

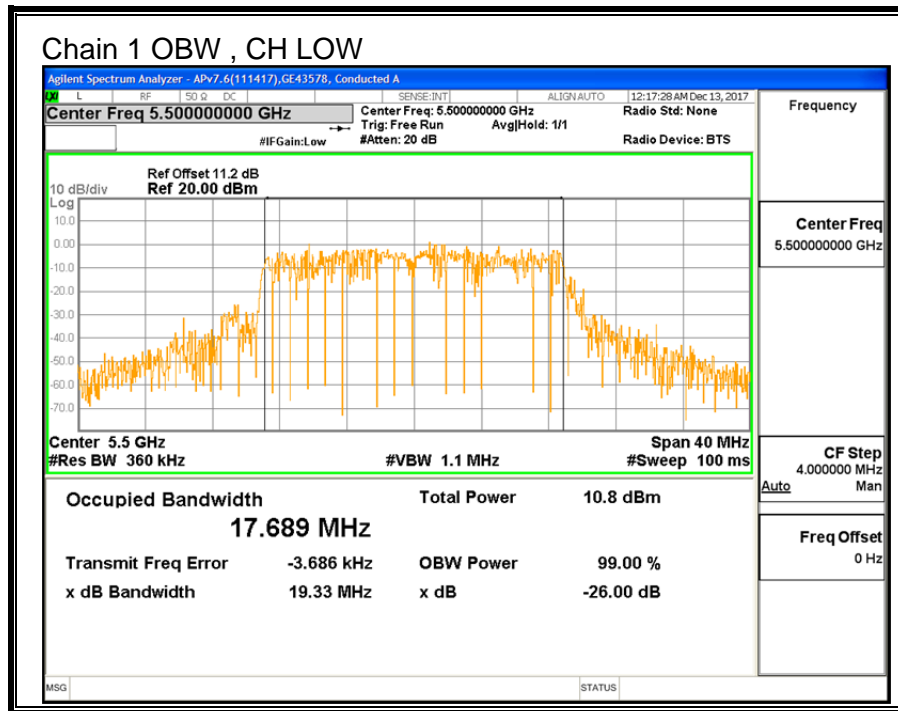
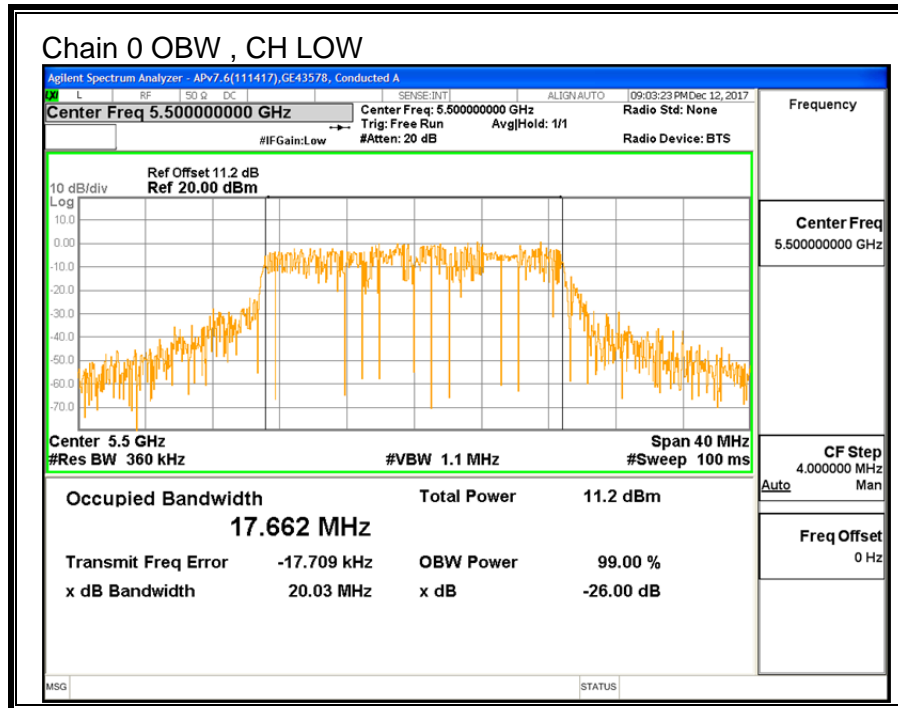
9.10.2. 99% BANDWIDTH

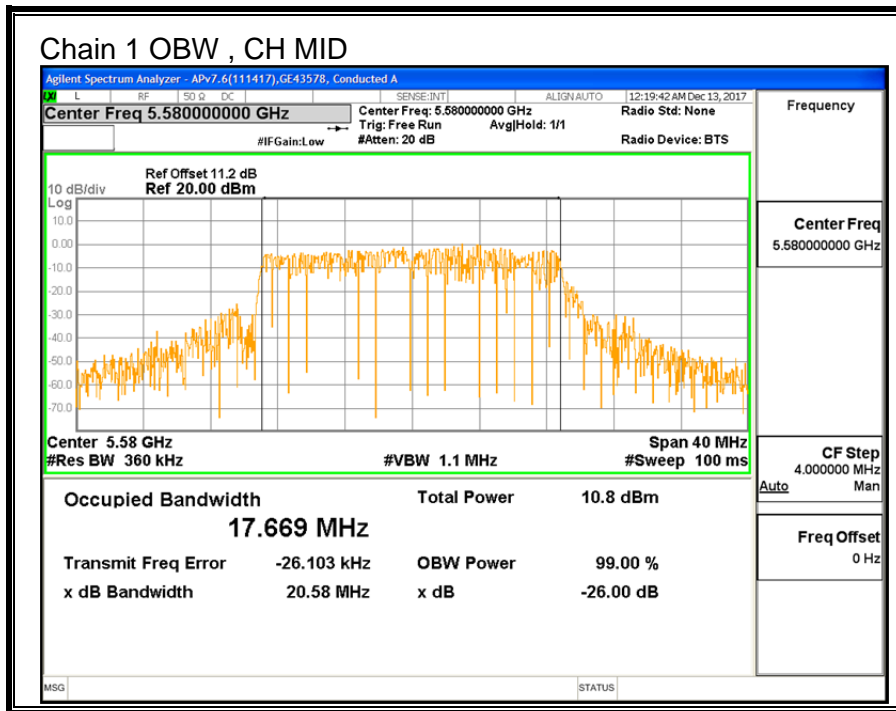
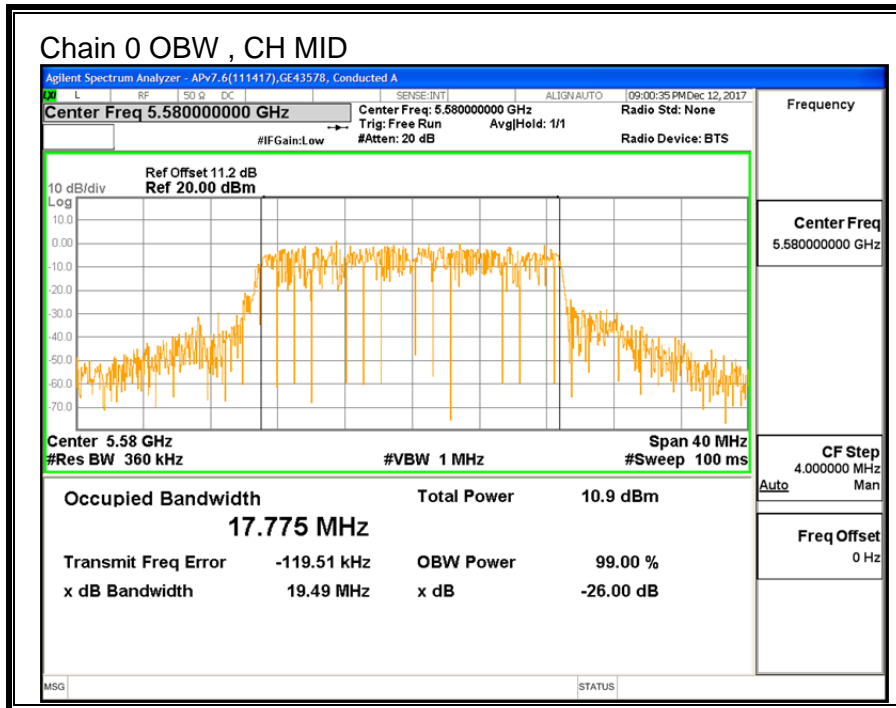
LIMITS

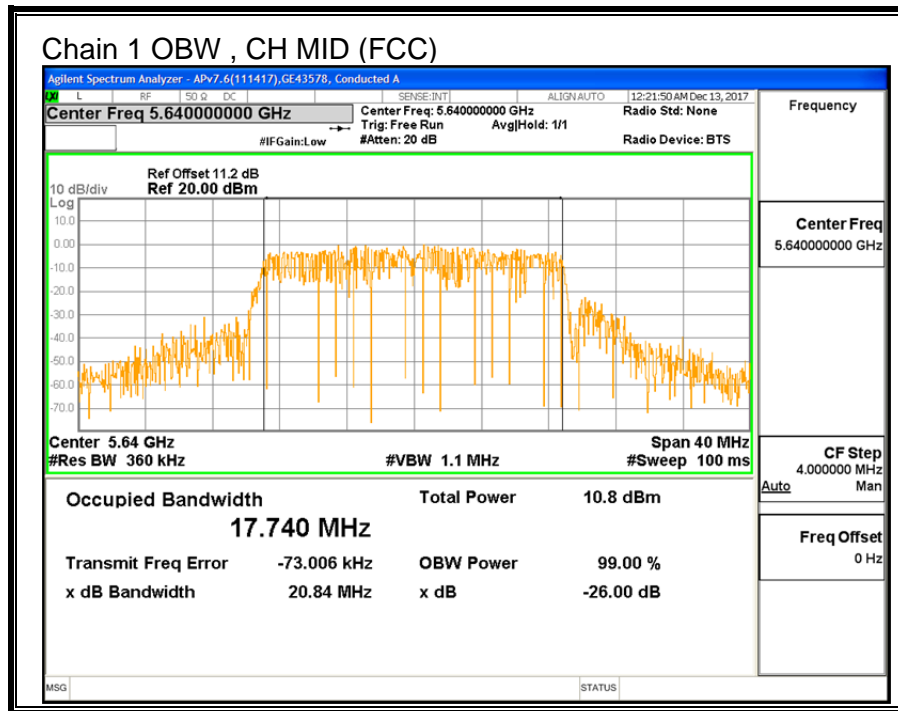
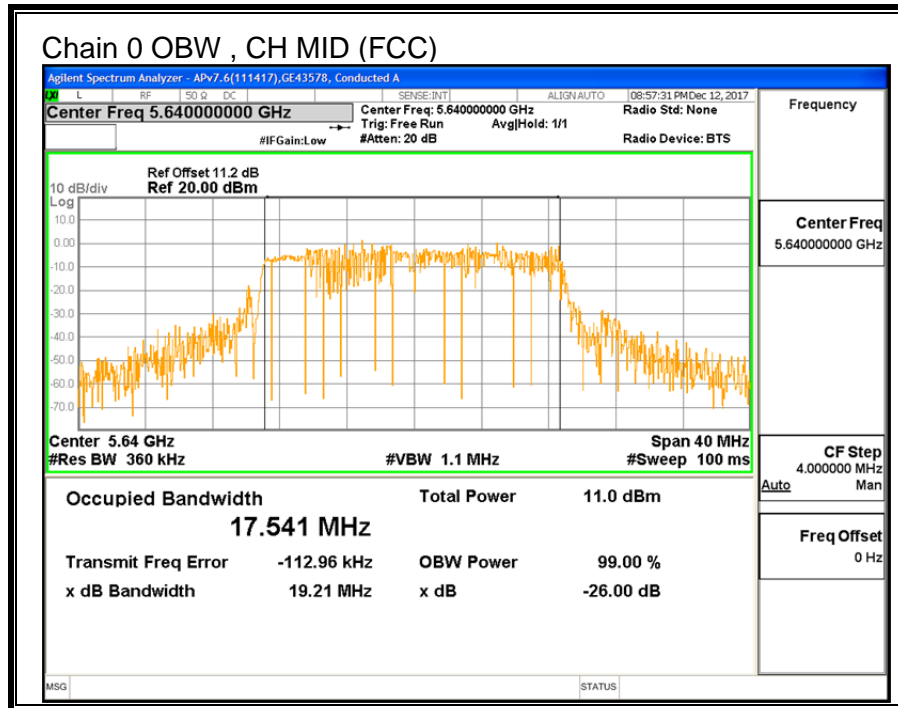
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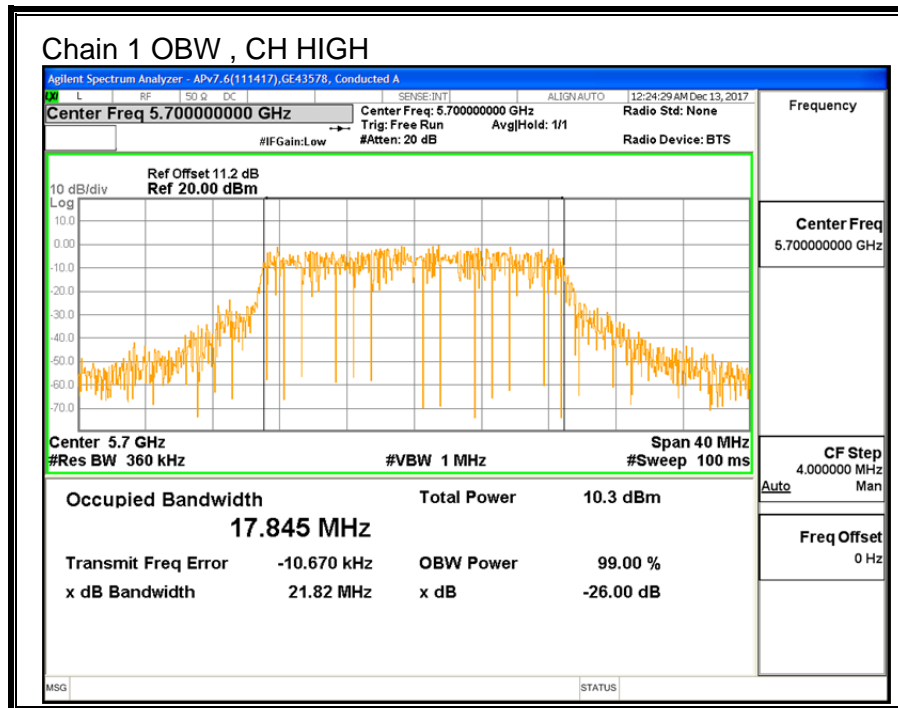
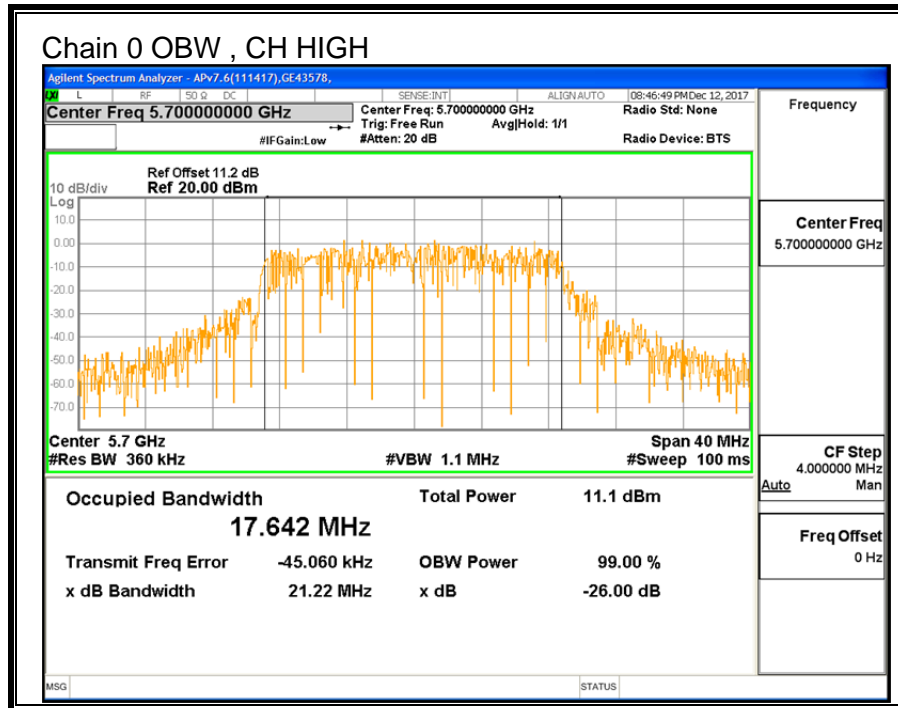
RESULTS

