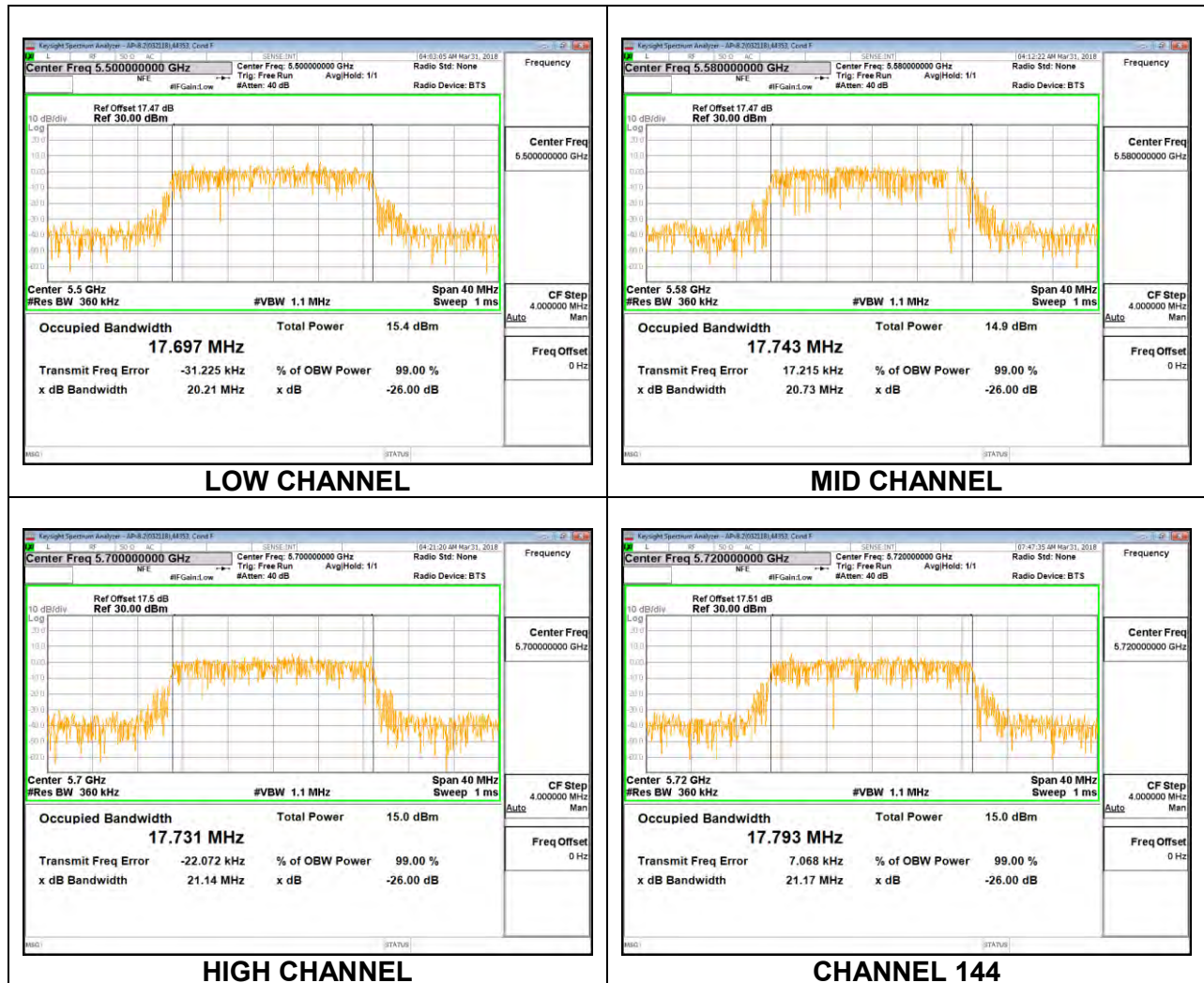


1TX Antenna 5 MODE

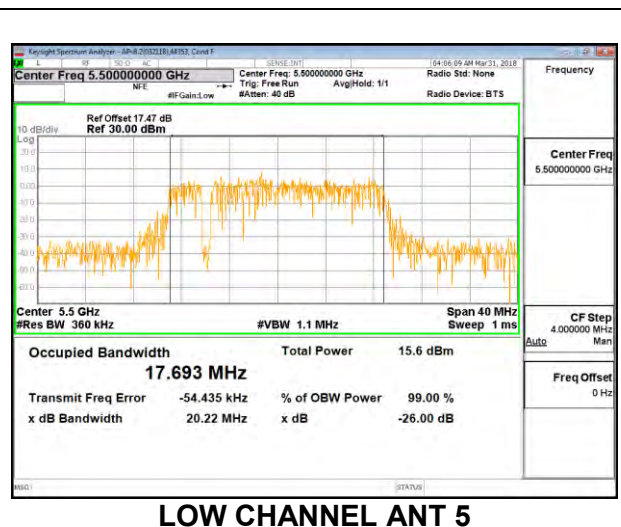
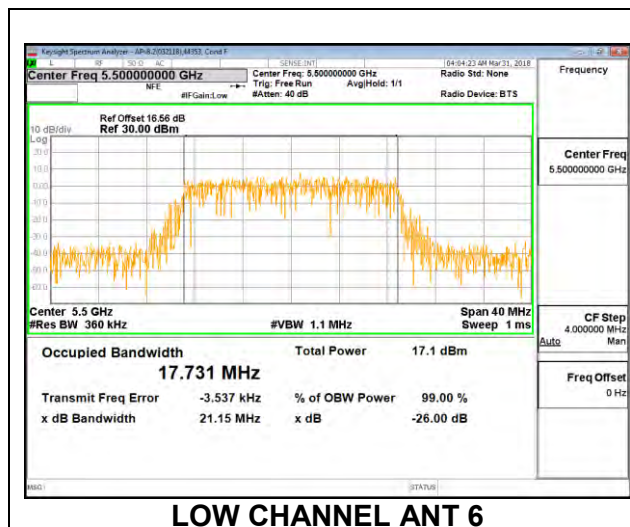
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5500	17.697
Mid	5580	17.743
High	5700	17.731
144	5720	17.793



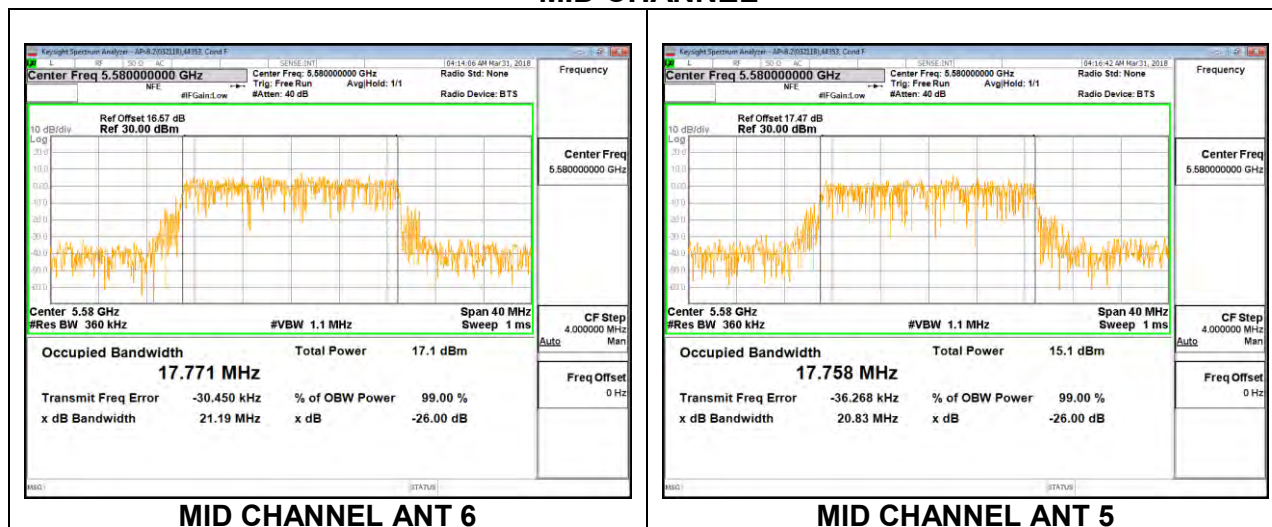
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Ant 6 (MHz)	99% Bandwidth Ant 5 (MHz)
Low	5500	17.731	17.693
Mid	5580	17.771	17.758
High	5700	17.721	17.779
144	5720	17.798	17.749

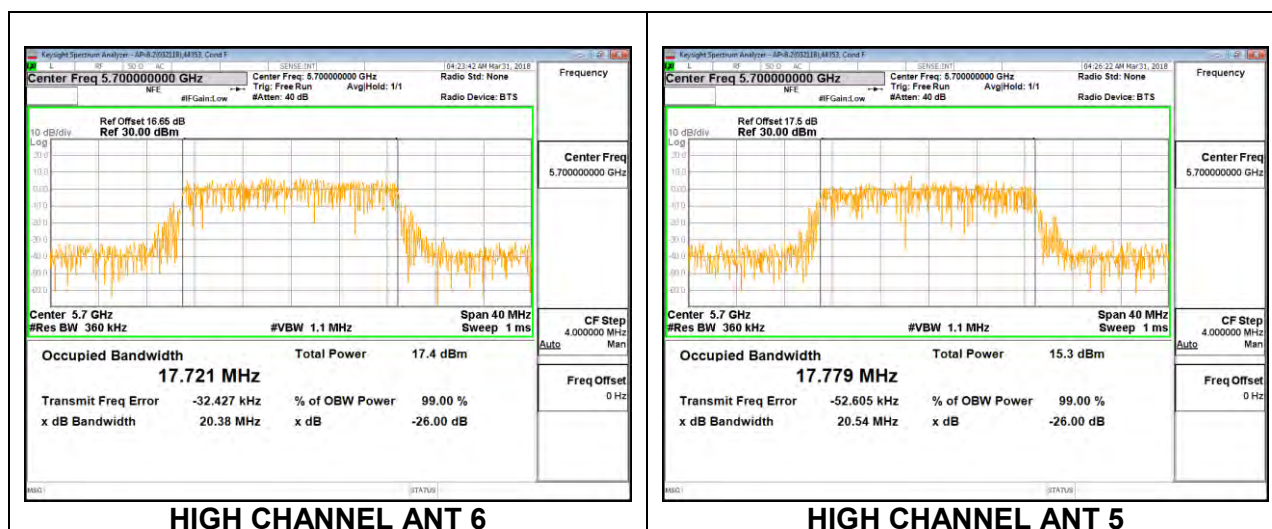
LOW CHANNEL



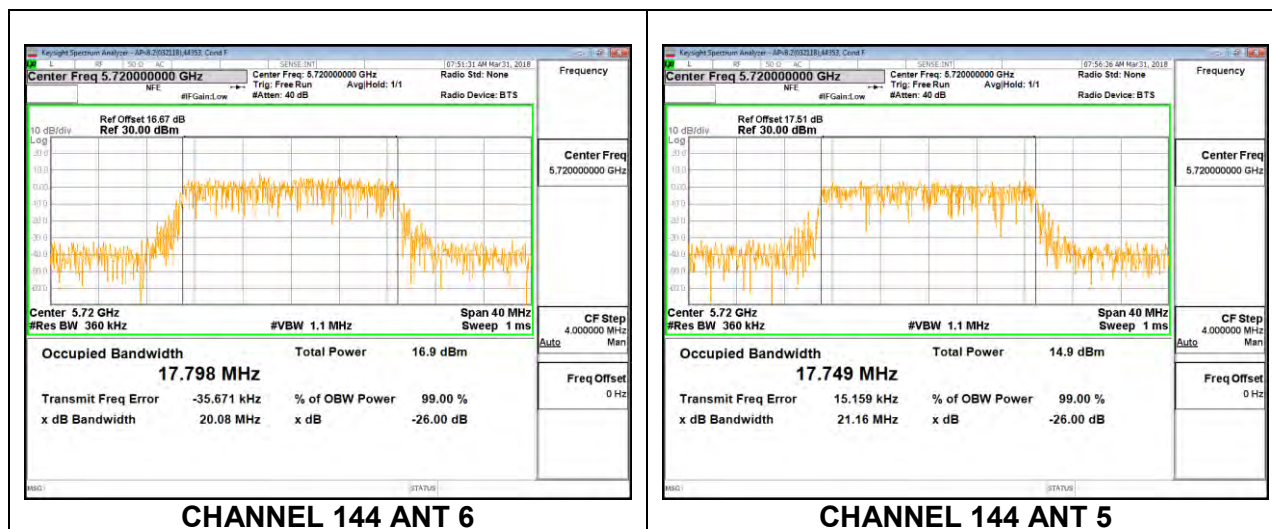
MID CHANNEL



HIGH CHANNEL



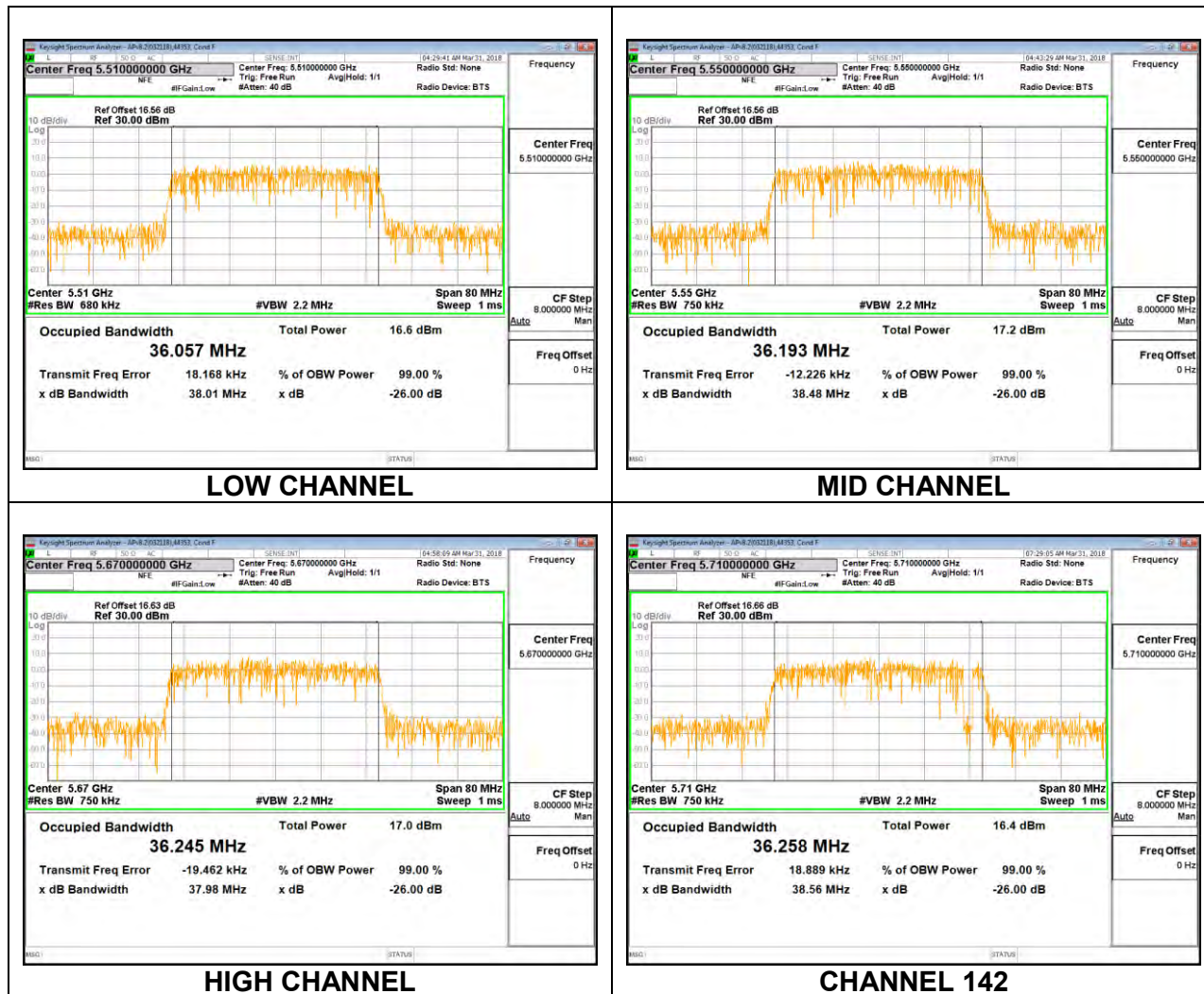
CHANNEL 144



8.3.8. 802.11n HT40 MODE IN THE 5.6 GHz BAND

1TX Antenna 6 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5510	36.057
Mid	5550	36.193
High	5670	36.245
142	5710	36.258



1TX Antenna 5 MODE

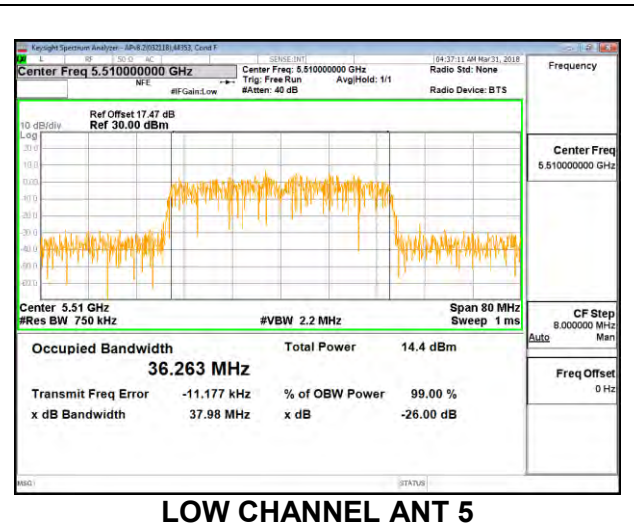
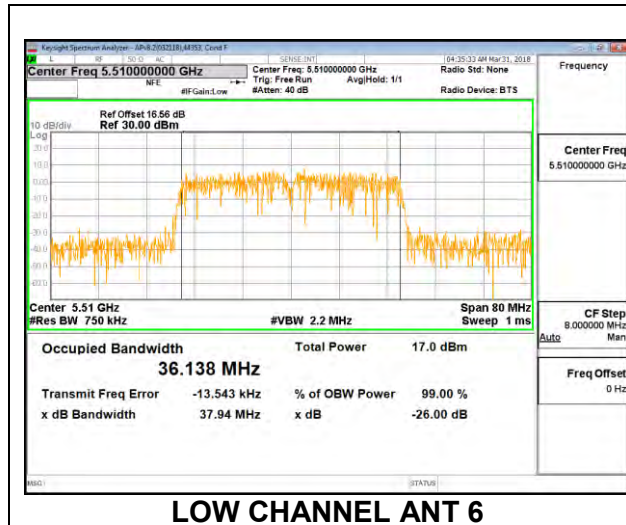
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5510	36.205
Mid	5550	36.217
High	5670	36.301
142	5710	36.329



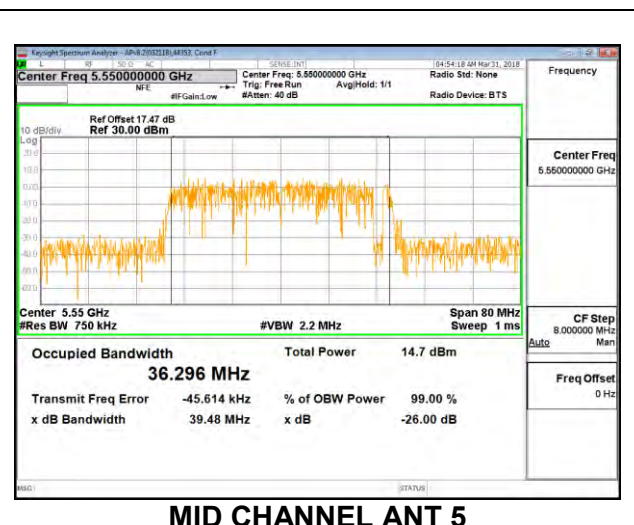
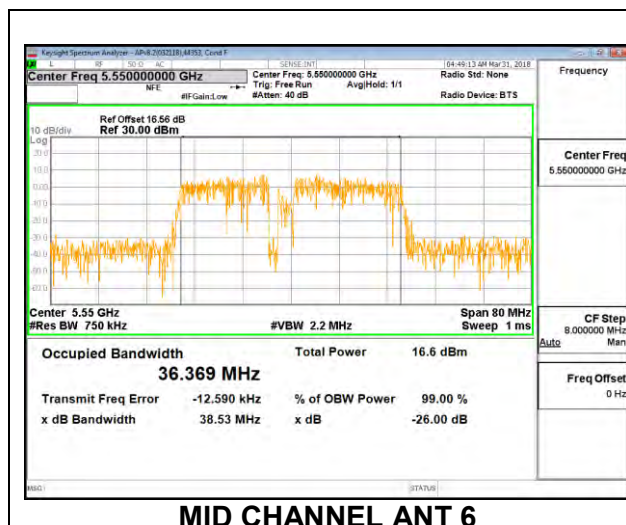
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Ant 6 (MHz)	99% Bandwidth Ant 5 (MHz)
Low	5510	36.138	36.263
Mid	5550	36.369	36.296
High	5670	36.225	36.289
142	5710	36.218	36.332

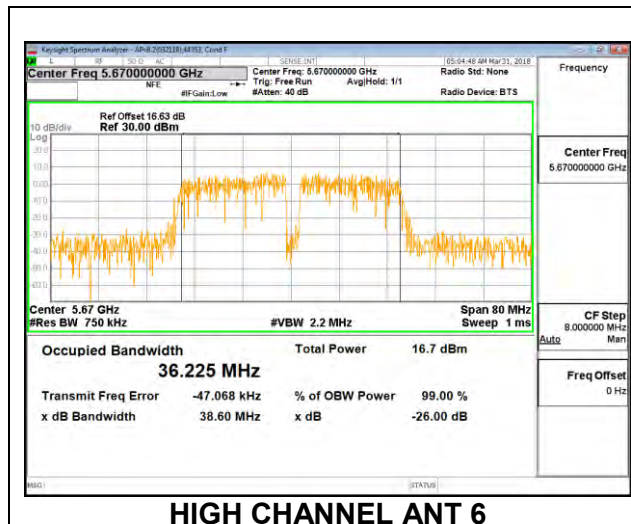
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

