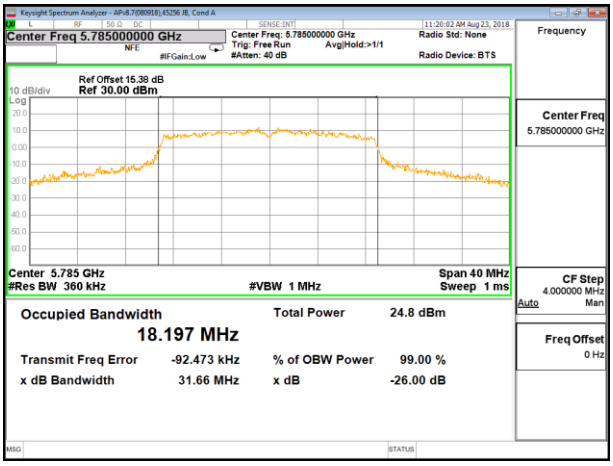
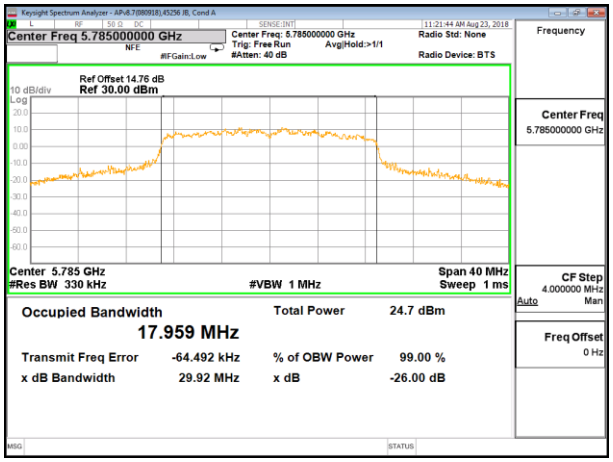
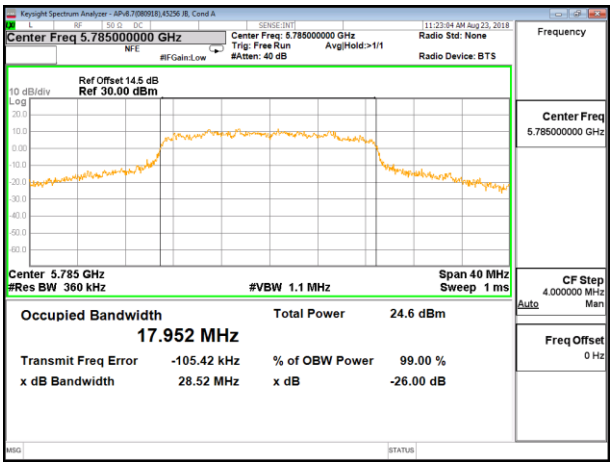
MID CHANNEL



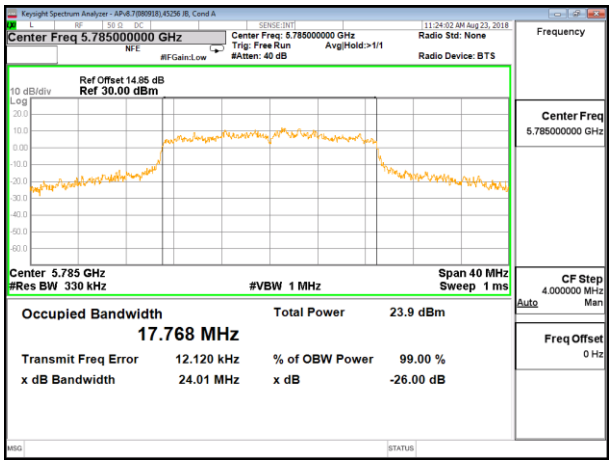
MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1



MID CHANNEL CHAIN 2



MID CHANNEL CHAIN 3

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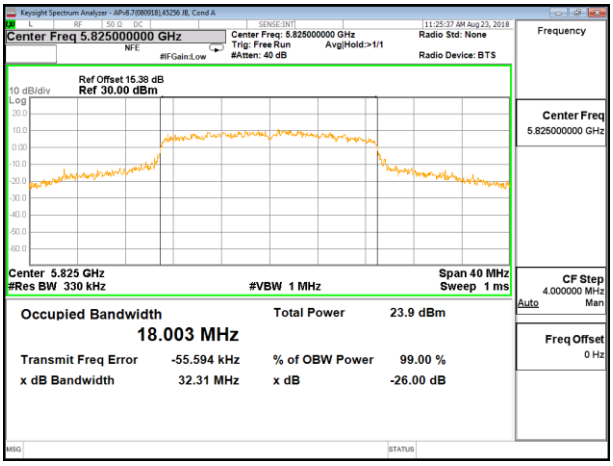
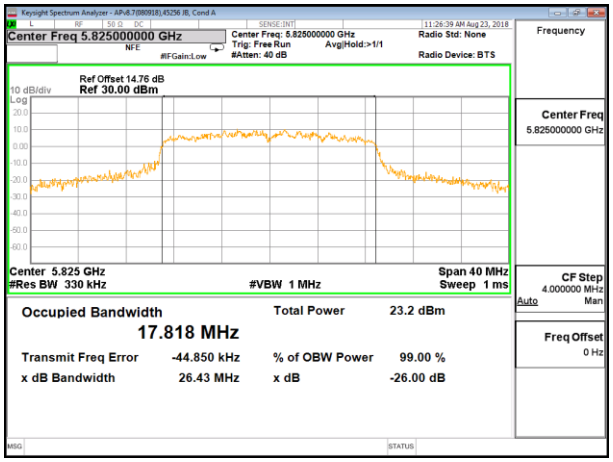
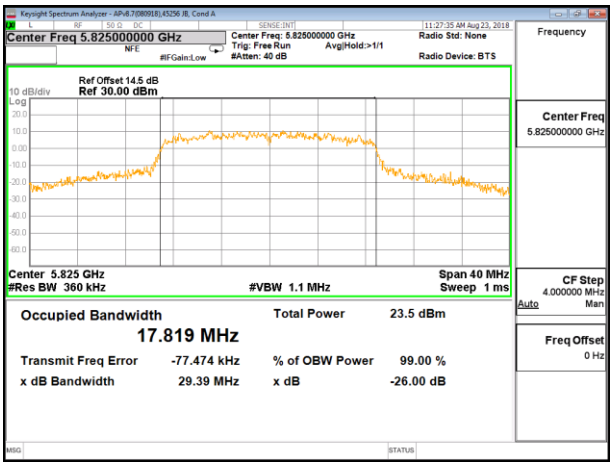
HIGH CHANNEL



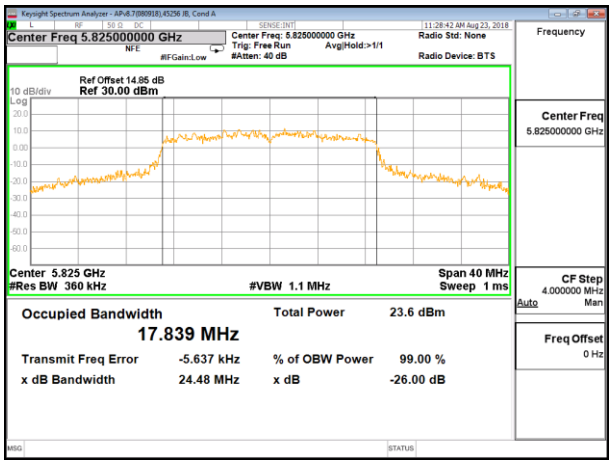
HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1



HIGH CHANNEL CHAIN 2



HIGH CHANNEL CHAIN 3

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8.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 6.2.4.1

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

RESULTS

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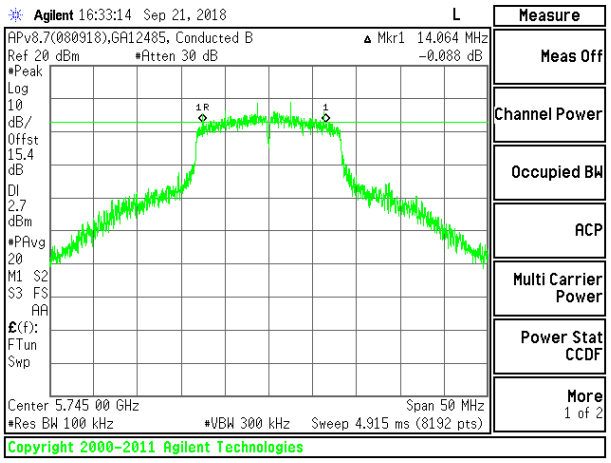
8.4.1 RADIO 0

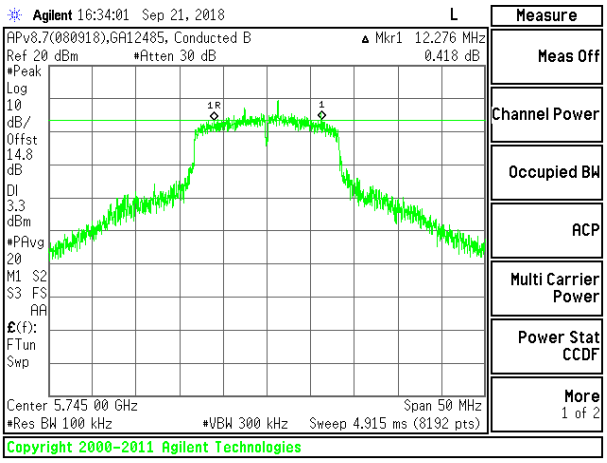
8.4.1.1. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	6 dB BW Chain 3 (MHz)	Minimum Limit (MHz)
Low	5745	14.0640	12.2760	14.5340	15.0410	0.5
Mid	5785	14.4000	15.0040	16.0050	15.6510	0.5
High	5825	13.8380	16.0420	15.2300	13.8080	0.5

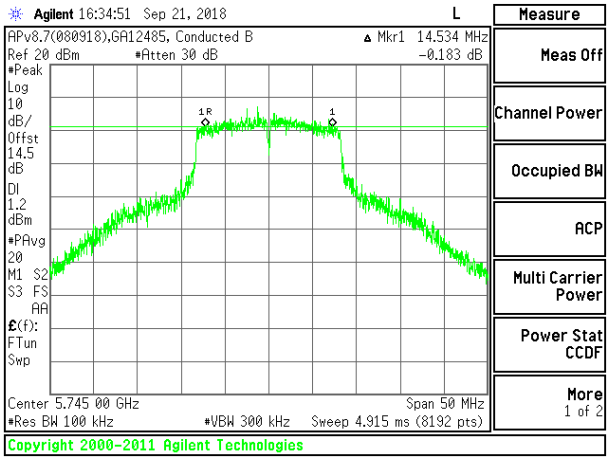
LOW CHANNEL



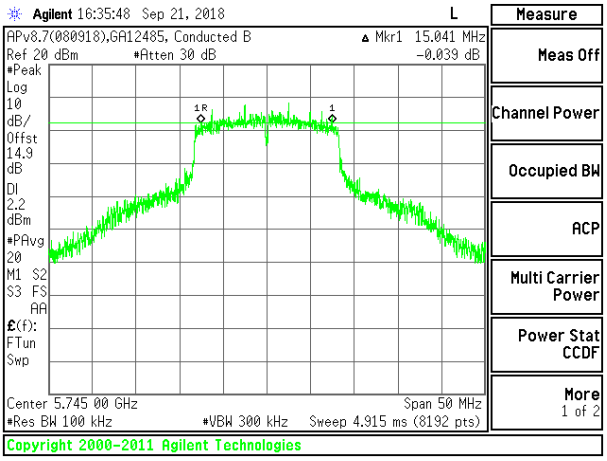
LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1



LOW CHANNEL CHAIN 2



LOW CHANNEL CHAIN 3

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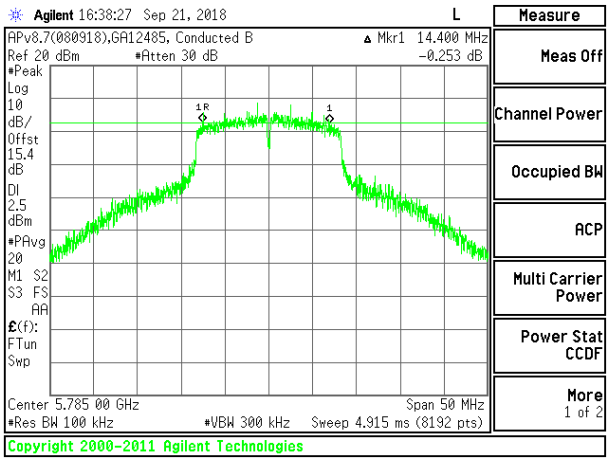
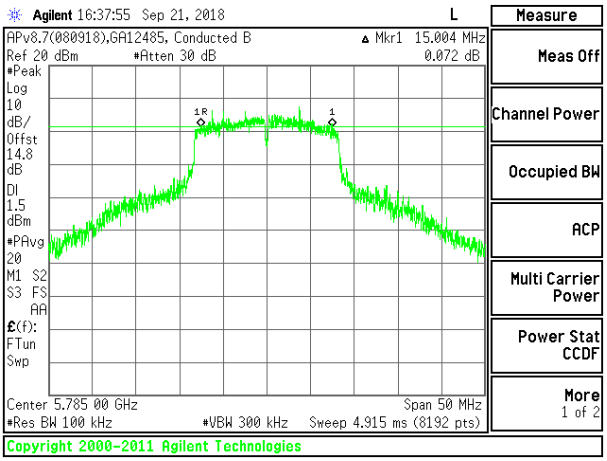
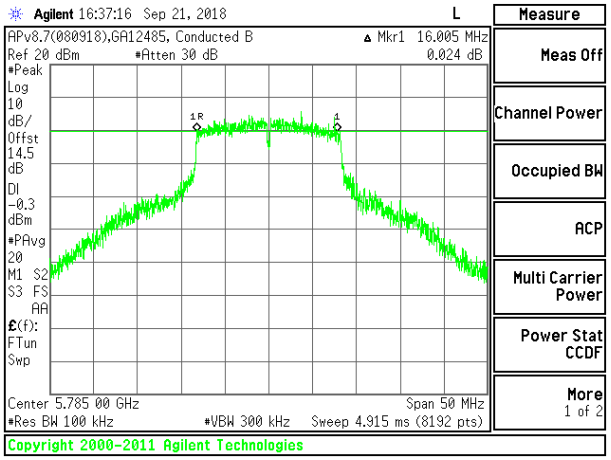
MID CHANNEL



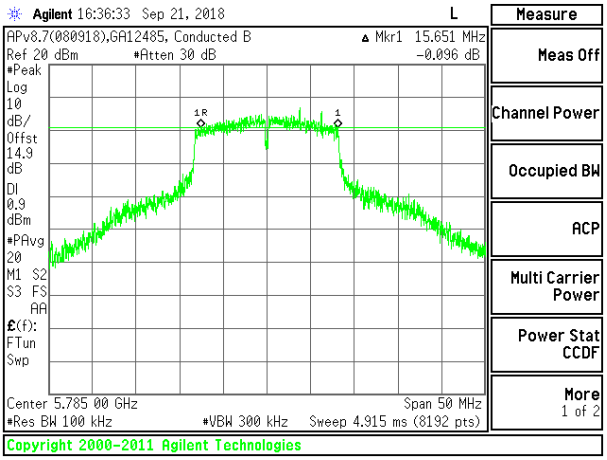
MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1