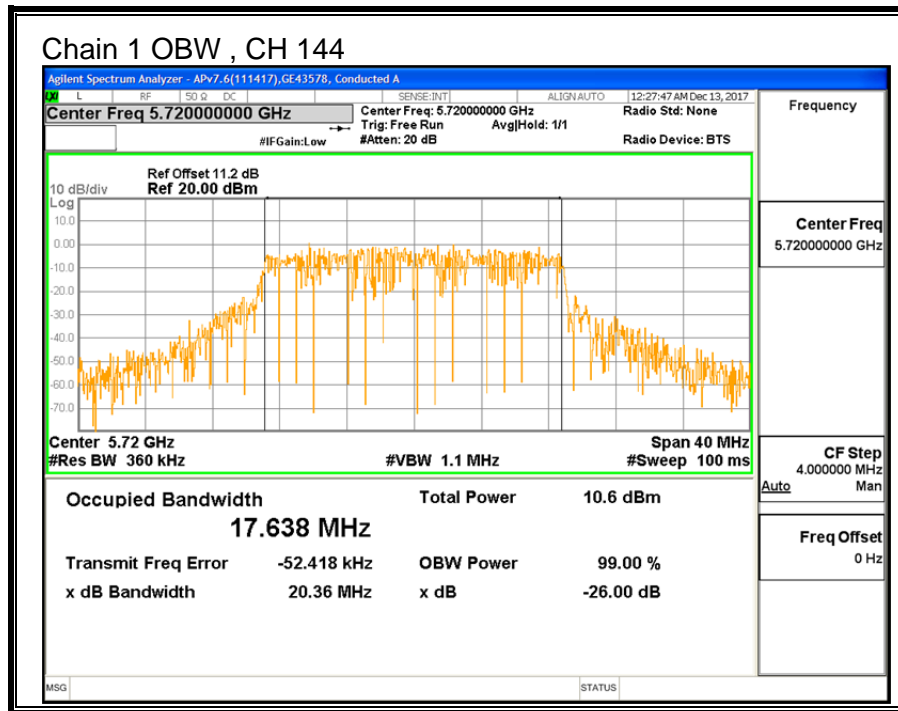
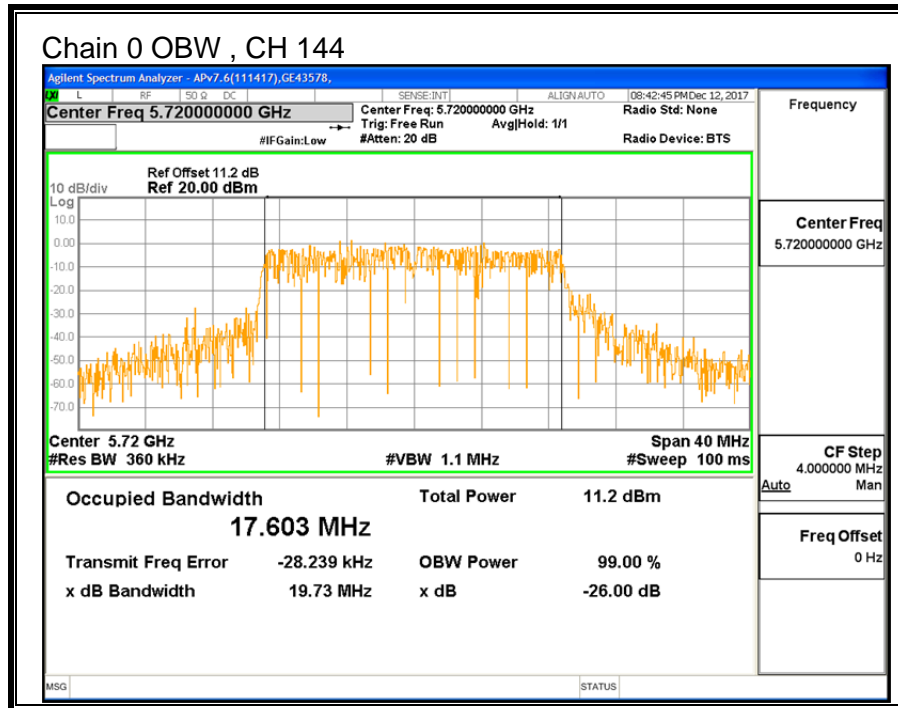
Channel	Frequency	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5500	17.662	17.689
Mid	5580	17.775	17.669
Mid (FCC)	5640	17.541	17.740
High	5700	17.642	17.845
144	5720	17.603	17.638











9.10.3. OUTPUT POWER AND PPSD

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.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

5470-5725 MHz

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-2.80	-5.70	-4.01

For PSD the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

5470-5725 MHz

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
-2.80	-5.70	-1.12

RESULTS

ID:	GE43578	Date:	12/12/17
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Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5500	21.90	17.662	-4.01	-1.12
Mid	5580	21.75	17.669	-4.01	-1.12
Mid (FCC)	5640	21.85	17.541	-4.01	-1.12
High	5700	21.90	17.642	-4.01	-1.12
144	5720	21.80	17.603	-4.01	-1.12

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5500	24.00	23.47	29.47	23.47	11.00	11.00	11.00
Mid	5580	24.00	23.47	29.47	23.47	11.00	11.00	11.00
Mid (FCC)	5640	24.00	23.44	29.44	23.44	11.00	11.00	11.00
High	5700	24.00	23.47	29.47	23.47	11.00	11.00	11.00
144	5720	24.00	23.46	29.46	23.46	11.00	11.00	11.00

Duty Cycle CF (dB)	0.11	Included in Calculations of Corr'd PPSD
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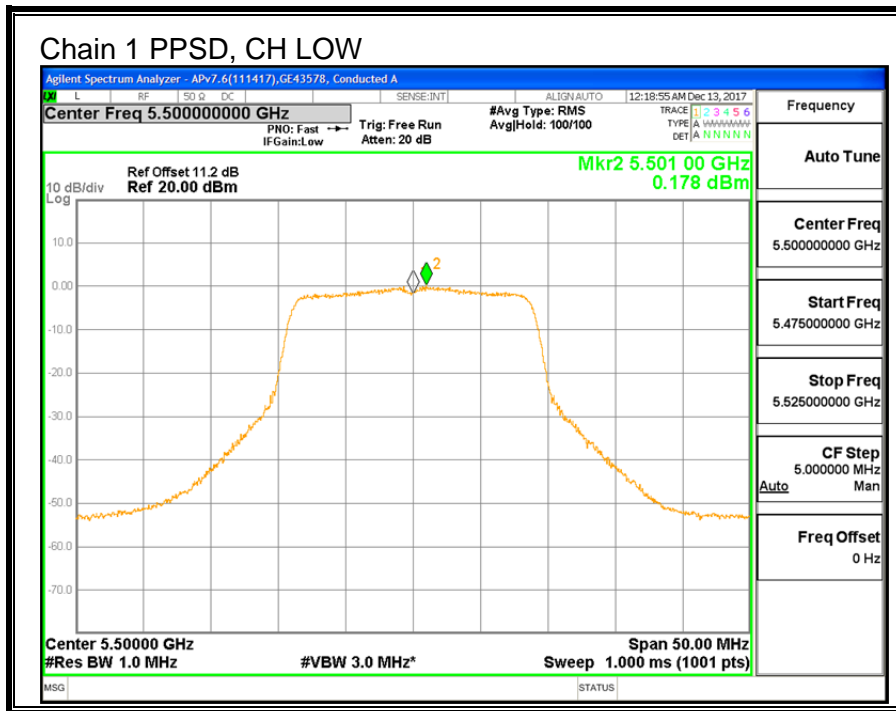
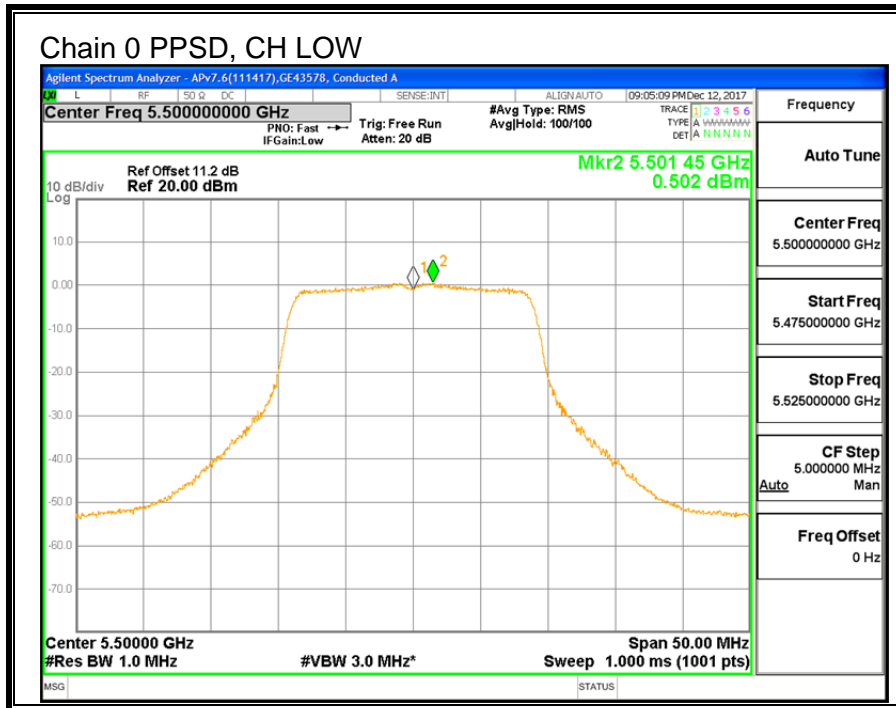
Output Power Results