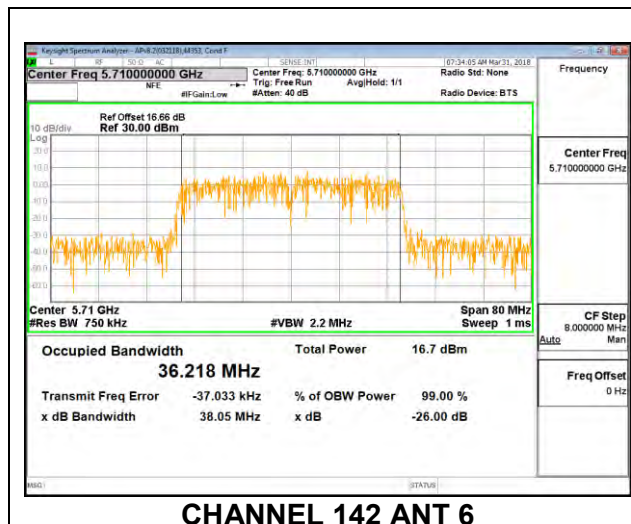


HIGH CHANNEL ANT 6



HIGH CHANNEL ANT 5

CHANNEL 142



CHANNEL 142 ANT 6



CHANNEL 142 ANT 5

8.3.9. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

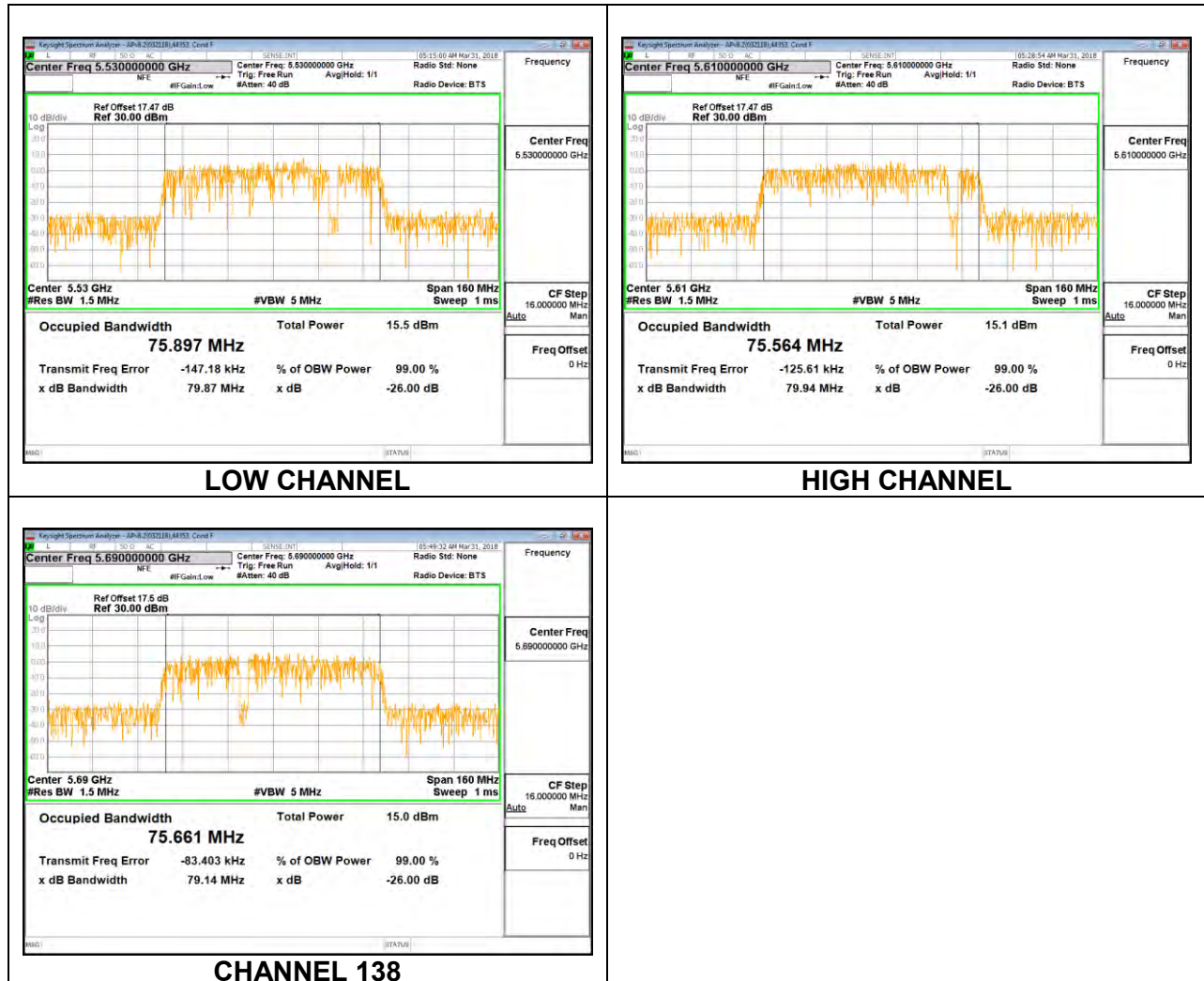
1TX Antenna 6 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5530	76.044
High	5610	75.737
138	5690	75.645



1TX Antenna 5 MODE

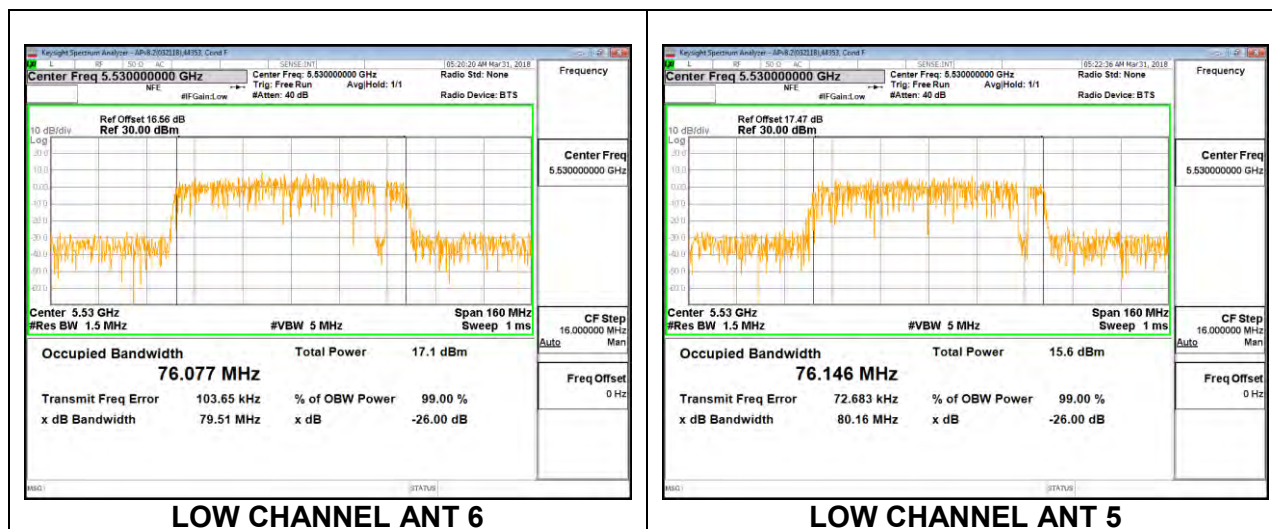
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5530	75.897
High	5610	75.564
138	5690	75.661



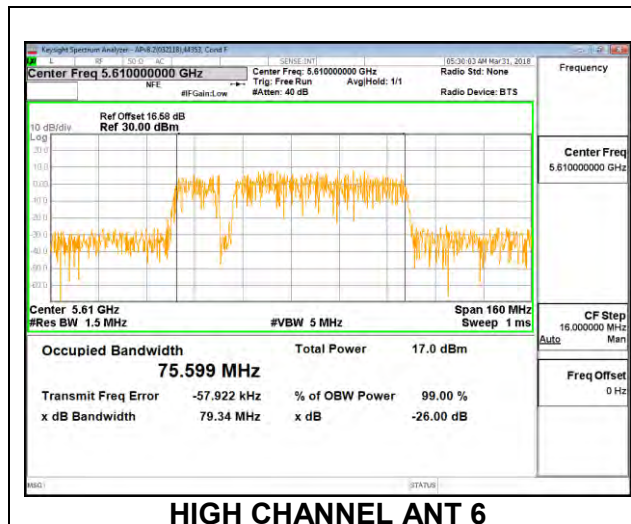
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Ant 6 (MHz)	99% Bandwidth Ant 5 (MHz)
Low	5530	76.077	76.146
High	5610	75.599	75.998
138	5690	75.981	75.661

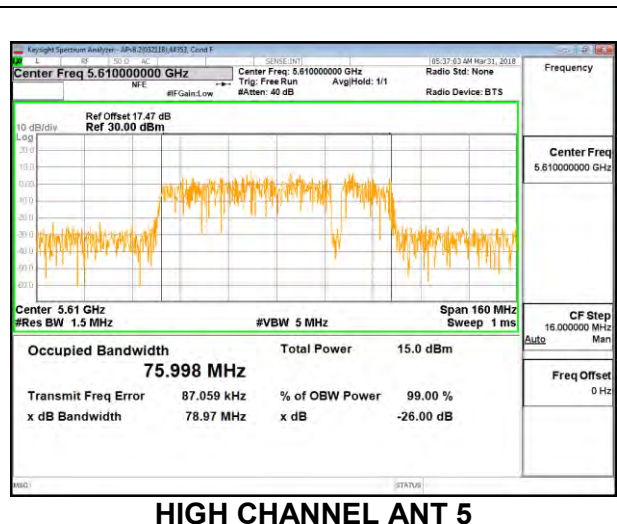
LOW CHANNEL



HIGH CHANNEL

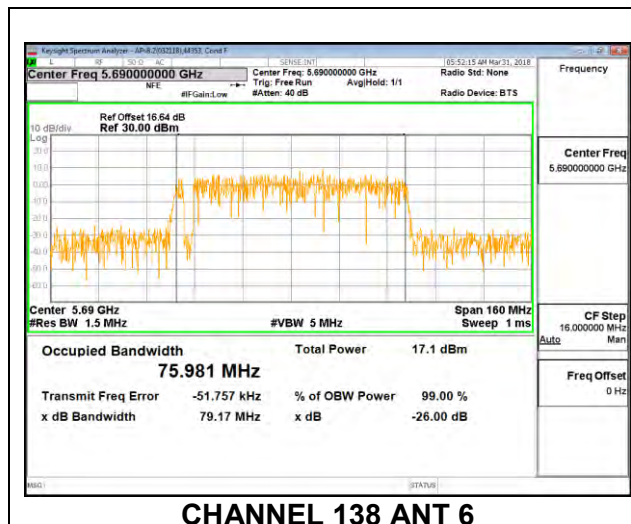


HIGH CHANNEL ANT 6

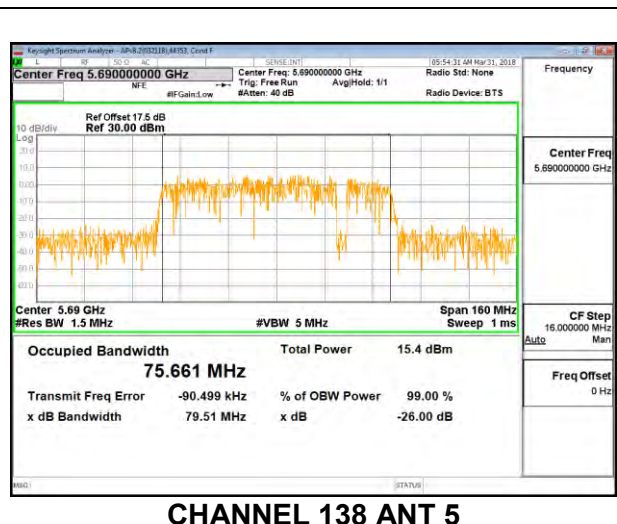


HIGH CHANNEL ANT 5

CHANNEL 138



CHANNEL 138 ANT 6

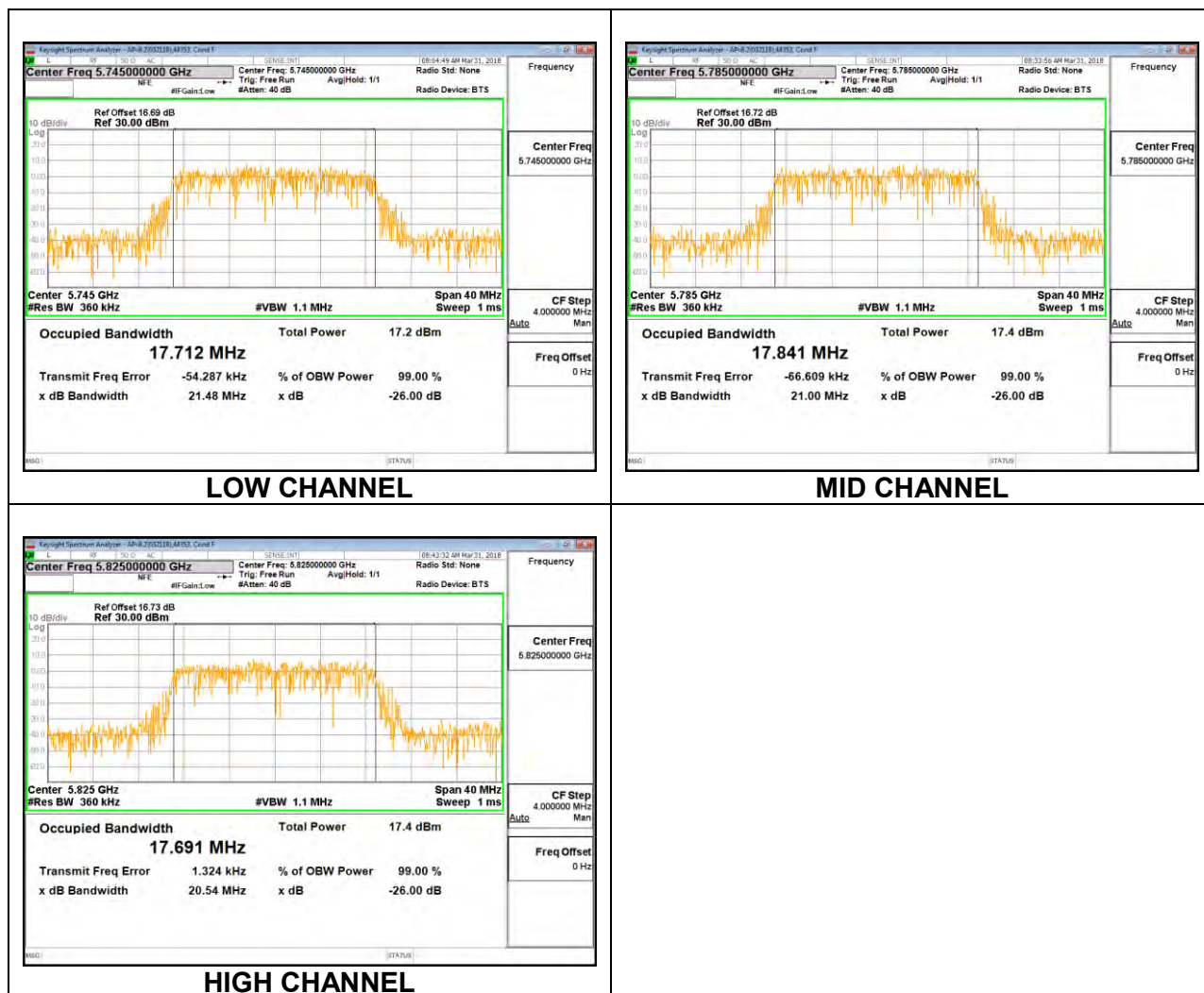


CHANNEL 138 ANT 5

8.3.10. 802.11n HT20 MODE IN THE 5.8 GHz BAND

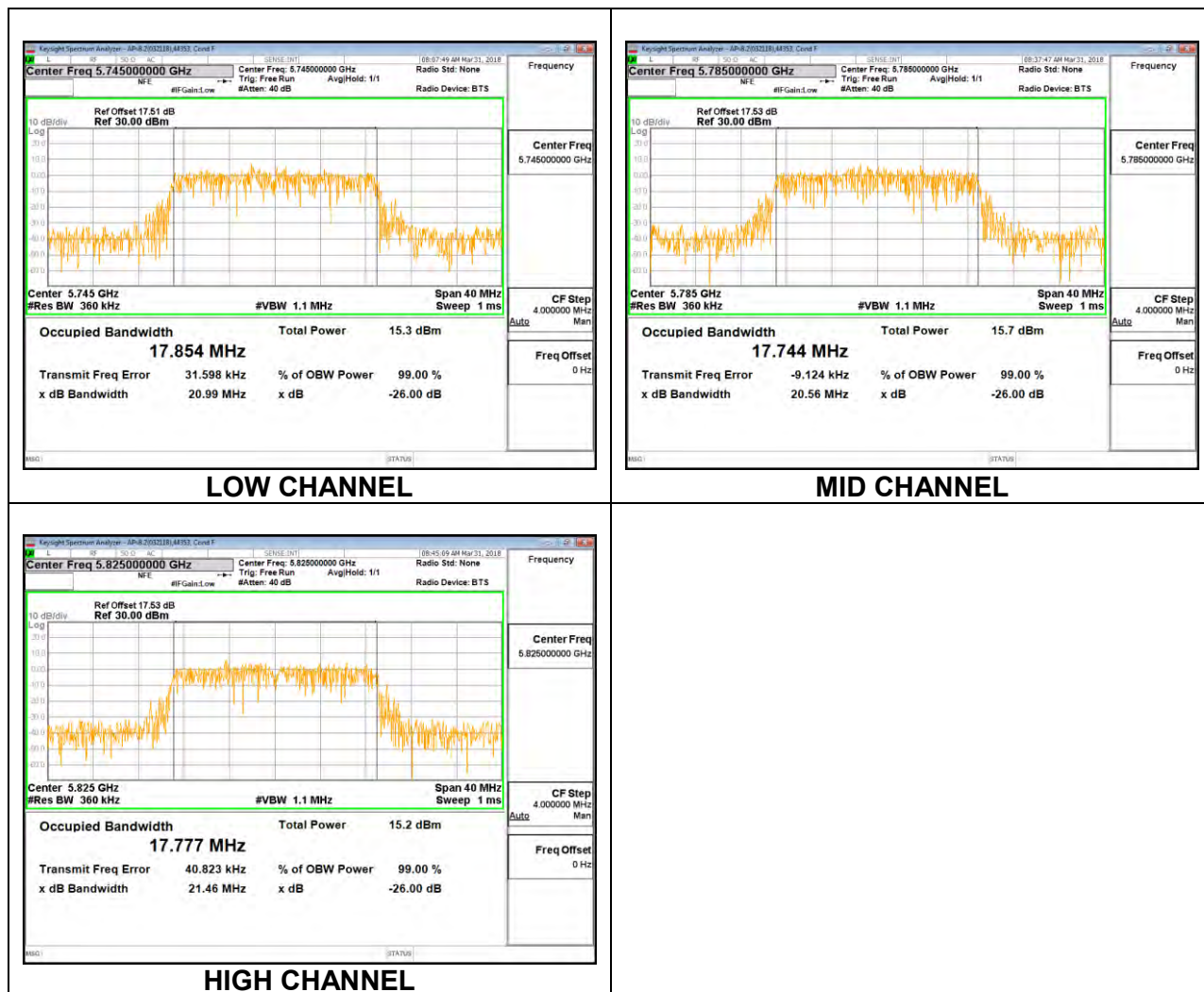
1TX Antenna 6 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	17.712
Mid	5785	17.841
High	5825	17.691



1TX Antenna 5 MODE

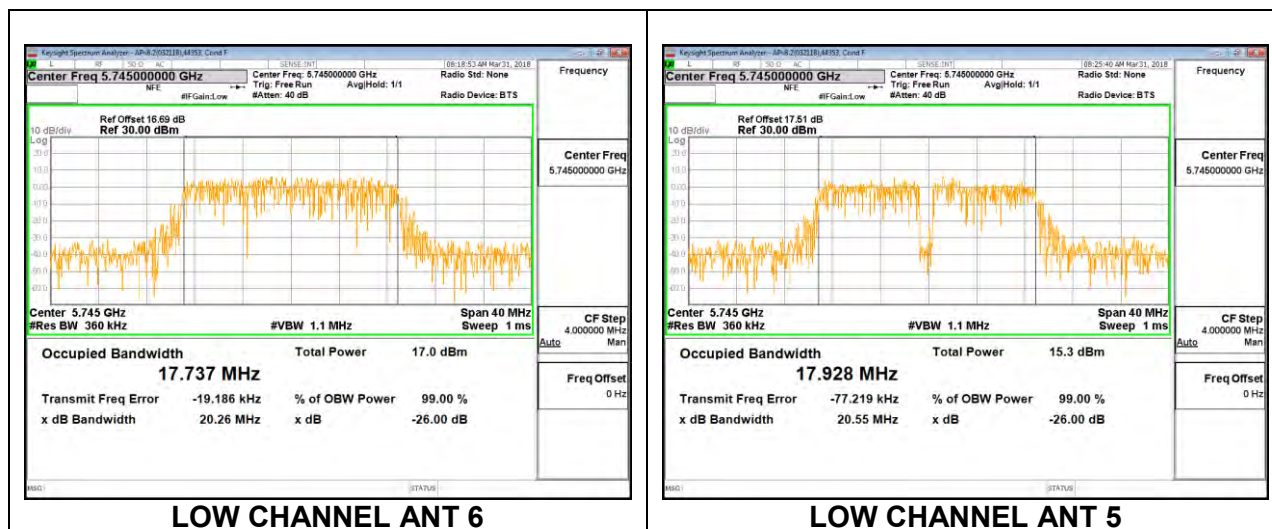
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	17.854
Mid	5785	17.744
High	5825	17.777



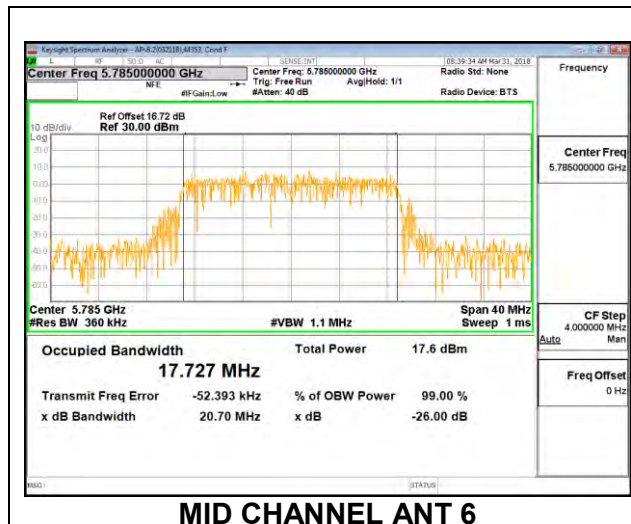
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Ant 6 (MHz)	99% Bandwidth Ant 5 (MHz)
Low	5745	17.737	17.928
Mid	5785	17.727	17.872
High	5825	17.835	17.690

