

RESULTS

8.5.1. 802.11a MODE IN THE 5.2 GHz BAND

1TX Chain 1 MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5180	16.4646	2.40
Mid	5200	16.4403	2.40
High	5240	16.4147	2.40

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	19.77	19.77	11.00	10.00	7.60
Mid	5200	24.00	22.16	19.76	19.76	11.00	10.00	7.60
High	5240	24.00	22.15	19.75	19.75	11.00	10.00	7.60

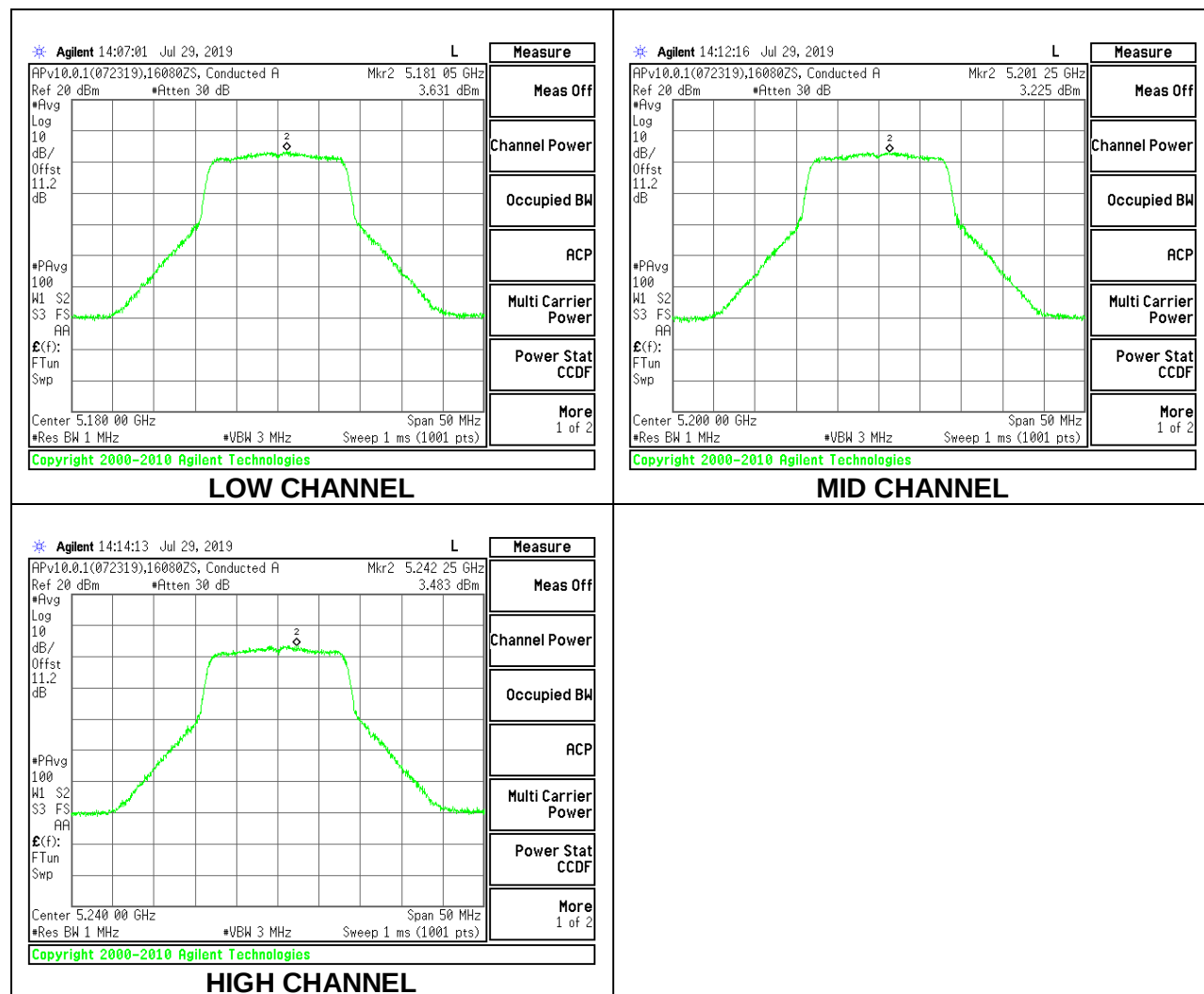
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.21	13.21	19.77	-6.56
Mid	5200	13.05	13.05	19.76	-6.71
High	5240	13.14	13.14	19.75	-6.61

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	3.631	3.63	7.60	-3.97
Mid	5200	3.225	3.23	7.60	-4.38
High	5240	3.483	3.48	7.60	-4.12



1TX Chain 2 MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5180	16.4533	2.00
Mid	5200	16.5129	2.00
High	5240	16.4865	2.00

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	22.16	20.16	20.16	11.00	10.00	8.00
Mid	5200	24.00	22.18	20.18	20.18	11.00	10.00	8.00
High	5240	24.00	22.17	20.17	20.17	11.00	10.00	8.00