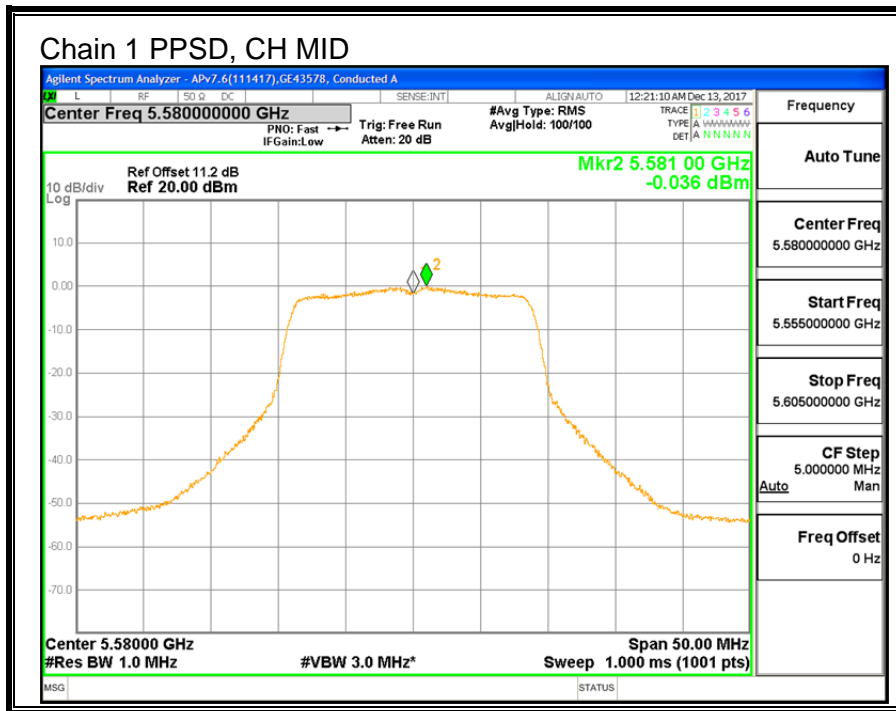
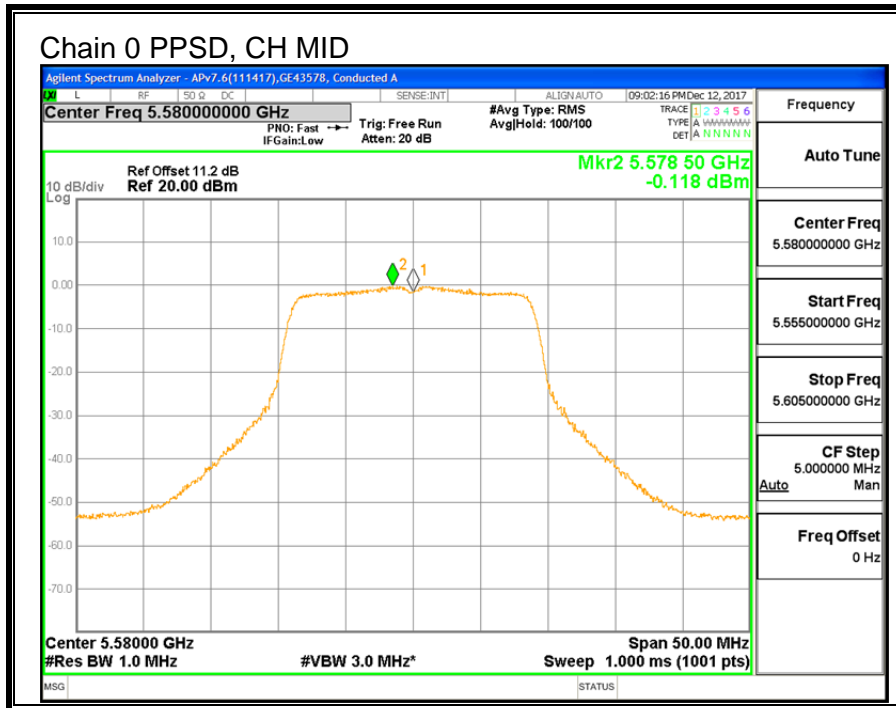
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	11.02	10.34	13.70	23.47	-9.77
Mid	5580	10.90	10.49	13.71	23.47	-9.76
Mid (FCC)	5640	10.70	10.48	13.60	23.44	-9.84
High	5700	11.22	10.52	13.89	23.47	-9.57
144	5720	11.11	10.53	13.84	23.46	-9.62

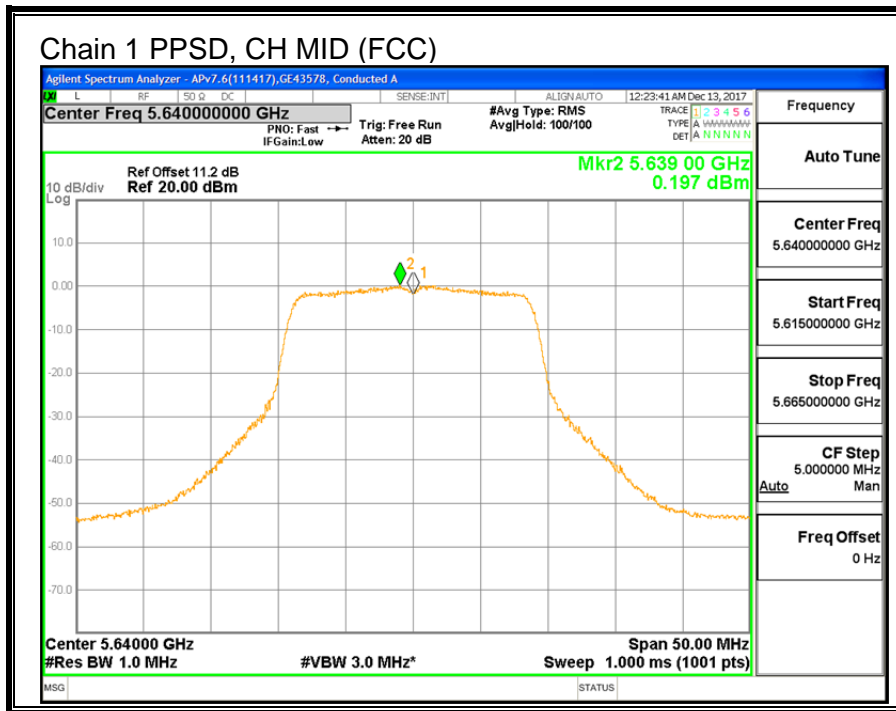
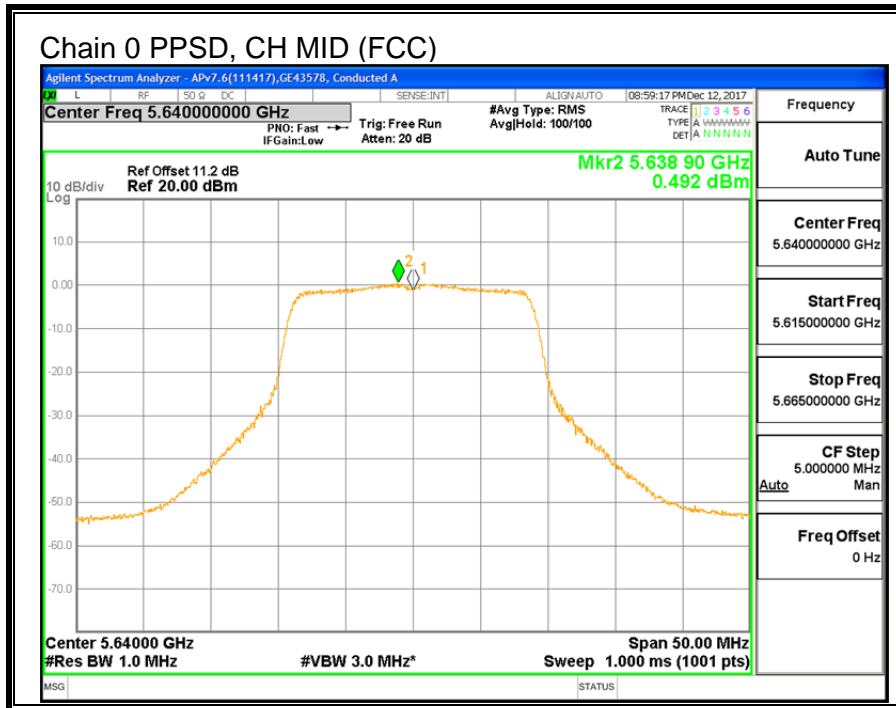
PPSD Results

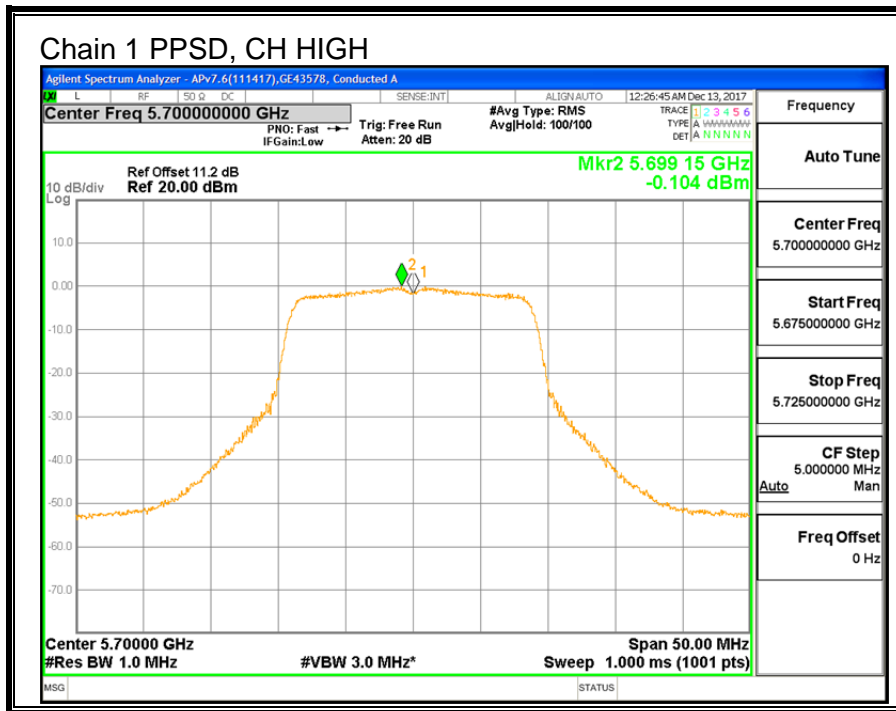
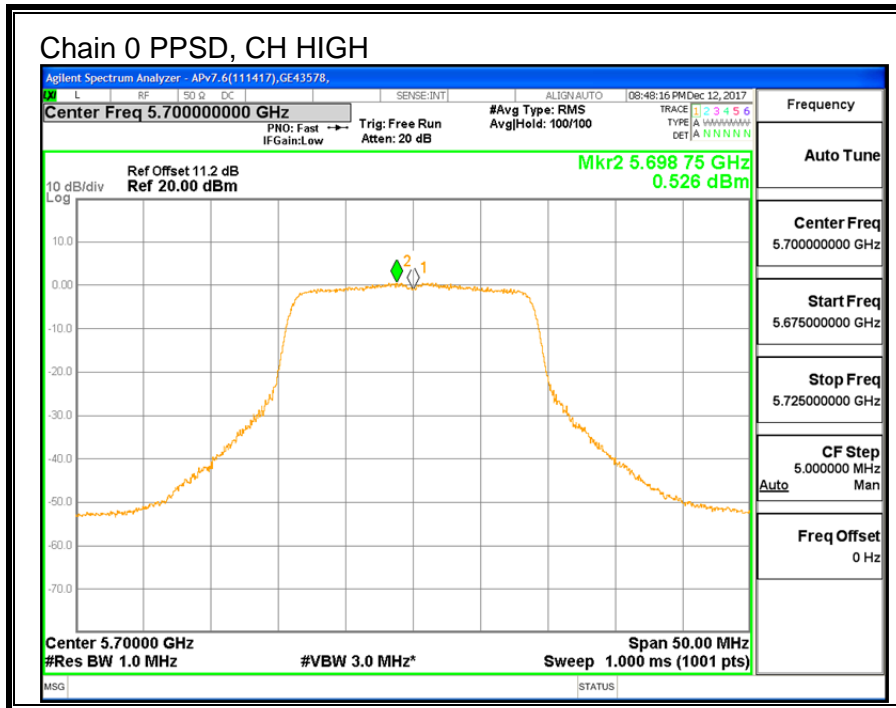
Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5500	0.502	0.178	3.46	11.00	-7.54
Mid	5580	-0.118	-0.036	3.04	11.00	-7.96
Mid (FCC)	5640	0.492	0.197	3.47	11.00	-7.53
High	5700	0.526	-0.104	3.34	11.00	-7.66
144	5720	0.684	0.345	3.64	11.00	-7.36