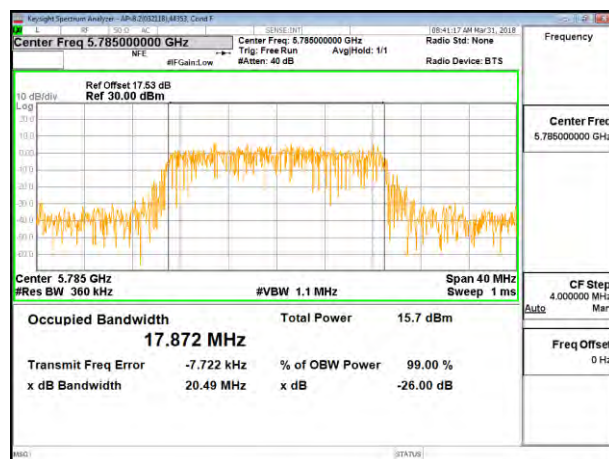
LOW CHANNEL



MID CHANNEL

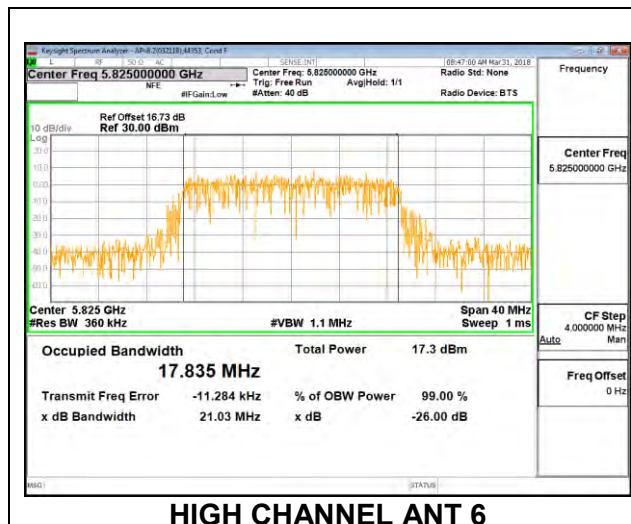


MID CHANNEL ANT 6

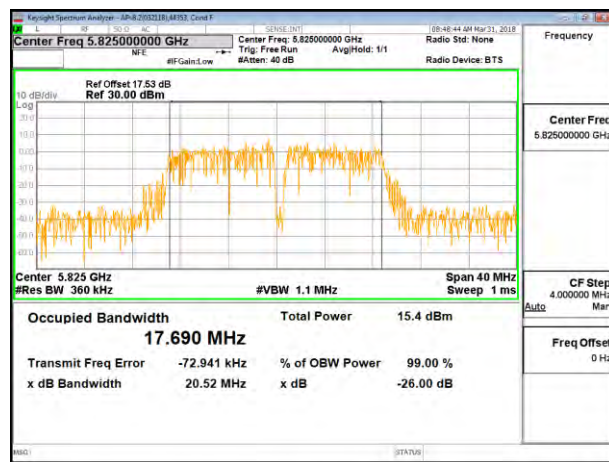


MID CHANNEL ANT 5

HIGH CHANNEL



HIGH CHANNEL ANT 6

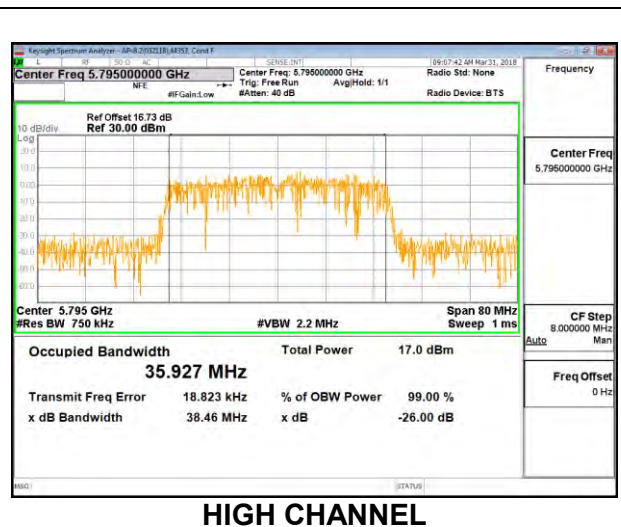
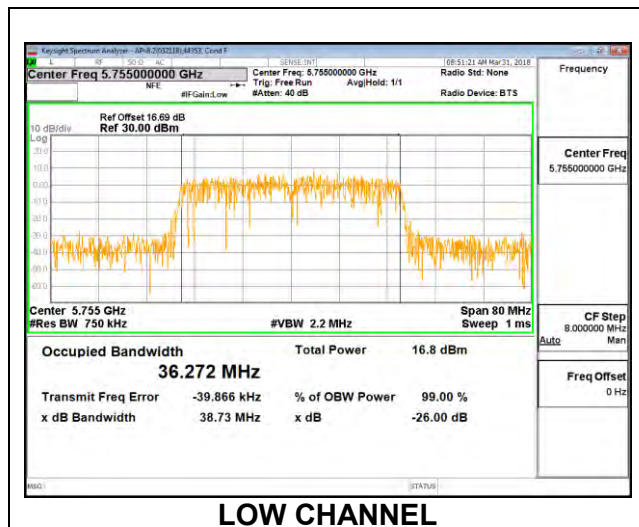


HIGH CHANNEL ANT 5

8.3.11. 802.11n HT40 MODE IN THE 5.8 GHz BAND

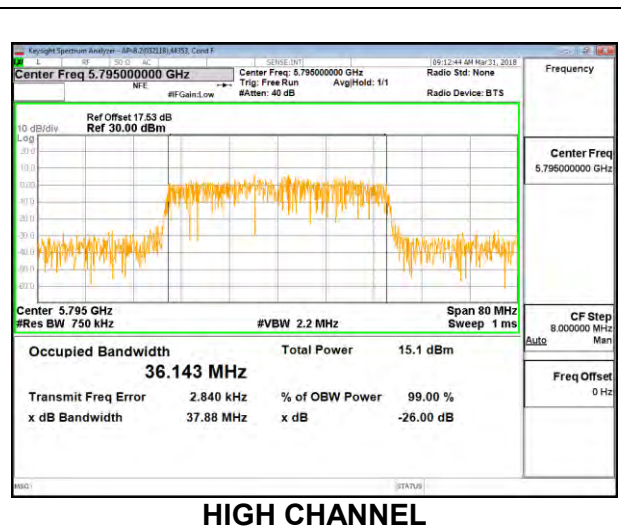
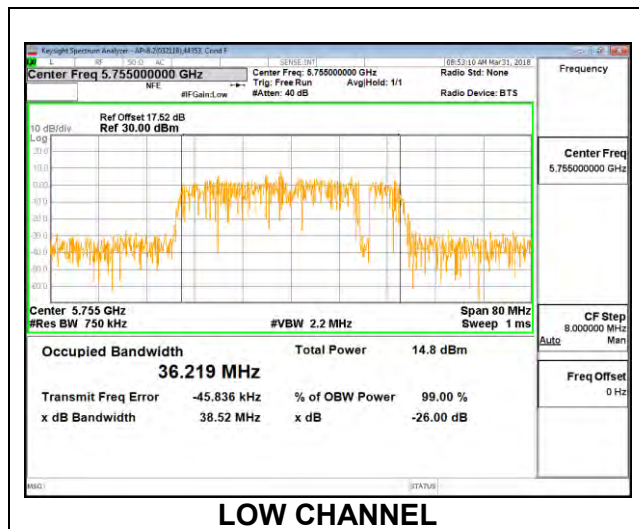
1TX Antenna 6 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	36.272
High	5795	35.927



1TX Antenna 5 MODE

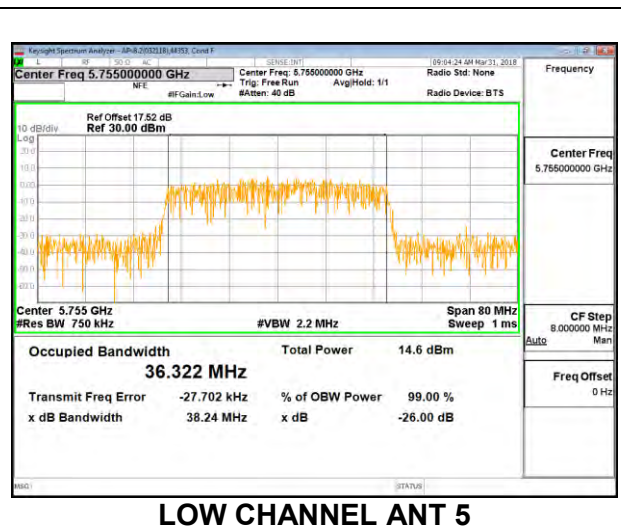
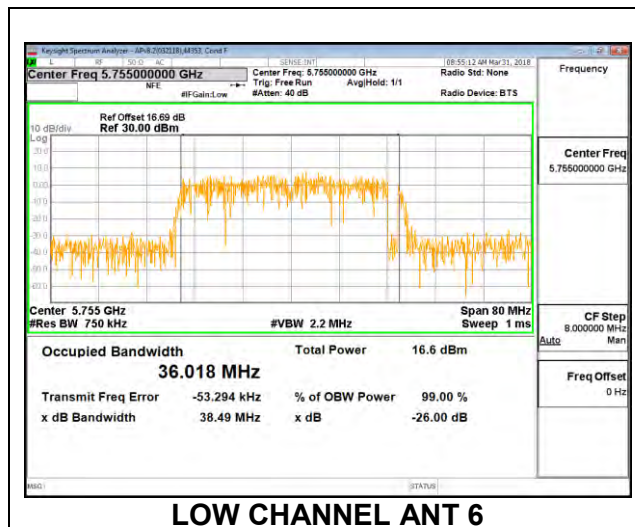
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	36.219
High	5795	36.143



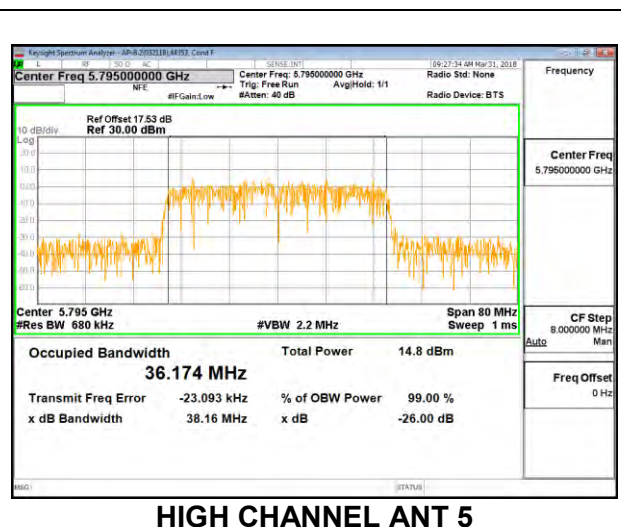
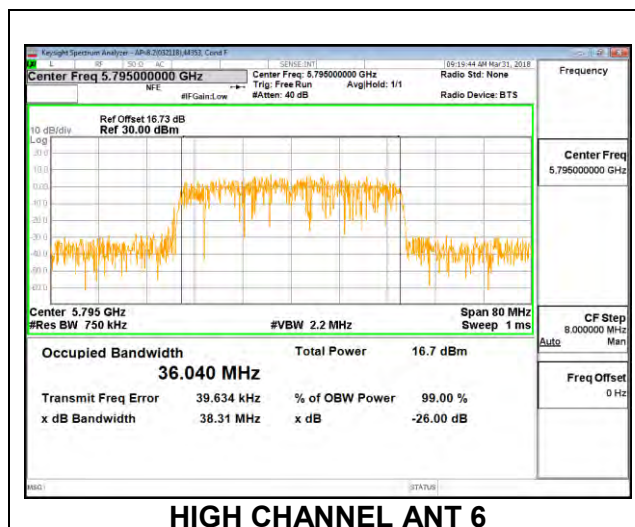
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Ant 6 (MHz)	99% Bandwidth Ant 5 (MHz)
Low	5755	36.018	36.322
High	5795	36.040	36.174

LOW CHANNEL



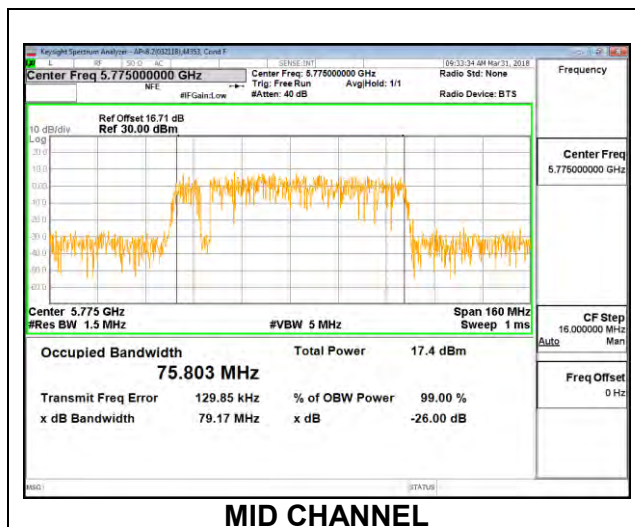
HIGH CHANNEL



8.3.12. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

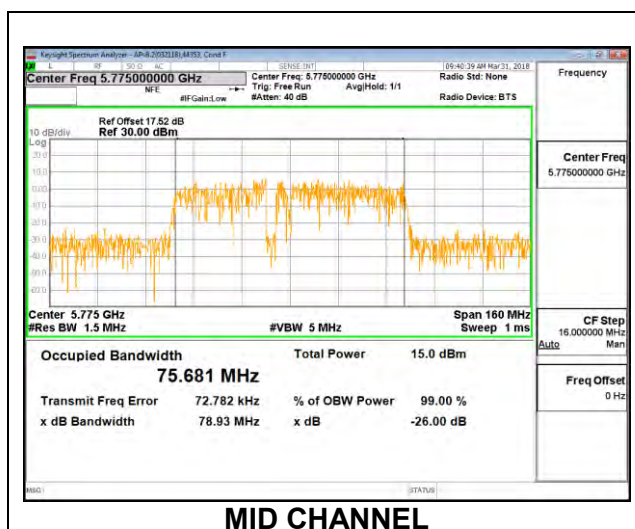
1TX Antenna 6 MODE

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	75.803



1TX Antenna 5 MODE

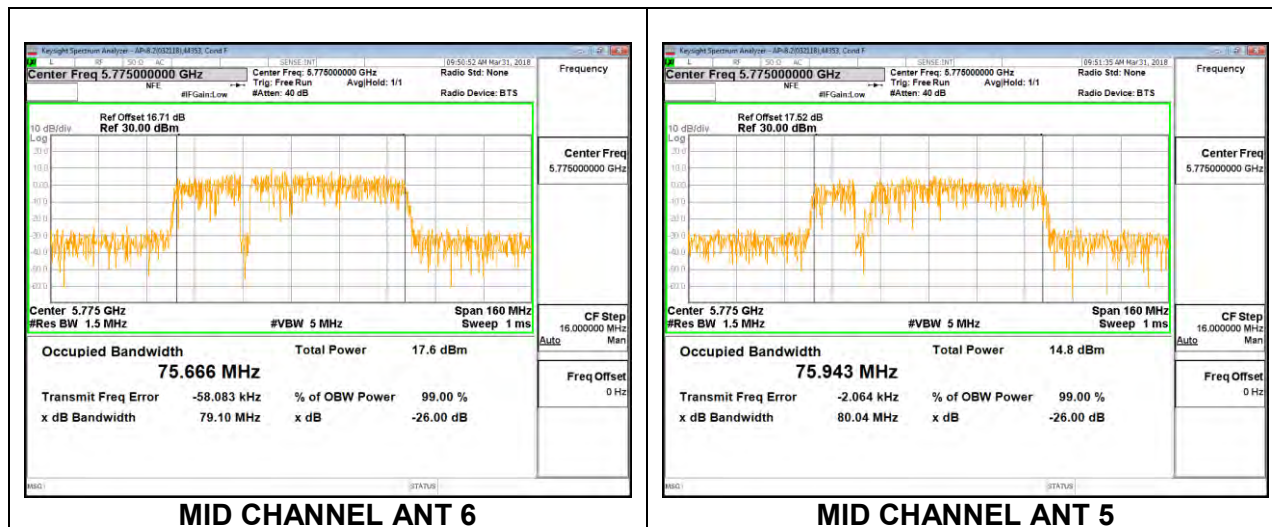
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	75.681



2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Ant 6 (MHz)	99% Bandwidth Ant 5 (MHz)
Mid	5775	75.666	75.943

MID CHANNEL



8.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 6.2.4.1

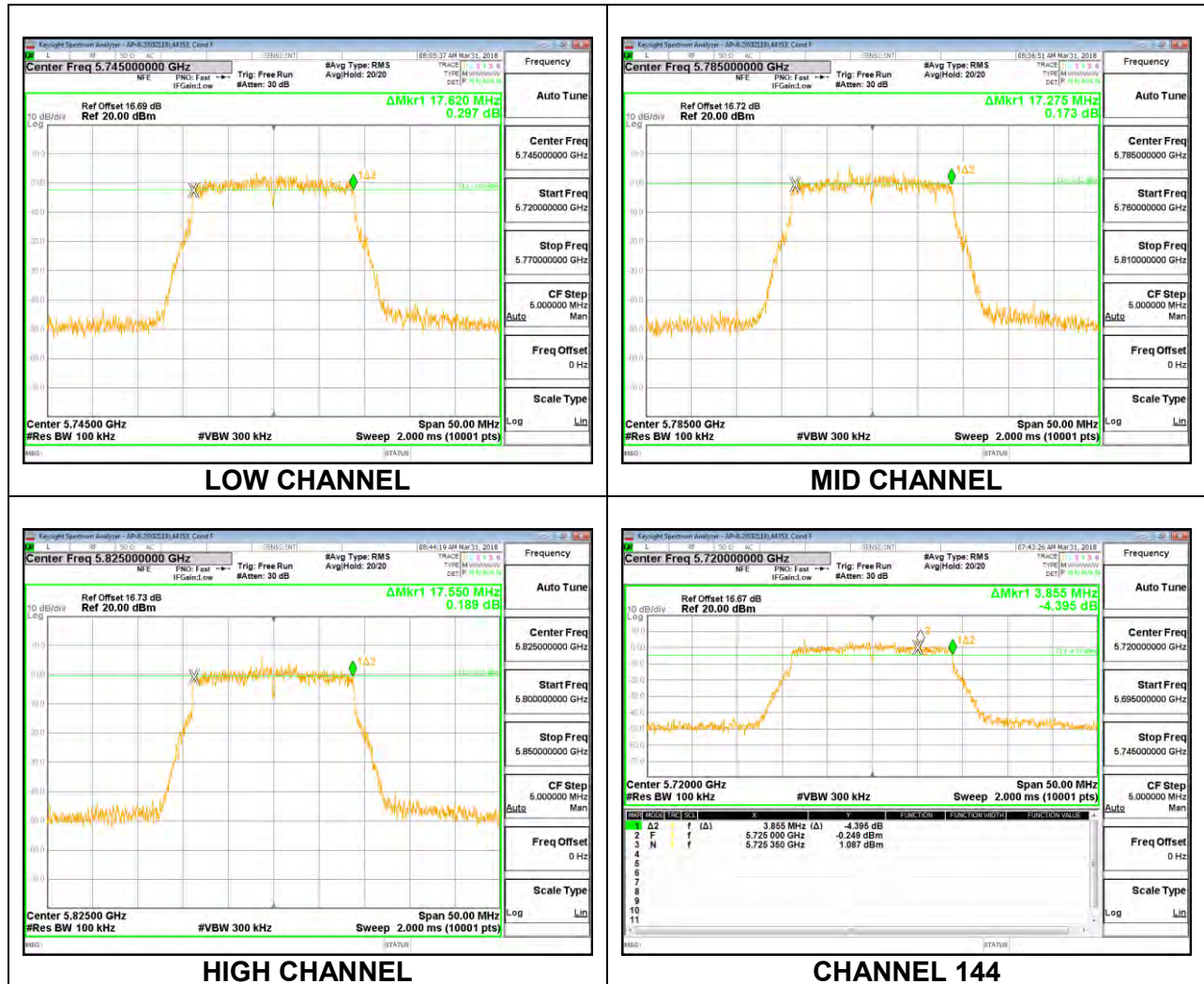
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

8.4.1. 802.11n HT20 MODE IN THE 5.8 GHz BAND

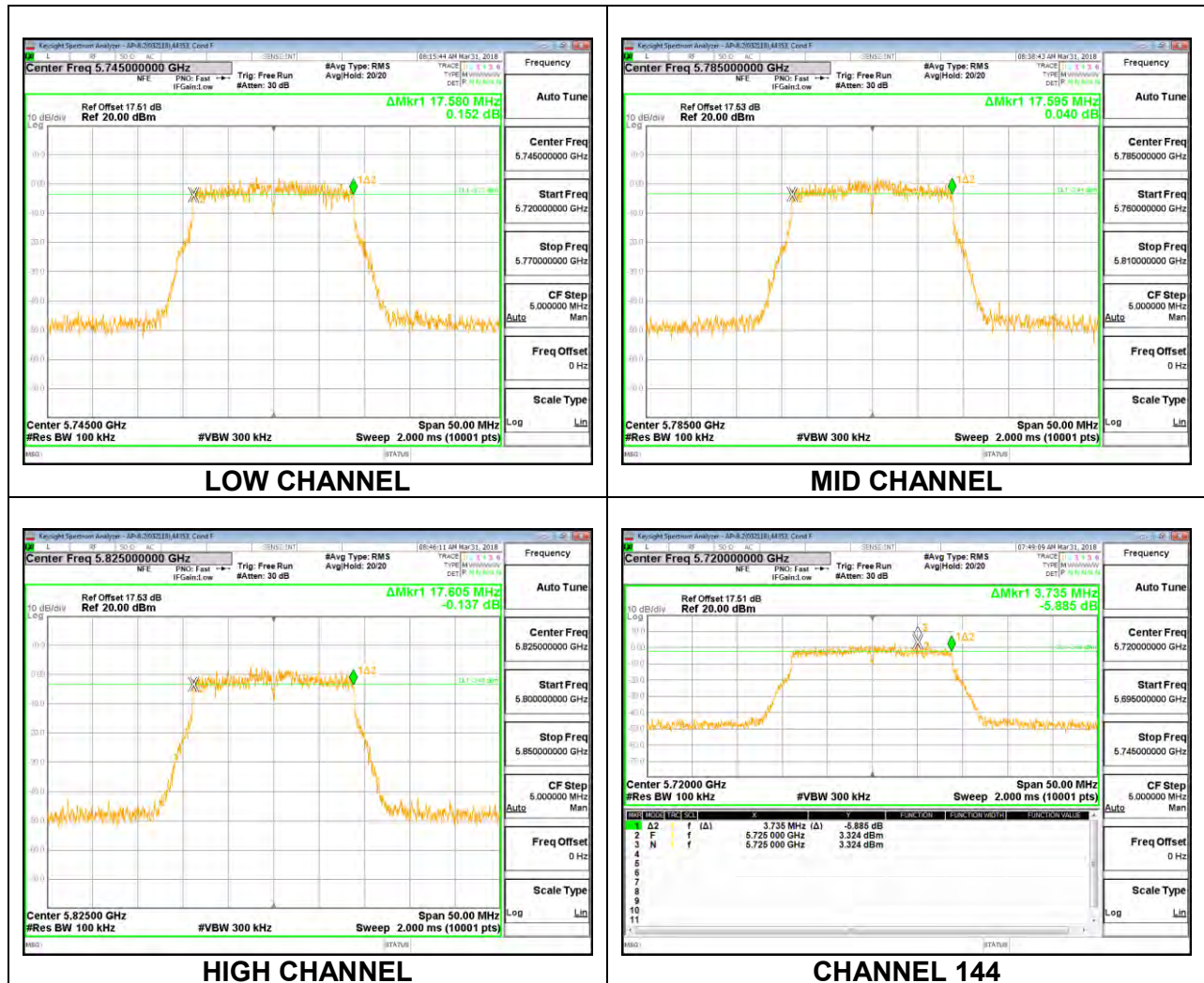
1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	17.620	0.5
Mid	5785	17.275	0.5
High	5825	17.550	0.5
144	5720	3.855	0.5