MID CHANNEL CHAIN 2



MID CHANNEL CHAIN 3

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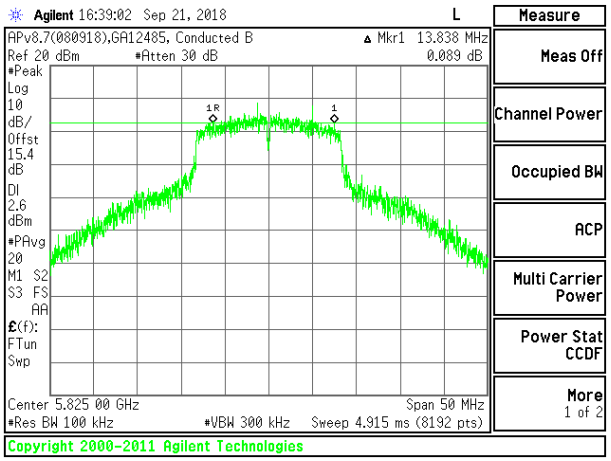
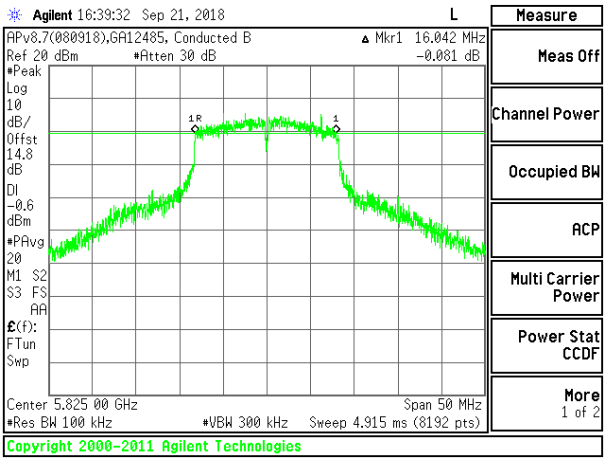
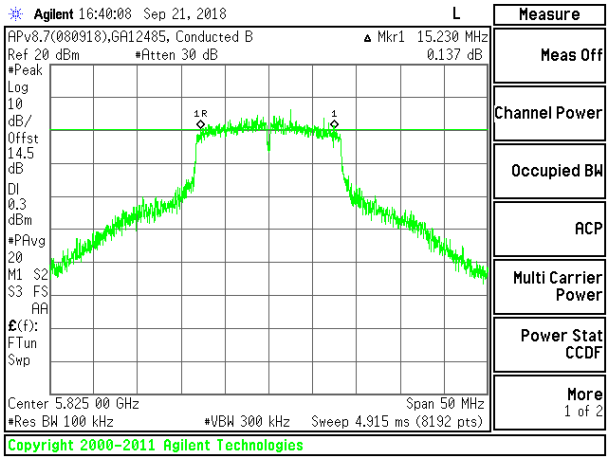
HIGH CHANNEL



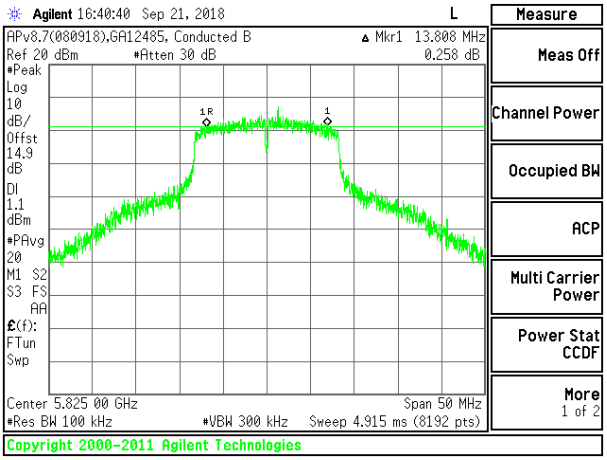
HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1



HIGH CHANNEL CHAIN 2



HIGH CHANNEL CHAIN 3

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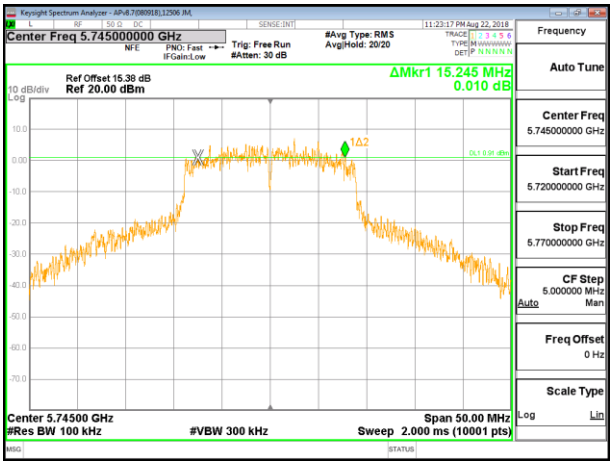
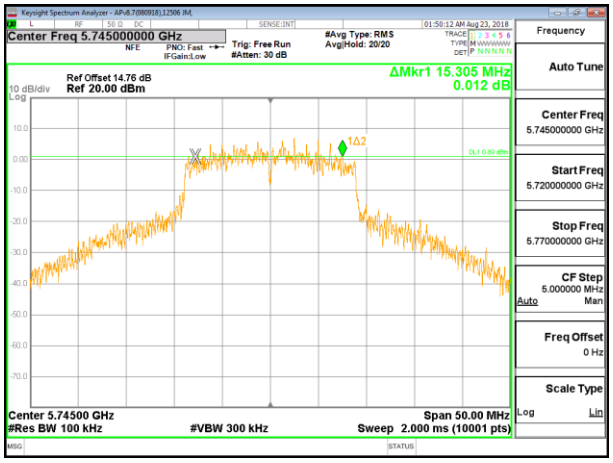
8.4.1.2. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	6 dB BW Chain 3 (MHz)	Minimum Limit (MHz)
Low	5745	15.2450	15.3050	14.9800	13.3350	0.5
Mid	5785	16.3750	13.8900	16.5650	13.9050	0.5
High	5825	13.8700	15.6000	13.7800	13.8750	0.5

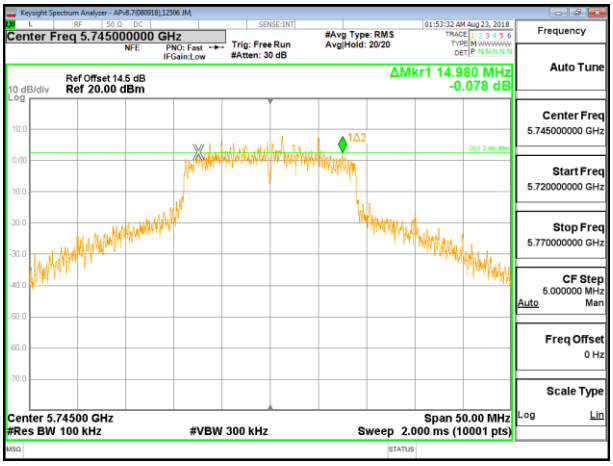
LOW CHANNEL



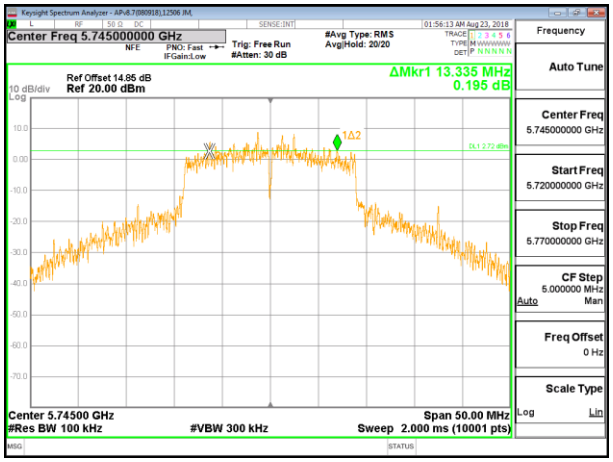
LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1



LOW CHANNEL CHAIN 2



LOW CHANNEL CHAIN 3

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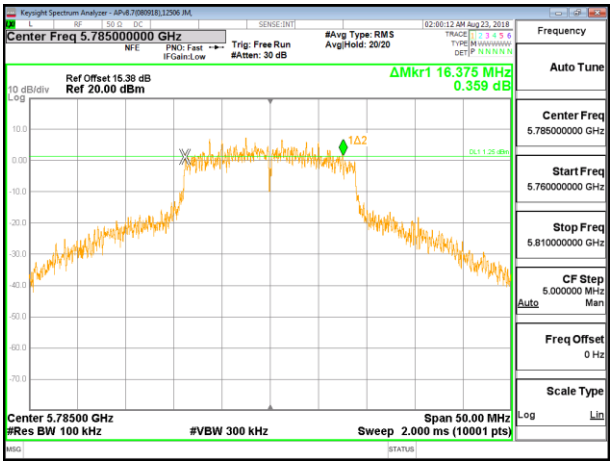
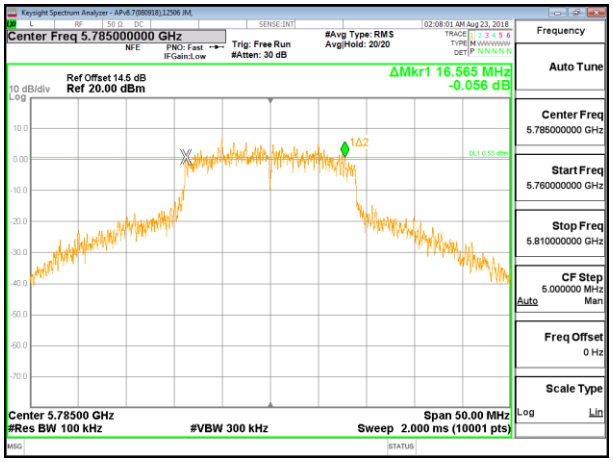
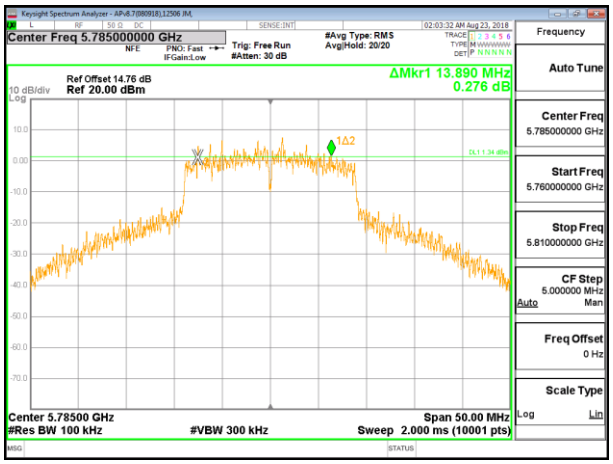
MID CHANNEL



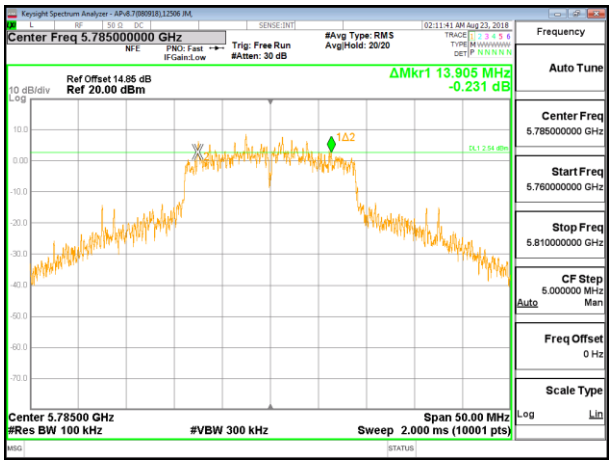
MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1



MID CHANNEL CHAIN 2



MID CHANNEL CHAIN 3

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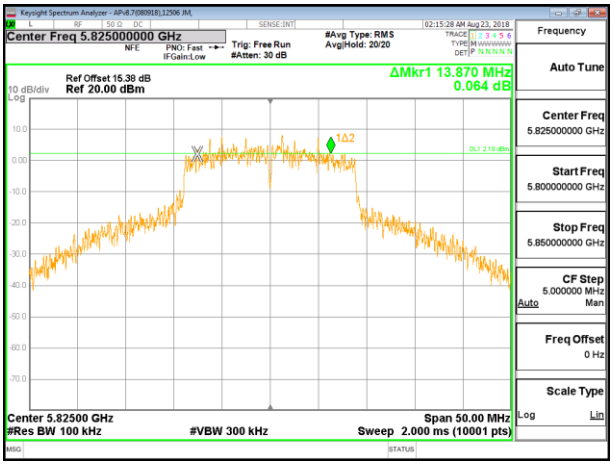
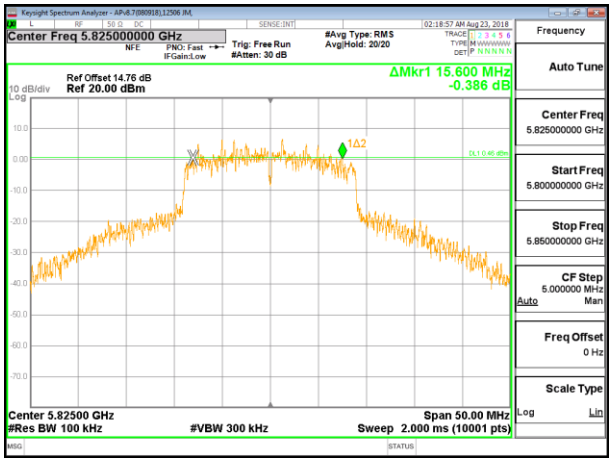
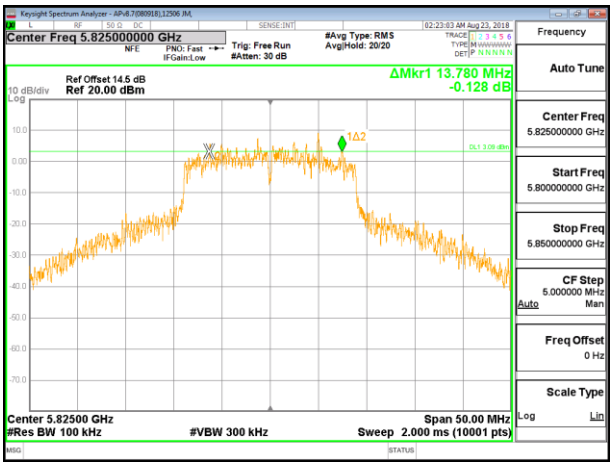
HIGH CHANNEL