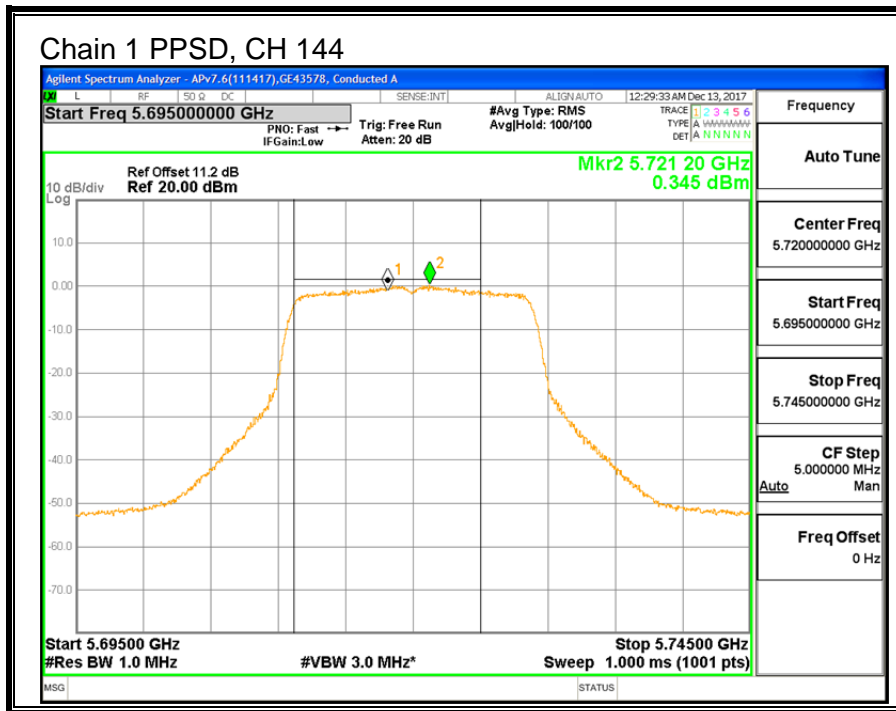
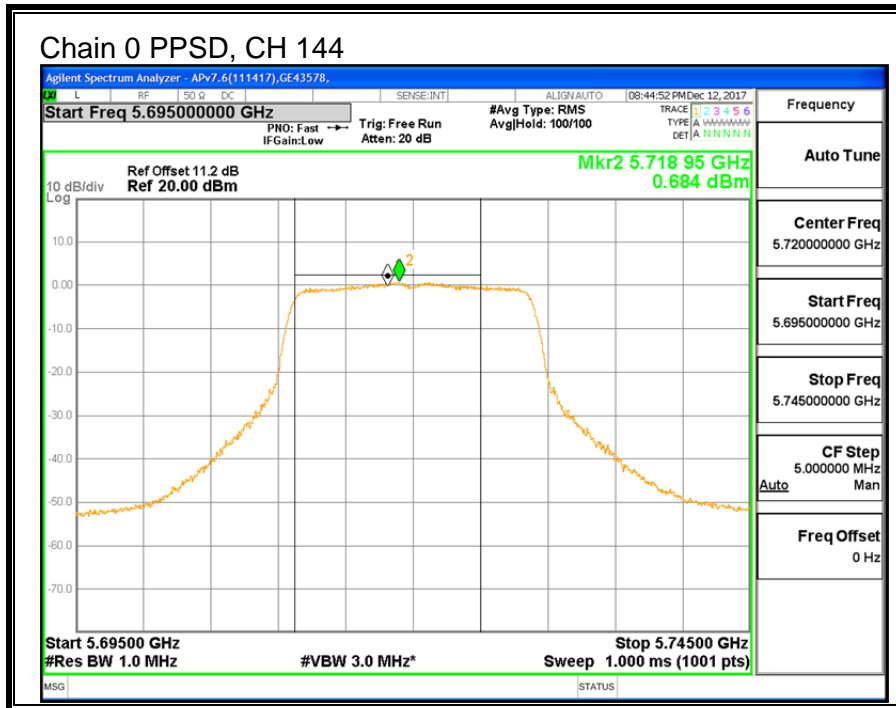
Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.











9.11. 11n HT40 2TX CDD MIMO MODE IN THE 5.6GHz BAND

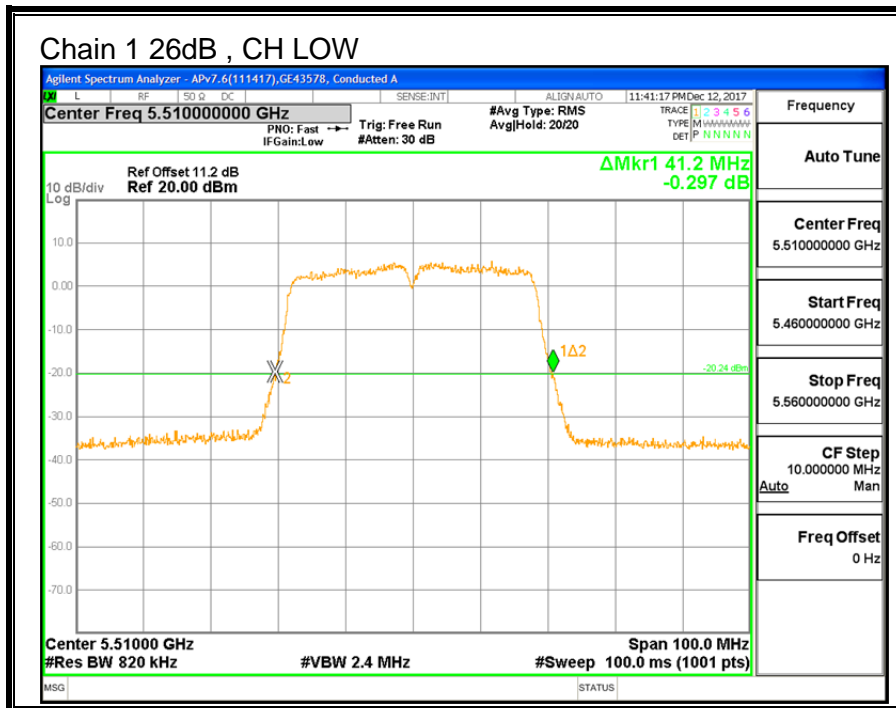
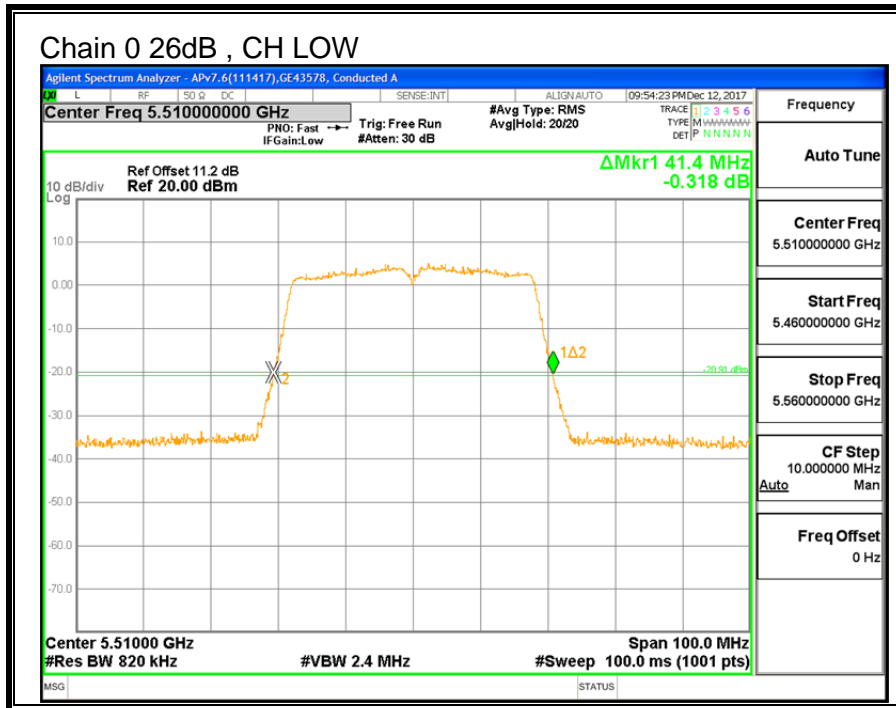
9.11.1. 26 dB BANDWIDTH

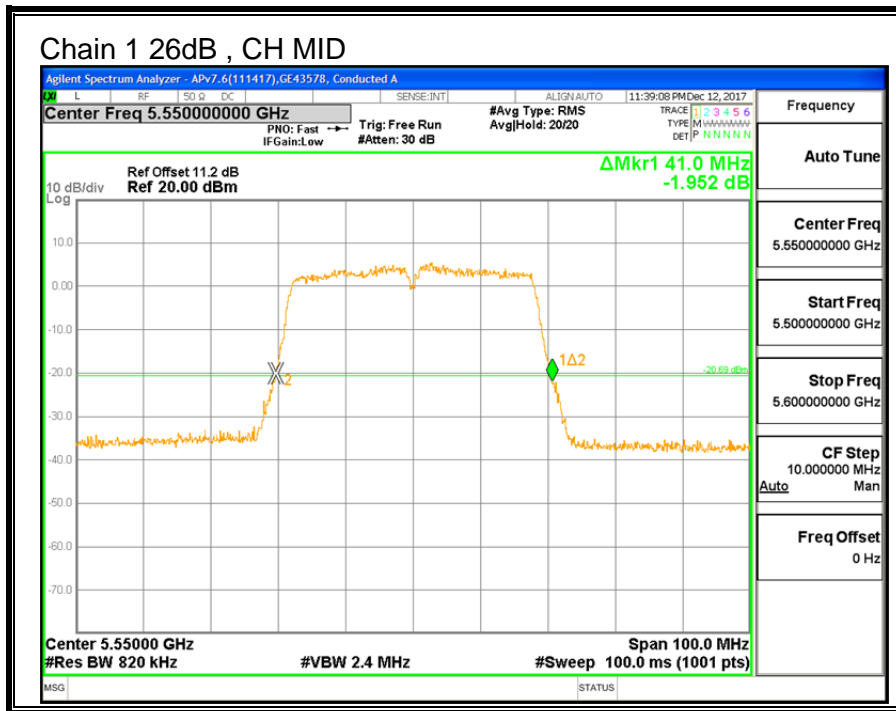
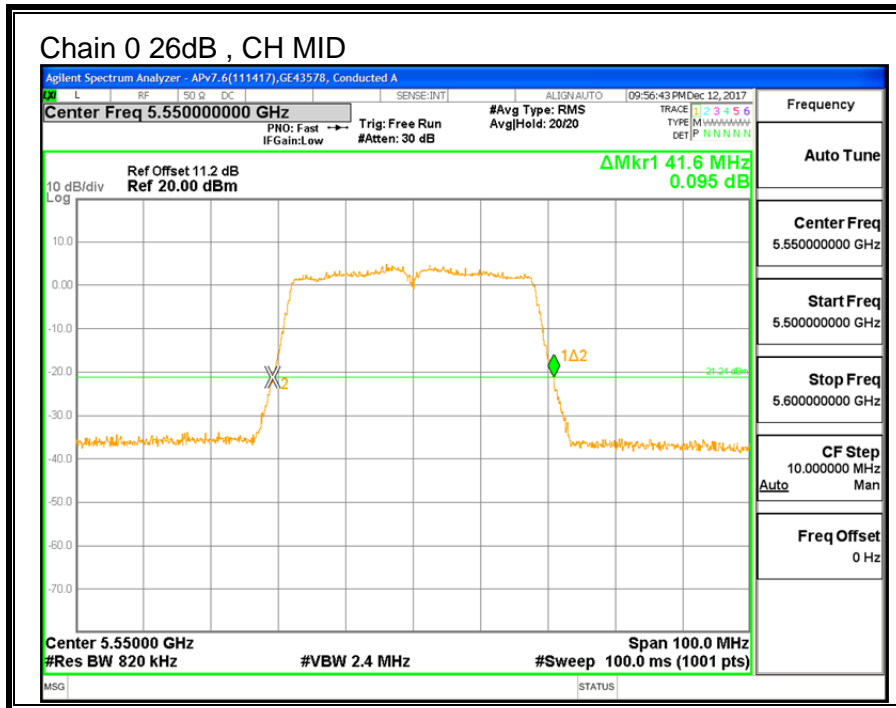
LIMITS