1TX Antenna 5 MODE

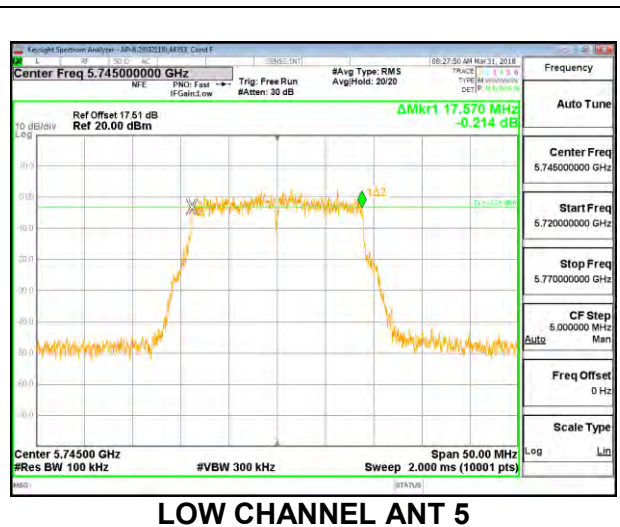
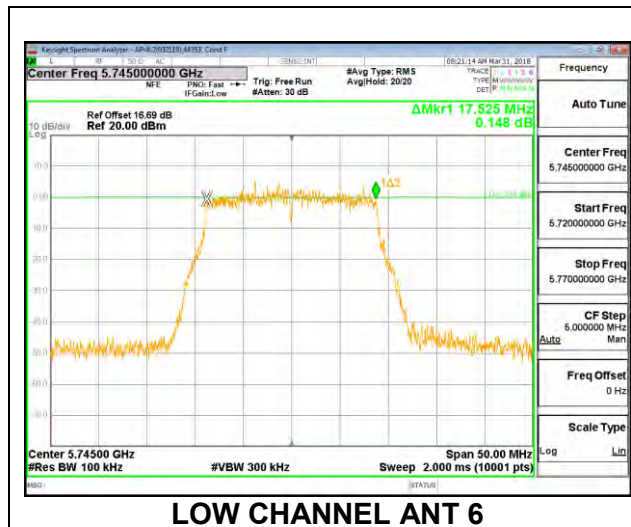
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	17.580	0.5
Mid	5785	17.595	0.5
High	5825	17.605	0.5
144	5720	3.735	0.5



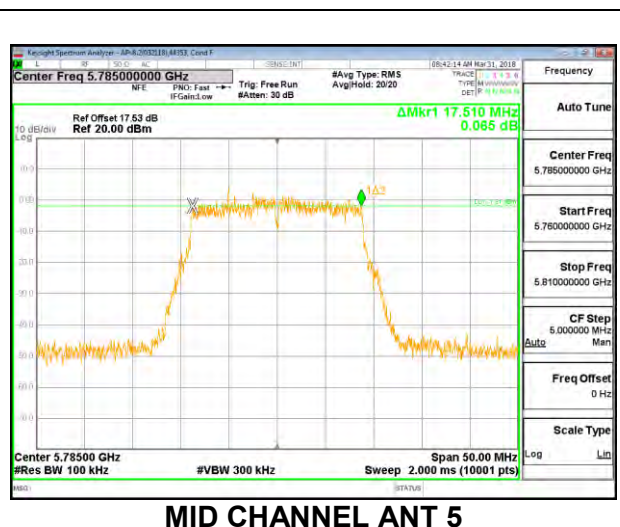
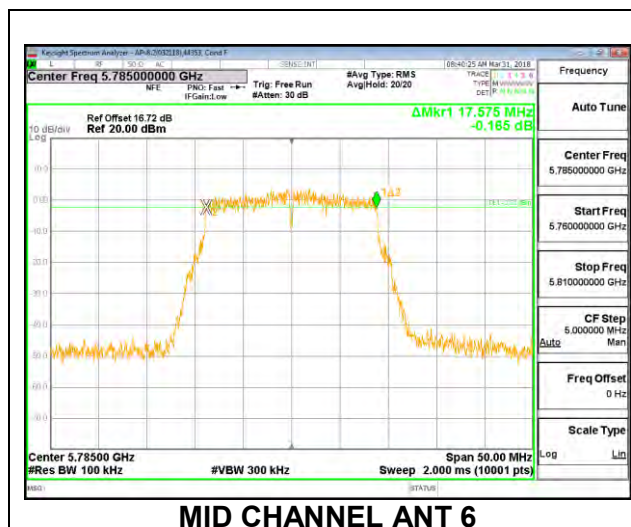
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	6 dB BW Ant 6 (MHz)	6 dB BW Ant 5 (MHz)	Minimum Limit (MHz)
Low	5745	17.525	17.570	0.5
Mid	5785	17.575	17.510	0.5
High	5825	17.165	17.350	0.5
144	5720	3.860	3.835	0.5

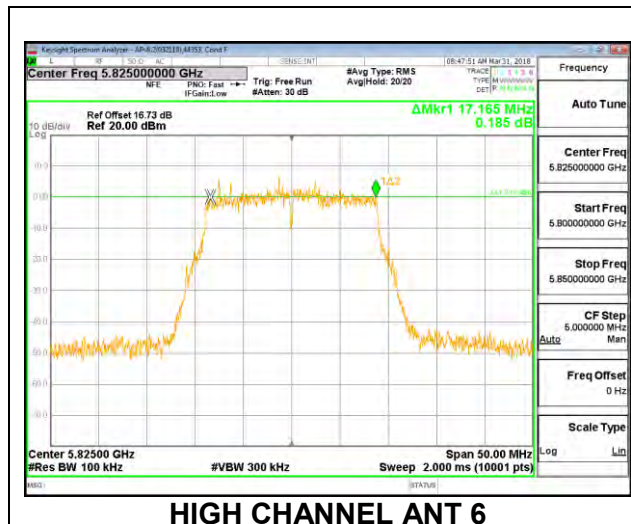
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

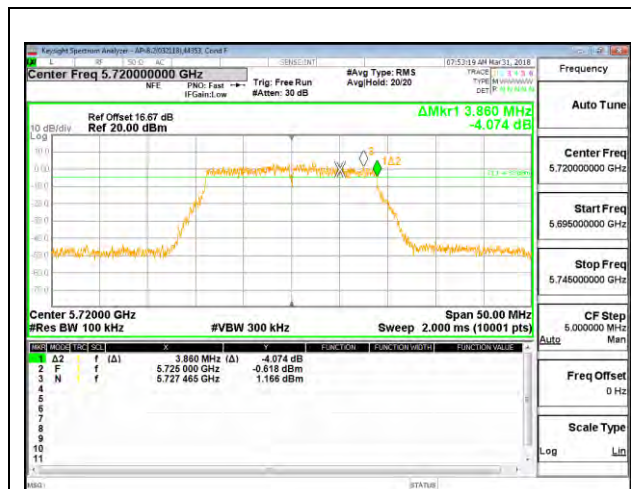


HIGH CHANNEL ANT 6



HIGH CHANNEL ANT 5

CHANNEL 144



CHANNEL 144 ANT 6

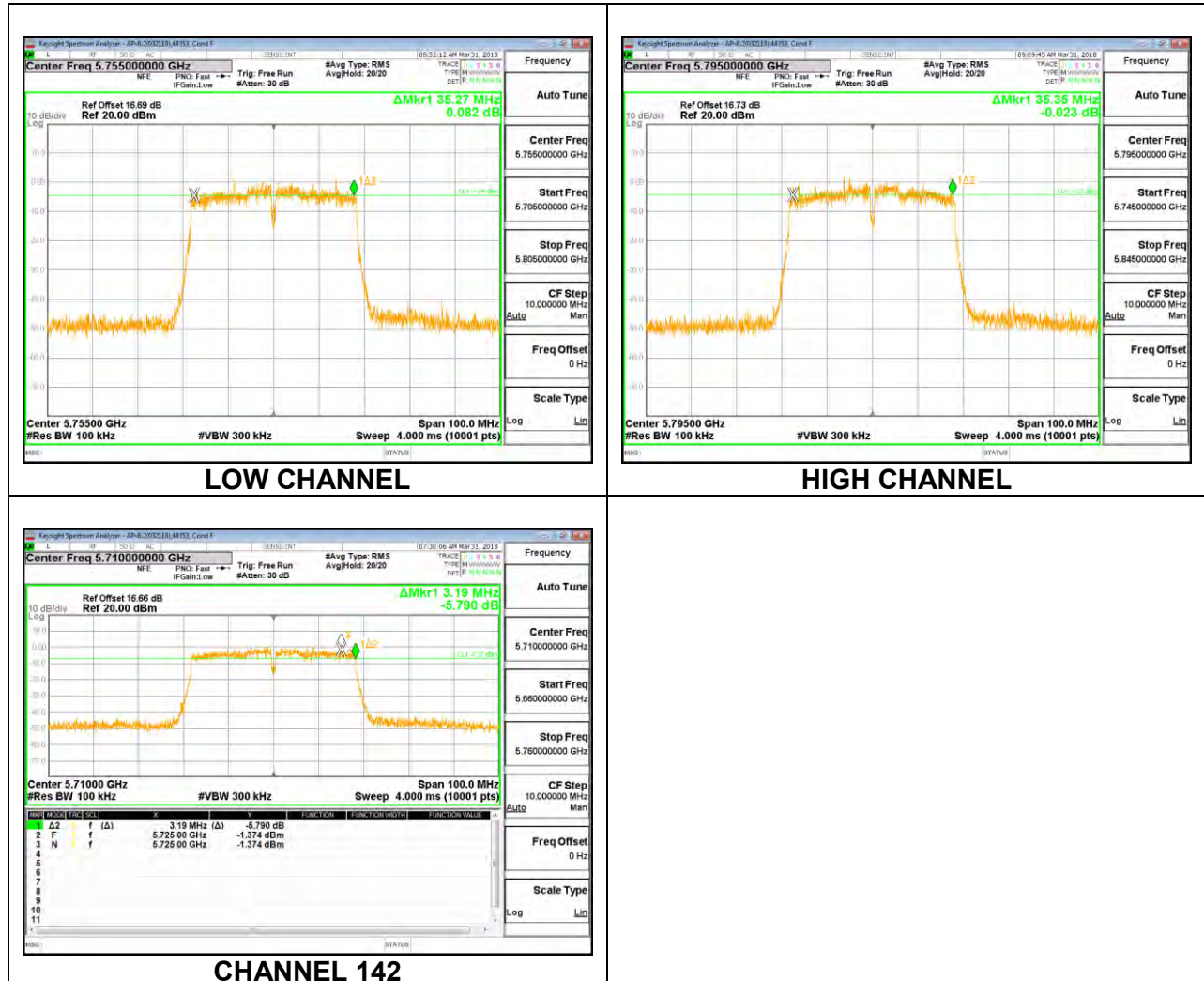


CHANNEL 144 ANT 5

8.4.2. 802.11n HT40 MODE IN THE 5.8 GHz BAND

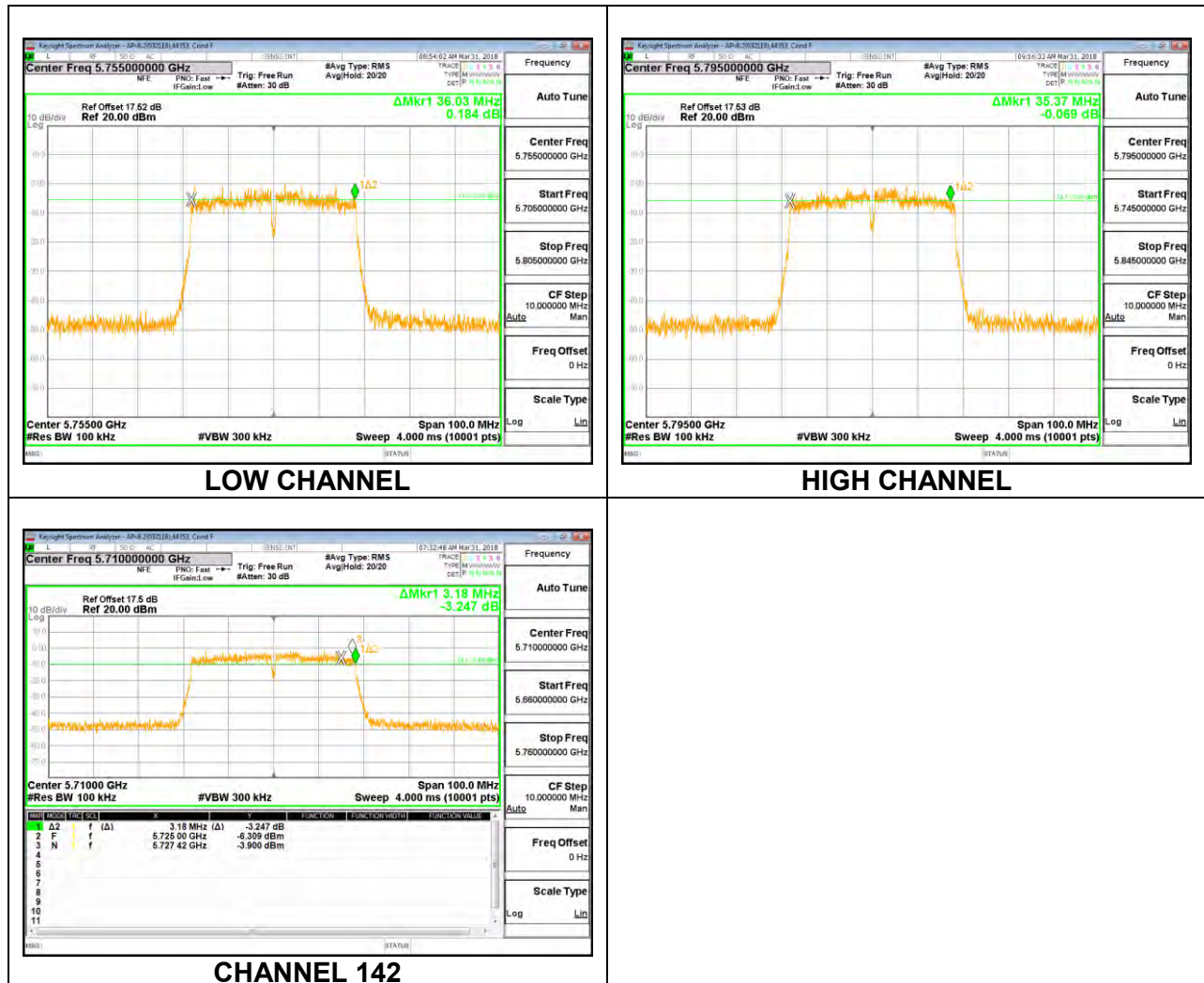
1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	35.270	0.5
High	5795	35.350	0.5
142	5710	3.190	0.5



1TX Antenna 5 MODE

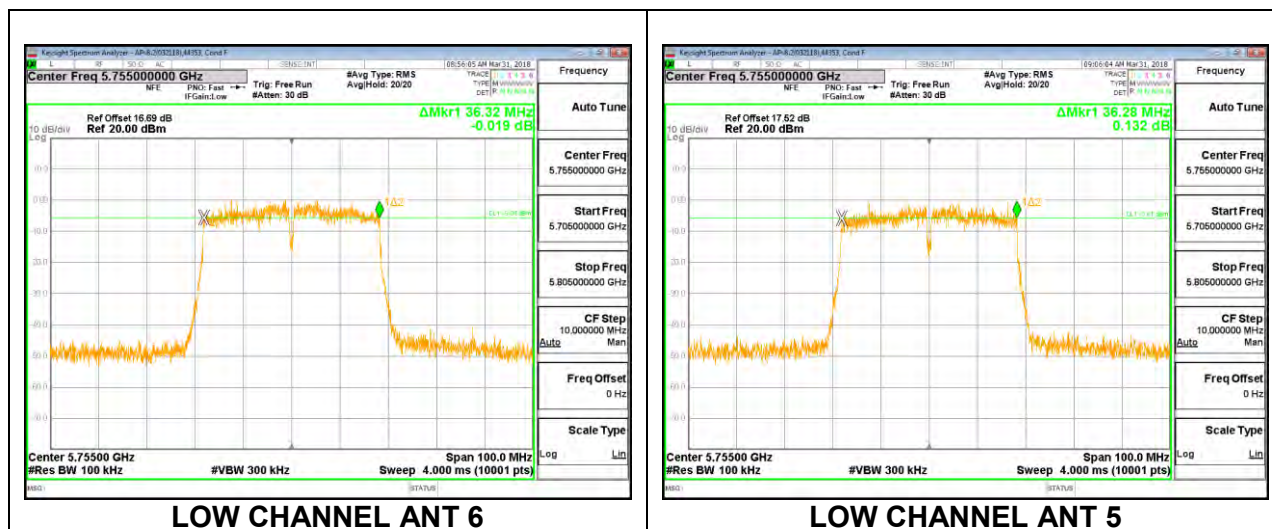
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5755	36.030	0.5
High	5795	35.370	0.5
142	5710	3.180	0.5



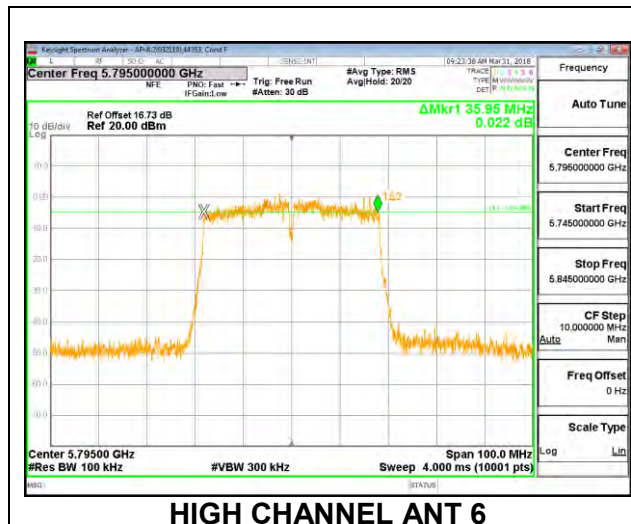
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	6 dB BW Ant 6 (MHz)	6 dB BW Ant 5 (MHz)	Minimum Limit (MHz)
Low	5755	36.320	36.280	0.5
High	5795	35.950	35.440	0.5
142	5710	3.120	3.190	0.5

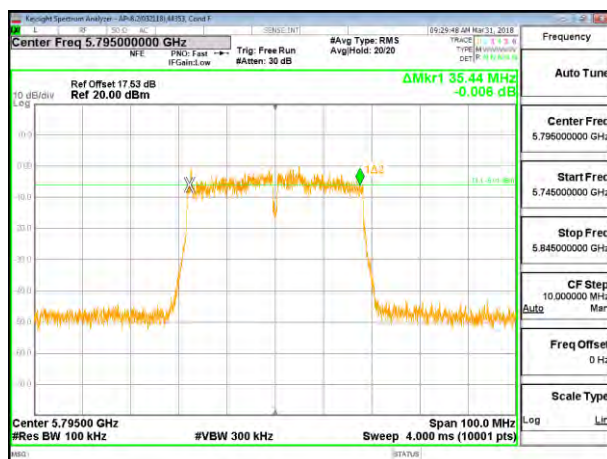
LOW CHANNEL



HIGH CHANNEL



HIGH CHANNEL ANT 6

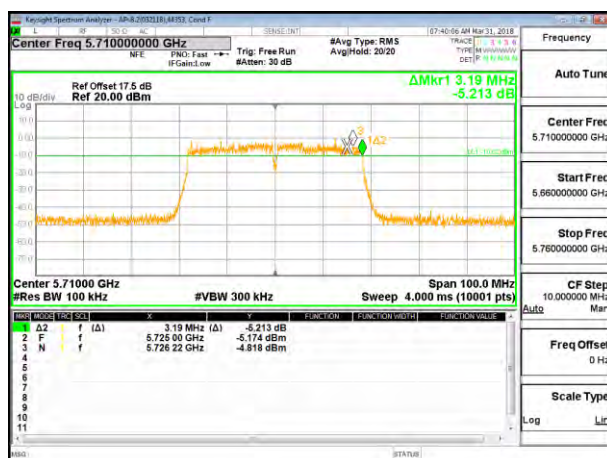


HIGH CHANNEL ANT 5

CHANNEL 142



CHANNEL 142 ANT 6

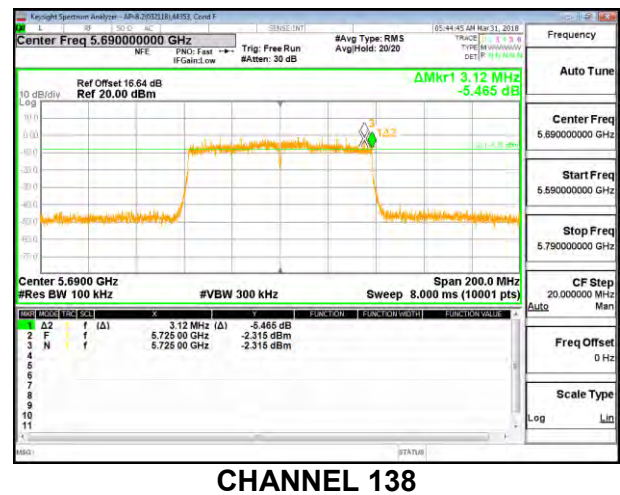
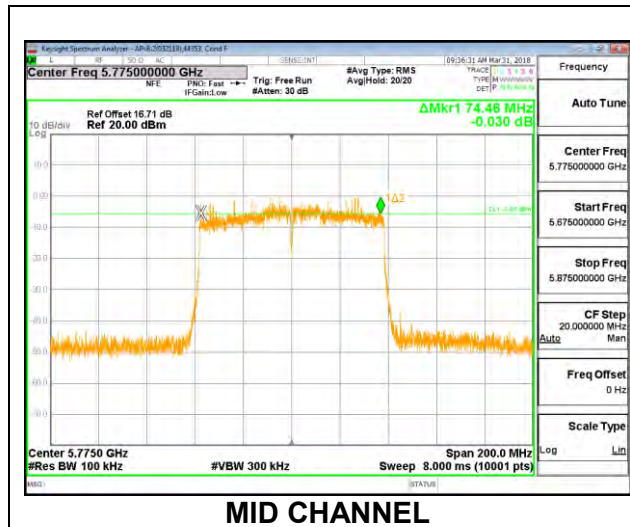


CHANNEL 142 ANT 5

8.4.3. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

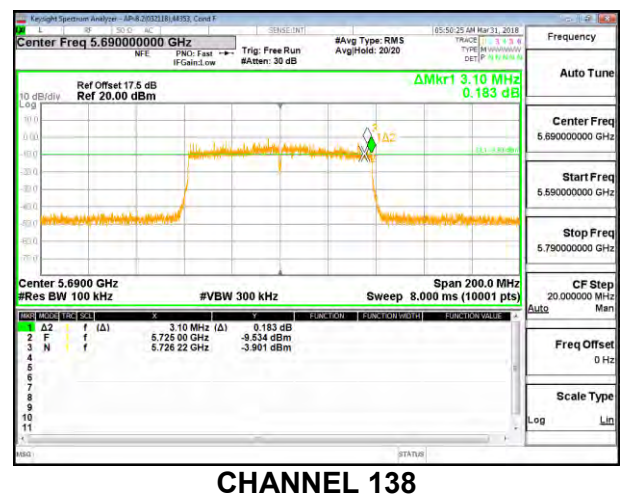
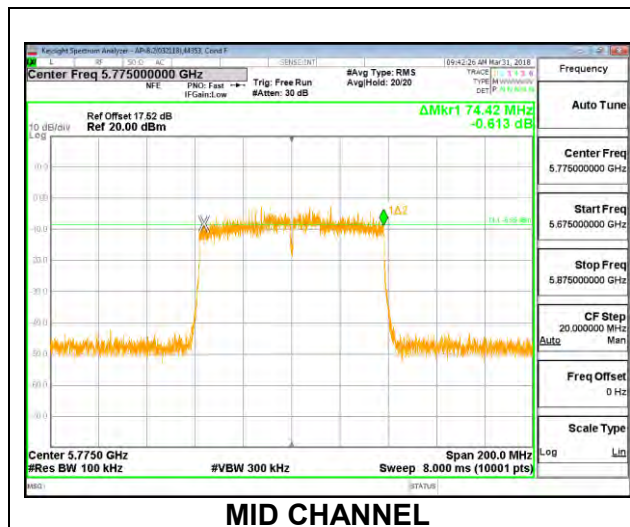
1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	74.460	0.5
138	5690	3.120	0.5