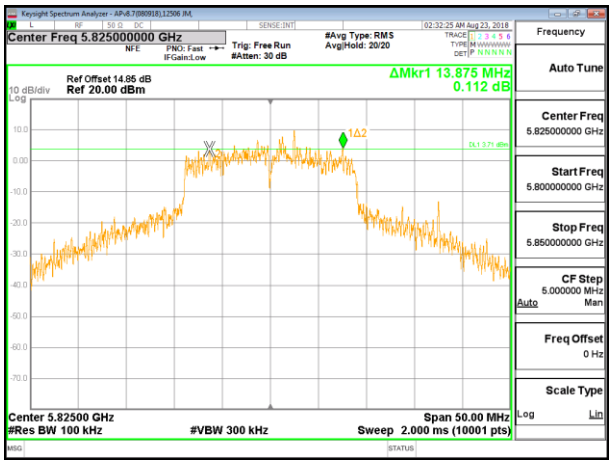
HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1



HIGH CHANNEL CHAIN 2



HIGH CHANNEL CHAIN 3

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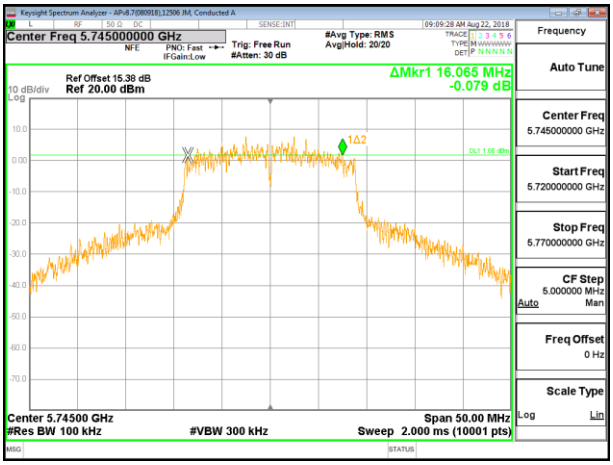
8.4.2 RADIO 1

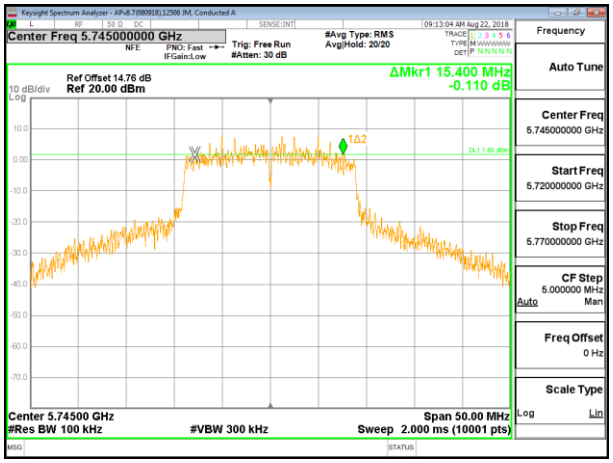
8.4.2.1. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	6 dB BW Chain 3 (MHz)	Minimum Limit (MHz)
Low	5745	16.0650	15.4000	15.5850	16.0250	0.5
Mid	5785	17.5450	15.3800	13.8400	15.7200	0.5
High	5825	16.3300	15.0850	11.6200	14.8350	0.5

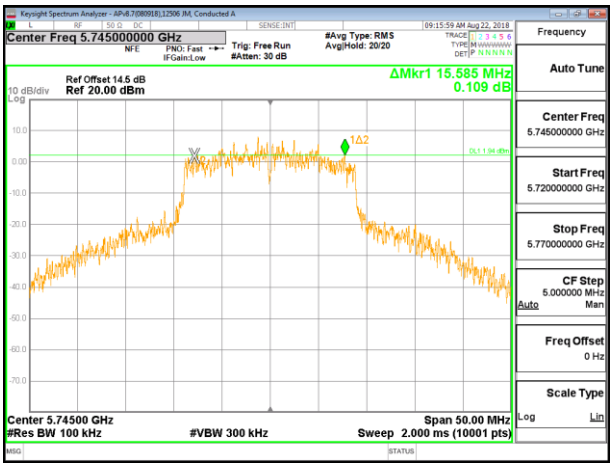
LOW CHANNEL



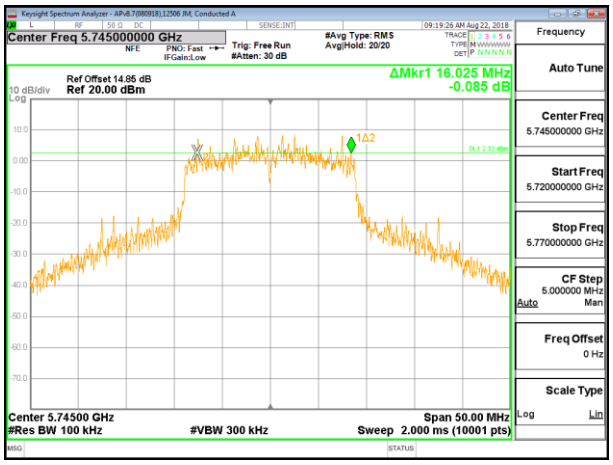
LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1



LOW CHANNEL CHAIN 2



LOW CHANNEL CHAIN 3

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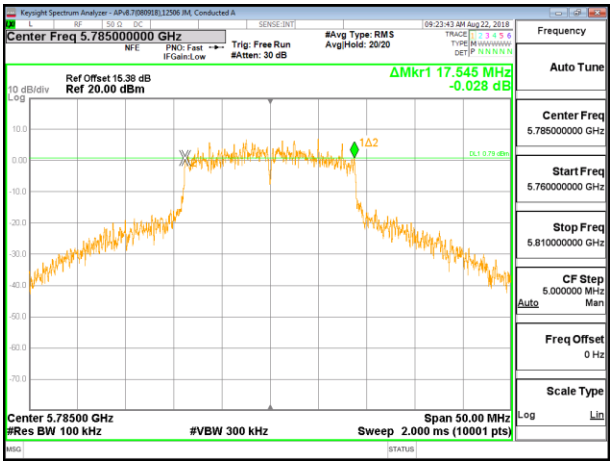
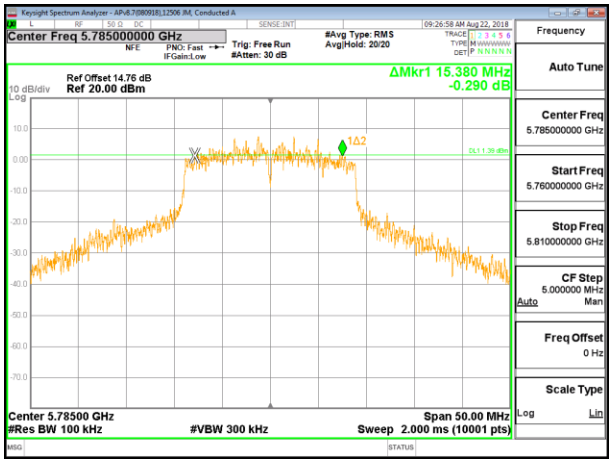
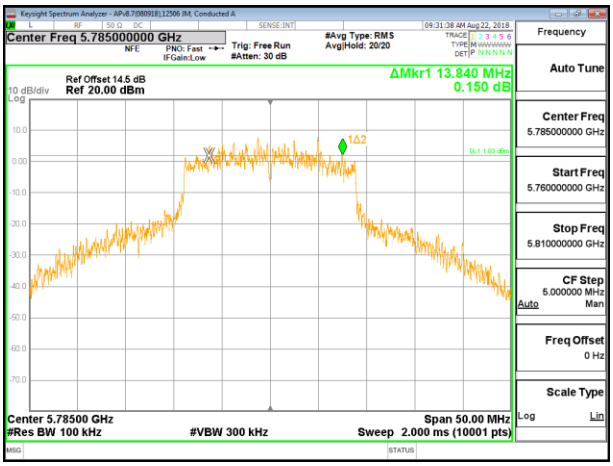
MID CHANNEL



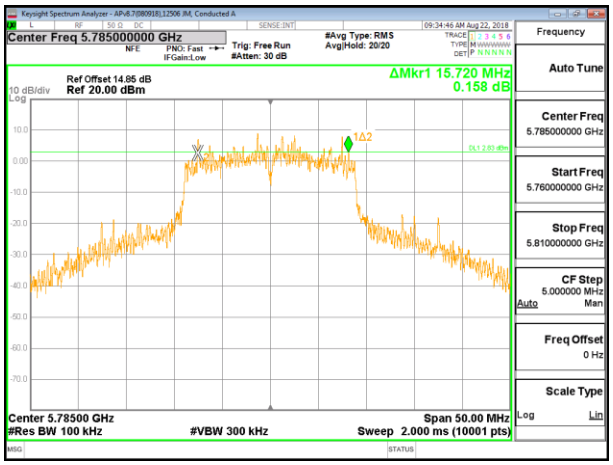
MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1



MID CHANNEL CHAIN 2



MID CHANNEL CHAIN 3

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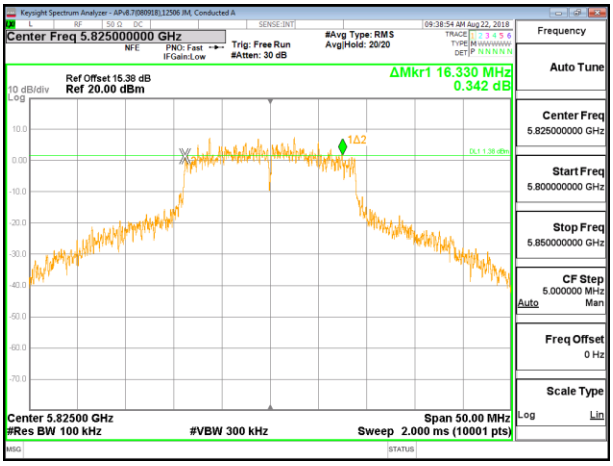
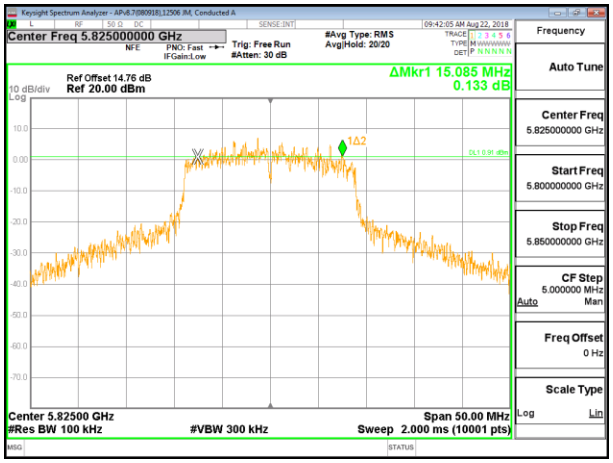
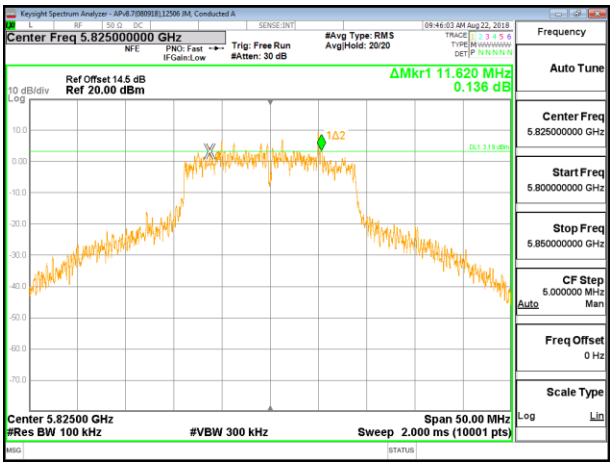
HIGH CHANNEL



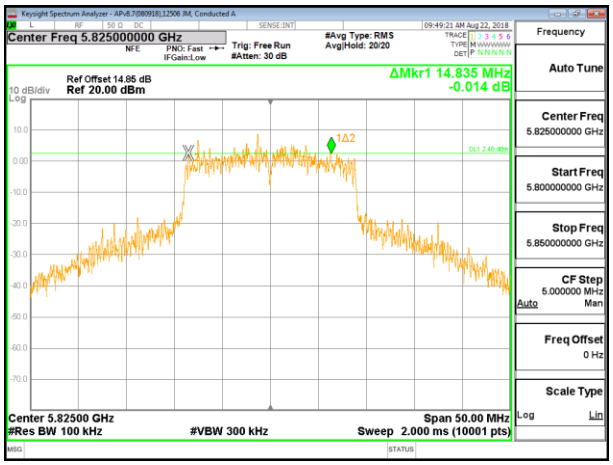
HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1



HIGH CHANNEL CHAIN 2



HIGH CHANNEL CHAIN 3

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8.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz (pick the section that applies to your product)

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz
The maximum conducted output power over the frequency bands 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 megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, 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.

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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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

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RSS-247

Band 5.15-5.25 GHz
The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5.25-5.35 GHz
The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz
The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz
The maximum conducted output power shall not exceed 1 W. The 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 power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v02r01, Section E.2.b (Method SA-1) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F.