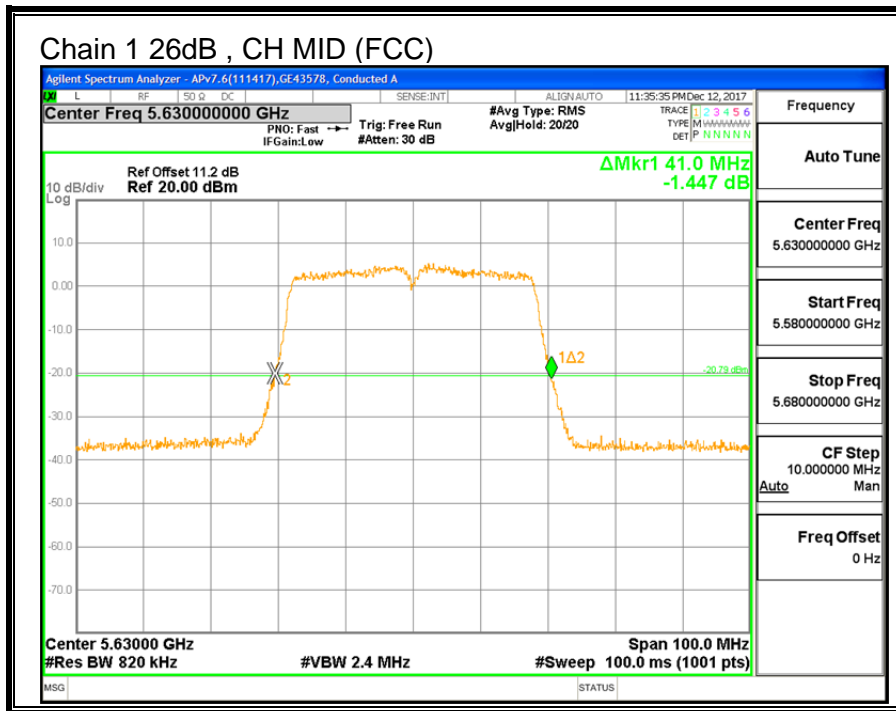
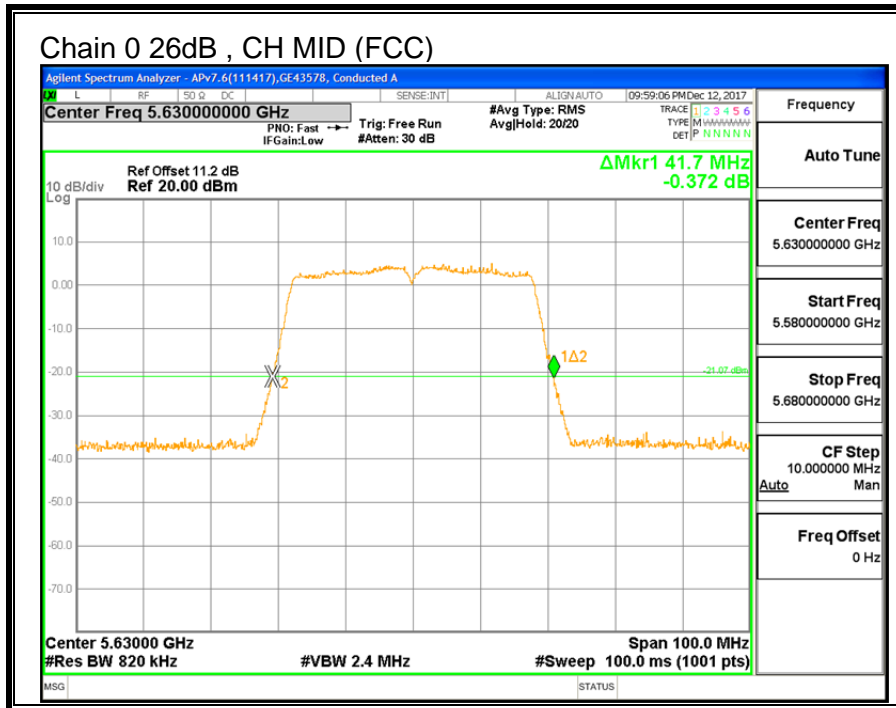
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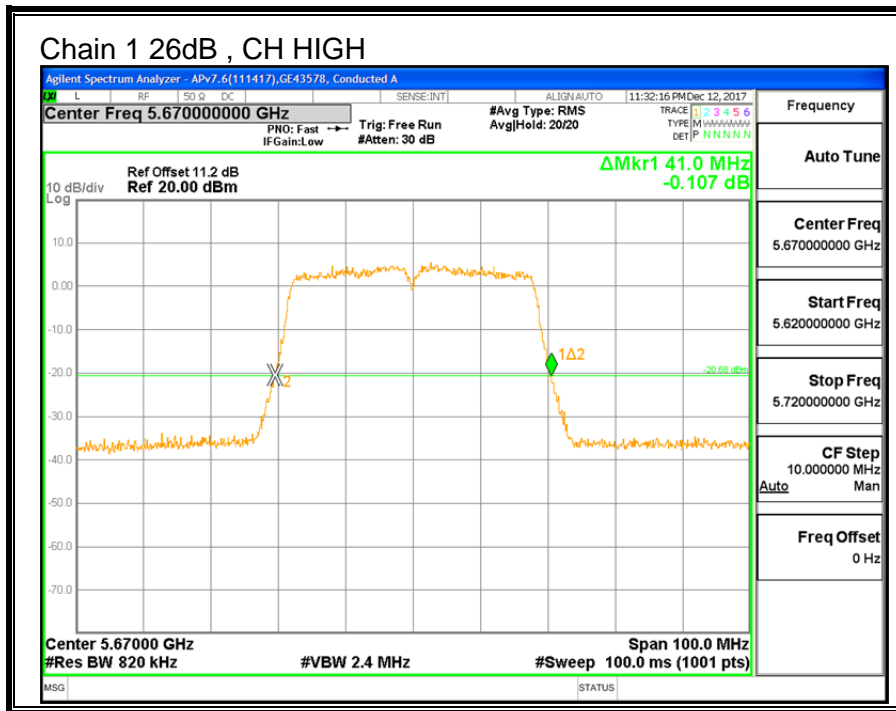
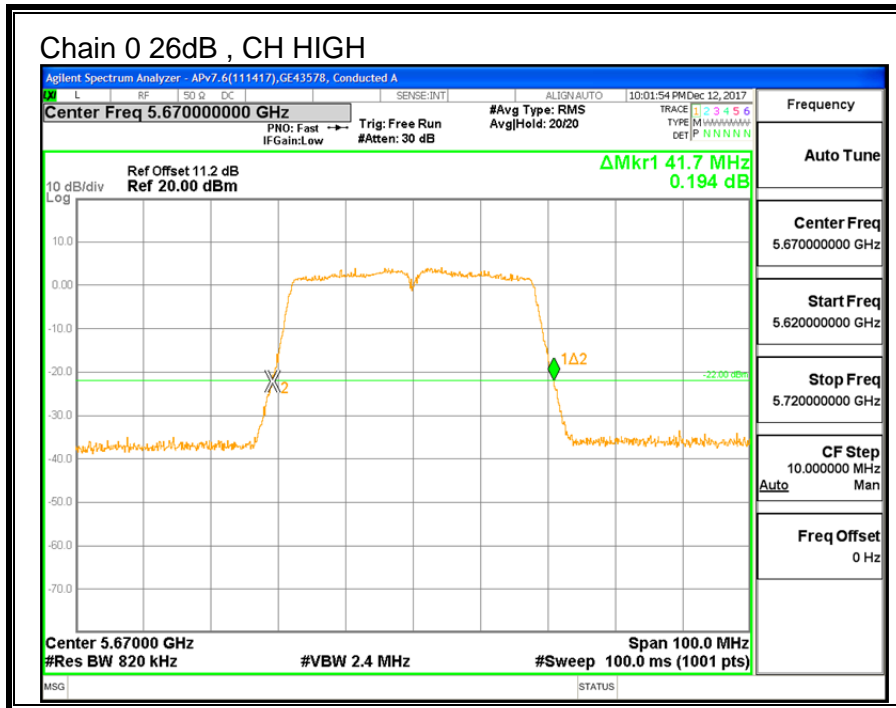
RESULTS

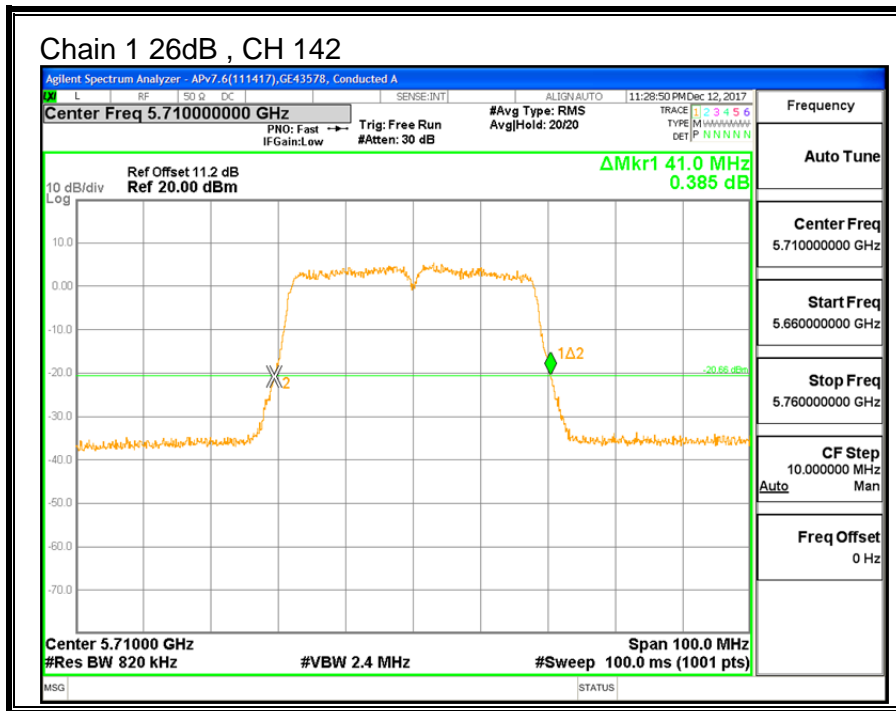
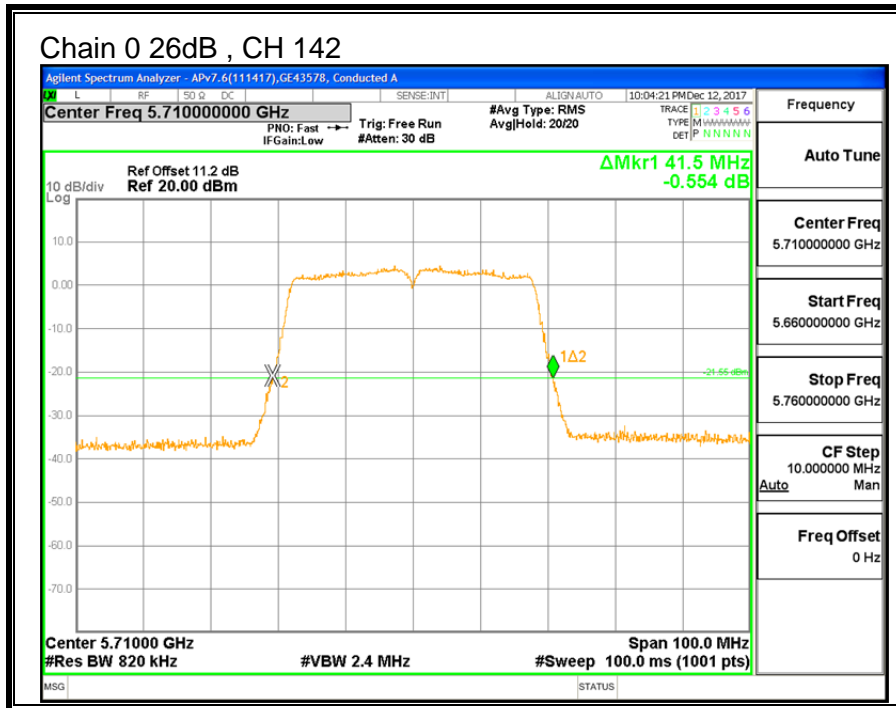
Channel	Frequency	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5510	41.4	41.2
Mid	5550	41.6	41.0
Mid (FCC)	5630	41.7	41.0
High	5670	41.7	41.0
142	5710	41.5	41.0











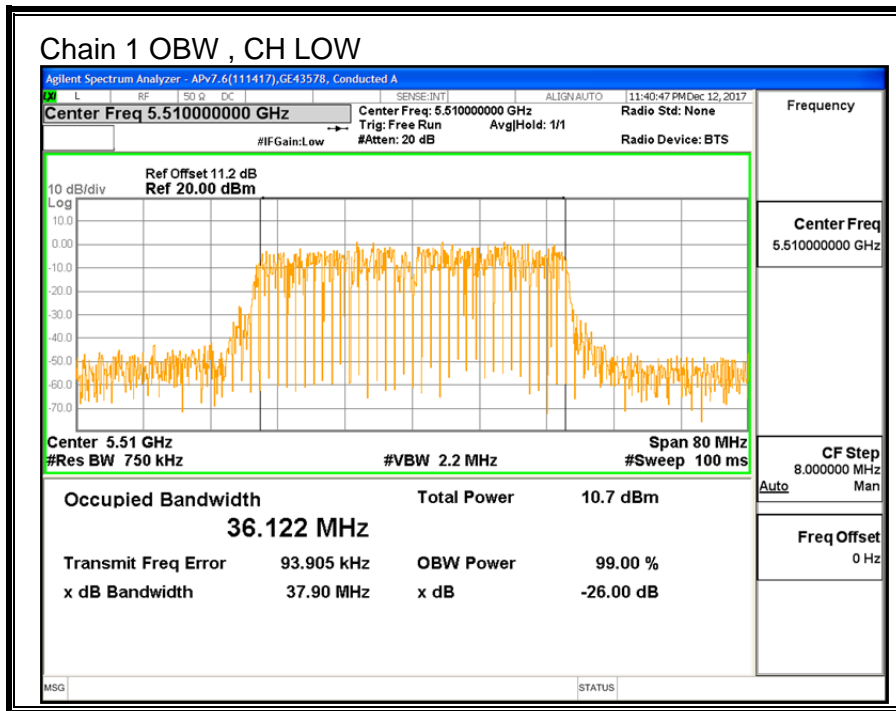
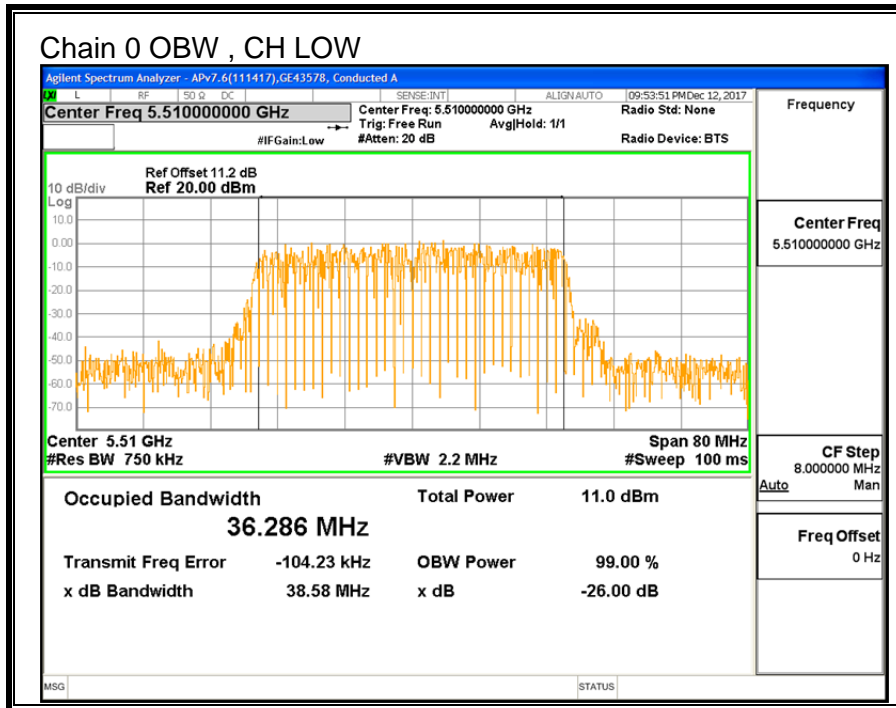
9.11.2. 99% BANDWIDTH