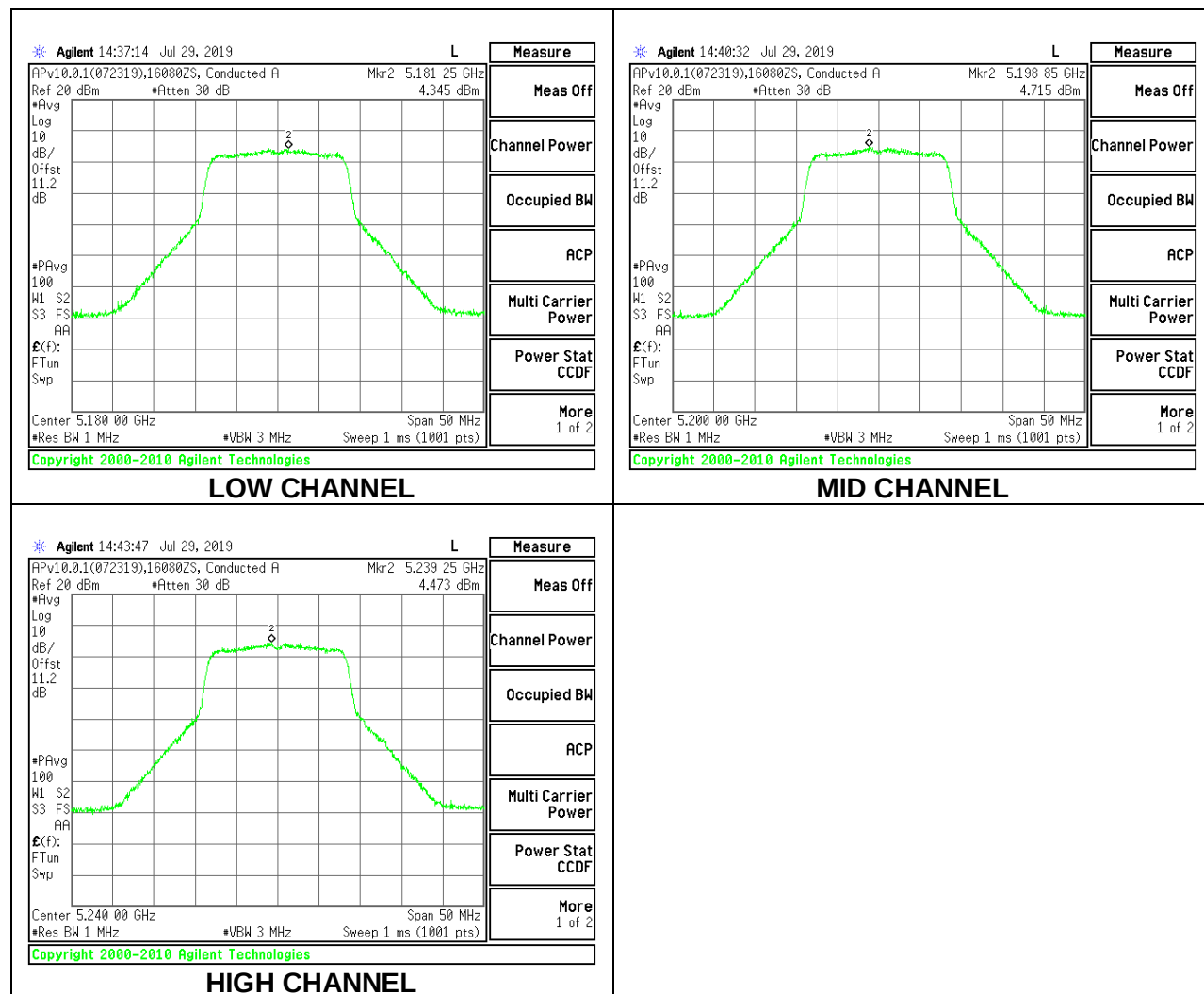
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.10	13.10	20.16	-7.06
Mid	5200	13.30	13.30	20.18	-6.88
High	5240	13.14	13.14	20.17	-7.03

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	4.345	4.35	8.00	-3.66
Mid	5200	4.715	4.72	8.00	-3.29
High	5240	4.473	4.47	8.00	-3.53



2TX Chain 1 + Chain 2 CDD MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	16.464	2.20	5.21
Mid	5200	16.559	2.20	5.21
High	5240	16.468	2.20	5.21

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	19.97	19.97	11.00	10.00	4.79
Mid	5200	24.00	22.19	19.99	19.99	11.00	10.00	4.79
High	5240	24.00	22.17	19.97	19.97	11.00	10.00	4.79

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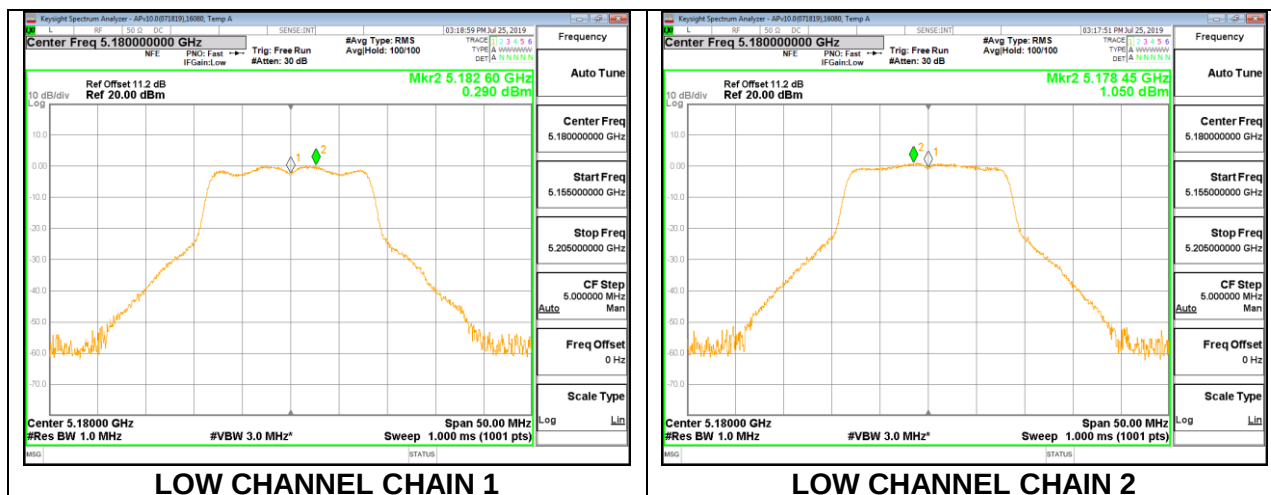
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	10.27	11.55	13.97	19.97	-6.00
Mid	5200	9.86	11.13	13.55	19.99	-6.44
High	5240	10.01	11.39	13.76	19.97	-6.20