1TX Antenna 5 MODE

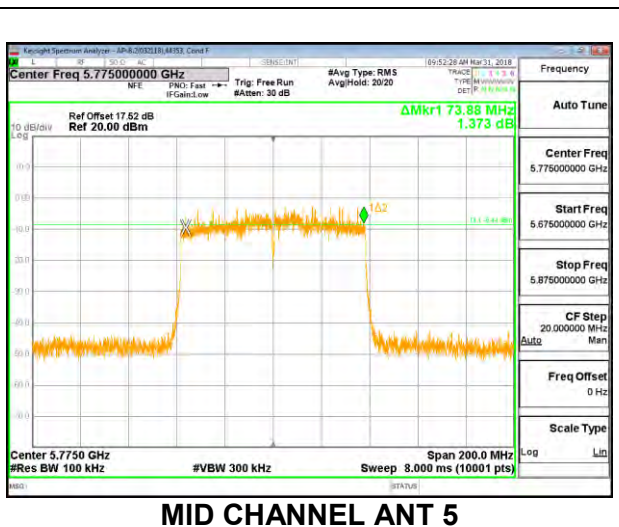
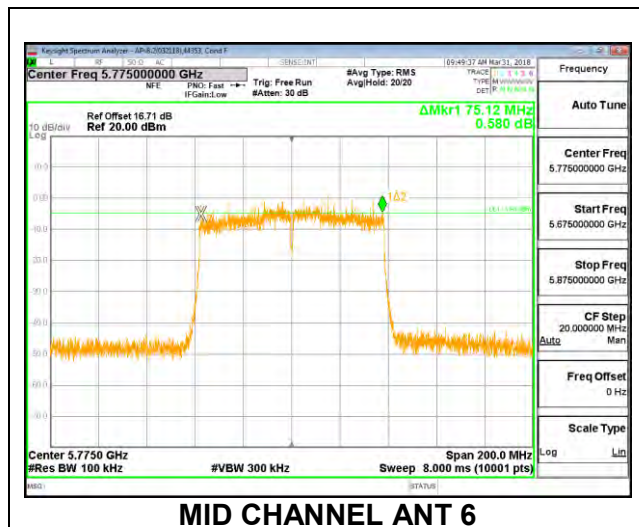
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	74.420	0.5
138	5690	3.100	0.5



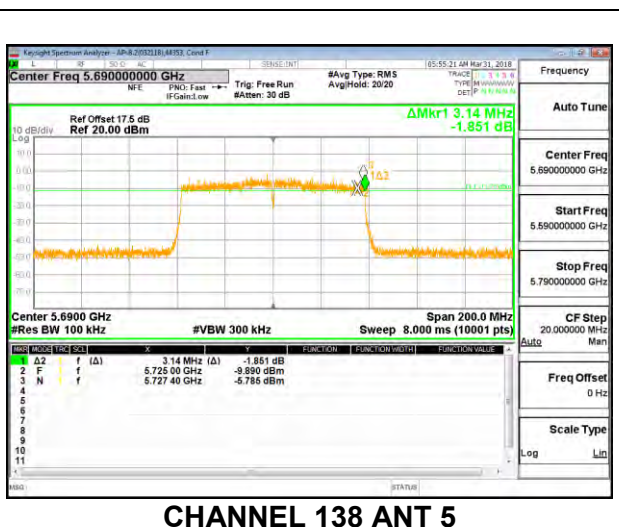
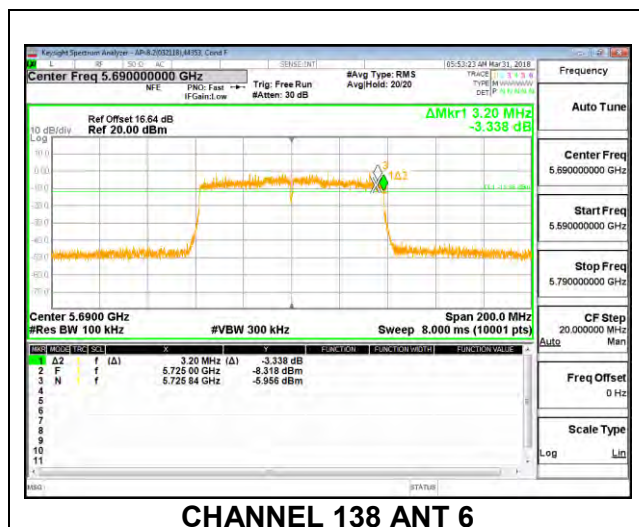
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	6 dB BW Ant 6 (MHz)	6 dB BW Ant 5 (MHz)	Minimum Limit (MHz)
Mid	5775	75.120	73.880	0.5
138	5690	3.200	3.140	0.5

MID CHANNEL



CHANNEL 138



8.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

(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 $11 \text{ dBm} + 10 \log B$, 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.

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.

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-2) was used.

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

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

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:

Band (GHz)	ANT 6 Gain (dBi)	ANT 5 Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.2	-5.00	-2.30	-3.44	-0.54
5.3	-4.5	-2.6	-3.45	-0.49
5.6	-2.9	-0.8	-1.72	1.22
5.8	-5.3	-3.4	-4.25	-1.29

ID:	44353	Date:	4/13/2018
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RESULTS

8.5.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-5.00	24.00	11.00
Mid	5200	-5.00	24.00	11.00
High	5240	-5.00	24.00	11.00

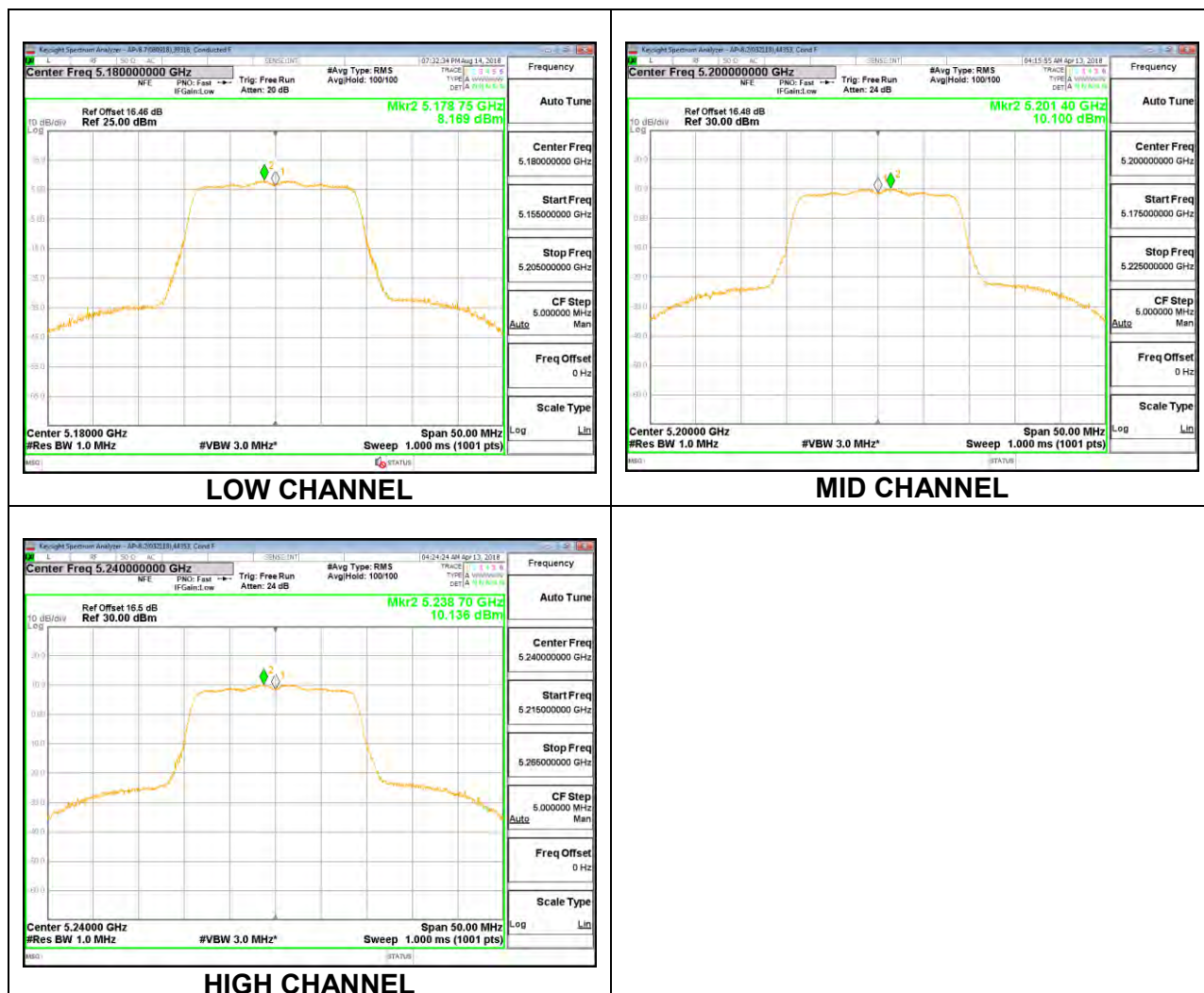
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	18.77	18.77	24.00	-5.23
Mid	5200	20.86	20.86	24.00	-3.14
High	5240	20.93	20.93	24.00	-3.07

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	8.17	8.17	11.00	-2.83
Mid	5200	10.10	10.10	11.00	-0.90
High	5240	10.14	10.14	11.00	-0.86



1TX Antenna 5 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-2.30	24.00	11.00
Mid	5200	-2.30	24.00	11.00
High	5240	-2.30	24.00	11.00

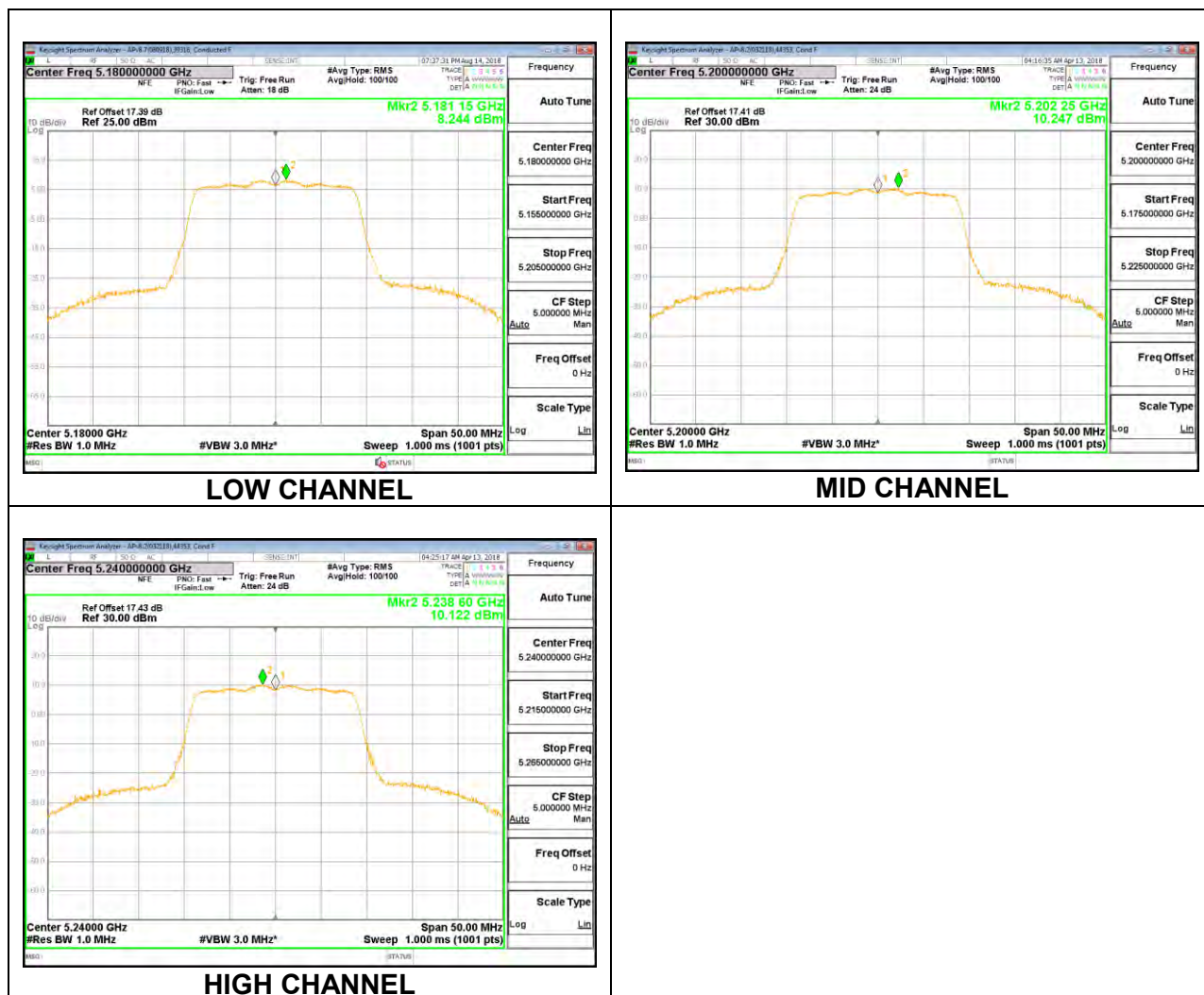
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	18.83	18.83	24.00	-5.17
Mid	5200	20.79	20.79	24.00	-3.21
High	5240	20.89	20.89	24.00	-3.11

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	8.24	8.24	11.00	-2.76
Mid	5200	10.25	10.25	11.00	-0.75
High	5240	10.12	10.12	11.00	-0.88



2TX Antenna 6 + Antenna 5 CDD MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-3.44	-0.54	24.00	11.00
Mid	5200	-3.44	-0.54	24.00	11.00
High	5240	-3.44	-0.54	24.00	11.00

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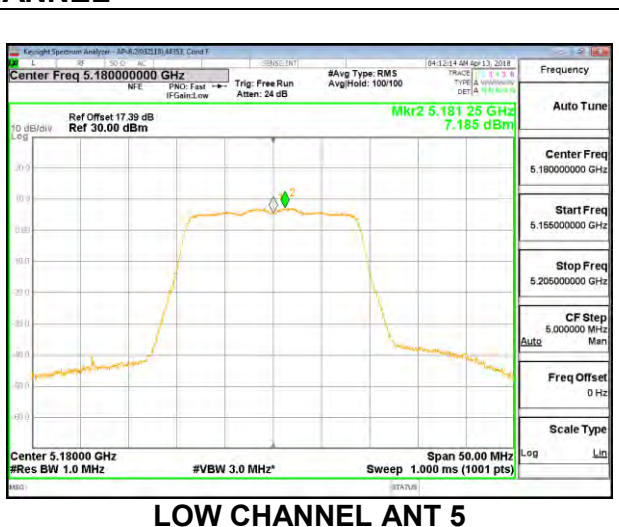
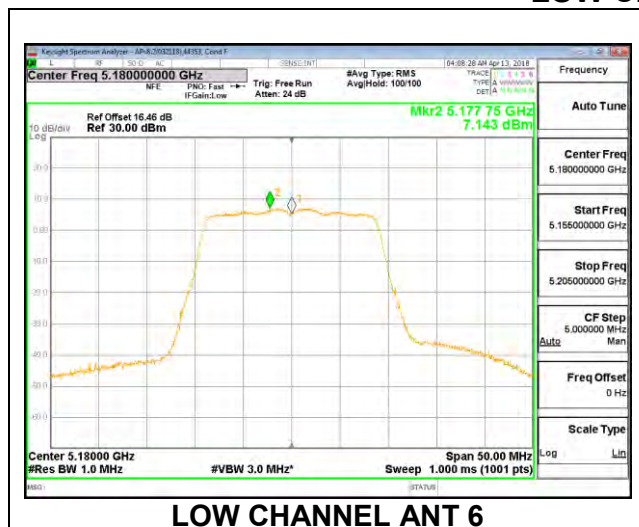
Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	17.96	17.89	20.94	24.00	-3.06
Mid	5200	17.88	17.93	20.92	24.00	-3.08
High	5240	17.92	17.95	20.95	24.00	-3.05

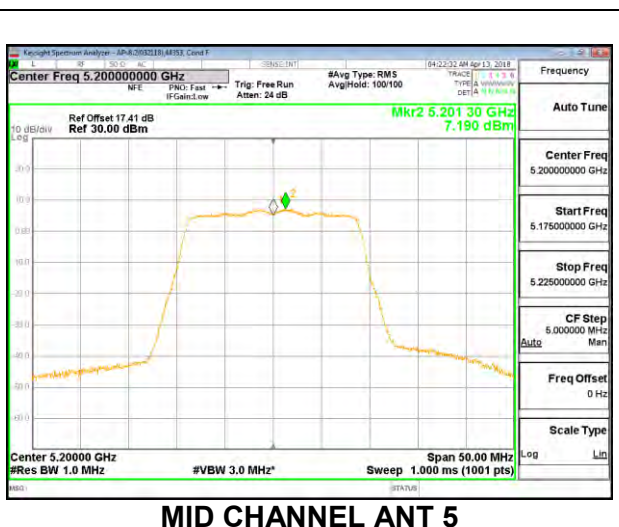
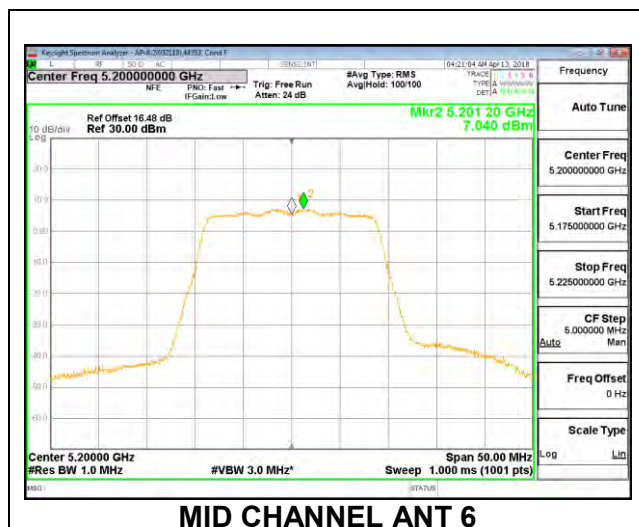
PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	7.14	7.19	10.17	11.00	-0.83
Mid	5200	7.04	7.19	10.13	11.00	-0.87
High	5240	7.21	7.24	10.24	11.00	-0.76

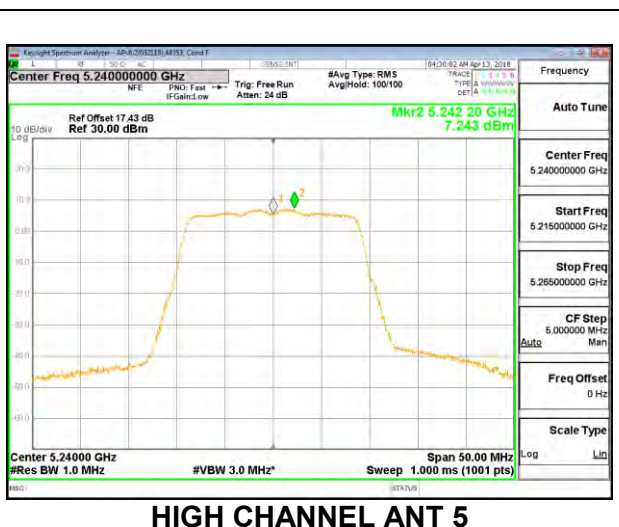
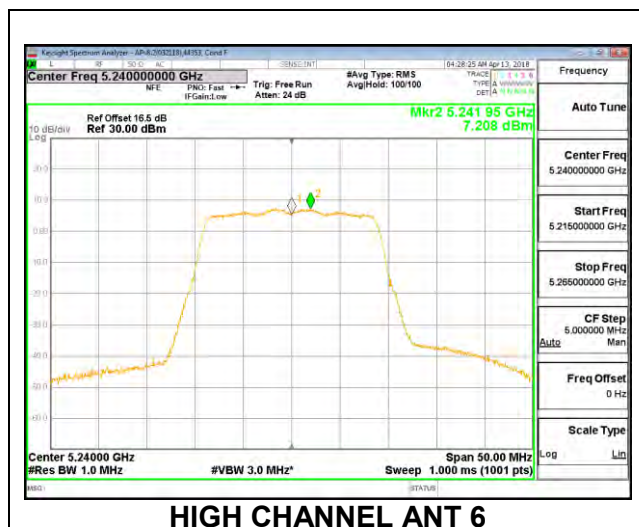
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	-5.00	24.00	11.00
High	5230	-5.00	24.00	11.00

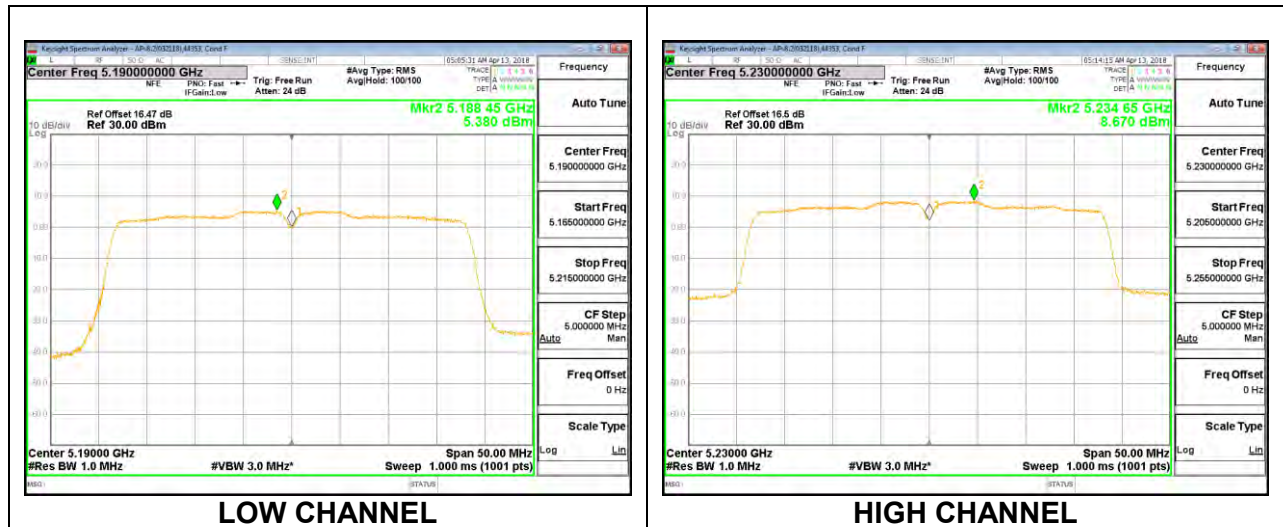
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	17.93	17.93	24.00	-6.07
High	5230	21.92	21.92	24.00	-2.08

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	5.38	5.47	11.00	-5.53
High	5230	8.67	8.76	11.00	-2.24