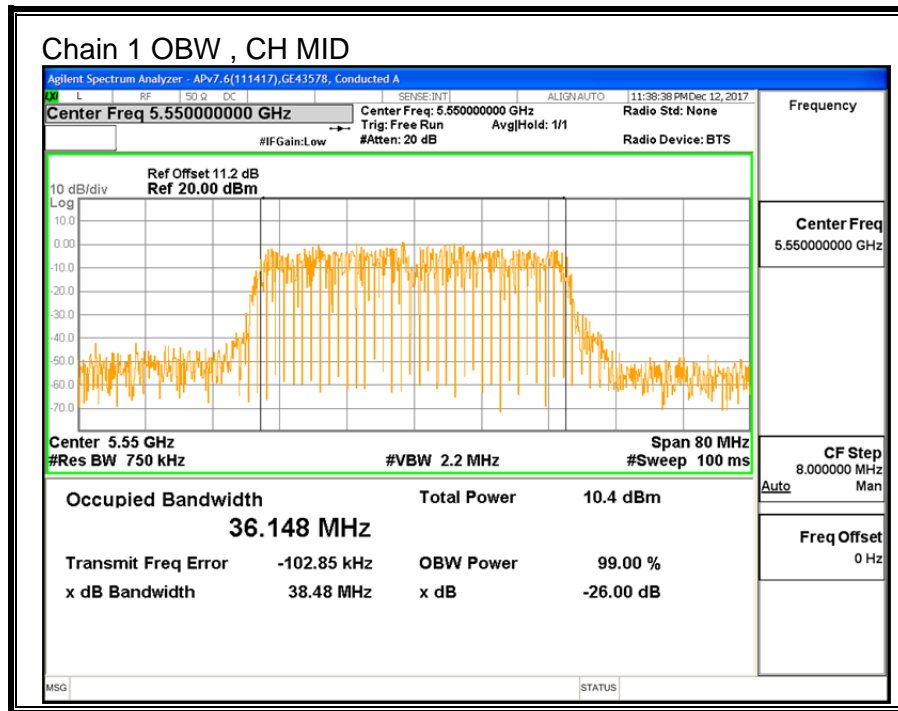
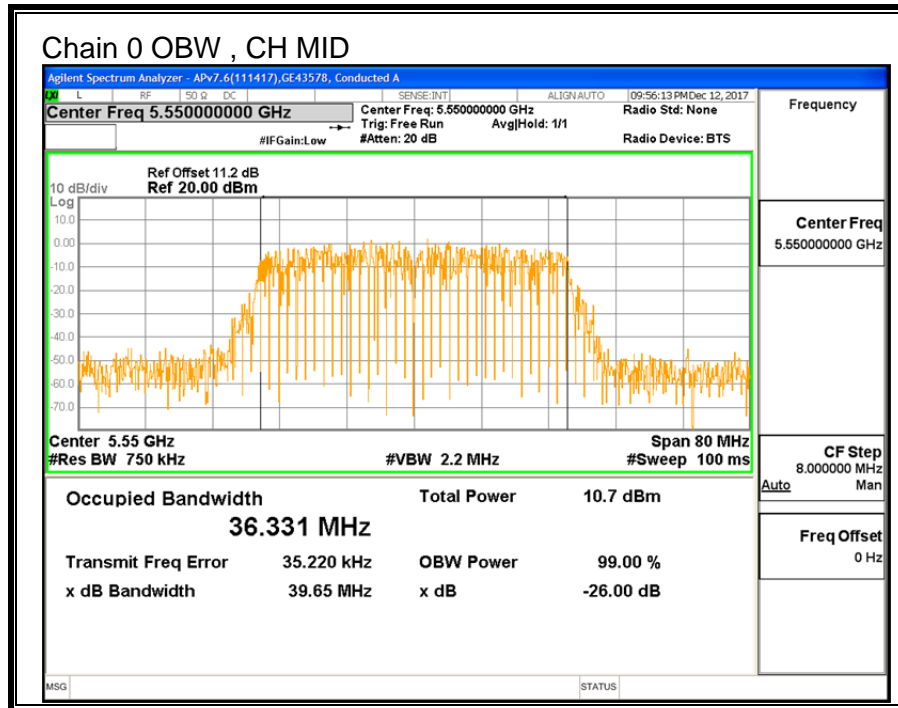
LIMITS

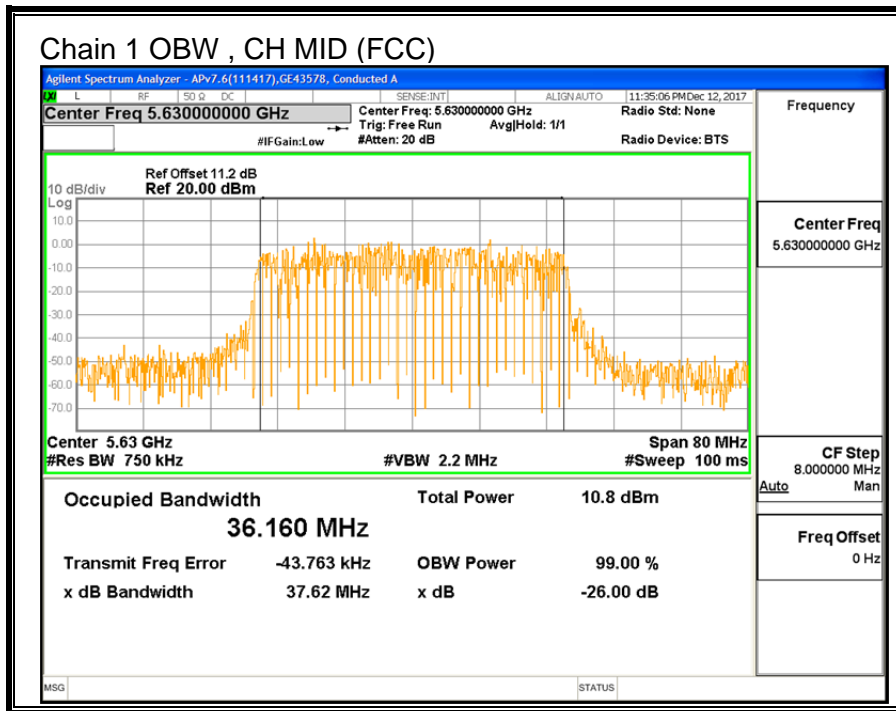
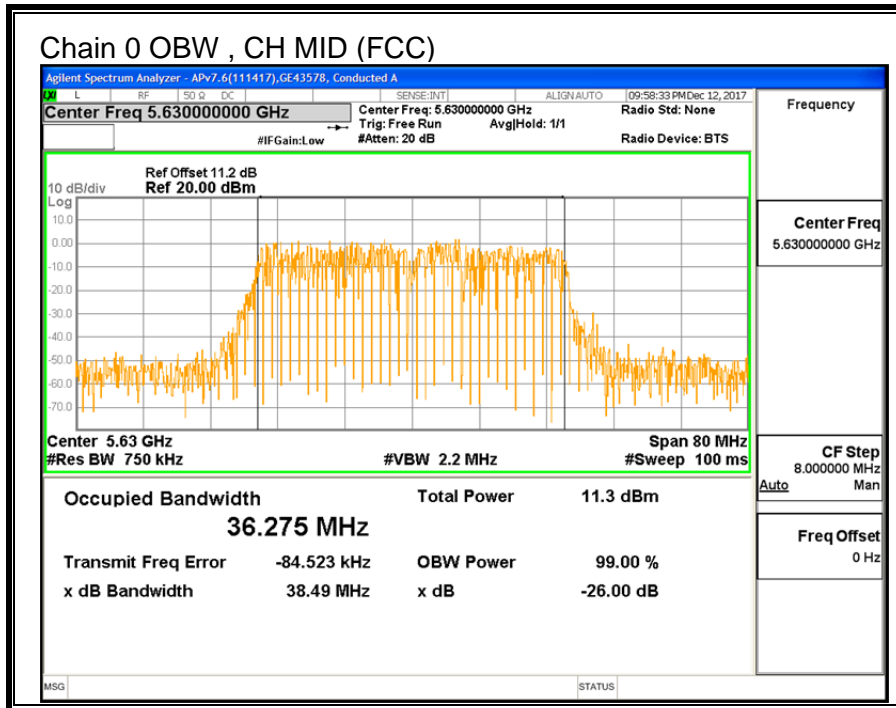
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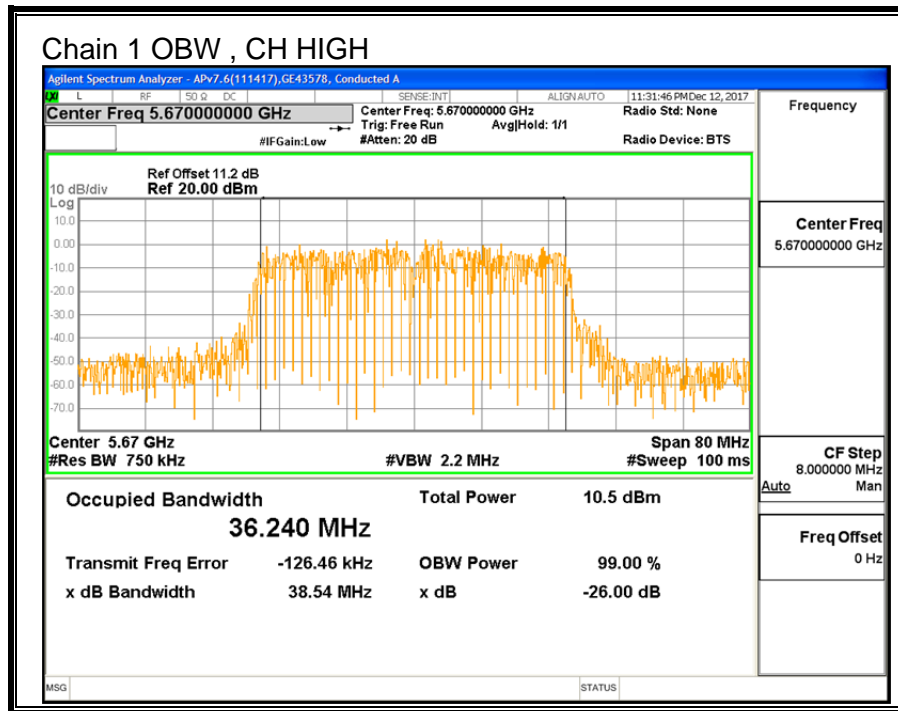
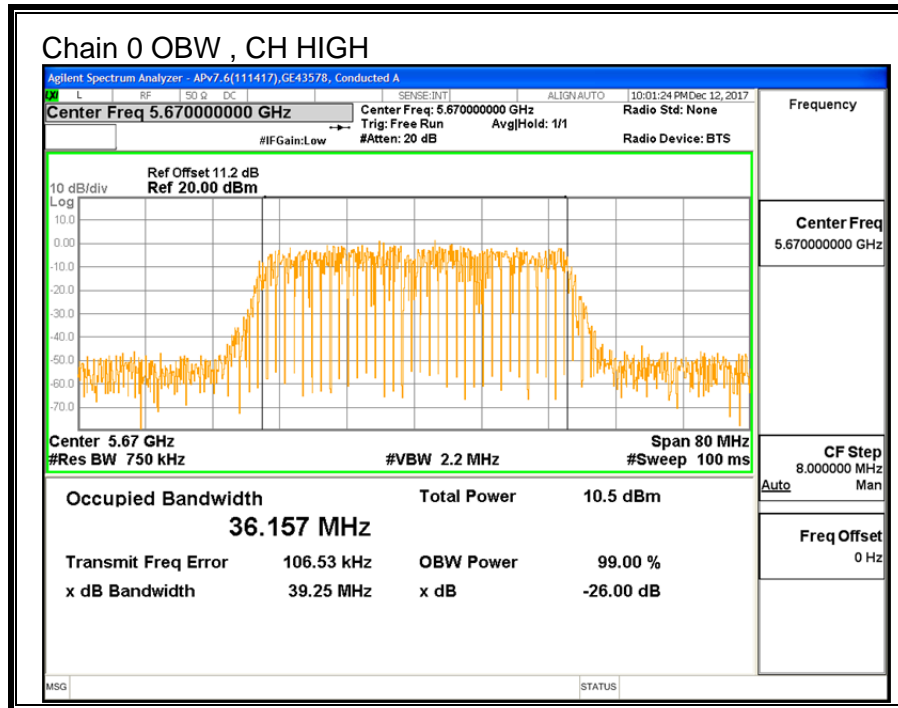
RESULTS