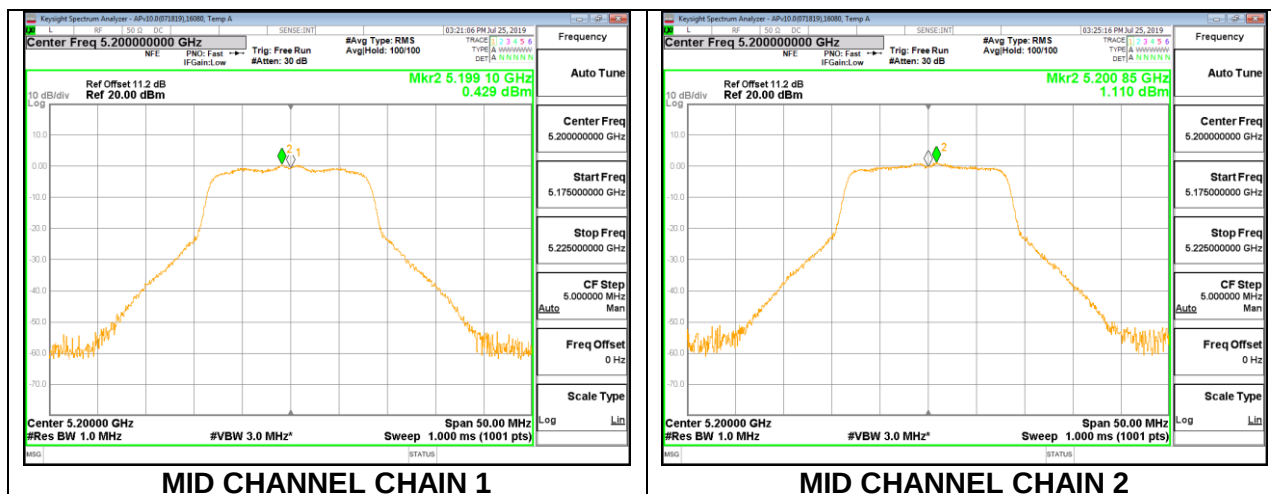
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	0.29	1.05	3.70	4.79	-1.09
Mid	5200	0.43	1.11	3.79	4.79	-1.00
High	5240	-0.20	1.13	3.53	4.79	-1.26

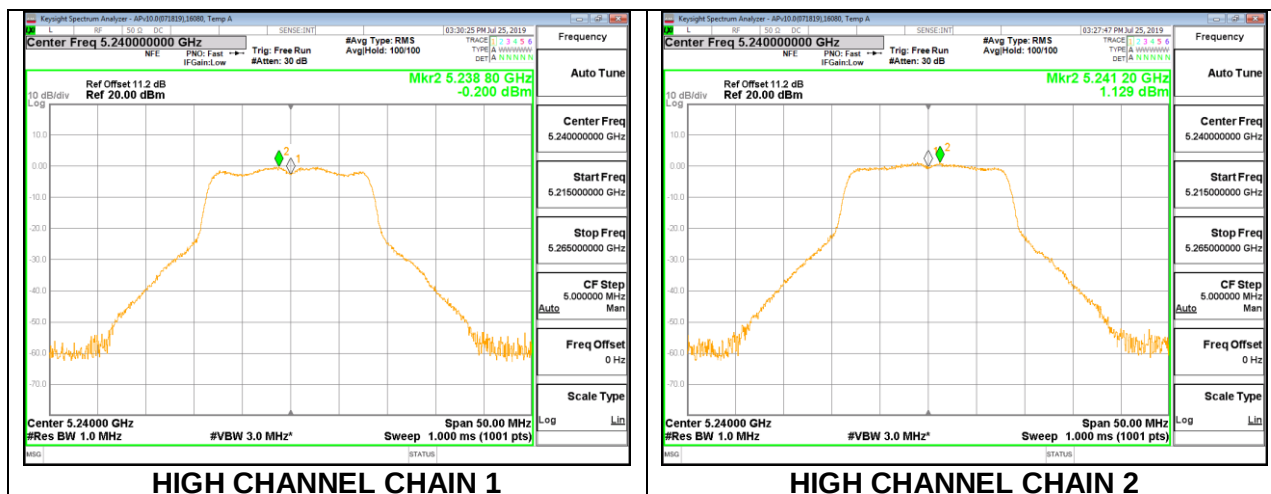
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Chain 1 MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5180	17.6827	2.40
Mid	5200	17.7082	2.40
High	5240	17.7009	2.40

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	22.48	20.08	20.08	11.00	10.00	7.60
Mid	5200	24.00	22.48	20.08	20.08	11.00	10.00	7.60
High	5240	24.00	22.48	20.08	20.08	11.00	10.00	7.60

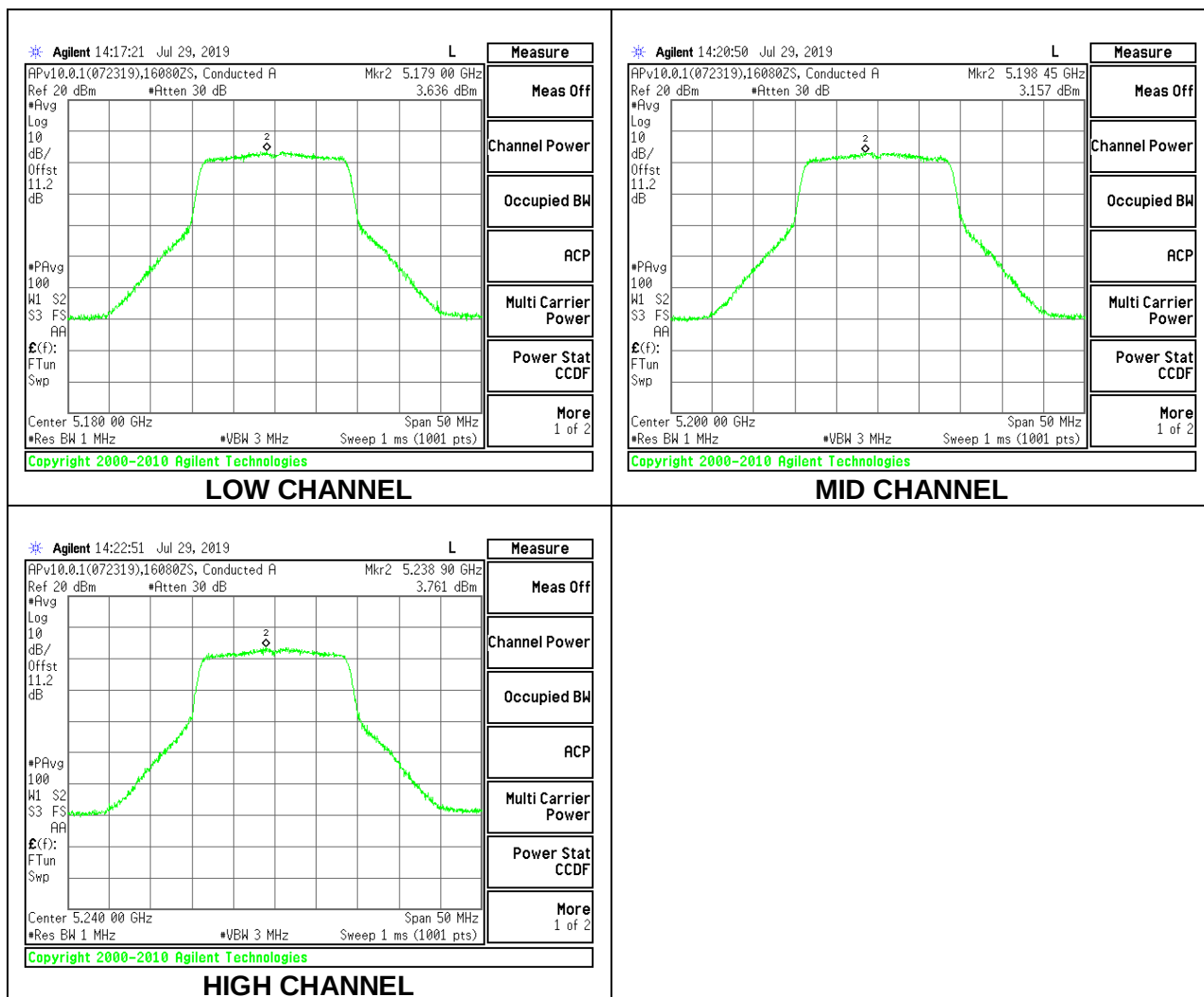
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.48	13.48	20.08	-6.60
Mid	5200	13.43	13.43	20.08	-6.65
High	5240	13.41	13.41	20.08	-6.67