1TX Antenna 5 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	-2.30	24.00	11.00
High	5230	-2.30	24.00	11.00

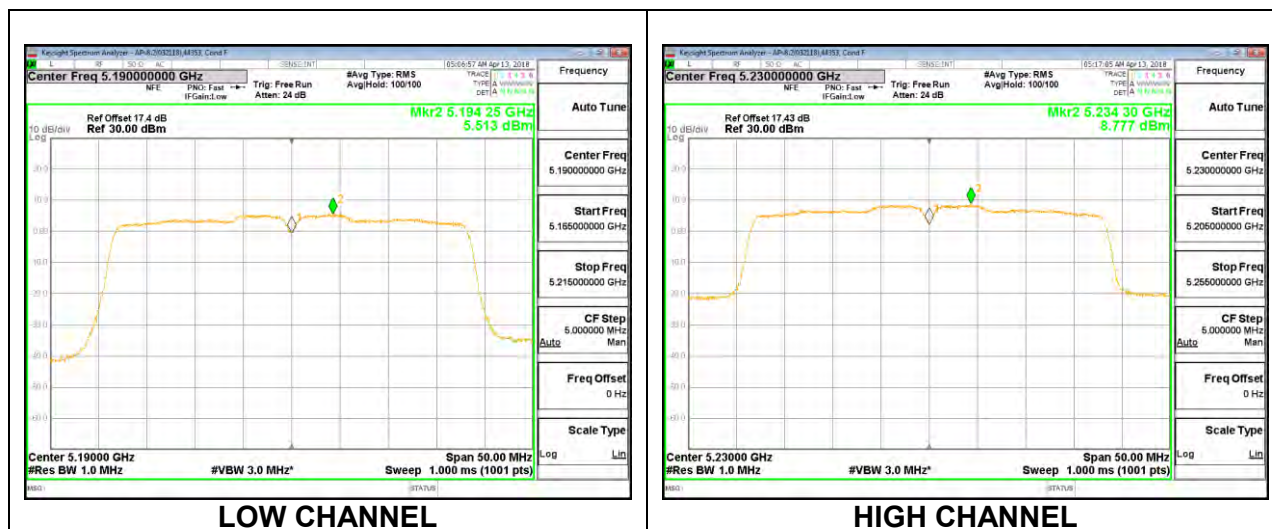
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	17.98	17.98	24.00	-6.02
High	5230	21.92	21.92	24.00	-2.08

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	5.51	5.60	11.00	-5.40
High	5230	8.78	8.87	11.00	-2.13



2TX Antenna 6 + Antenna 5 CDD MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	-3.44	-0.54	24.00	11.00
High	5230	-3.44	-0.54	24.00	11.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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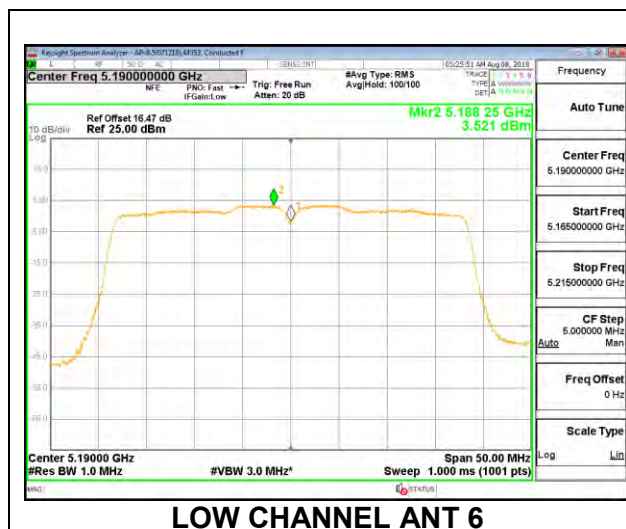
Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	16.83	16.96	19.91	24.00	-4.09
High	5230	19.87	19.96	22.93	24.00	-1.07

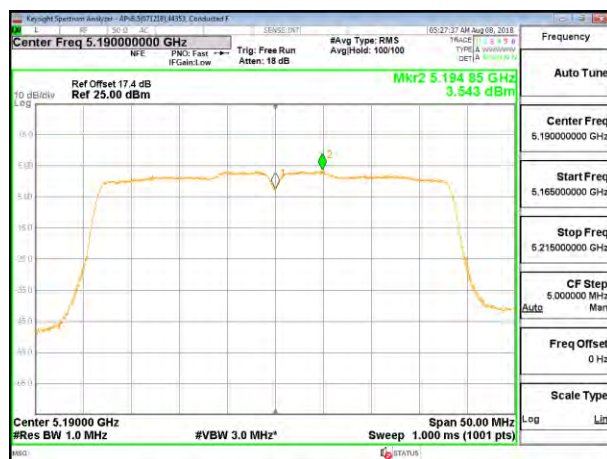
PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/ 1MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	3.52	3.54	6.63	11.00	-4.37
High	5230	6.29	6.48	9.49	11.00	-1.51

LOW CHANNEL

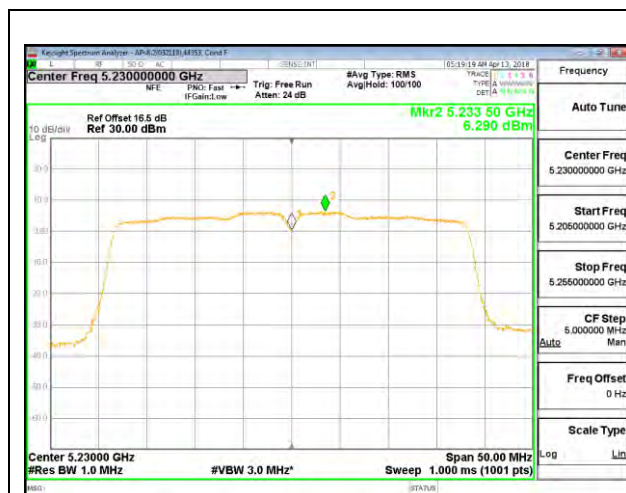


LOW CHANNEL ANT 6

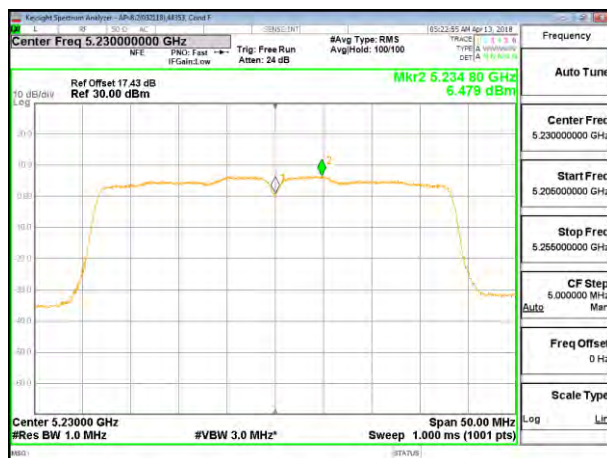


LOW CHANNEL ANT 5

HIGH CHANNEL



HIGH CHANNEL ANT 6



HIGH CHANNEL ANT 5

8.5.3. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	-5.00	24.00	11.00

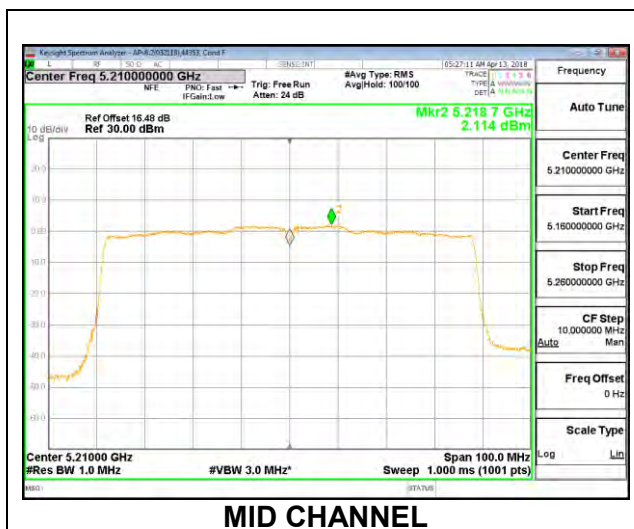
Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	17.36	17.36	24.00	-6.64

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	2.11	2.31	11.00	-8.69



1TX Antenna 5 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	-2.30	24.00	11.00

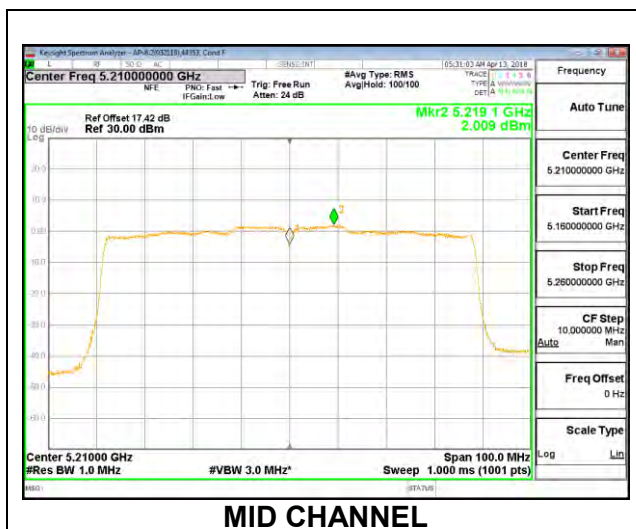
Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	17.43	17.43	24.00	-6.57

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	2.01	2.21	11.00	-8.79



2TX Antenna 6 + Antenna 5 CDD MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	-3.44	-0.54	24.00	11.00

Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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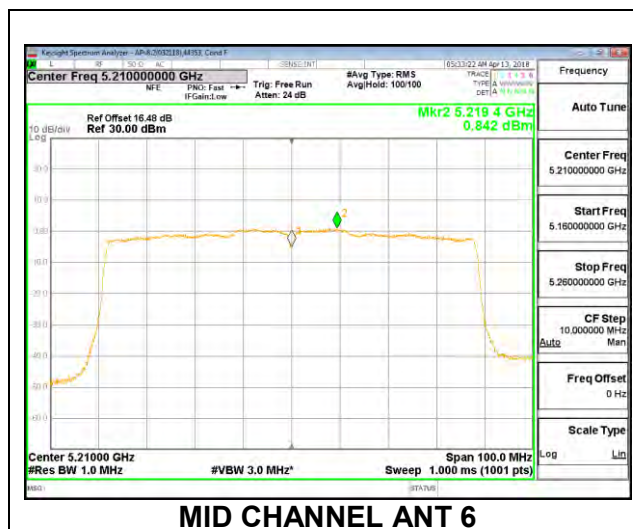
Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	16.33	16.41	19.38	24.00	-4.62

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/ 1MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	0.84	0.70	3.98	11.00	-7.02

MID CHANNEL



8.5.4. 802.11n HT20 MODE IN THE 5.3 GHz BAND

1TX Antenna 6 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	22.00	-4.50	24.00	11.00
Mid	5300	22.20	-4.50	24.00	11.00
High	5320	22.05	-4.50	24.00	11.00

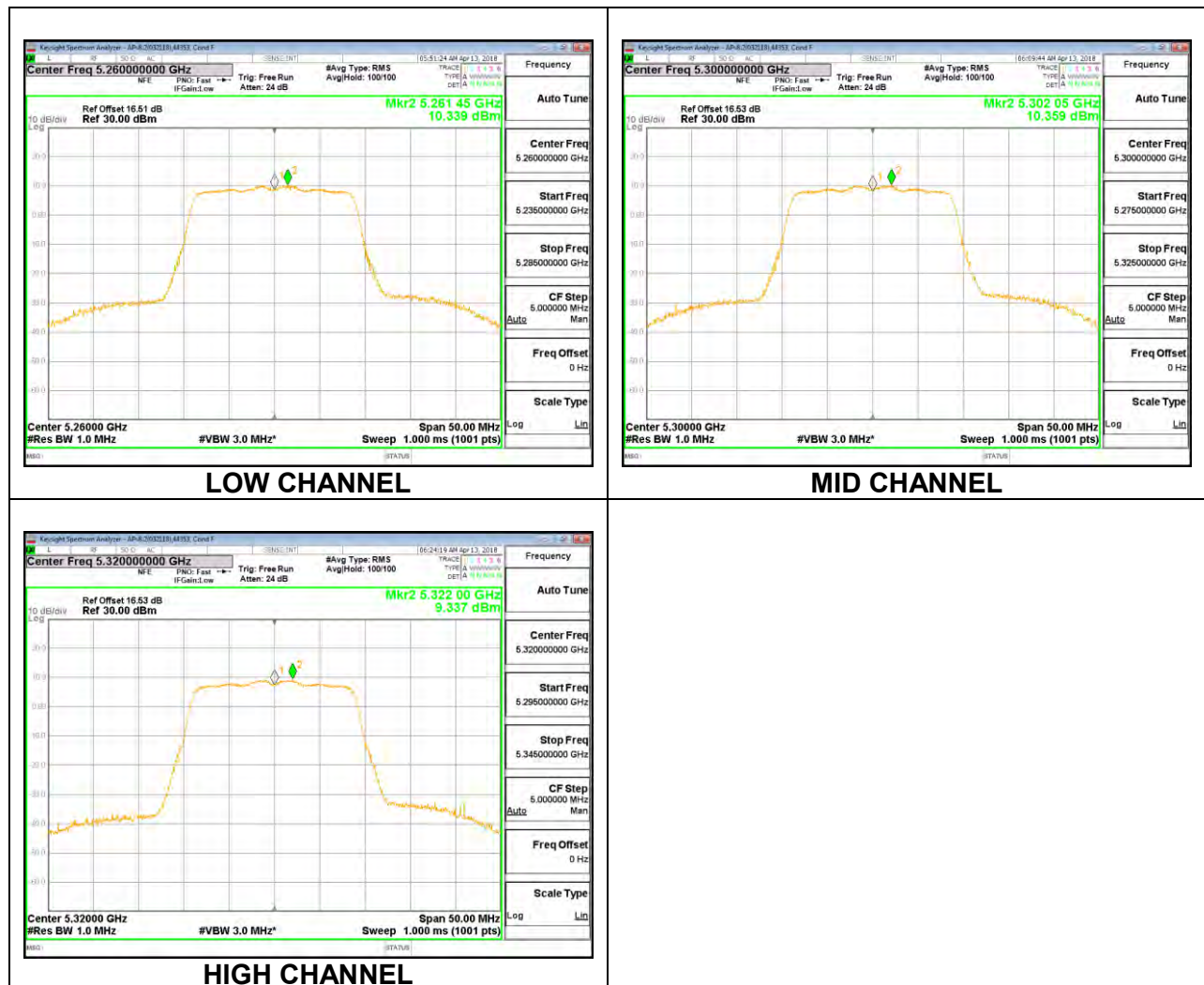
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	20.88	20.88	24.00	-3.12
Mid	5300	20.85	20.85	24.00	-3.15
High	5320	18.92	18.92	24.00	-5.08

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	10.34	10.34	11.00	-0.66
Mid	5300	10.36	10.36	11.00	-0.64
High	5320	9.34	9.34	11.00	-1.66



1TX Antenna 5 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	21.80	-2.60	24.00	11.00
Mid	5300	21.65	-2.60	24.00	11.00
High	5320	21.70	-2.60	24.00	11.00

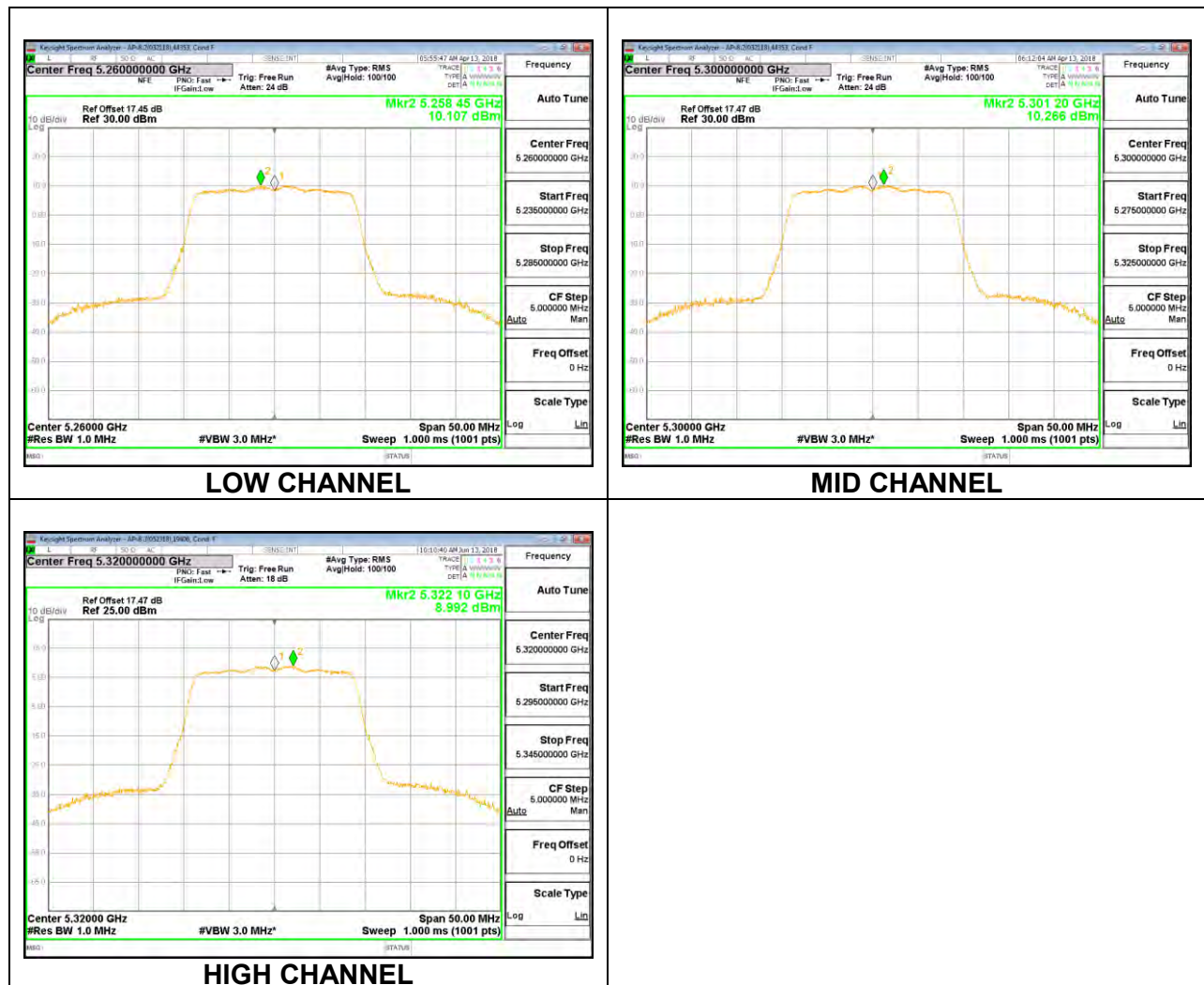
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	20.92	20.92	24.00	-3.08
Mid	5300	20.94	20.94	24.00	-3.06
High	5320	18.96	18.96	24.00	-5.04

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	10.11	10.11	11.00	-0.89
Mid	5300	10.27	10.27	11.00	-0.73
High	5320	8.99	8.99	11.00	-2.01



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

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/1MHz)
Low	5260	21.75	-3.45	-0.49	24.00	11.00
Mid	5300	21.65	-3.45	-0.49	24.00	11.00
High	5320	21.65	-3.45	-0.49	24.00	11.00

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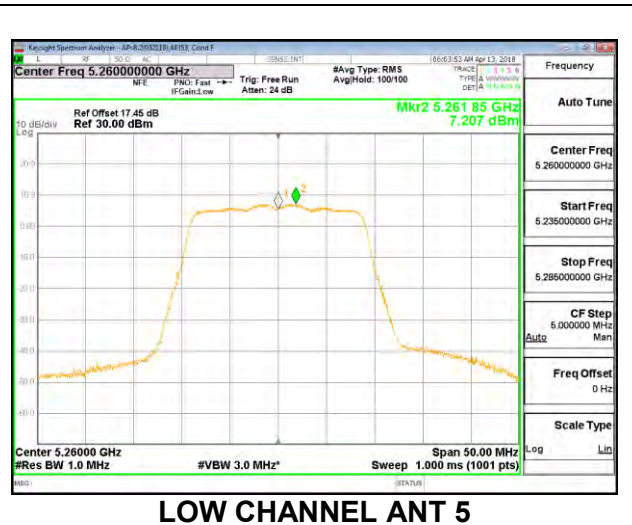
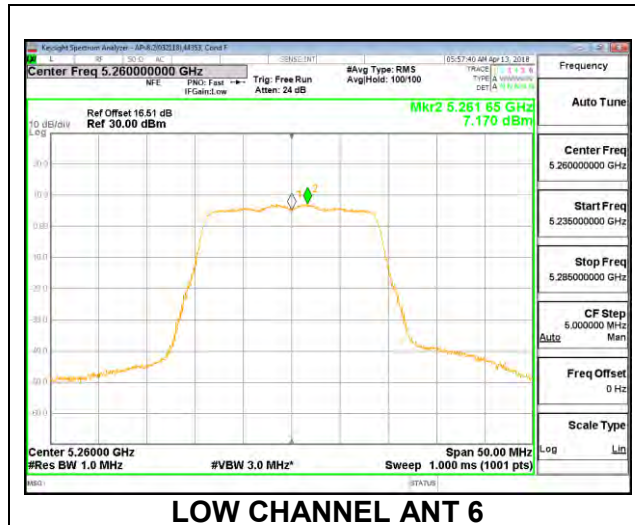
Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	17.85	17.92	20.90	24.00	-3.10
Mid	5300	17.90	17.99	20.96	24.00	-3.04
High	5320	17.88	17.94	20.92	24.00	-3.08

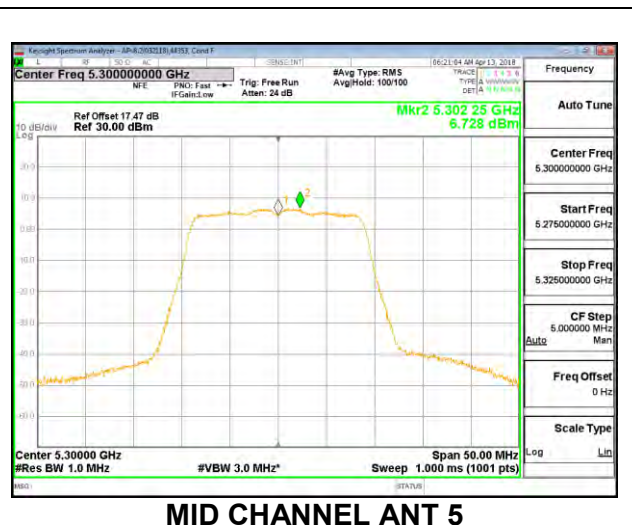
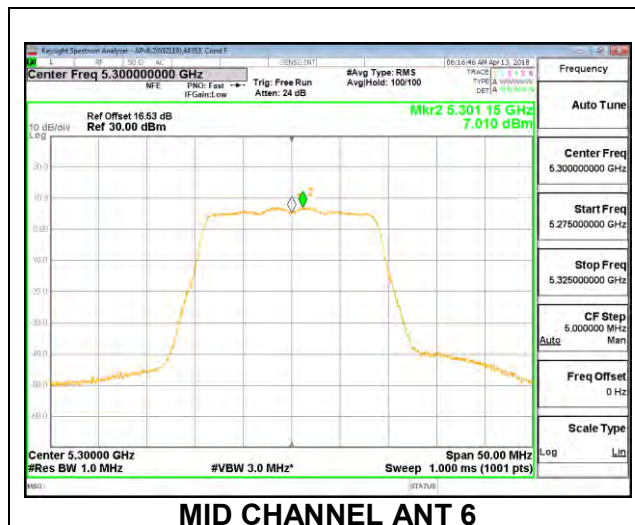
PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	7.17	7.21	10.20	11.00	-0.80
Mid	5300	7.01	6.73	9.88	11.00	-1.12
High	5320	7.10	7.16	10.14	11.00	-0.86