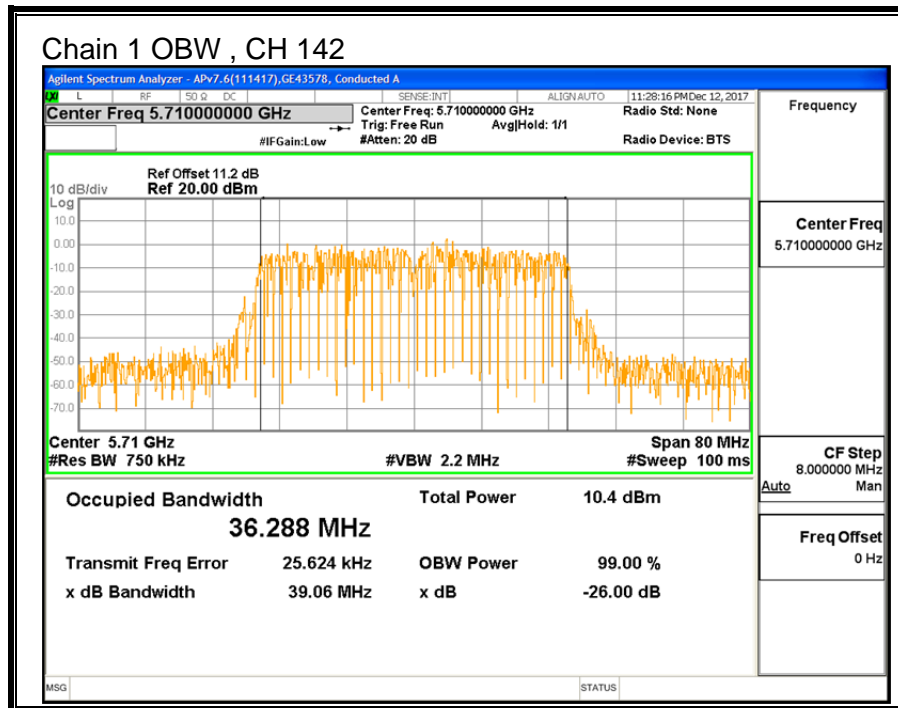
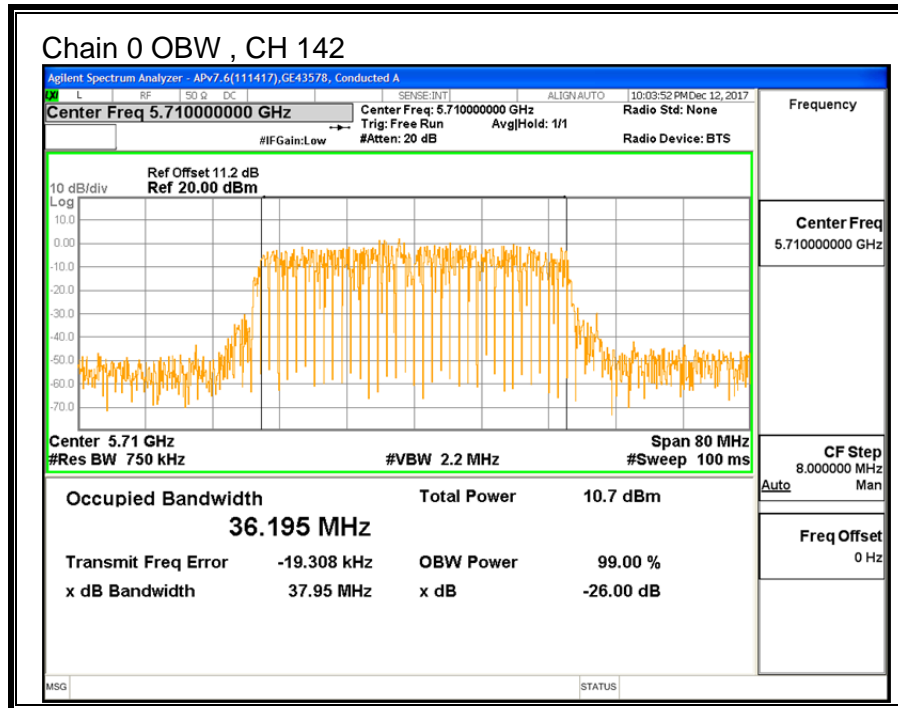
Channel	Frequency	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5510	36.286	36.122
Mid	5550	36.331	36.148
Mid (FCC)	5630	36.275	36.160
High	5670	36.157	36.240
142	5710	36.195	36.288











9.11.3. OUTPUT POWER AND PPSD

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.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

5470-5725 MHz

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-2.80	-5.70	-4.01

For PSD the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

5470-5725 MHz

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
-2.80	-5.70	-1.12

RESULTS

ID:	GE43578	Date:	12/12/17
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Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5510	41.20	36.122	-4.01	-1.12
Mid	5550	41.00	36.148	-4.01	-1.12
Mid (FCC)	5630	41.00	36.160	-4.01	-1.12
High	5670	41.00	36.157	-4.01	-1.12
142	5710	41.00	36.195	-4.01	-1.12

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5510	24.00	24.00	30.00	24.00	11.00	11.00	11.00
Mid	5550	24.00	24.00	30.00	24.00	11.00	11.00	11.00
Mid (FCC)	5630	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5670	24.00	24.00	30.00	24.00	11.00	11.00	11.00
142	5710	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	0.39	Included in Calculations of Corr'd PPSD
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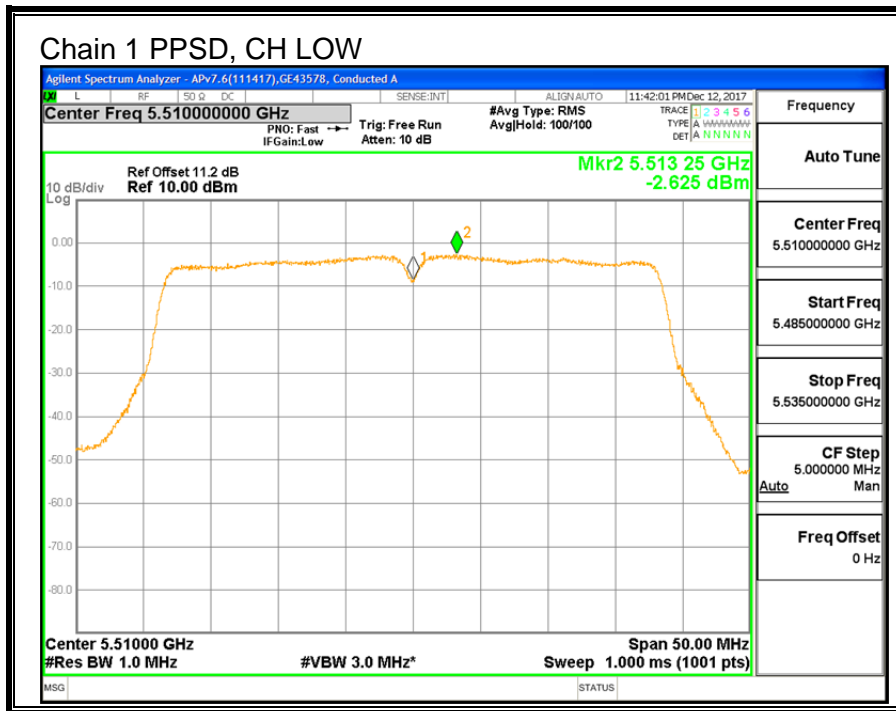
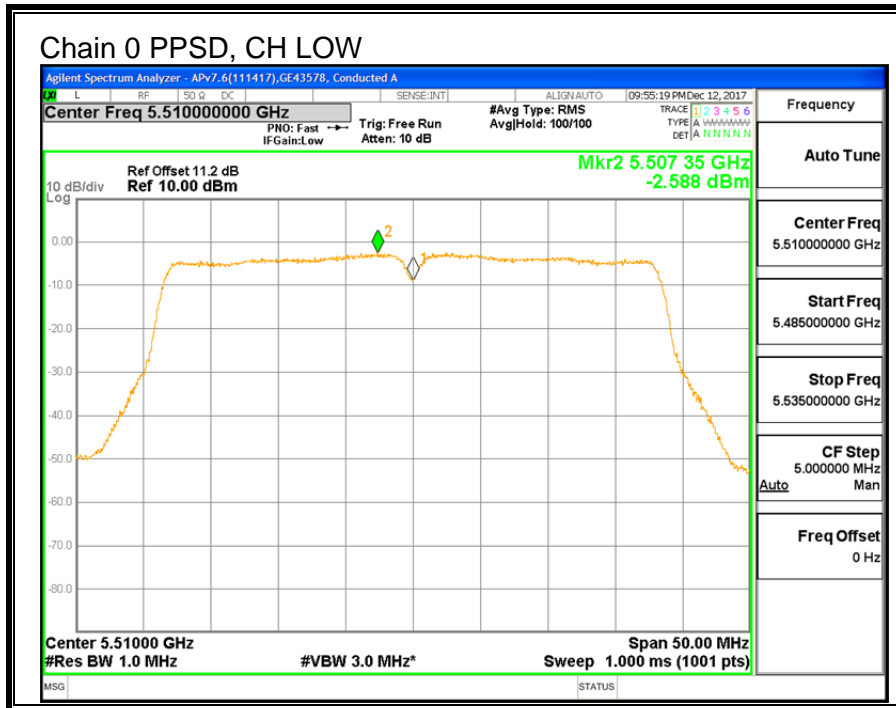
Output Power Results

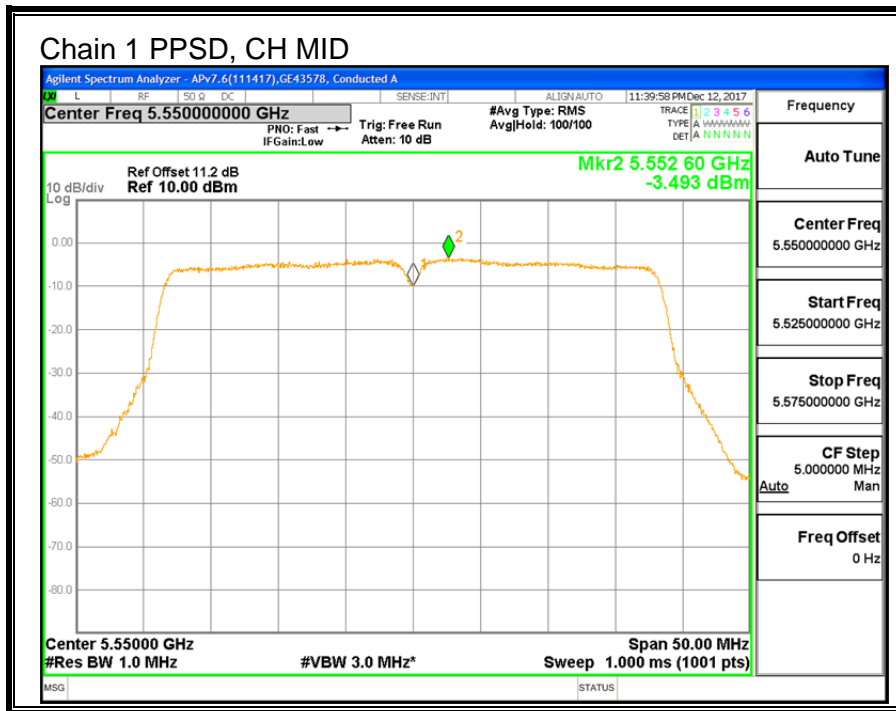
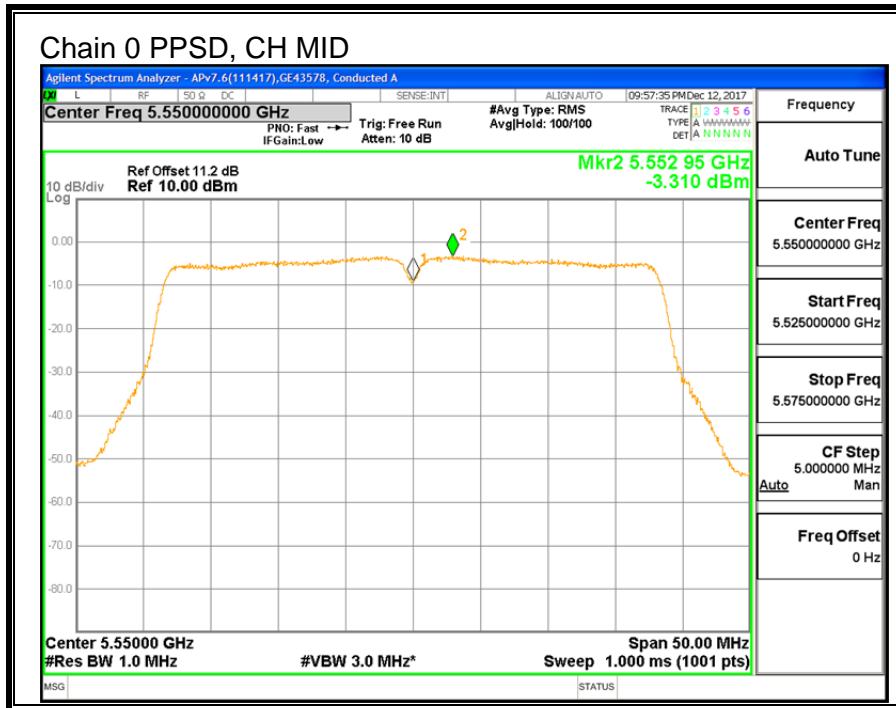
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	10.97	10.83	13.91	24.00	-10.09
Mid	5550	10.65	10.74	13.71	24.00	-10.29
Mid (FCC)	5630	11.12	10.51	13.84	24.00	-10.16
High	5670	10.72	10.41	13.58	24.00	-10.42
142	5710	10.96	10.49	13.74	24.00	-10.26