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DIRECTIONAL ANTENNA GAIN

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

Radio 0

Horizontal Polarity (Worst Case)

Band (GHz)	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5	4.62	4.19	4.41	7.42

Vertical Polarity

Band (GHz)	Chain 2 Antenna Gain (dBi)	Chain 3 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5	3.85	3.70	3.78	6.79

Radio 1

Horizontal Polarity (Worst Case)

Band (GHz)	Chain 2 Antenna Gain (dBi)	Chain 3 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5	4.19	4.62	4.41	7.42

Vertical Polarity

Band (GHz)	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5	3.70	3.85	3.78	6.79

RESULTS

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8.5.1 RADIO 0

8.5.1.1. 802.11a MODE IN THE 5.2 GHz BAND

IC

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)
Low	5180	17.6510
Mid	5200	17.5540
High	5240	17.5460

Limits

Channel	Frequency (MHz)	ISED EIRP Limit (dBm)	ISED eirp PSD Limit (dBm/ 1MHz)
Low	5180	22.47	10.00
Mid	5200	22.44	10.00
High	5240	22.44	10.00

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

Output Power Results

Channel	Frequency (MHz)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	19.46	22.47	-3.01
Mid	5200	19.25	22.44	-3.19
High	5240	19.49	22.44	-2.95

PSD Results

Channel	Frequency (MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	9.65	10.00	-0.35
Mid	5200	9.40	10.00	-0.61
High	5240	9.89	10.00	-0.11

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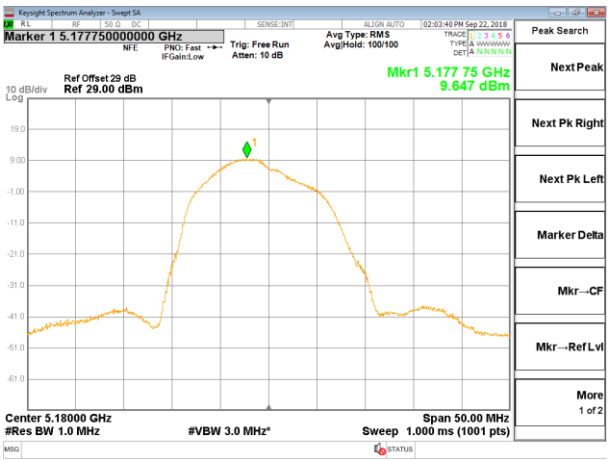

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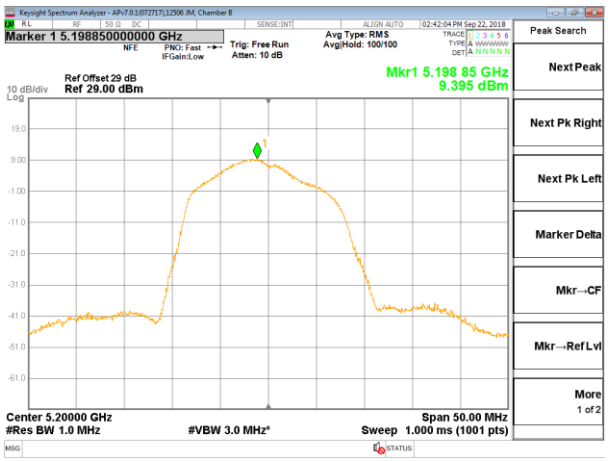
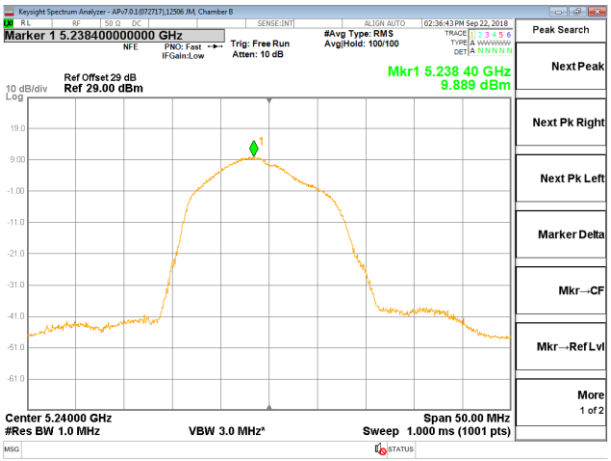


MID CHANNEL



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FCC

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	16.4664	4.41	7.42
Mid	5200	16.4403	4.41	7.42
High	5240	16.5384	4.41	7.42

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	22.17	17.76	24.00	9.58	10.00	9.58
Mid	5200	24.00	22.16	17.75	24.00	9.58	10.00	9.58
High	5240	24.00	22.18	17.77	24.00	9.58	10.00	9.58

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

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	10.44	10.87	10.59	10.16	16.54	24.00	-7.46
Mid	5200	10.98	11.32	11.05	10.73	17.05	24.00	-6.95
High	5240	10.15	10.43	10.67	9.75	16.28	24.00	-7.72

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Chain 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	0.85	0.75	0.08	-0.17	6.42	9.58	-3.16
Mid	5200	1.24	1.20	0.72	0.54	6.96	9.58	-2.62
High	5240	0.72	0.63	0.32	-0.55	6.33	9.58	-3.25

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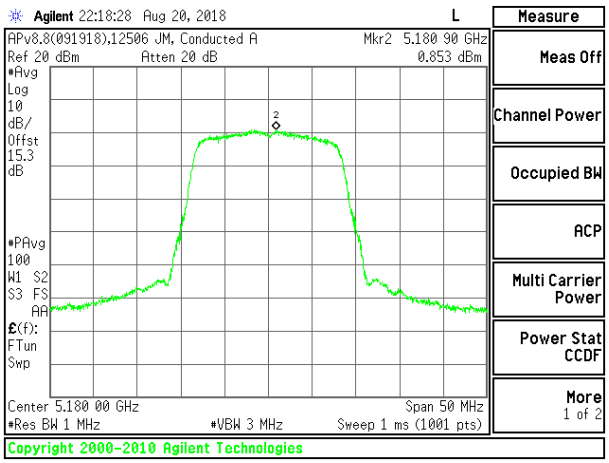
LOW CHANNEL



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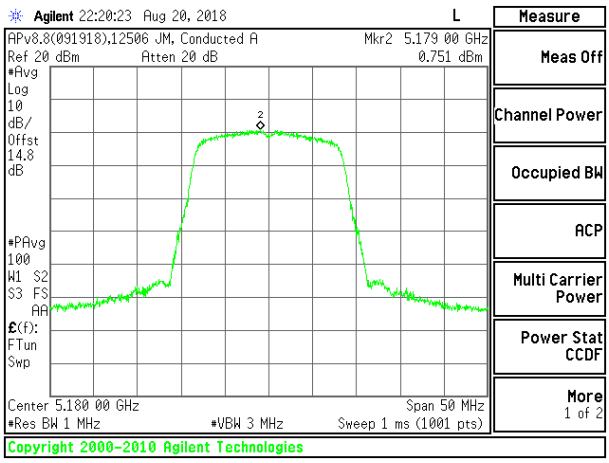

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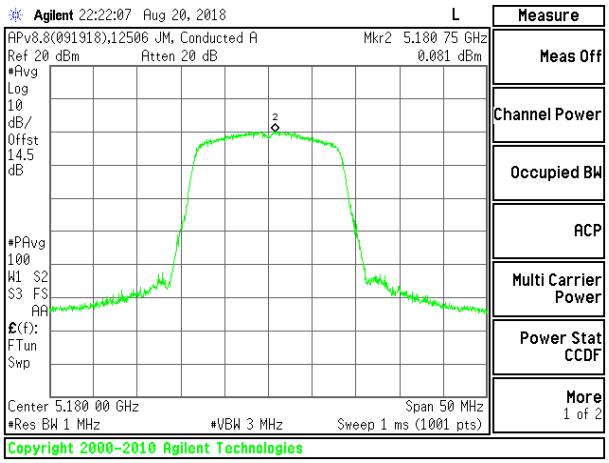

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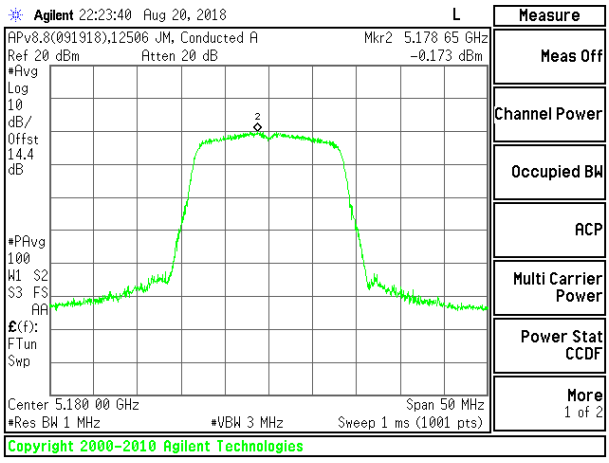

LOW CHANNEL CHAIN 3

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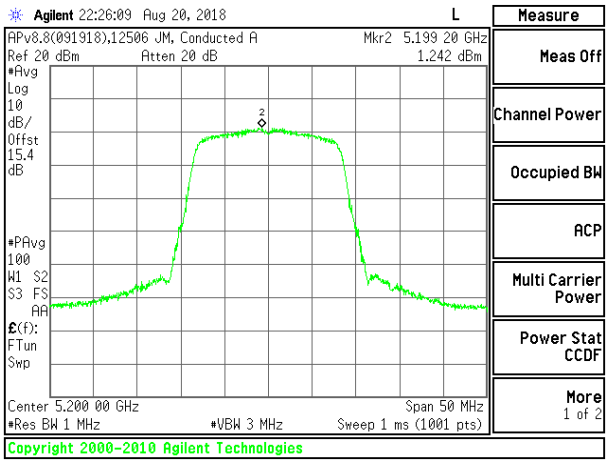
MID CHANNEL



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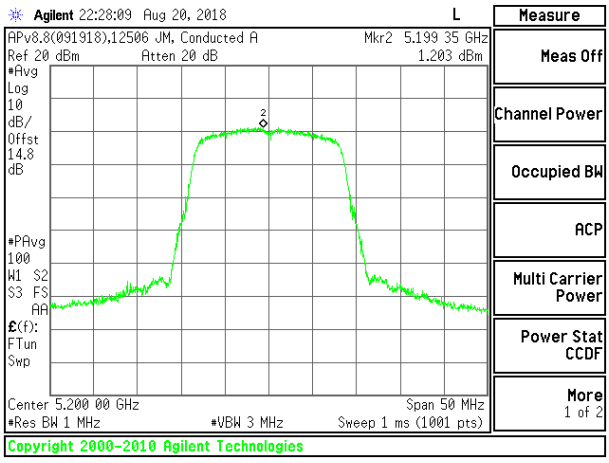

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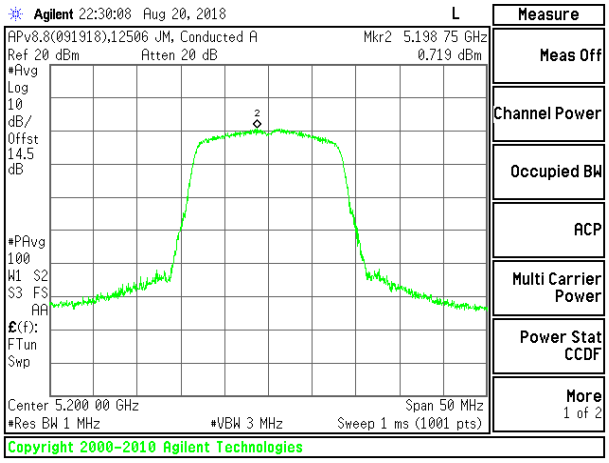

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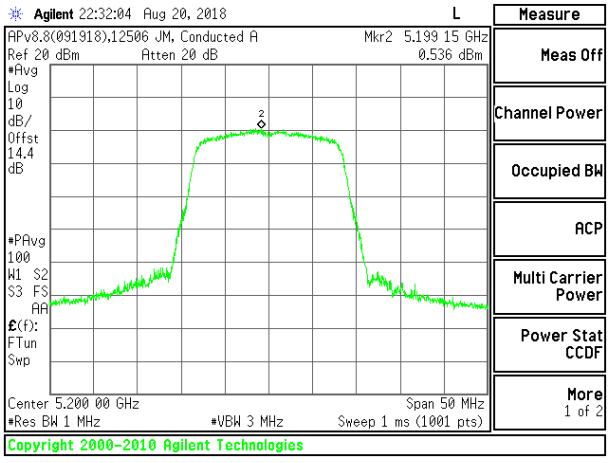

MID CHANNEL CHAIN 3

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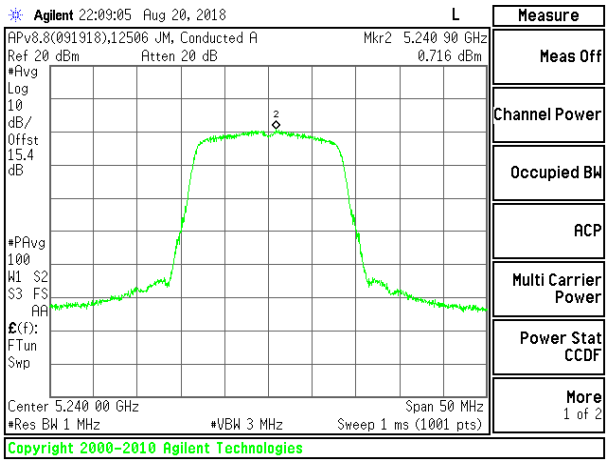
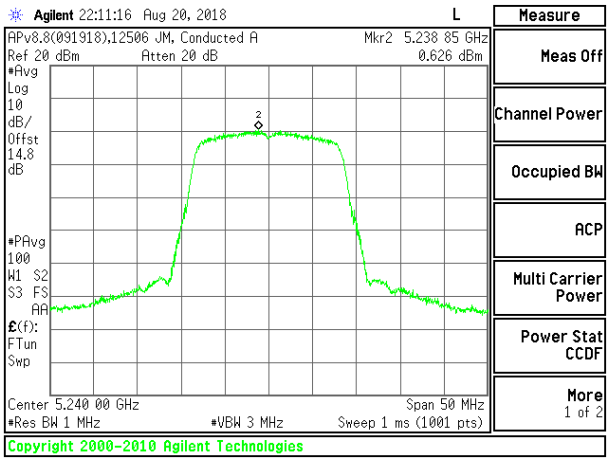
HIGH CHANNEL



HIGH CHANNEL CHAIN 0



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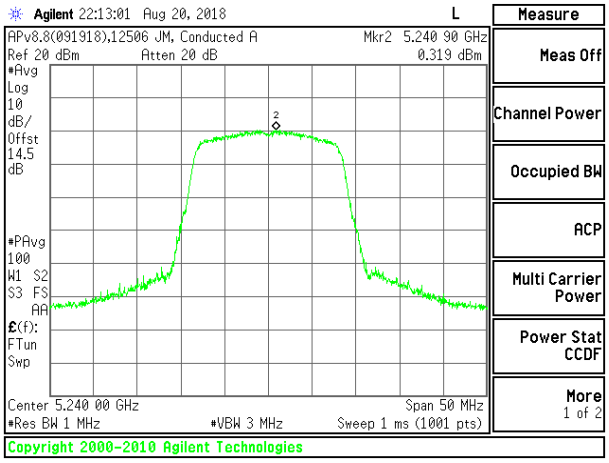

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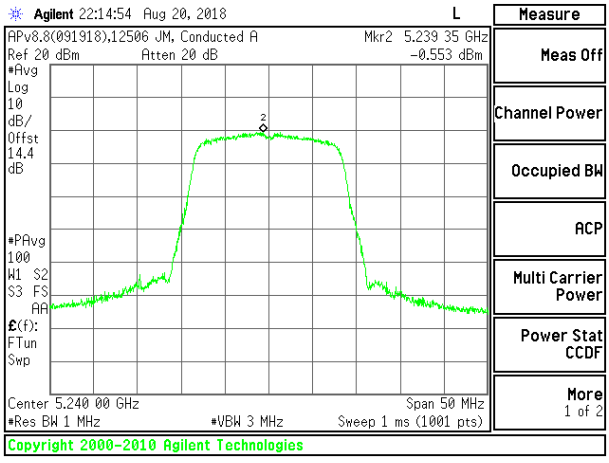

HIGH CHANNEL CHAIN 3

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8.5.1.2. 802.11a MODE IN THE 5.3 GHz BAND

FCC+IC

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Direction Gain for Power (dBi)	Direction Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5260	20.25	4.41	7.42	24.00	9.58
Mid	5300	20.30	4.41	7.42	24.00	9.58
High	5320	20.45	4.41	7.42	24.00	9.58

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

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.28	14.44	14.21	13.93	20.24	24.00	-3.76
Mid	5300	13.29	13.41	13.11	12.79	19.18	24.00	-4.82
High	5320	13.23	13.42	13.25	12.77	19.19	24.00	-4.81

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Chain 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5260	3.70	3.49	3.03	1.31	9.00	9.58	-0.58
Mid	5300	2.64	2.76	2.21	1.67	8.36	9.58	-1.22
High	5320	3.41	2.68	2.28	1.67	8.57	9.58	-1.01