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	3.636	3.73	7.60	-3.87
Mid	5200	3.157	3.25	7.60	-4.35
High	5240	3.761	3.85	7.60	-3.75



1TX Chain 2 MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5180	17.6997	2.00
Mid	5200	17.7045	2.00
High	5240	17.6513	2.00

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	22.48	20.48	20.48	11.00	10.00	8.00
Mid	5200	24.00	22.48	20.48	20.48	11.00	10.00	8.00
High	5240	24.00	22.47	20.47	20.47	11.00	10.00	8.00

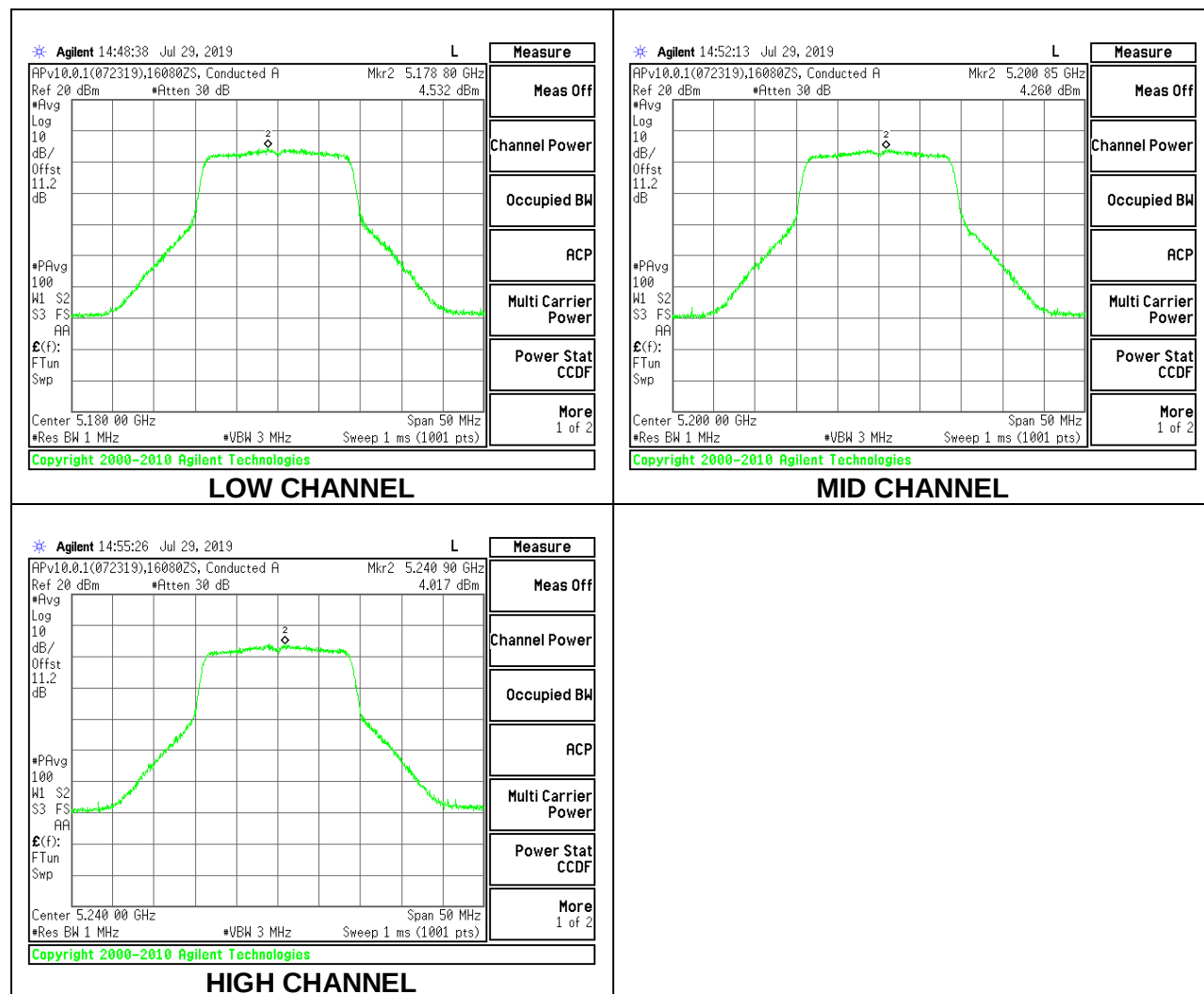
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.46	13.46	20.48	-7.02
Mid	5200	13.35	13.35	20.48	-7.13
High	5240	13.28	13.28	20.47	-7.19

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	4.532	4.62	8.00	-3.38
Mid	5200	4.260	4.35	8.00	-3.65
High	5240	4.017	4.11	8.00	-3.89