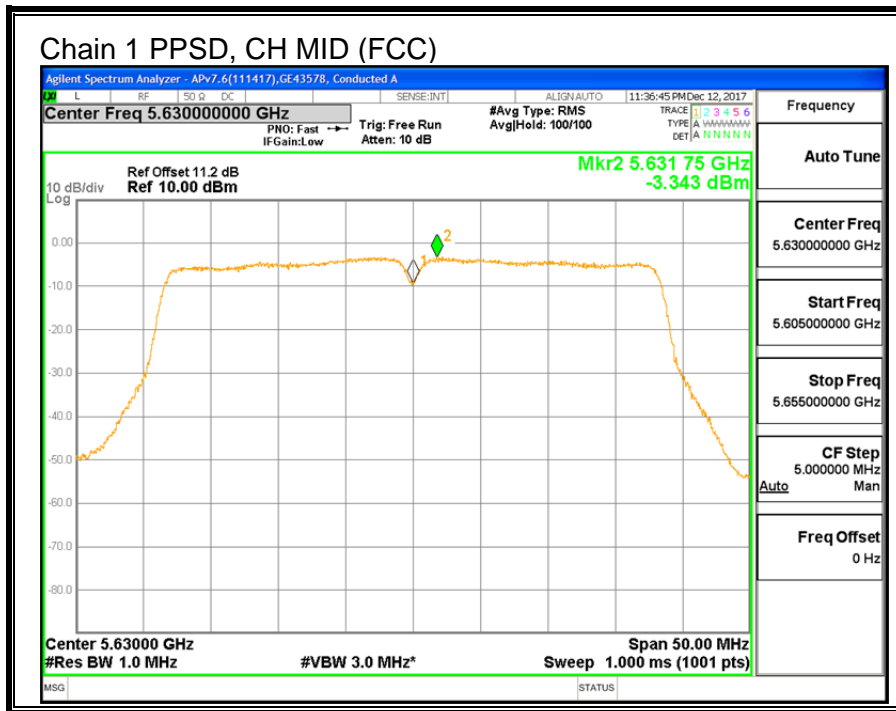
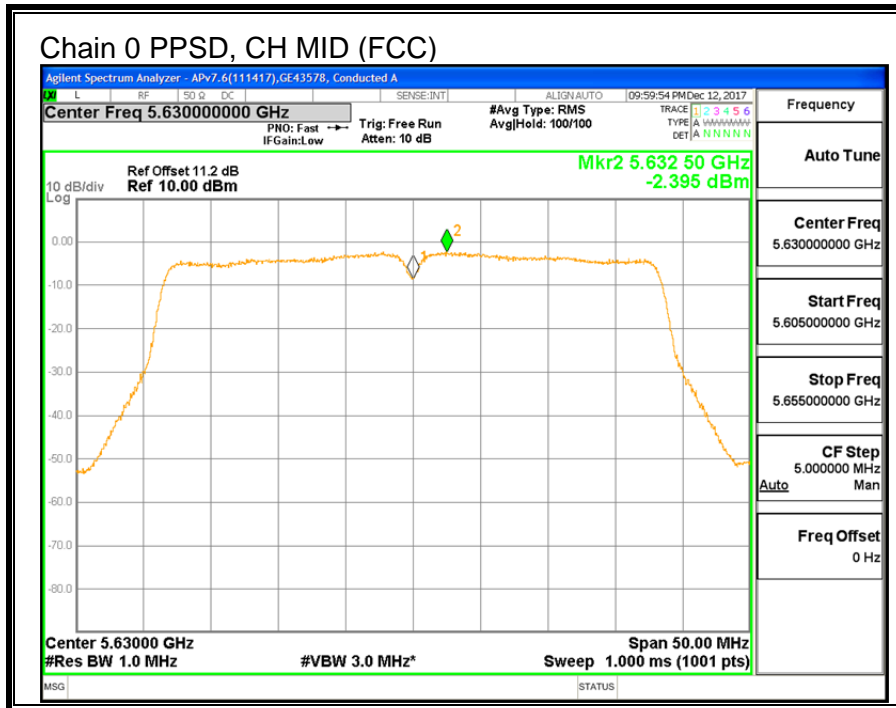
PPSD Results

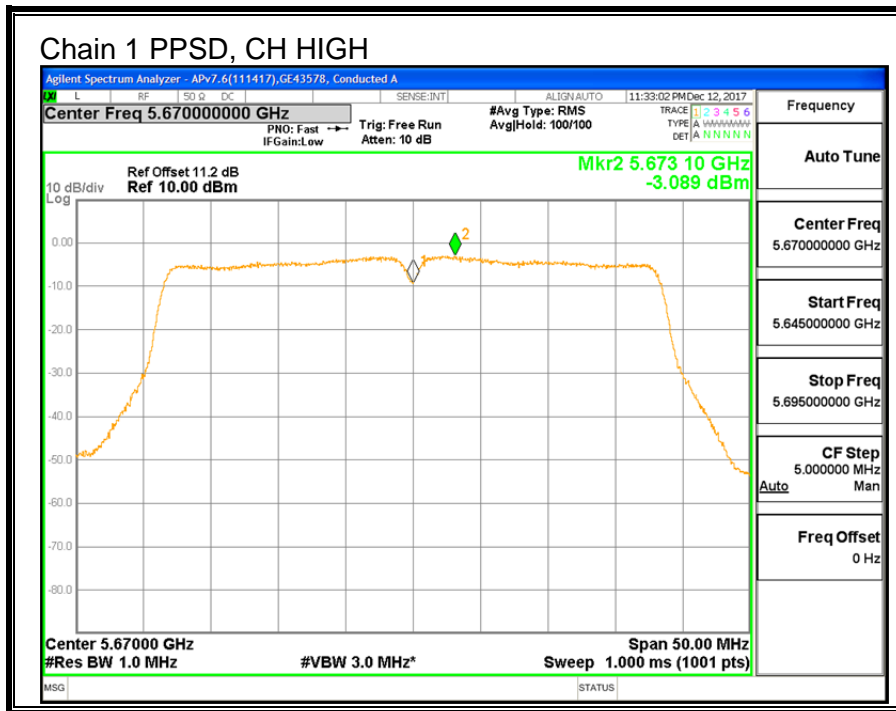
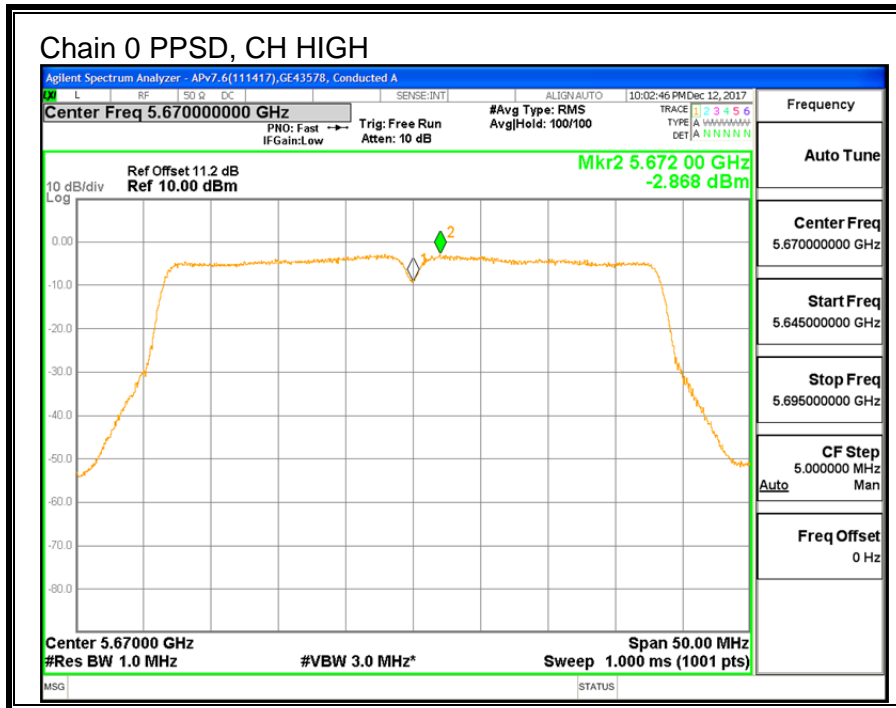
Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5510	-2.588	-2.625	0.79	11.00	-10.21
Mid	5550	-3.310	-3.493	0.00	11.00	-11.00
Mid (FCC)	5630	-2.395	-3.343	0.56	11.00	-10.44
High	5670	-2.868	-3.089	0.42	11.00	-10.58
142	5710	-2.550	-2.647	0.80	11.00	-10.20

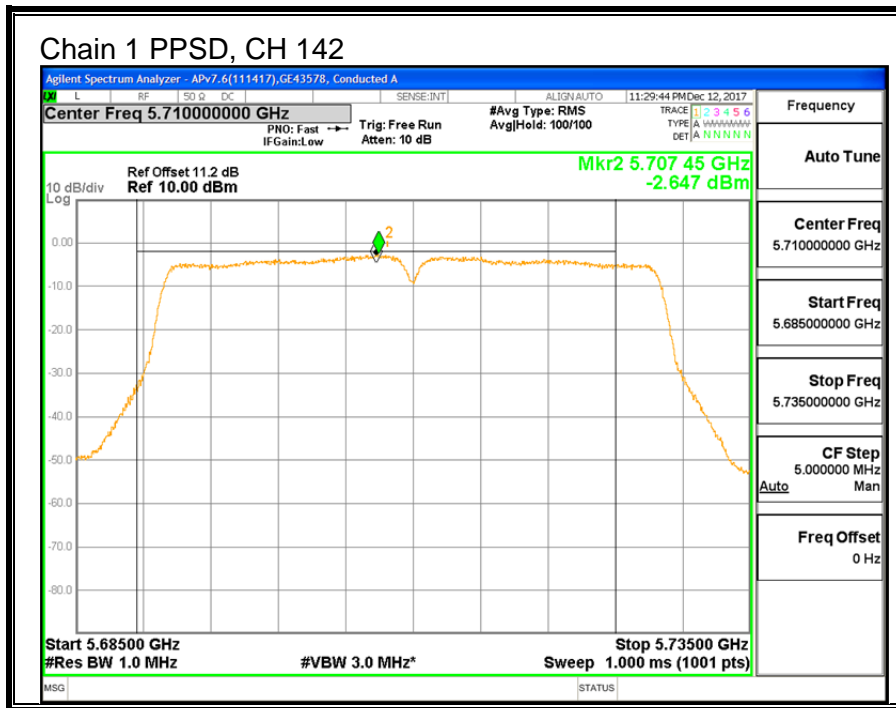
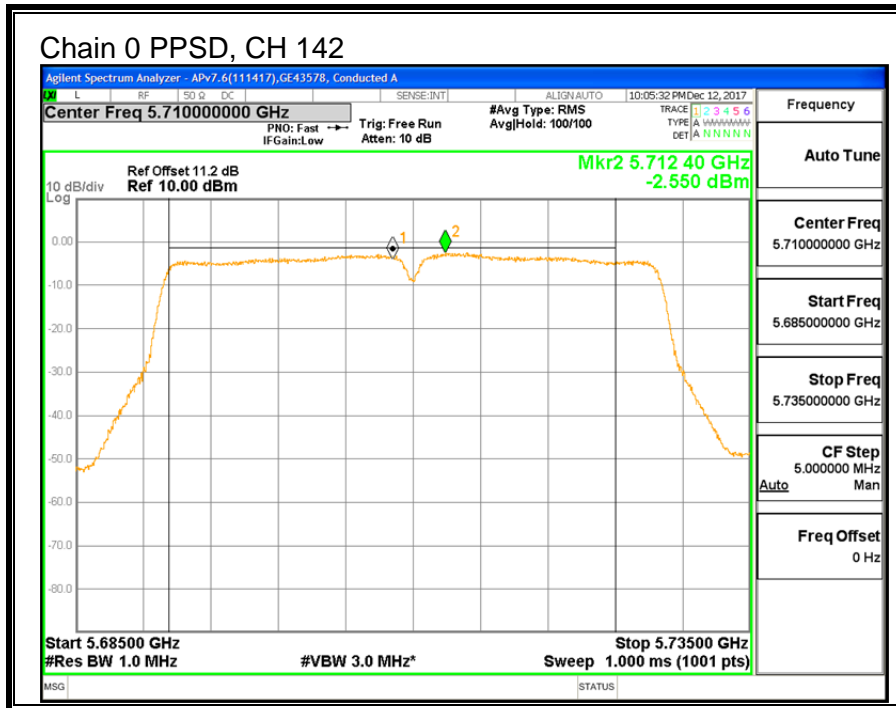
Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.











9.12. 11ac HT80 2TX CDD MIMO MODE IN THE 5.6GHz BAND

9.12.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5530	84.0	83.4
Mid	5610	84.0	83.8
138	5690	84.0	83.8