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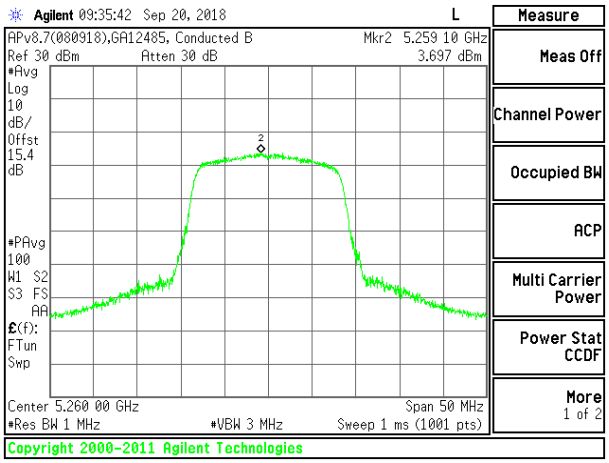
LOW CHANNEL



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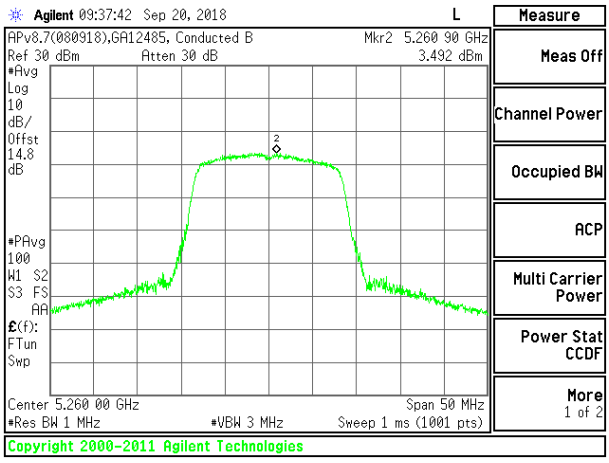

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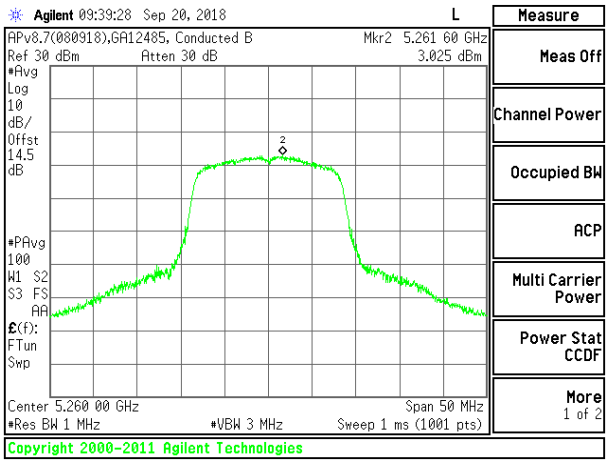

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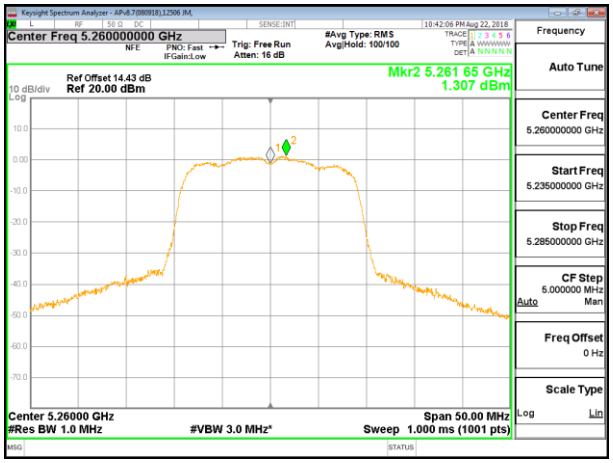

LOW CHANNEL CHAIN 3

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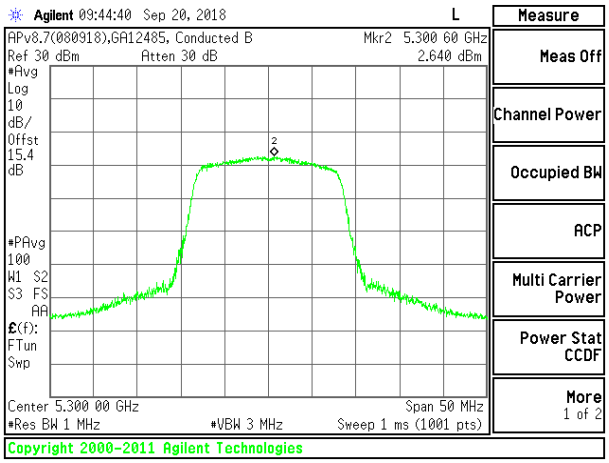
MID CHANNEL



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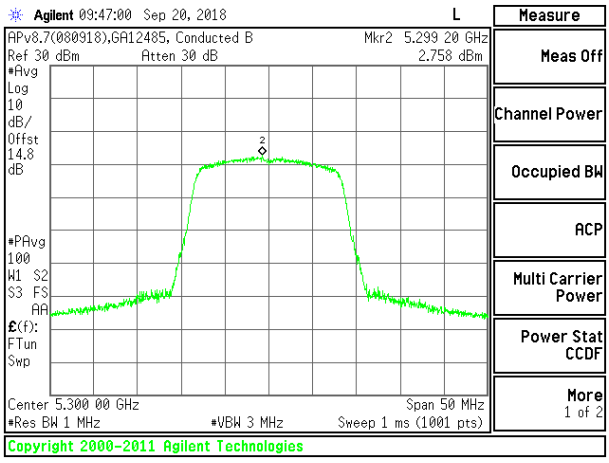

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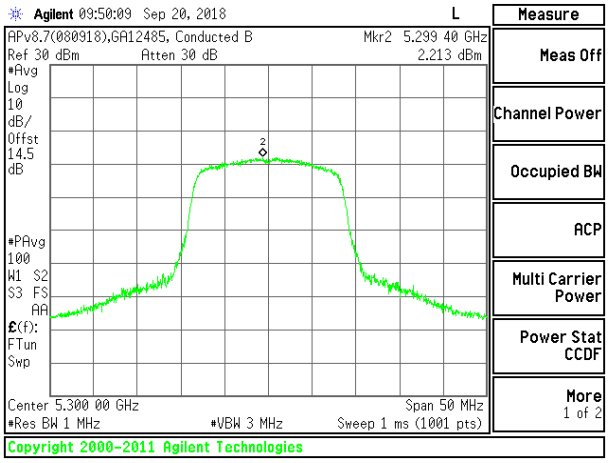

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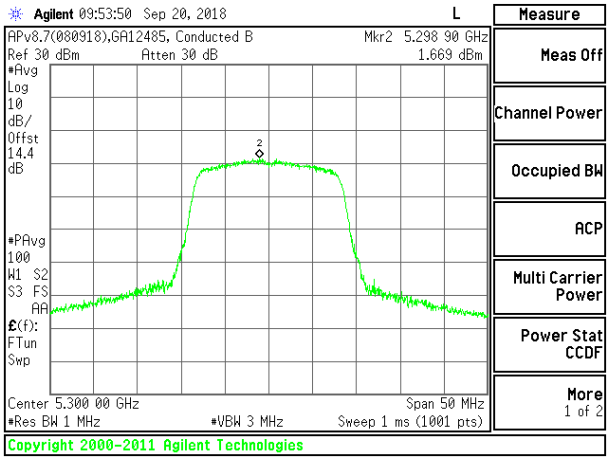

MID CHANNEL CHAIN 3

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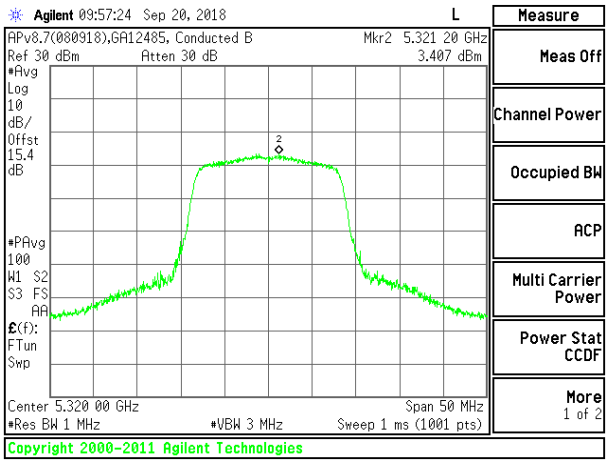
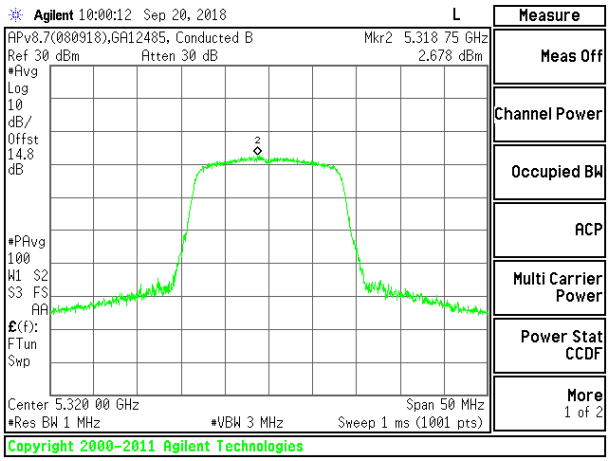
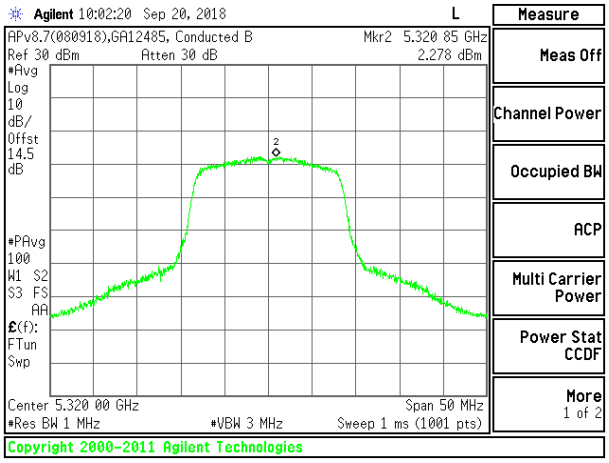
HIGH CHANNEL



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1



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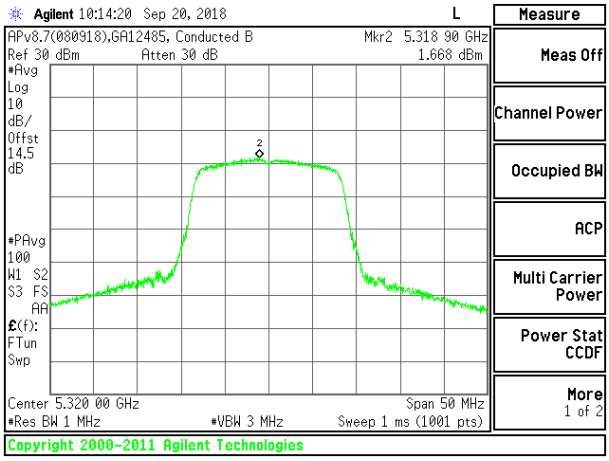

HIGH CHANNEL CHAIN 3

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8.5.1.3. 802.11a MODE IN THE 5.6 GHz BAND

FCC+IC

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Direction Gain for (dBi)	Direction Gain for PSD (dBi)
Low	5500	20.3000	17.4780	4.41	7.42
Mid	5580	20.4500	17.5630	4.41	7.42
High	5700	20.3000	17.5050	4.41	7.42

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/	ISED PSD Limit (dBm/	PSD Limit (dBm/
Low	5500	24.00	23.42	29.42	23.42	9.58	11.00	9.58
Mid	5580	24.00	23.45	29.45	23.45	9.58	11.00	9.58
High	5700	24.00	23.43	29.43	23.43	9.58	11.00	9.58

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)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	13.32	13.75	13.28	12.74	19.31	23.42	-4.12
Mid	5580	12.22	12.66	12.47	12.28	18.43	23.45	-5.01
High	5700	12.51	12.55	12.36	12.52	18.51	23.43	-4.93

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Chain 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.273	2.979	2.507	1.953	8.727	9.58	-0.85
Mid	5580	2.400	1.698	1.320	1.173	7.695	9.58	-1.89
High	5700	2.473	1.603	1.239	1.623	7.779	9.58	-1.80

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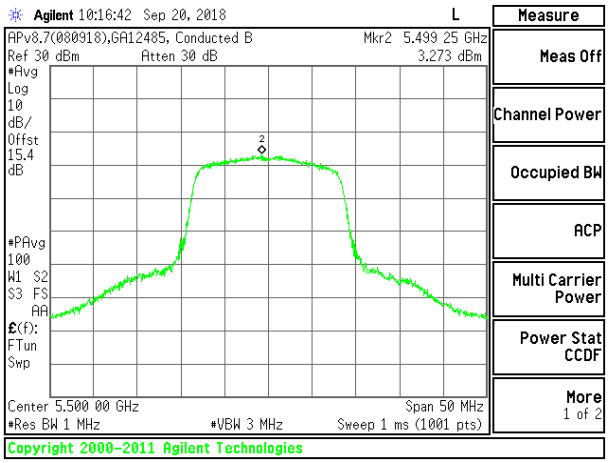
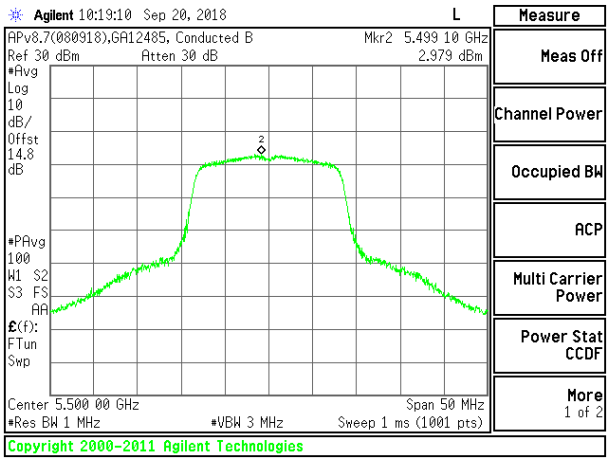
LOW CHANNEL



LOW CHANNEL CHAIN 0



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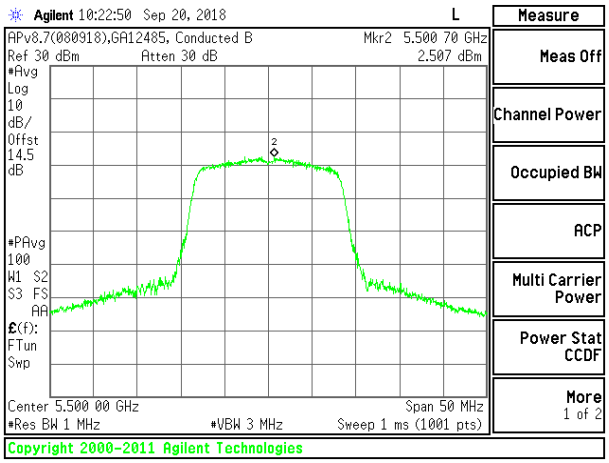

