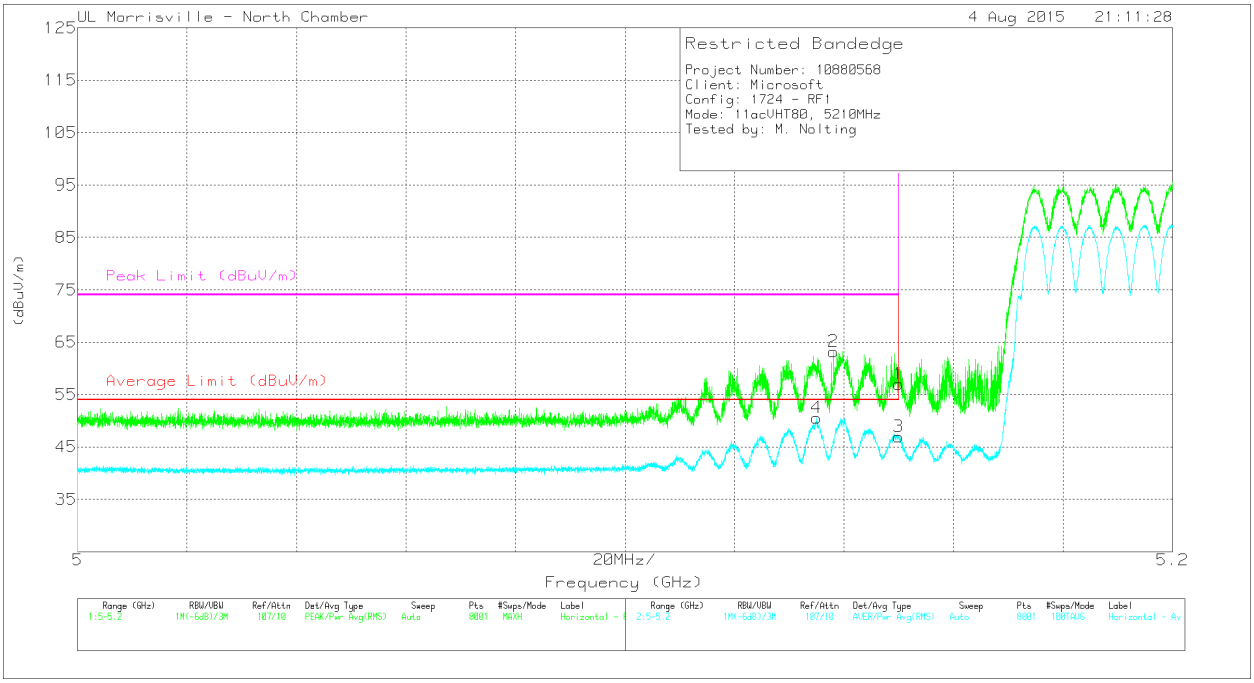
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.28	Pk	34.3	-21.4	54.18	-	-	74	-19.82	261	185	H
2	* 5.144	46.36	Pk	34.3	-21.3	59.36	-	-	74	-14.64	261	185	H
3	* 5.15	30.92	RMS	34.3	-21.4	43.82	54	-10.18	-	-	261	185	H
4	* 5.14	33.93	RMS	34.3	-21.3	46.93	54	-7.07	-	-	261	185	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.07	Pk	34.3	-21.4	56.97	-	-	74	-17.03	14	284	V
2	* 5.138	50.22	Pk	34.3	-21.3	63.22	-	-	74	-10.78	14	284	V
3	* 5.15	34.06	RMS	34.3	-21.4	46.96	54	-7.04	-	-	14	284	V
4	* 5.135	37.66	RMS	34.3	-21.4	50.56	54	-3.44	-	-	14	284	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
Pk - Peak detector
RMS - RMS detection