2TX Chain 1 + Chain 2 CDD MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	17.719	2.20	5.21
Mid	5200	17.761	2.20	5.21
High	5240	17.677	2.20	5.21

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	22.48	20.28	20.28	11.00	10.00	4.79
Mid	5200	24.00	22.49	20.29	20.29	11.00	10.00	4.79
High	5240	24.00	22.47	20.27	20.27	11.00	10.00	4.79

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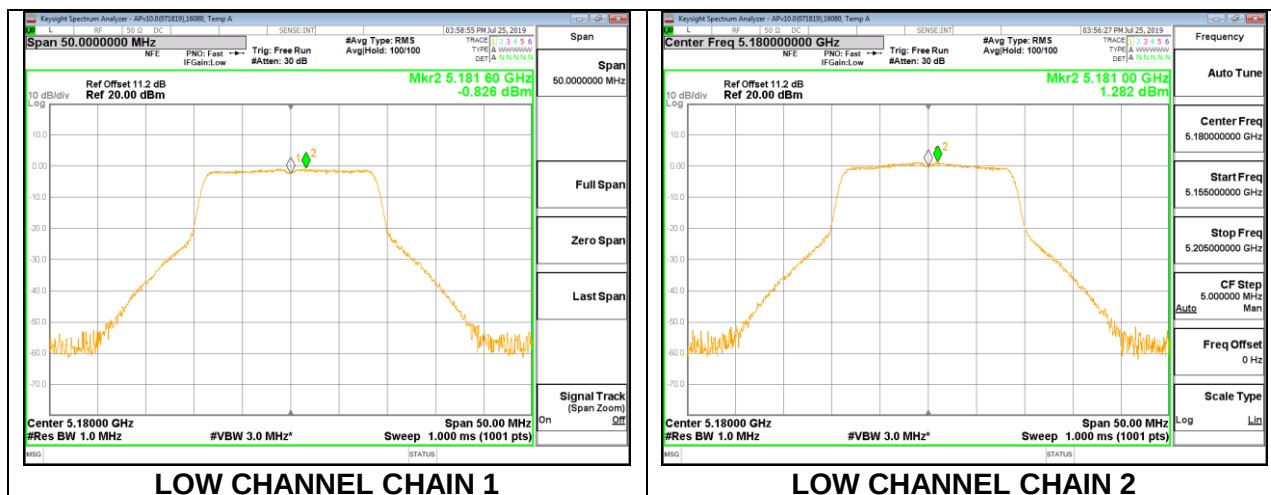
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	10.11	11.82	14.06	20.28	-6.23
Mid	5200	10.56	12.03	14.37	20.29	-5.93
High	5240	11.14	12.16	14.69	20.27	-5.58

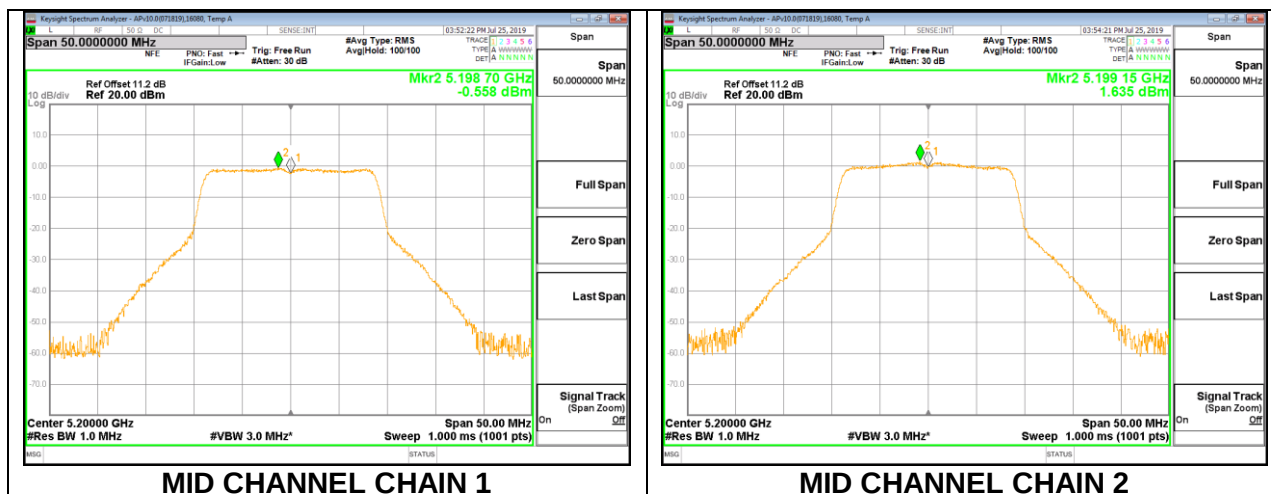
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	-0.826	1.282	3.45	4.79	-1.34
Mid	5200	-0.558	1.635	3.78	4.79	-1.01
High	5240	-0.270	1.663	3.90	4.79	-0.89

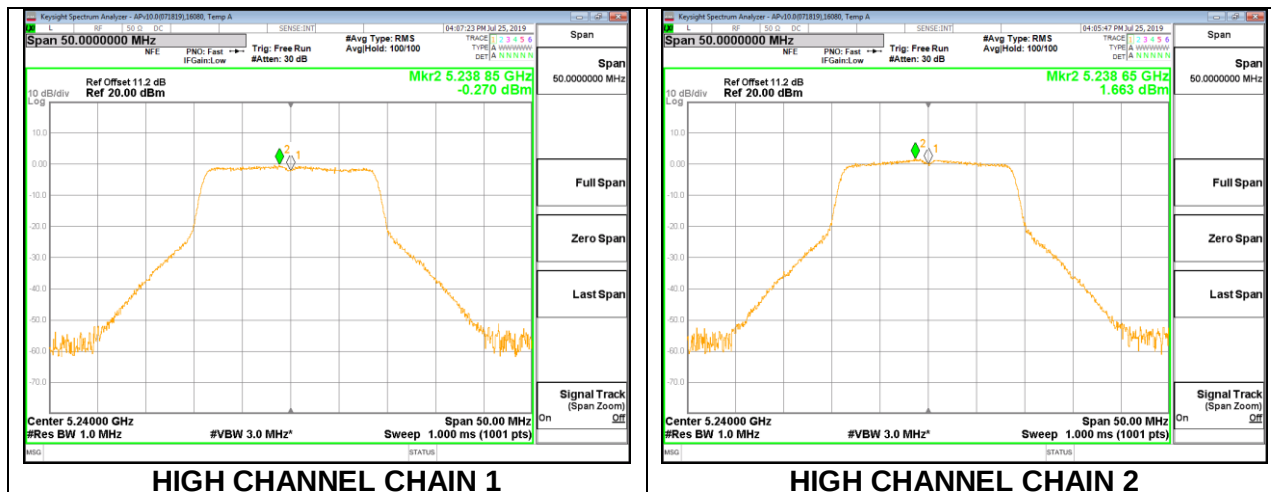
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Chain 1 MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5190	36.1766	2.40
High	5230	36.0304	2.40