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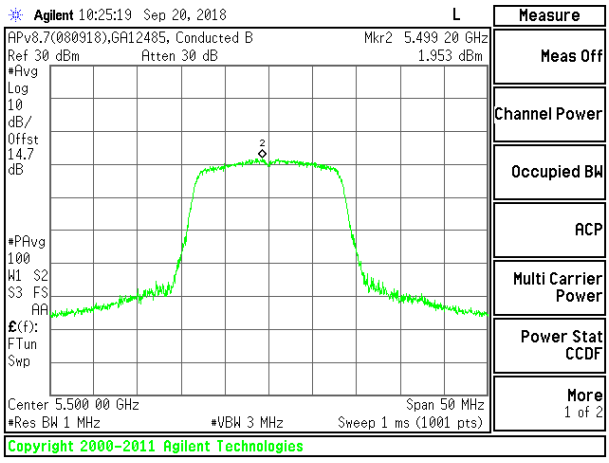

LOW CHANNEL CHAIN 3

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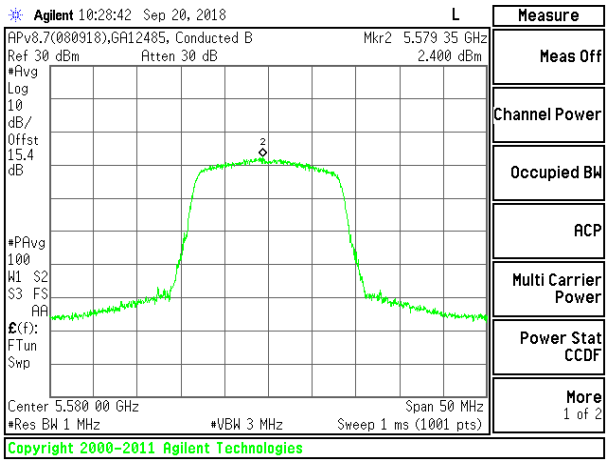
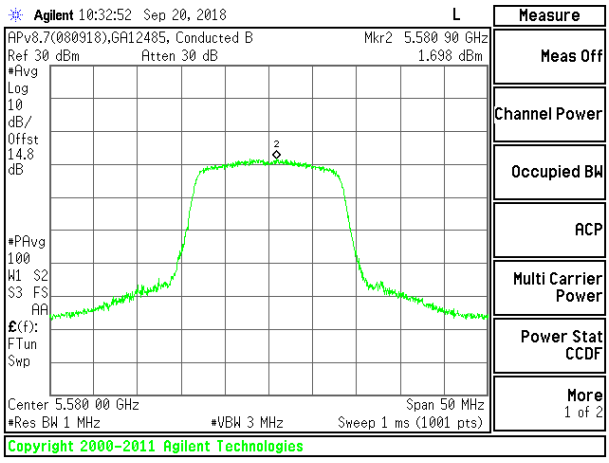
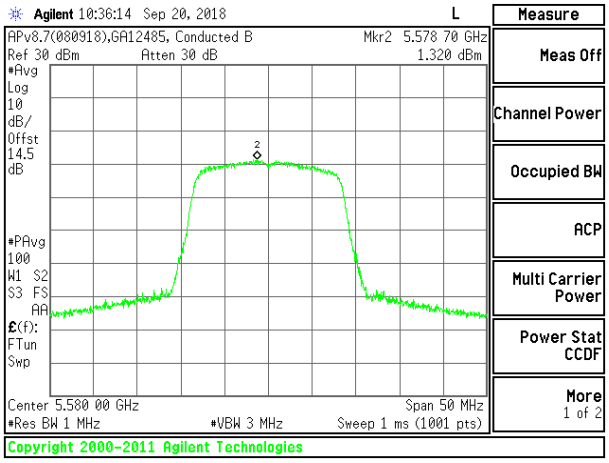
MID CHANNEL



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1



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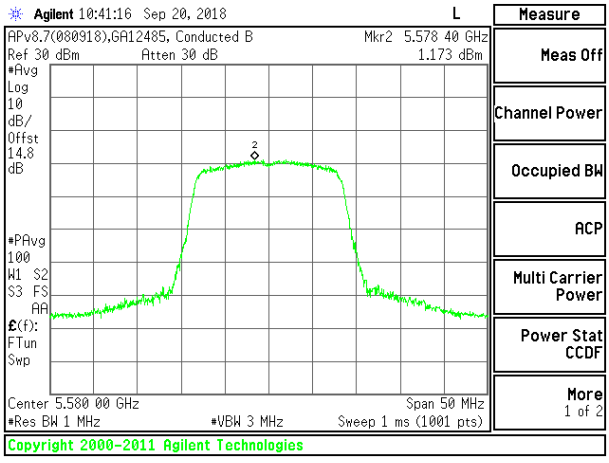

MID CHANNEL CHAIN 3

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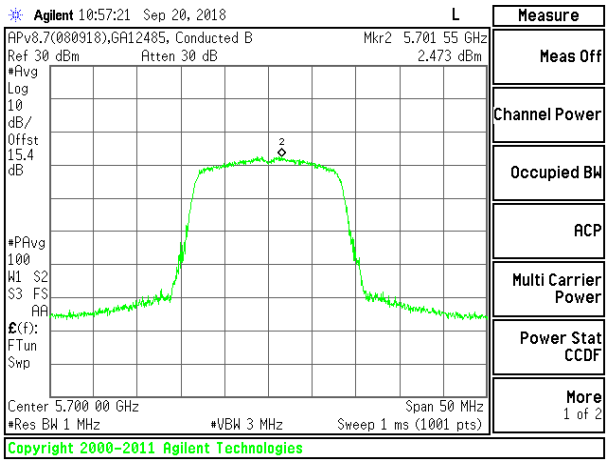
HIGH CHANNEL



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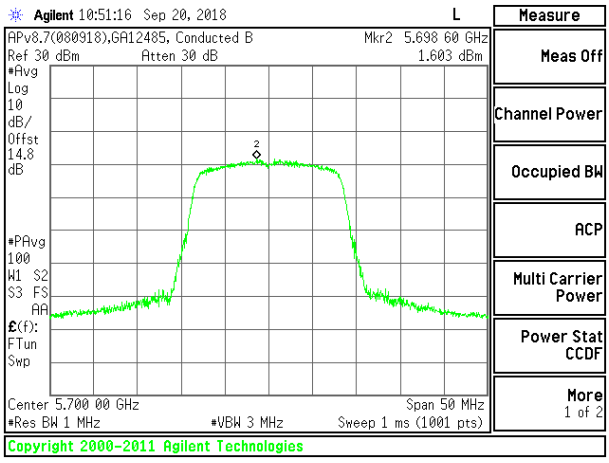
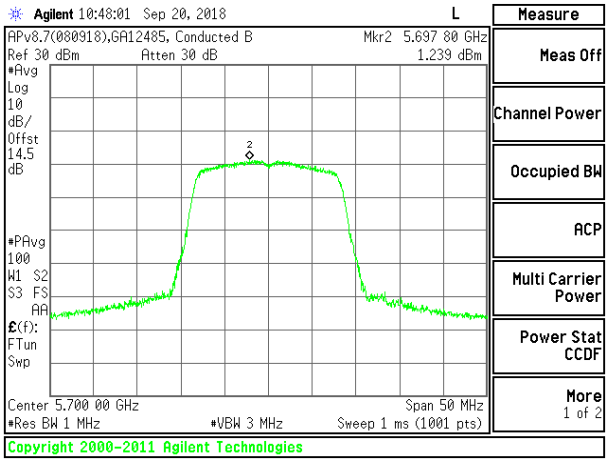


HIGH CHANNEL CHAIN 1



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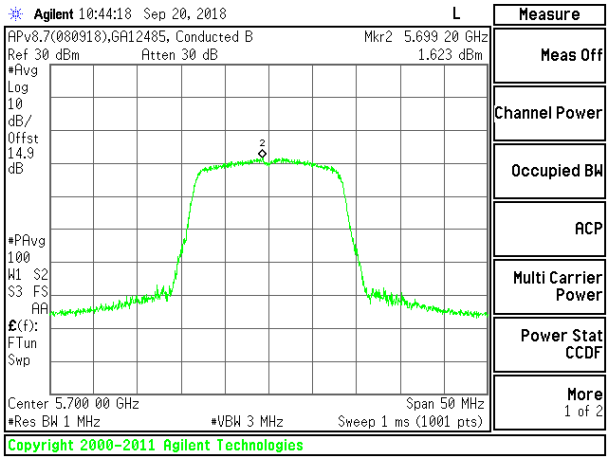

HIGH CHANNEL CHAIN 3

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8.5.1.4. 802.11a MODE IN THE 5.8 GHz BAND

FCC+IC

Antenna Gain and Limit

Channel	Frequency (MHz)	Directiona Gain for Power (dBi)	Directiona Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5745	4.41	7.42	30.00	28.58
Mid	5785	4.41	7.42	30.00	28.58
High	5825	4.41	7.42	30.00	28.58

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)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.77	18.64	18.33	18.81	24.66	30.00	-5.34
Mid	5785	18.72	18.44	18.11	18.77	24.54	30.00	-5.46
High	5825	18.96	18.34	18.22	18.44	24.52	30.00	-5.48

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Chain 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	5.923	4.927	5.343	6.798	11.826	28.58	-16.75
Mid	5785	6.558	4.901	4.576	5.170	11.391	28.58	-17.19
High	5825	6.697	4.824	4.920	5.169	11.493	28.58	-17.09

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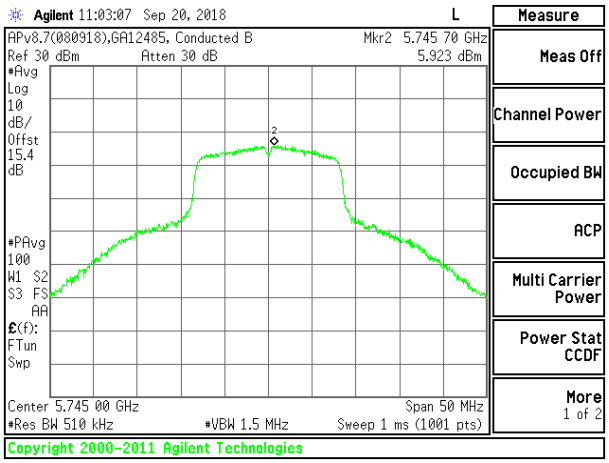
LOW CHANNEL



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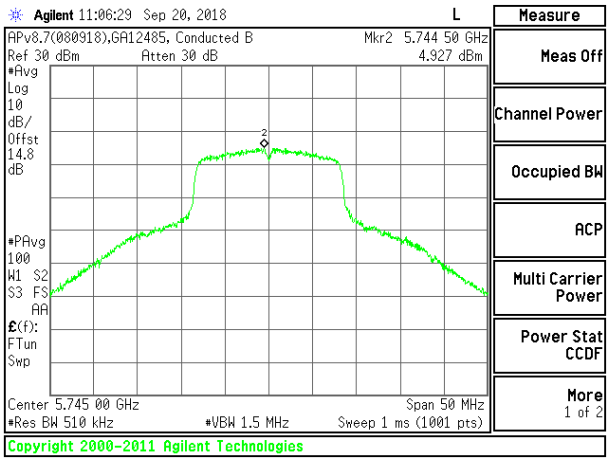
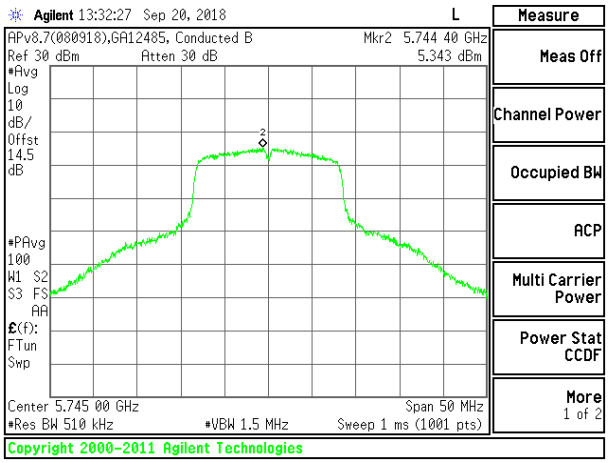


LOW CHANNEL CHAIN 1



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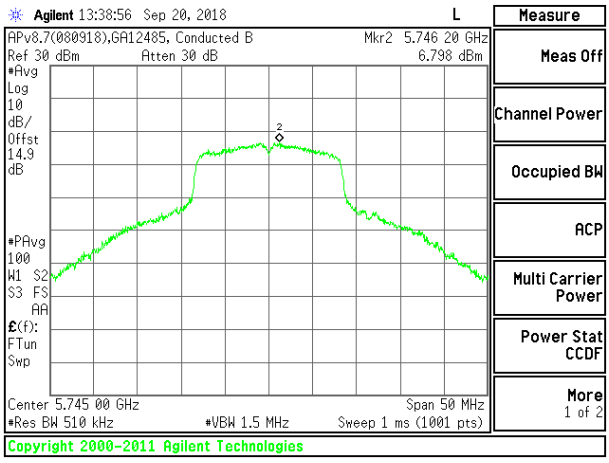

LOW CHANNEL CHAIN 3

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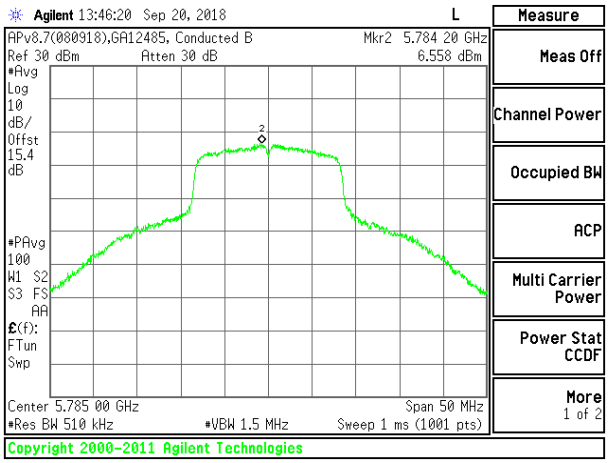
MID CHANNEL