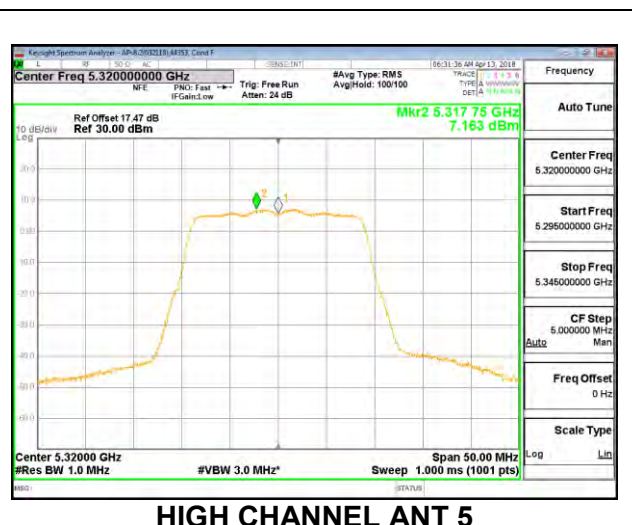
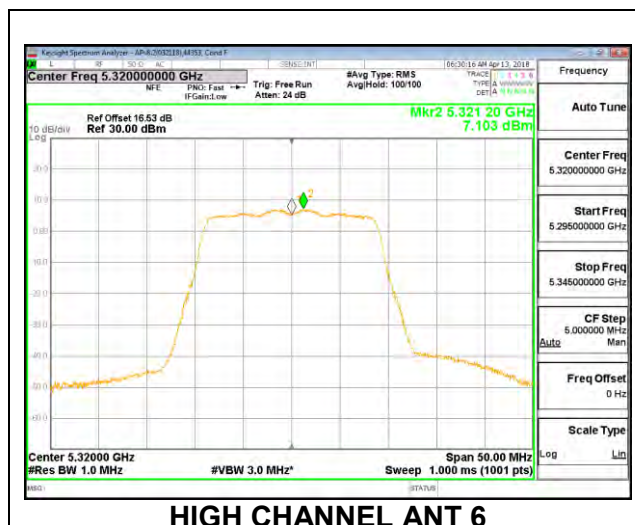
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.5. 802.11n HT40 MODE IN THE 5.3 GHz BAND

1TX Antenna 6 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	40.60	-4.50	24.00	11.00
High	5310	40.50	-4.50	24.00	11.00

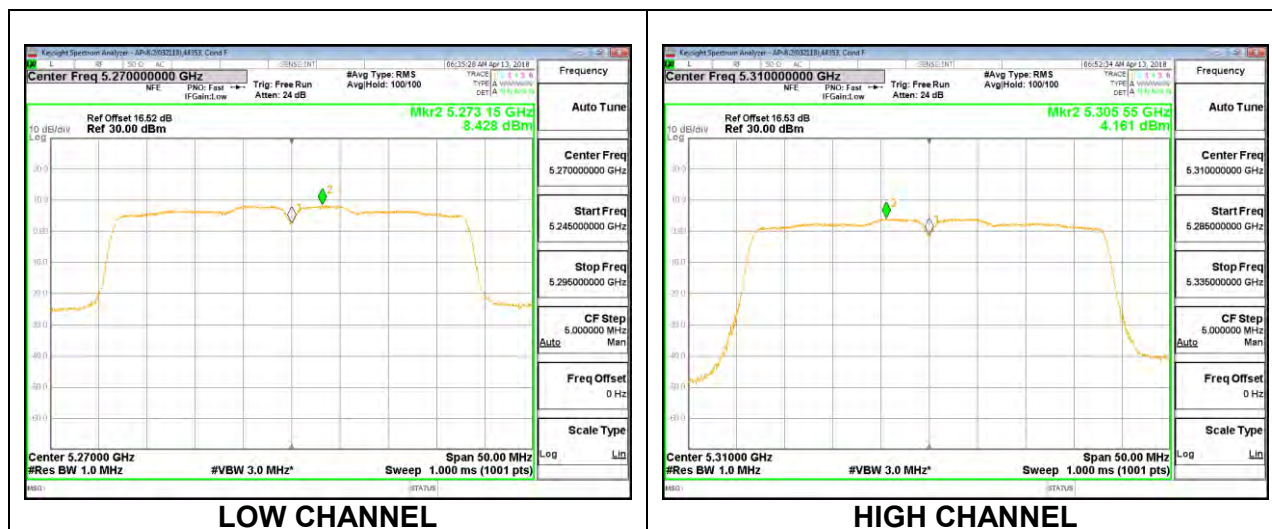
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	21.87	21.87	24.00	-2.13
High	5310	17.89	17.89	24.00	-6.11

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	8.43	8.52	11.00	-2.48
High	5310	4.16	4.25	11.00	-6.75



1TX Antenna 5 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	40.00	-2.60	24.00	11.00
High	5310	40.00	-2.60	24.00	11.00

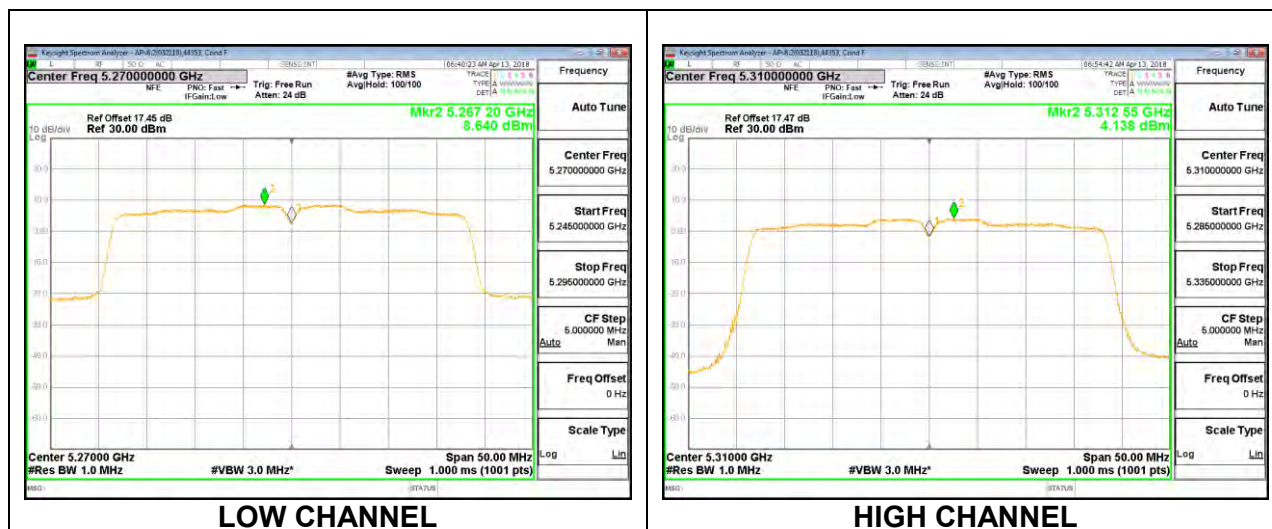
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	21.95	21.95	24.00	-2.05
High	5310	17.86	17.86	24.00	-6.14

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	8.64	8.73	11.00	-2.27
High	5310	4.14	4.23	11.00	-6.77



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

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/1MHz)
Low	5270	40.00	-3.45	-0.49	24.00	11.00
High	5310	40.20	-3.45	-0.49	24.00	11.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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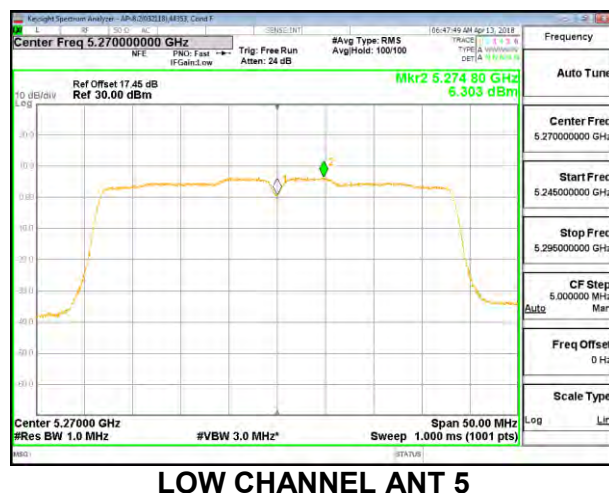
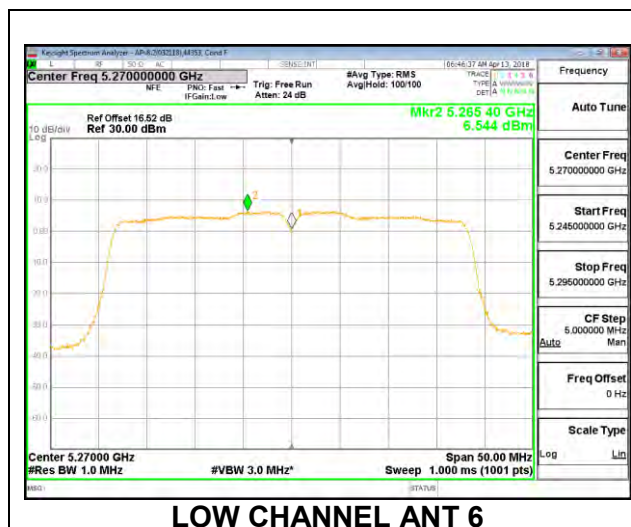
Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	19.89	19.98	22.95	24.00	-1.05
High	5310	16.91	16.97	19.95	24.00	-4.05

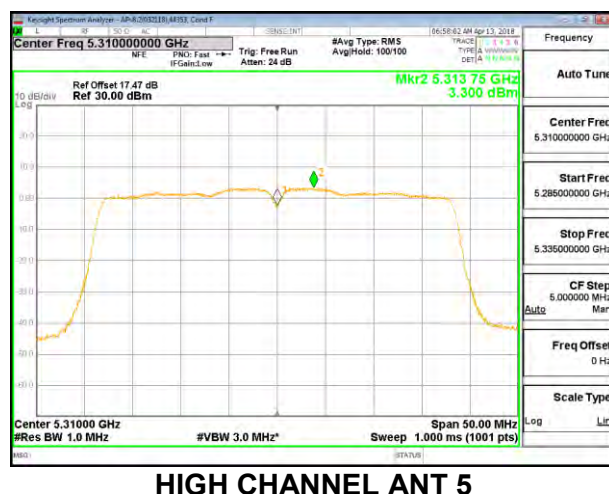
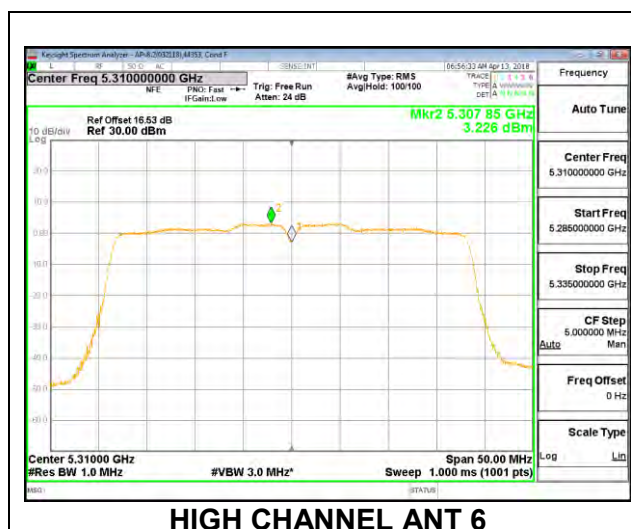
PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	6.54	6.30	9.53	11.00	-1.47
High	5310	3.23	3.30	6.36	11.00	-4.64

LOW CHANNEL



HIGH CHANNEL



8.5.6. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

1TX Antenna 6 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	82.40	-4.50	24.00	11.00

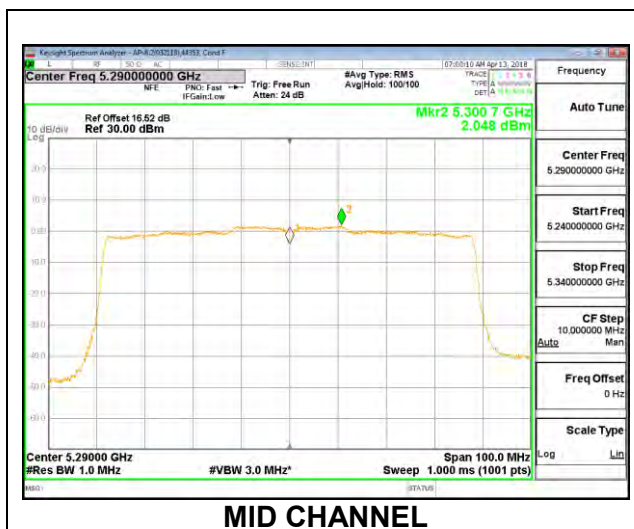
Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	17.34	17.34	24.00	-6.66

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	2.05	2.25	11.00	-8.75



1TX Antenna 5 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	82.20	-2.60	24.00	11.00

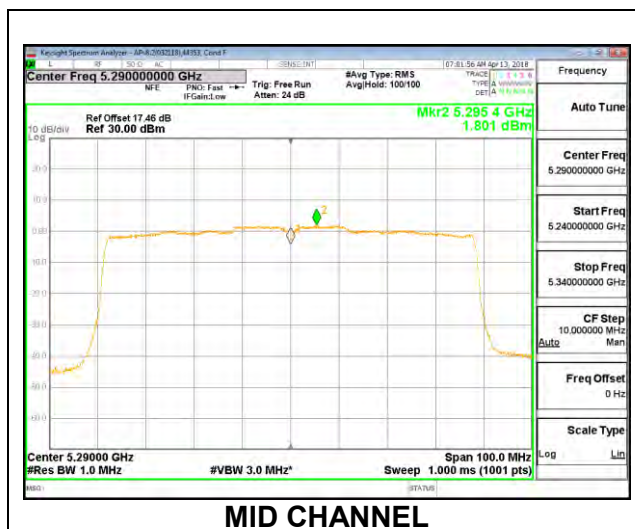
Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	17.41	17.41	24.00	-6.59

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	1.80	2.00	11.00	-9.00



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

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/1MHz)
Mid	5290	82.40	-3.45	-0.49	24.00	11.00

Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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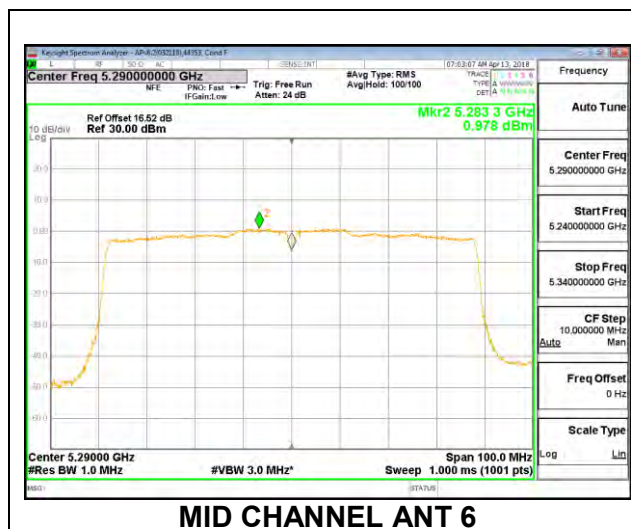
Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	16.31	16.44	19.39	24.00	-4.61

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/1MHz)	Ant 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	0.98	0.80	4.10	11.00	-6.90

MID CHANNEL



8.5.7. 802.11n HT20 MODE IN THE 5.6 GHz BAND

1TX Antenna 6 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5500	22.05	-2.90	24.00	11.00
Mid	5580	22.05	-2.90	24.00	11.00
High	5700	22.00	-2.90	24.00	11.00
144	5720	21.95	-2.90	24.00	11.00

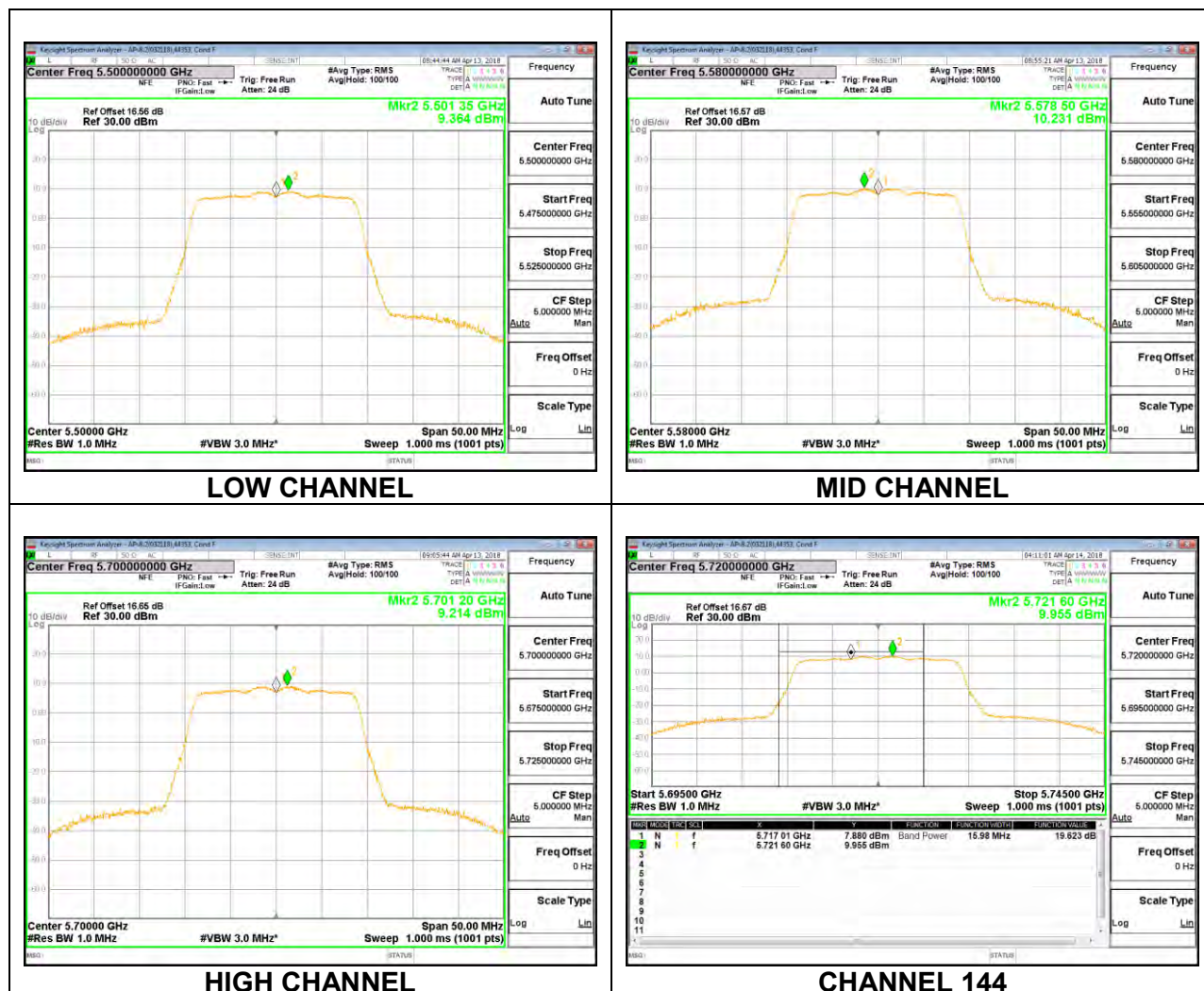
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	18.92	18.92	24.00	-5.08
Mid	5580	20.88	20.88	24.00	-3.12
High	5700	18.90	18.90	24.00	-5.10
144	5720	19.62	19.62	24.00	-4.38

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	9.36	9.36	11.00	-1.64
Mid	5580	10.23	10.23	11.00	-0.77
High	5700	9.21	9.21	11.00	-1.79
144	5720	9.96	9.96	11.00	-1.05



1TX Antenna 5 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5500	21.65	-0.80	24.00	11.00
Mid	5580	21.60	-0.80	24.00	11.00
High	5700	21.60	-0.80	24.00	11.00
144	5720	19.60	-0.80	23.92	11.00

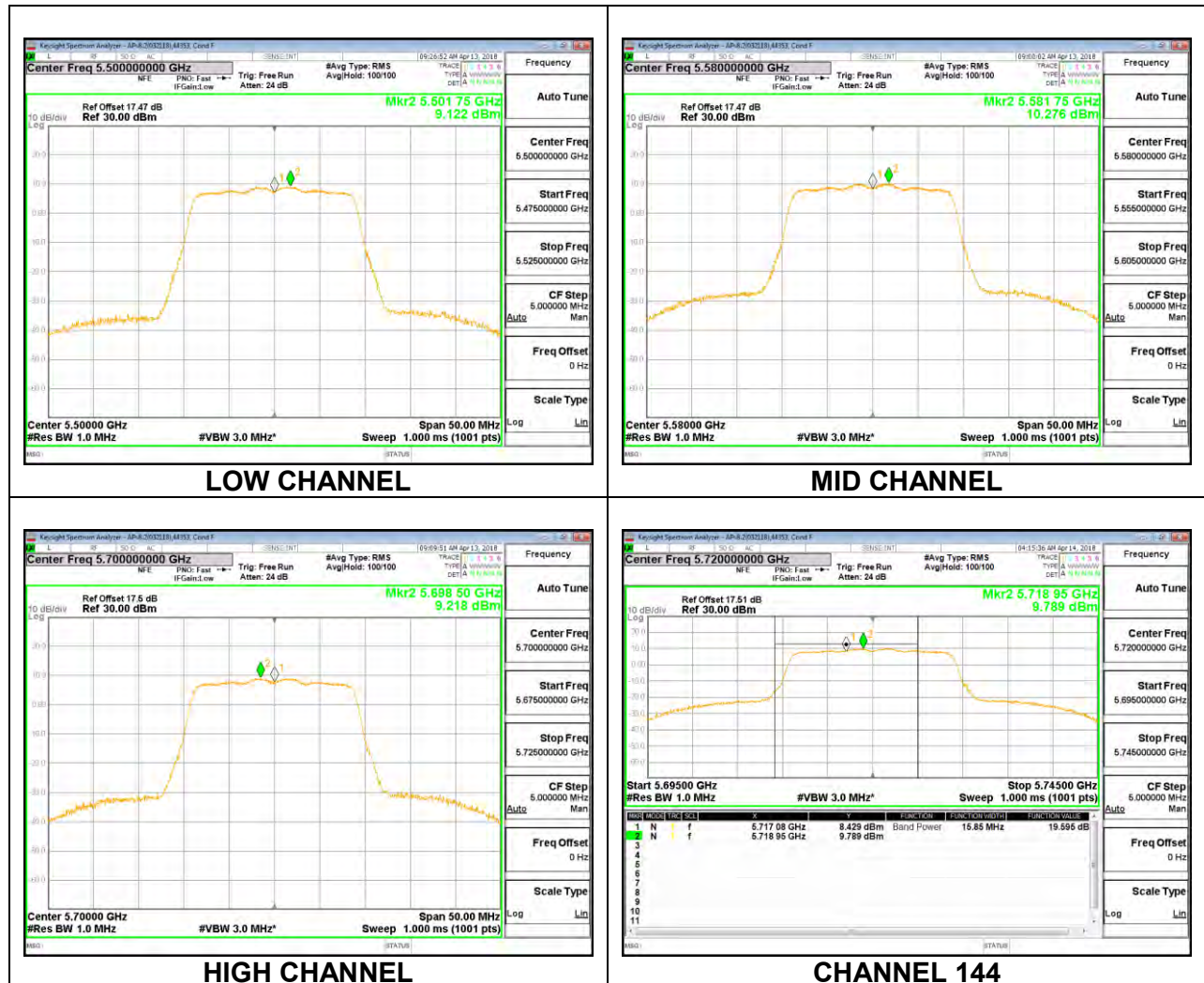
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	18.87	18.87	24.00	-5.13
Mid	5580	20.96	20.96	24.00	-3.04
High	5700	18.89	18.89	24.00	-5.11
144	5720	20.60	20.60	23.92	-3.32