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	5190	24.00	23.00	20.60	20.60	11.00	10.00	7.60
High	5230	24.00	23.00	20.60	20.60	11.00	10.00	7.60

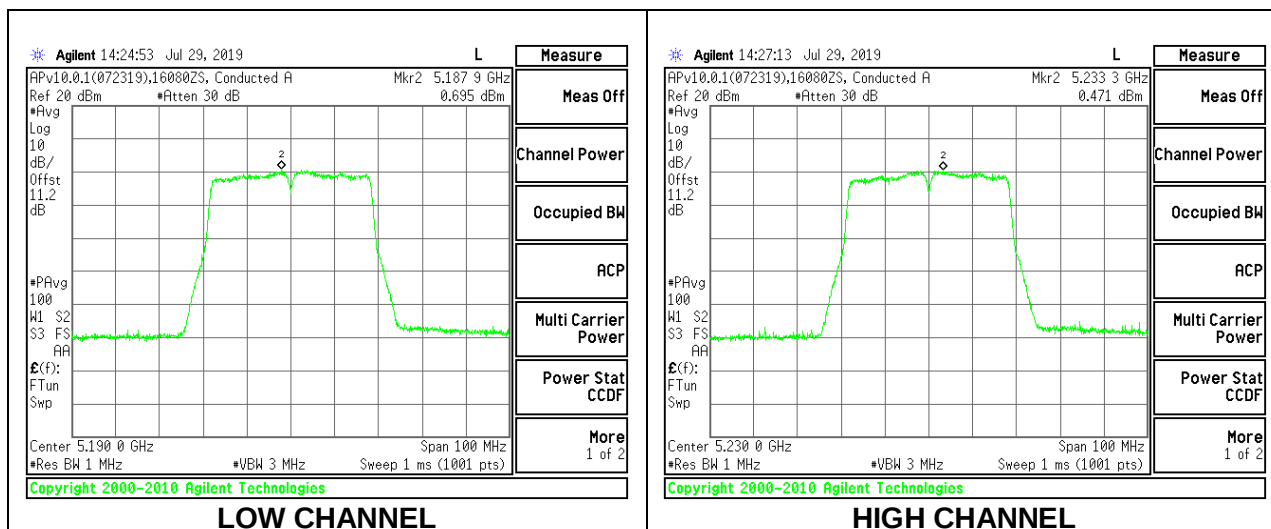
Duty Cycle CF (dB)	0.16	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	13.48	13.48	20.60	-7.12
High	5230	13.33	13.33	20.60	-7.27

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	0.695	0.86	7.60	-6.75
High	5230	0.471	0.63	7.60	-6.97



1TX Chain 2 MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5190	36.2086	2.00
High	5230	36.2189	2.00

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	5190	24.00	23.00	21.00	21.00	11.00	10.00	8.00
High	5230	24.00	23.00	21.00	21.00	11.00	10.00	8.00

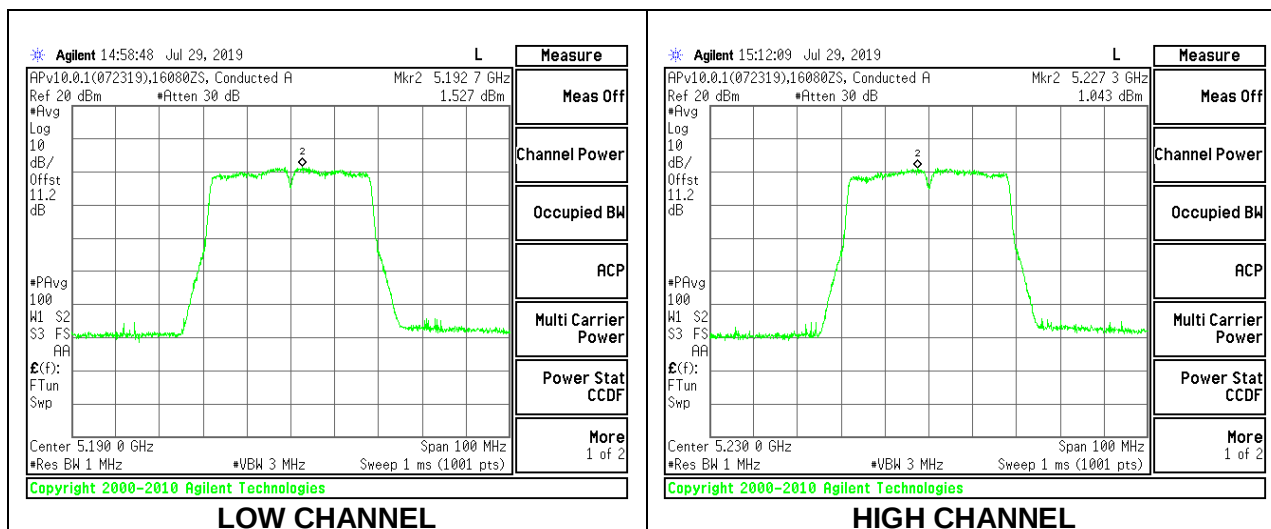
Duty Cycle CF (dB)	0.16	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	13.42	13.42	21.00	-7.58
High	5230	13.46	13.46	21.00	-7.54

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	1.527	1.69	8.00	-6.31
High	5230	1.043	1.20	8.00	-6.80



2TX Chain 1 + Chain 2 CDD MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5190	36.292	2.20	5.21
High	5230	36.238	2.20	5.21

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	5190	24.00	23.00	20.80	20.80	11.00	10.00	4.79
High	5230	24.00	23.00	20.80	20.80	11.00	10.00	4.79