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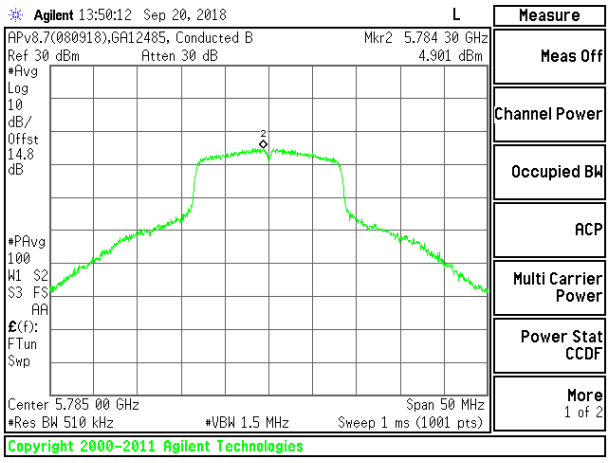
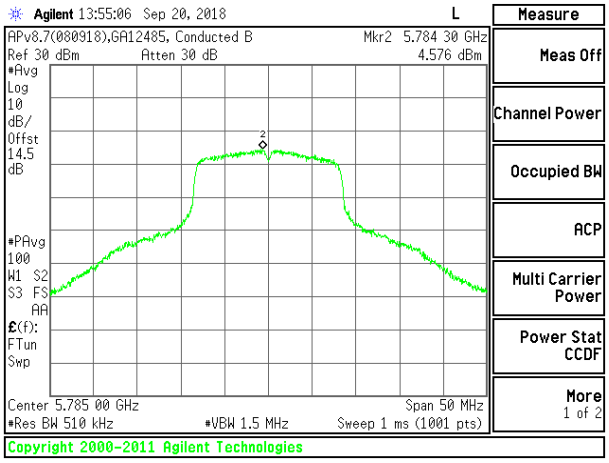


MID CHANNEL CHAIN 1



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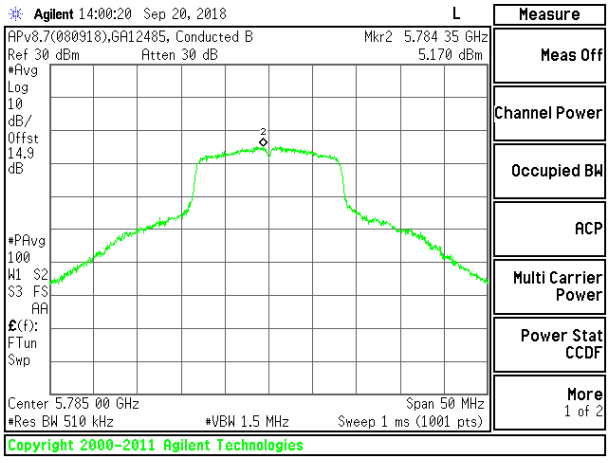

MID CHANNEL CHAIN 3

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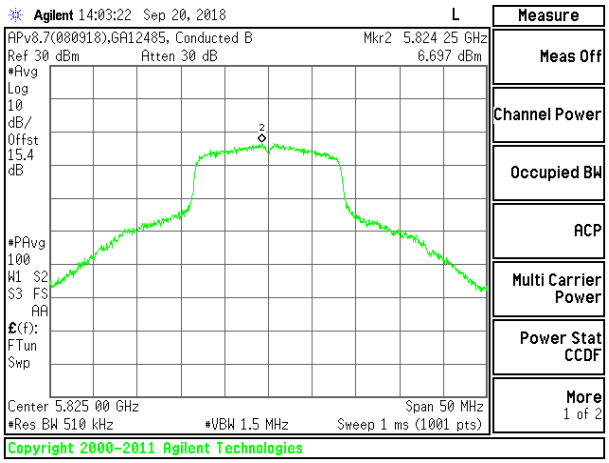
HIGH CHANNEL



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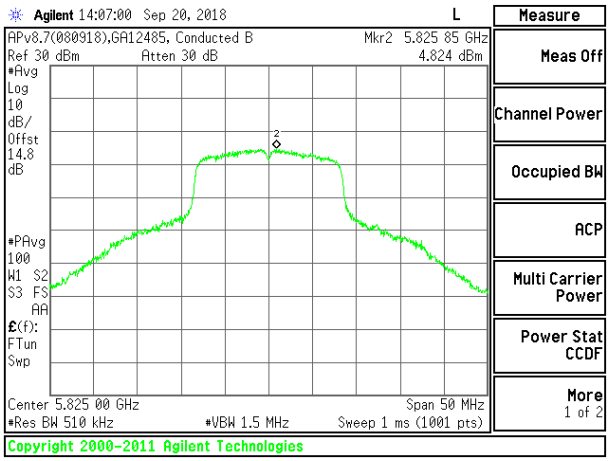
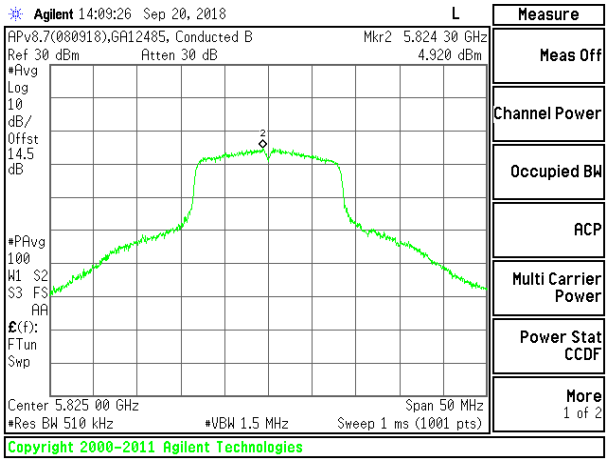


HIGH CHANNEL CHAIN 1



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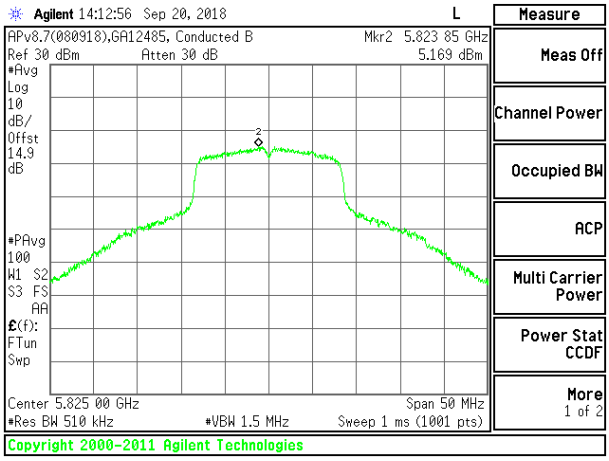

HIGH CHANNEL CHAIN 3

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8.5.1.5. 802.11n HT20 MODE IN THE 5.2 GHz BAND

IC

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)
Low	5180	17.6510
Mid	5200	17.5540
High	5240	17.5460

Limits

Channel	Frequency (MHz)	ISED EIRP Limit (dBm)	ISED eirp PSD Limit (dBm/ 1MHz)
Low	5180	22.47	10.00
Mid	5200	22.44	10.00
High	5240	22.44	10.00

Duty Cycle CF (dB)	0.46	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	19.46	22.47	-3.01
Mid	5200	19.25	22.44	-3.19
High	5240	19.49	22.44	-2.95

PSD Results

Channel	Frequency (MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	9.15	10.00	-0.85
Mid	5200	9.28	10.00	-0.73
High	5240	8.96	10.00	-1.04

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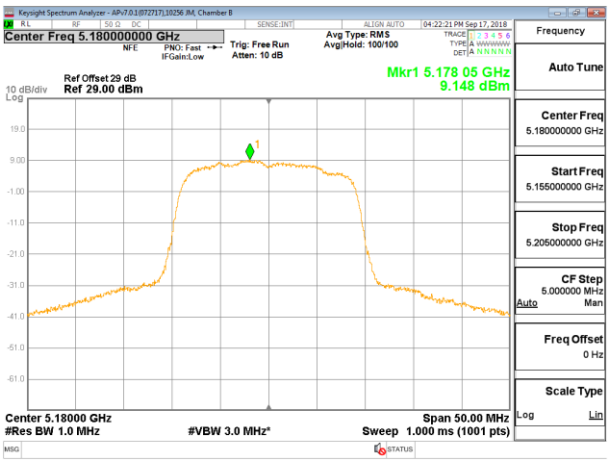
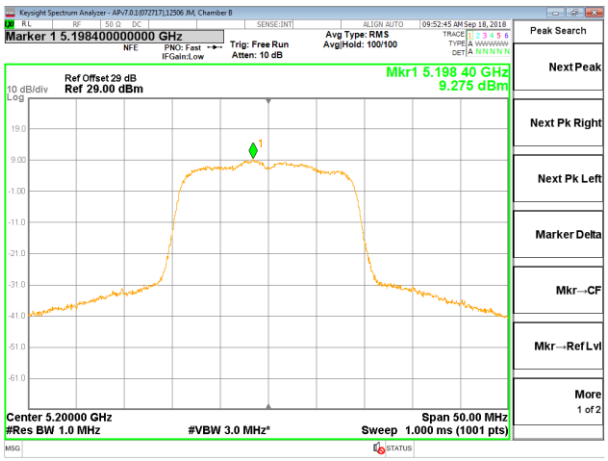
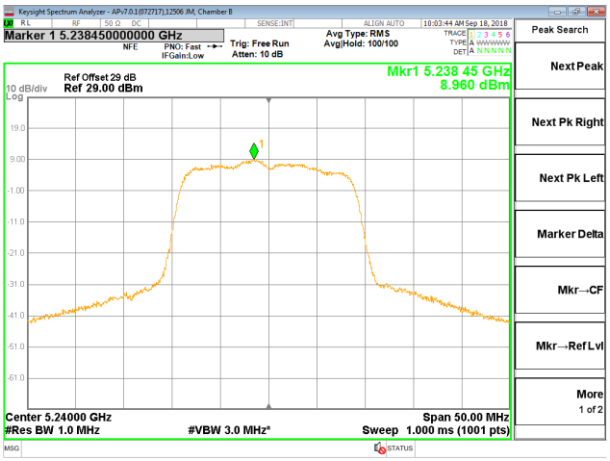


LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

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FCC

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	17.5776	4.41	7.42
Mid	5200	17.5513	4.41	7.42
High	5240	17.6405	4.41	7.42

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	22.45	18.04	24.00	9.58	10.00	9.58
Mid	5200	24.00	22.44	18.03	24.00	9.58	10.00	9.58
High	5240	24.00	22.47	18.06	24.00	9.58	10.00	9.58

Duty Cycle CF (dB)	0.46	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.45	13.89	13.90	12.92	19.58	24.00	-4.42
Mid	5200	13.55	13.95	13.91	12.96	19.63	24.00	-4.37
High	5240	13.34	13.57	14.13	12.84	19.52	24.00	-4.48

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Chain 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	2.60	3.36	2.96	1.63	9.16	9.58	-0.42
Mid	5200	2.79	2.94	3.12	1.83	9.18	9.58	-0.40
High	5240	3.03	2.63	3.52	1.39	9.19	9.58	-0.39

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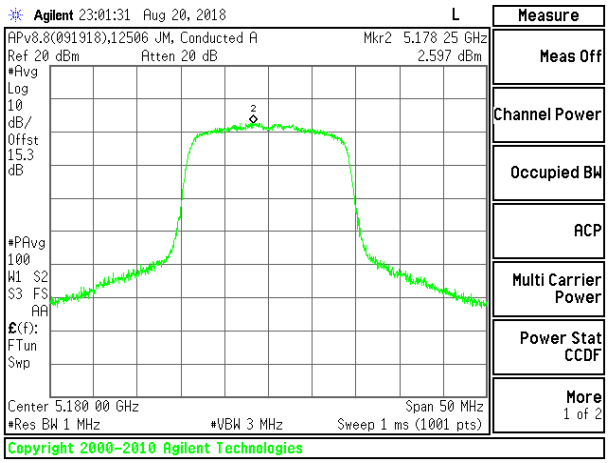
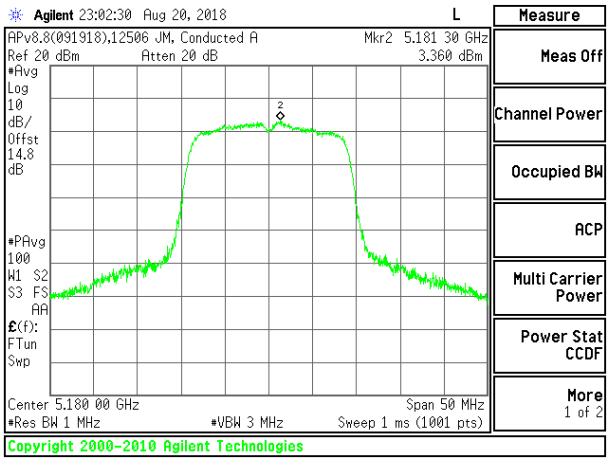
FCC

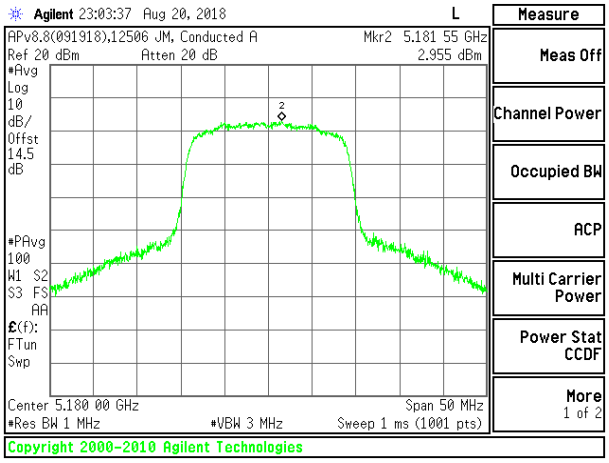
LOW CHANNEL



LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1



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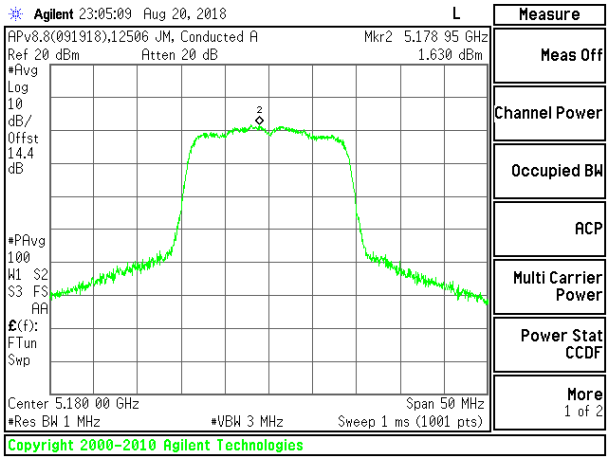

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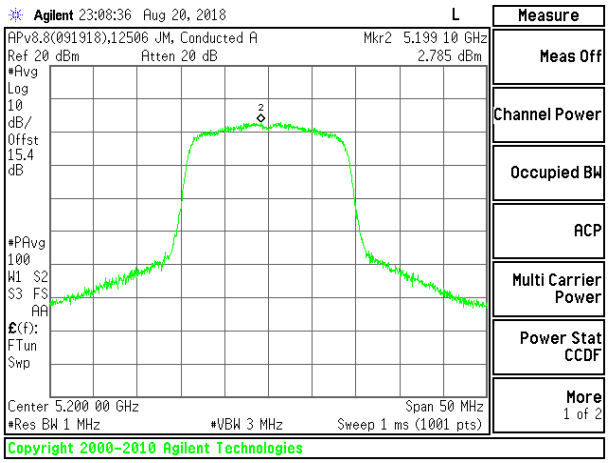
MID CHANNEL