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	9.12	9.12	11.00	-1.88
Mid	5580	10.28	10.28	11.00	-0.72
High	5700	9.22	9.22	11.00	-1.78
144	5720	9.79	9.79	11.00	-1.21



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

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/ 1MHz)
Low	5500	21.75	-1.72	1.22	24.00	11.00
Mid	5580	21.65	-1.72	1.22	24.00	11.00
High	5700	21.65	-1.72	1.22	24.00	11.00
144	5720	21.80	-1.72	1.22	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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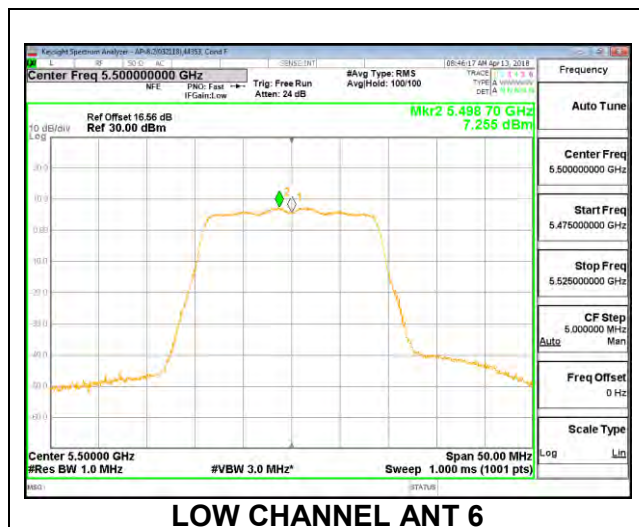
Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	17.86	17.95	20.92	24.00	-3.08
Mid	5580	17.84	17.96	20.91	24.00	-3.09
High	5700	17.84	17.97	20.92	24.00	-3.08
144	5720	16.61	16.61	19.62	24.00	-4.38

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/ 1MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	7.26	7.36	10.32	11.00	-0.68
Mid	5580	7.43	7.18	10.31	11.00	-0.69
High	5700	7.06	7.08	10.08	11.00	-0.92
144	5720	6.93	6.87	9.91	11.00	-1.09

LOW CHANNEL

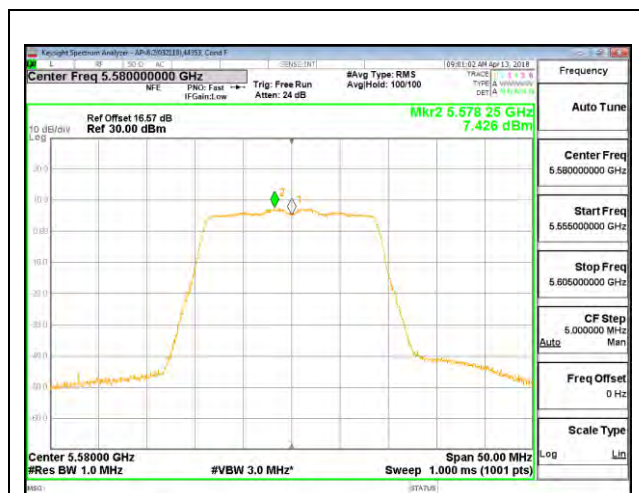


LOW CHANNEL ANT 6



LOW CHANNEL ANT 5

MID CHANNEL

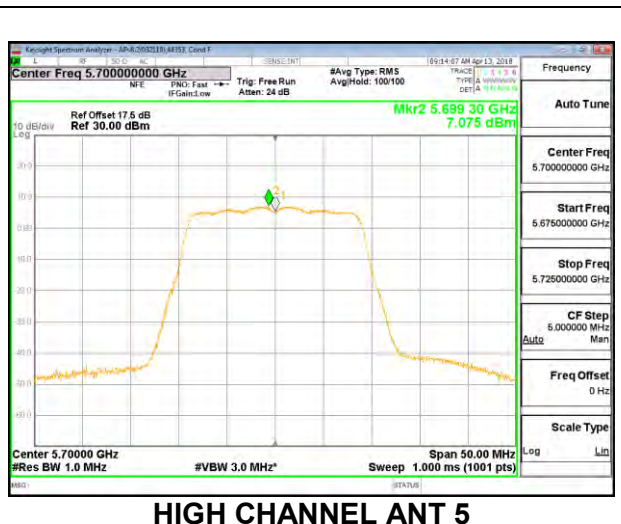
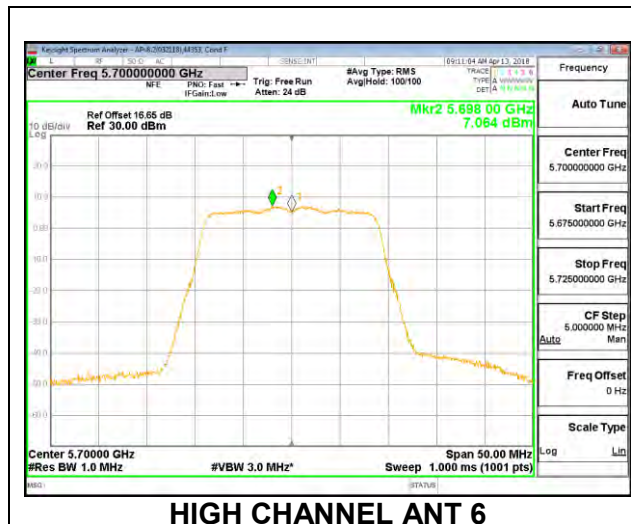


MID CHANNEL ANT 6

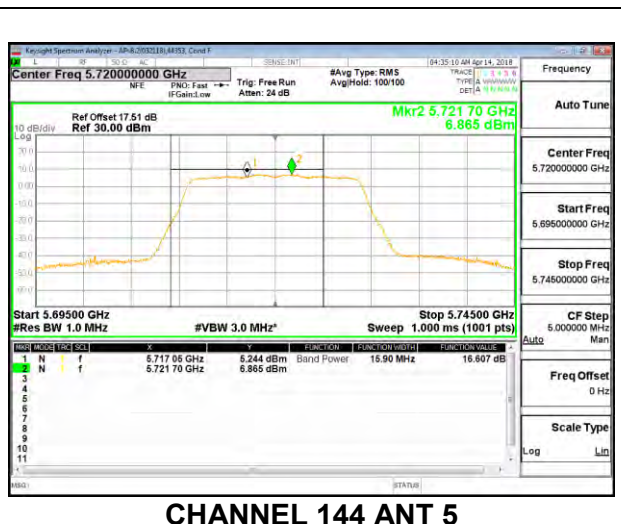
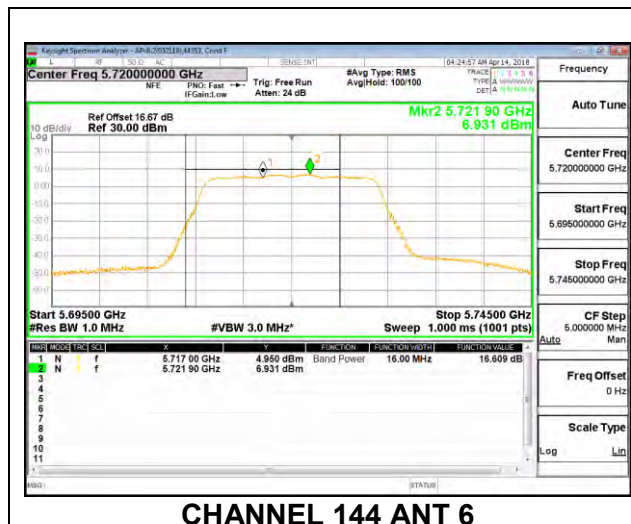


MID CHANNEL ANT 5

HIGH CHANNEL



CHANNEL 144



8.5.8. 802.11n HT40 MODE IN THE 5.6 GHz BAND

1TX Antenna 6 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5510	40.50	-2.90	24.00	11.00
Mid	5550	40.60	-2.90	24.00	11.00
High	5670	40.50	-2.90	24.00	11.00
142	5710	40.40	-2.90	24.00	11.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power (Ch 142) & PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	17.82	17.82	24.00	-6.18
Mid	5550	21.88	21.88	24.00	-2.12
High	5670	21.92	21.92	24.00	-2.08
142	5710	21.38	21.47	24.00	-2.53

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	4.50	4.59	11.00	-6.41
Mid	5550	8.30	8.39	11.00	-2.61
High	5670	8.48	8.57	11.00	-2.43
142	5710	8.42	8.51	11.00	-2.49



1TX Antenna 5 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5510	40.1	-0.80	24.00	11.00
Mid	5550	40.1	-0.80	24.00	11.00
High	5670	40	-0.80	24.00	11.00
142	5710	40.20	-0.80	24.00	11.00

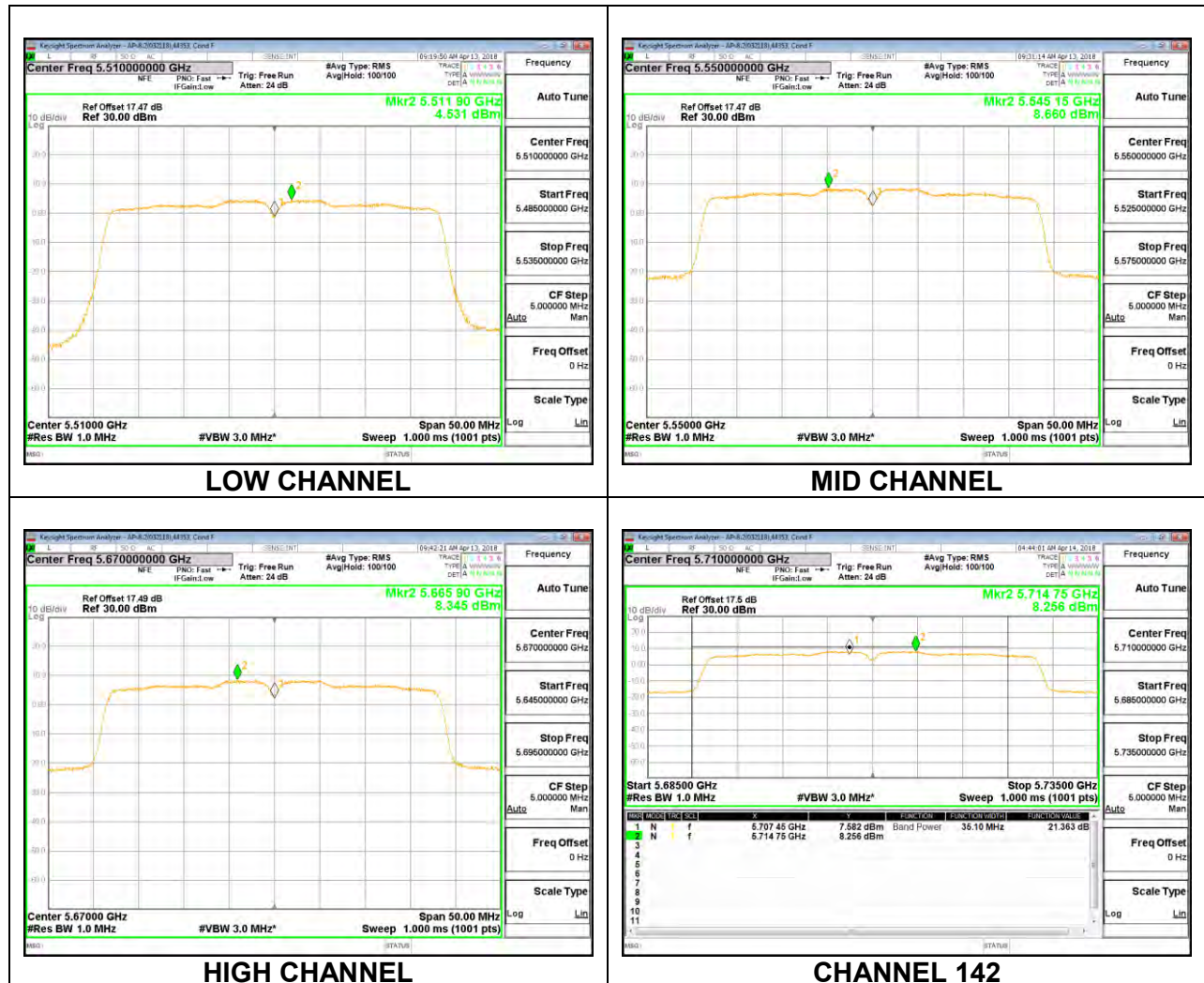
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power (Ch 142) & PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	17.84	17.84	24.00	-6.16
Mid	5550	21.93	21.93	24.00	-2.07
High	5670	21.97	21.97	24.00	-2.03
142	5710	21.36	21.45	24.00	-2.55

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	4.53	4.62	11.00	-6.38
Mid	5550	8.66	8.75	11.00	-2.25
High	5670	8.35	8.44	11.00	-2.57
142	5710	8.26	8.35	11.00	-2.65



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

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/ 1MHz)
Low	5510	40.20	-1.72	1.22	24.00	11.00
Mid	5550	40.10	-1.72	1.22	24.00	11.00
High	5670	40.30	-1.72	1.22	24.00	11.00
142	5710	40.10	-1.72	1.22	24.00	11.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power (Ch 142) & PSD
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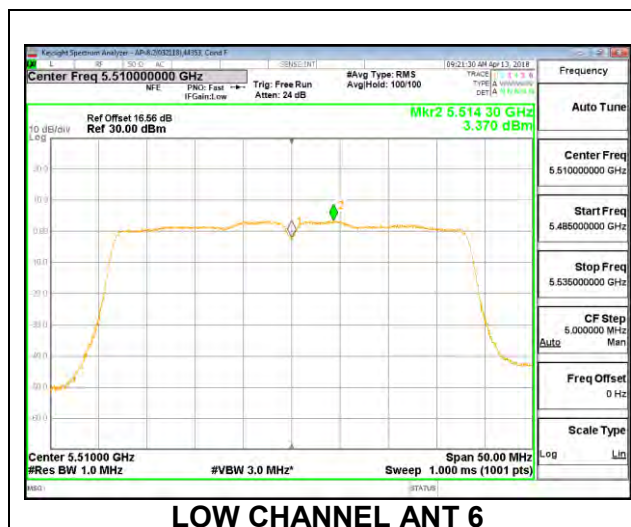
Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	16.87	16.95	19.92	24.00	-4.08
Mid	5550	19.85	19.94	22.91	24.00	-1.09
High	5670	19.89	19.95	22.93	24.00	-1.07
142	5710	19.32	19.22	22.37	24.00	-1.63

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/ 1MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	3.37	3.61	6.59	11.00	-4.41
Mid	5550	6.51	6.43	9.57	11.00	-1.43
High	5670	6.55	6.57	9.66	11.00	-1.34
142	5710	6.13	5.94	9.13	11.00	-1.87

LOW CHANNEL

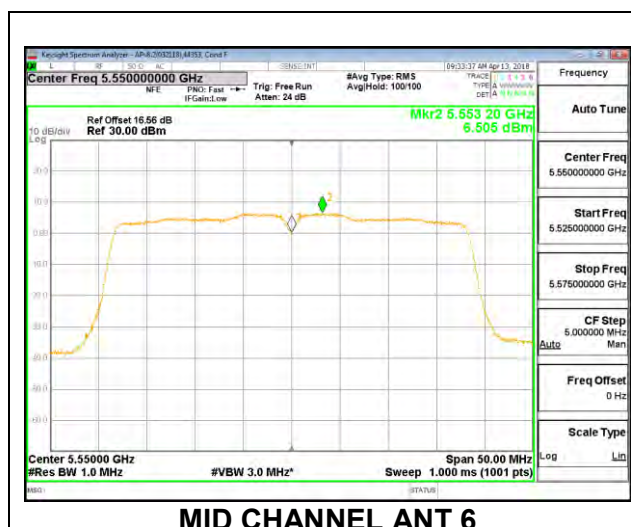


LOW CHANNEL ANT 6

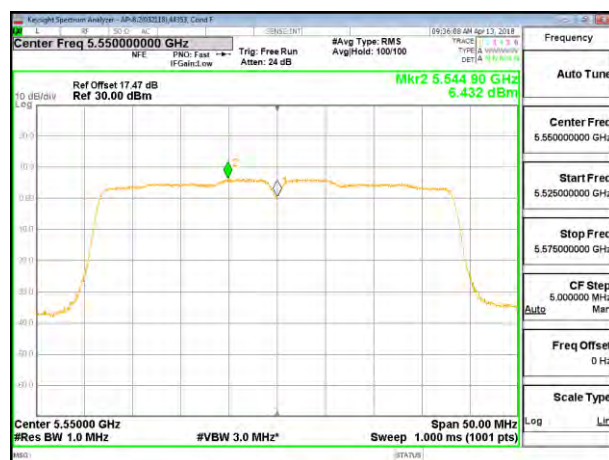


LOW CHANNEL ANT 5

MID CHANNEL

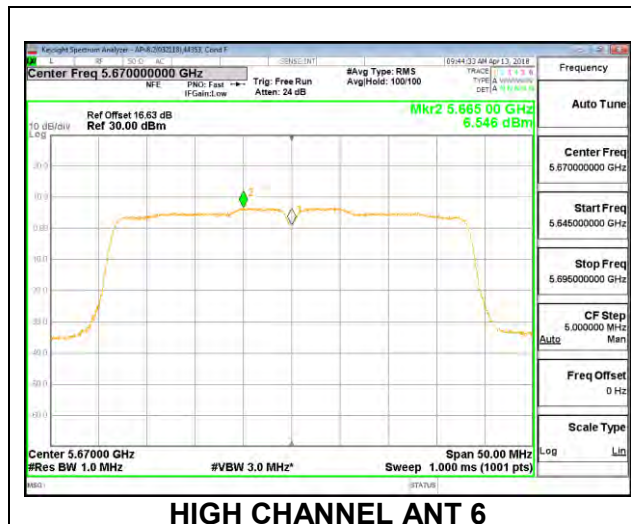


MID CHANNEL ANT 6

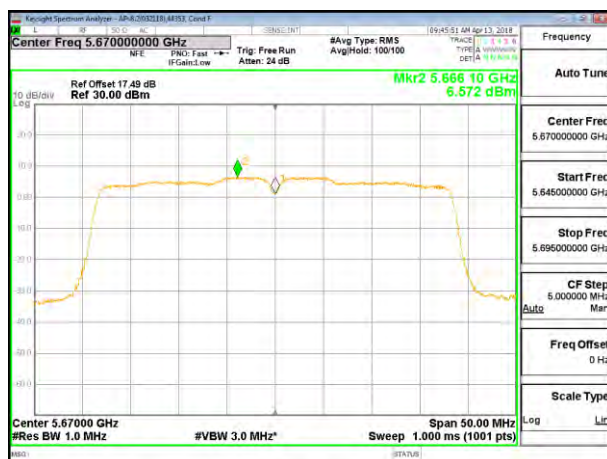


MID CHANNEL ANT 5

HIGH CHANNEL

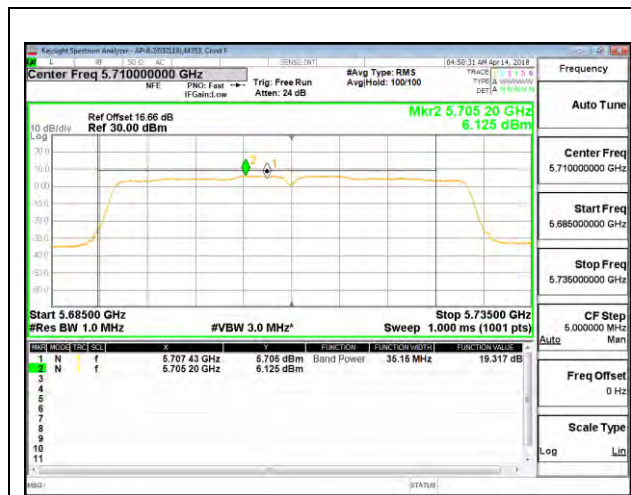


HIGH CHANNEL ANT 6

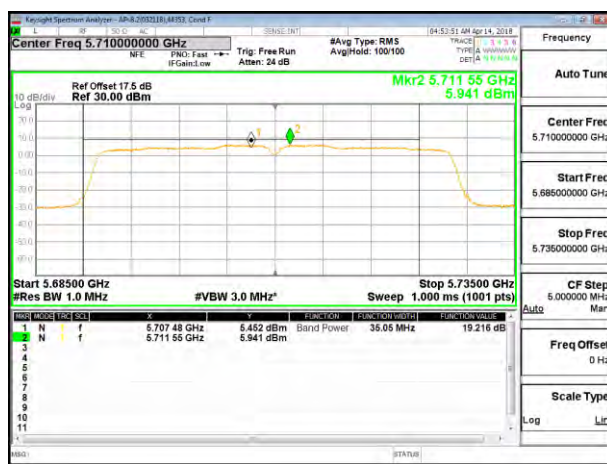


HIGH CHANNEL ANT 5

CHANNEL 142



CHANNEL 142 ANT 6



CHANNEL 142 ANT 5

8.5.9. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

1TX Antenna 6 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82.20	-2.90	24.00	11.00
High	5610	82.40	-2.90	24.00	11.00
138	5690	82.80	-2.90	24.00	11.00

Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	17.38	17.38	24.00	-6.62
High	5610	21.89	21.89	24.00	-2.11
138	5690	21.59	21.79	24.00	-2.21

PSD Results

Channel	Frequency (MHz)	Ant 6 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	1.90	2.10	11.00	-8.90
High	5610	5.20	5.40	11.00	-5.60
138	5690	5.22	5.42	11.00	-5.58



1TX Antenna 5 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82	-0.80	24.00	11.00
High	5610	82.2	-0.80	24.00	11.00
138	5690	82.40	-0.80	24.00	11.00

Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	17.46	17.46	24.00	-6.54
High	5610	21.92	21.92	24.00	-2.08
138	5690	21.69	21.89	24.00	-2.11

PSD Results

Channel	Frequency (MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	1.78	1.98	11.00	-9.02
High	5610	5.58	5.78	11.00	-5.22
138	5690	5.34	5.54	11.00	-5.46