Duty Cycle CF (dB)	0.16	Included in Calculations of Corr'd PSD
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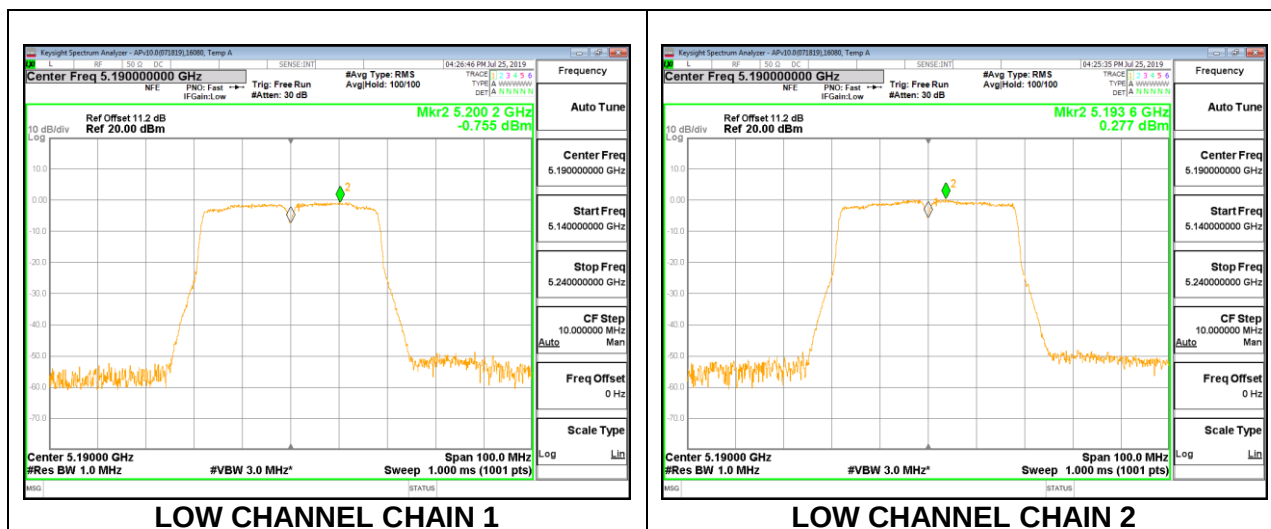
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	11.98	13.29	15.69	20.80	-5.11
High	5230	11.64	13.11	15.45	20.80	-5.35

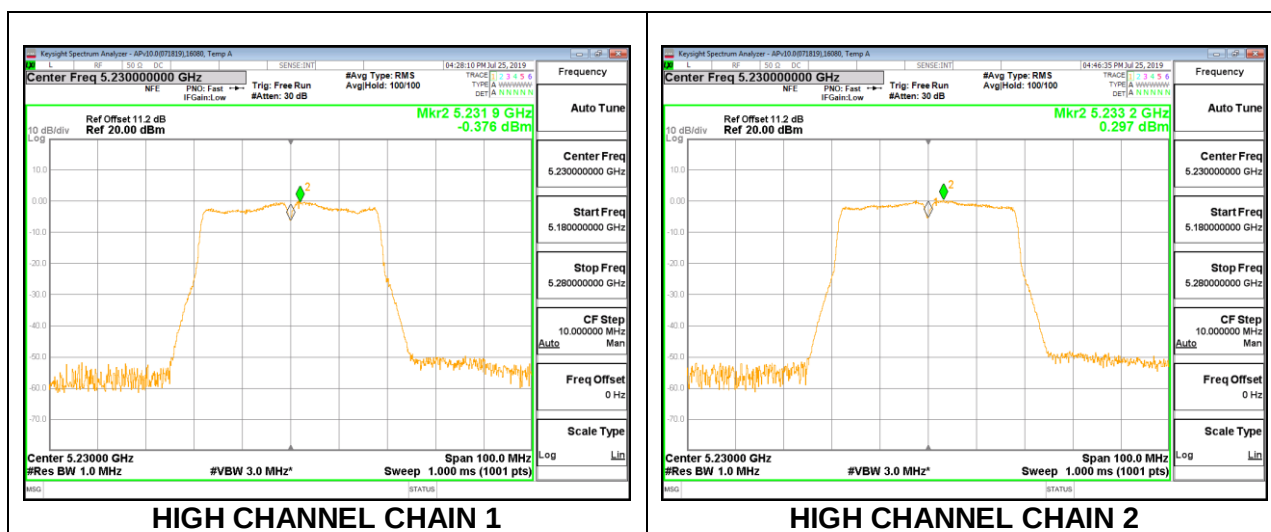
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-0.755	0.277	2.96	4.79	-1.83
High	5230	-0.376	0.279	3.13	4.79	-1.66

LOW CHANNEL



HIGH CHANNEL



8.5.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

1TX Chain 1 MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Mid	5210	76.0021	2.40

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)
Mid	5210	24.00	23.00	20.60	20.60	17.00	10.00	7.60

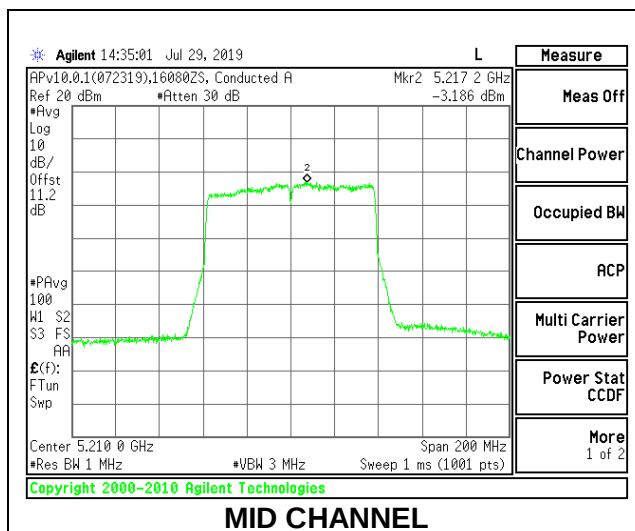
Duty Cycle CF (dB)	0.34	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	13.13	13.13	20.60	-7.47

PPSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-3.186	-2.85	7.60	-10.45



1TX Chain 2 MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Mid	5210	75.888	2.00

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)
Mid	5210	24.00	23.00	21.00	21.00	17.00	10.00	8.00