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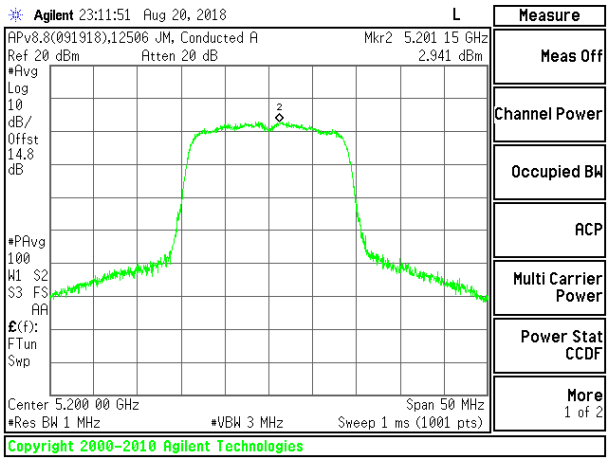

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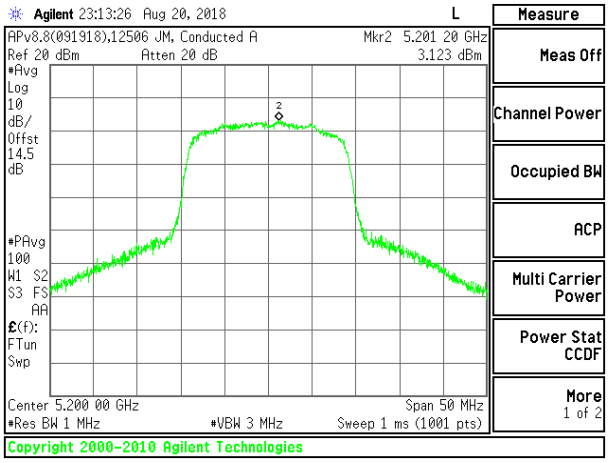

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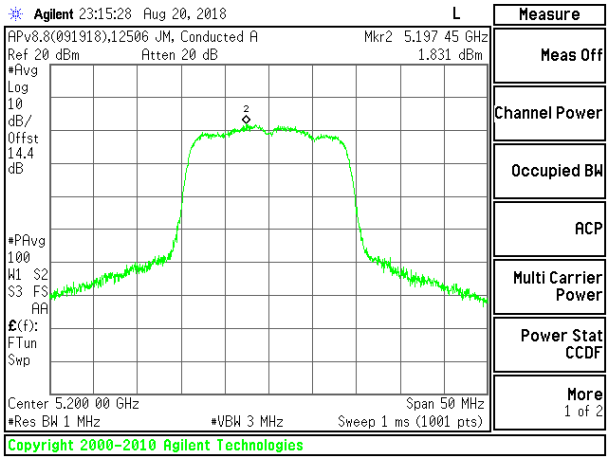

MID CHANNEL CHAIN 3

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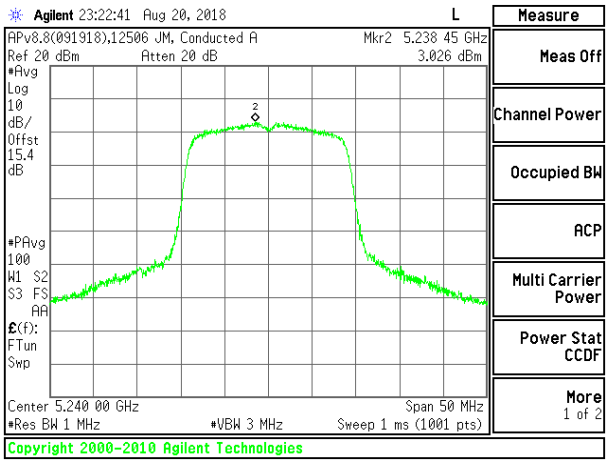
HIGH CHANNEL



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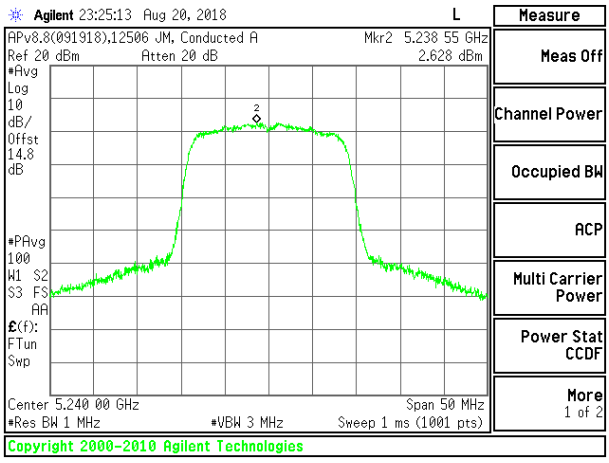
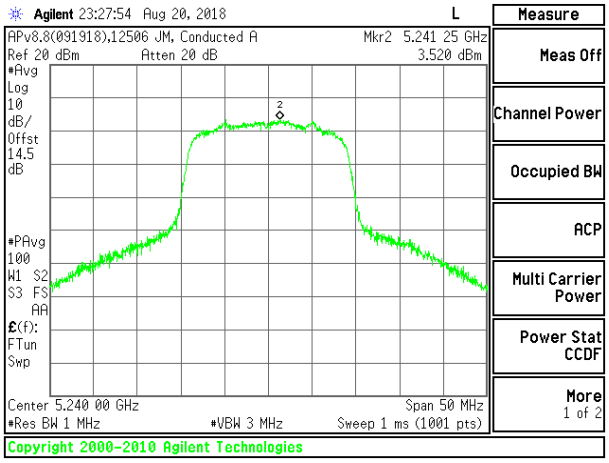


HIGH CHANNEL CHAIN 1



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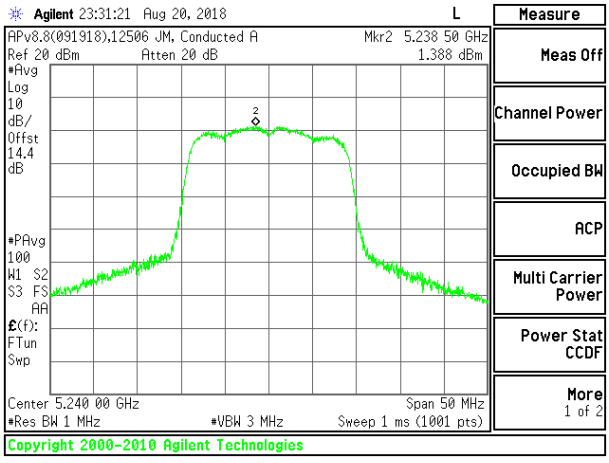

HIGH CHANNEL CHAIN 3

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8.5.1.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

FCC+IC

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Direction Gain for Power (dBi)	Direction Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5260	20.25	4.41	7.42	24.00	9.58
Mid	5300	20.30	4.41	7.42	24.00	9.58
High	5320	20.45	4.41	7.42	24.00	9.58

Duty Cycle CF (dB)	0.46	Included in Calculations of Corr'd PSD

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.69	14.91	15.29	13.81	20.73	24.00	-3.27
Mid	5300	13.79	14.05	14.49	12.62	19.81	24.00	-4.19
High	5320	13.32	13.45	14.02	12.33	19.34	24.00	-4.66

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Chain 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5260	3.36	3.42	3.26	1.83	9.50	9.58	-0.08
Mid	5300	3.08	3.19	3.43	1.49	9.34	9.58	-0.24
High	5320	3.24	3.17	2.70	1.37	9.16	9.58	-0.42

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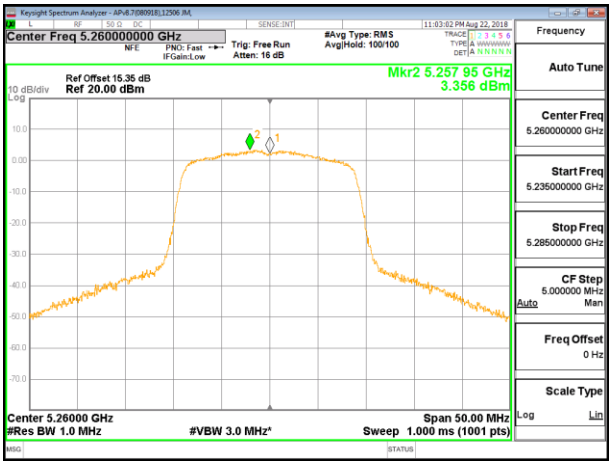
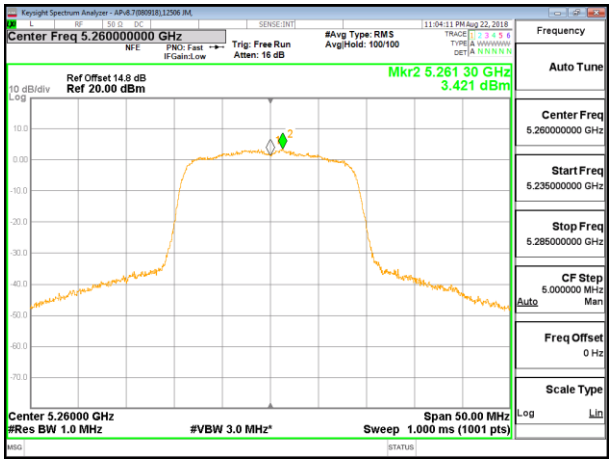
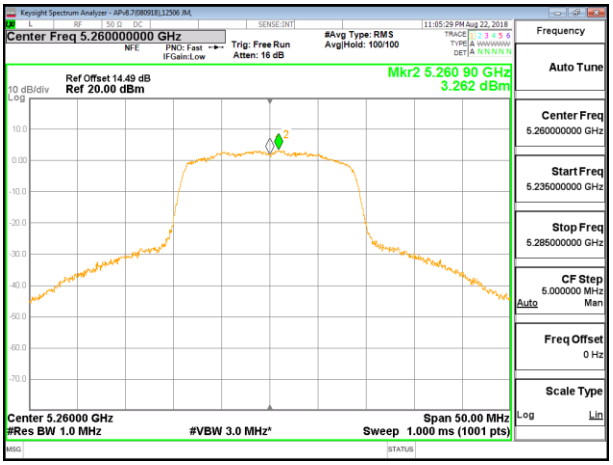
LOW CHANNEL



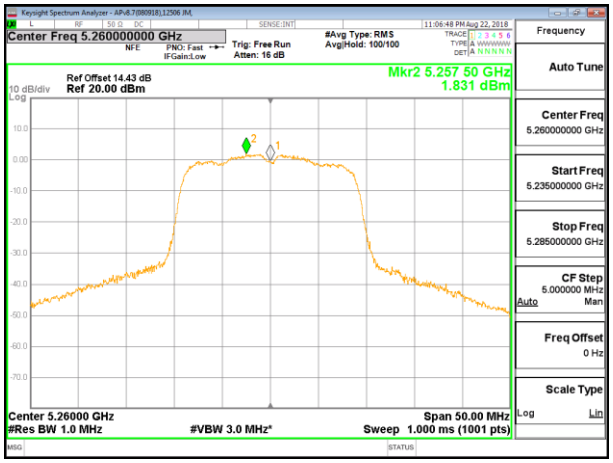
LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1



LOW CHANNEL CHAIN 2



LOW CHANNEL CHAIN 3

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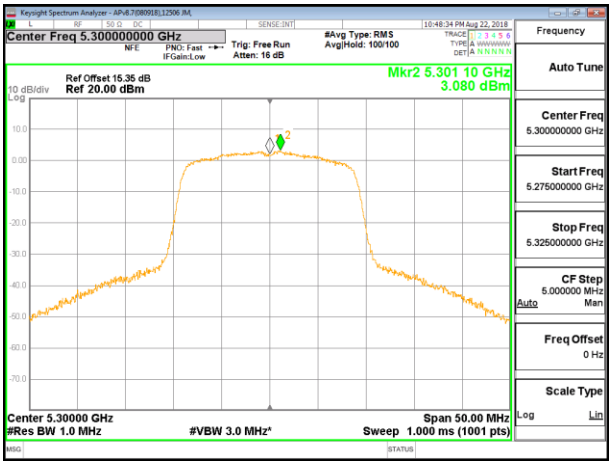
MID CHANNEL



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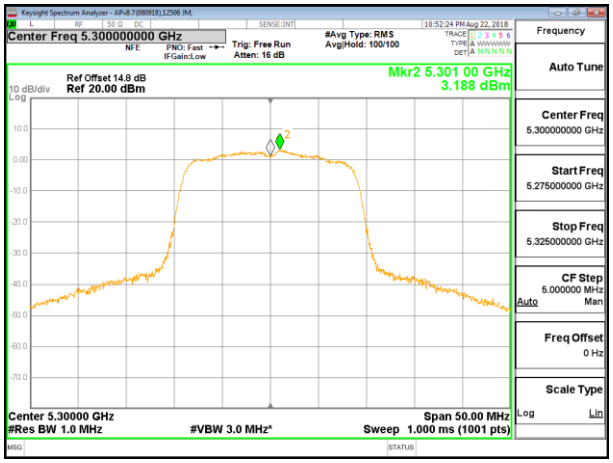
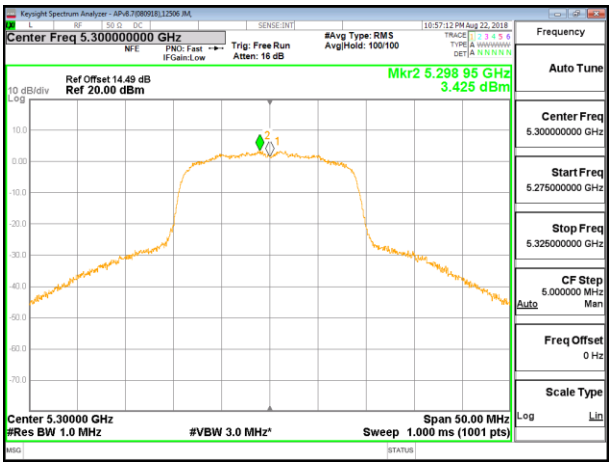


MID CHANNEL CHAIN 1



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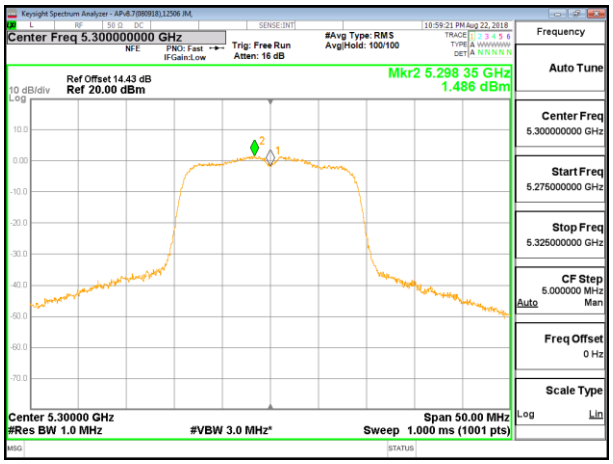

MID CHANNEL CHAIN 3

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