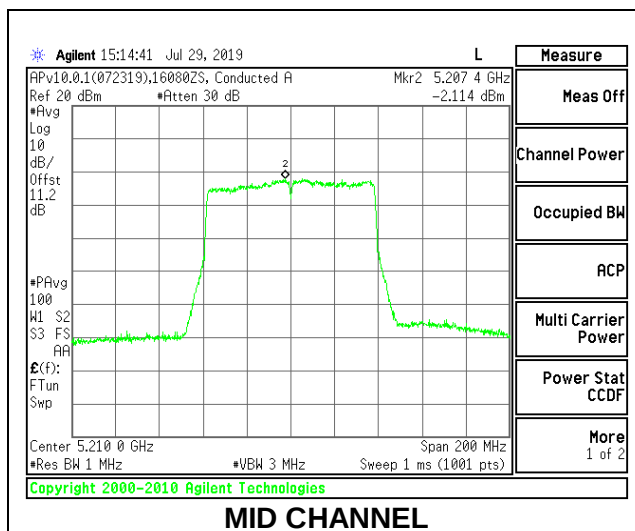
Duty Cycle CF (dB)	0.34	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	13.31	13.31	21.00	-7.69

PPSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-2.114	-1.77	8.00	-9.77



2TX Chain 1 + Chain 2 CDD MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5210	75.786	2.20	5.21

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)
Mid	5210	24.00	23.00	20.80	20.80	11.00	10.00	4.79

Duty Cycle CF (dB)	0.34	Included in Calculations of Corr'd PSD
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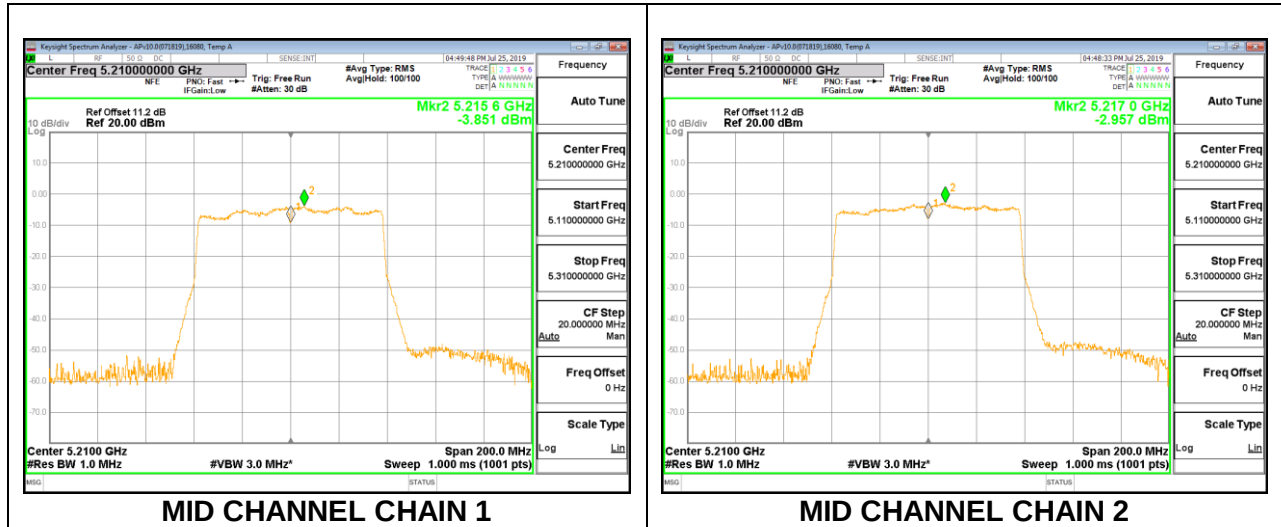
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	12.24	13.20	15.76	20.80	-5.04

PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-3.851	-2.957	-0.03	4.79	-4.82

MID CHANNEL



8.5.5. 802.11a MODE IN THE 5.3 GHz BAND

2TX Chain 1 + Chain 2 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	24.95	2.16	5.16	24.00	11.00
Mid	5300	24.95	2.16	5.16	24.00	11.00
High	5320	24.90	2.16	5.16	24.00	11.00

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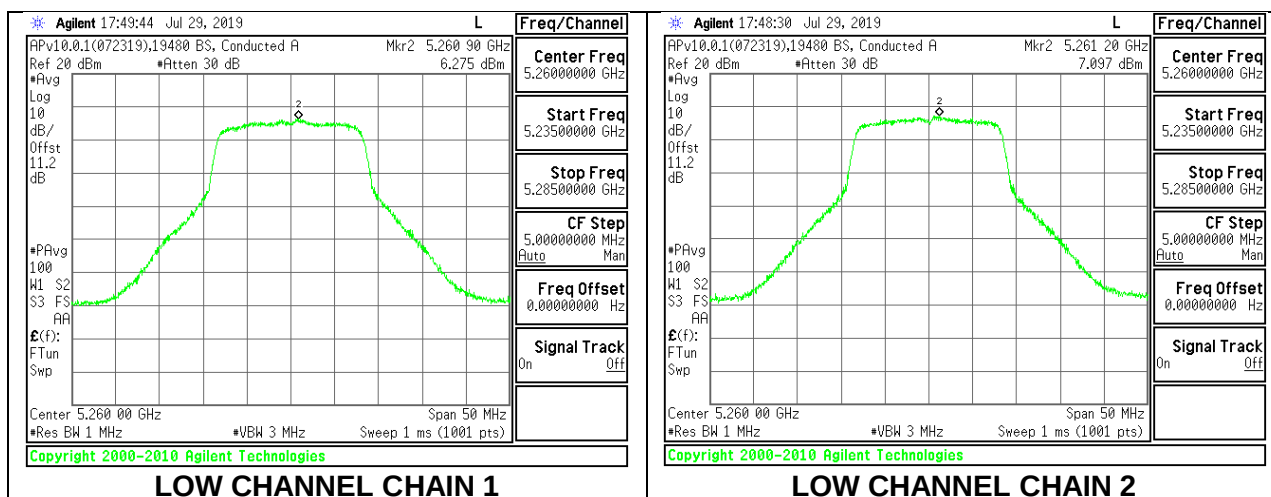
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	16.17	17.36	19.82	24.00	-4.18
Mid	5300	16.49	17.30	19.92	24.00	-4.08
High	5320	15.61	17.00	19.37	24.00	-4.63

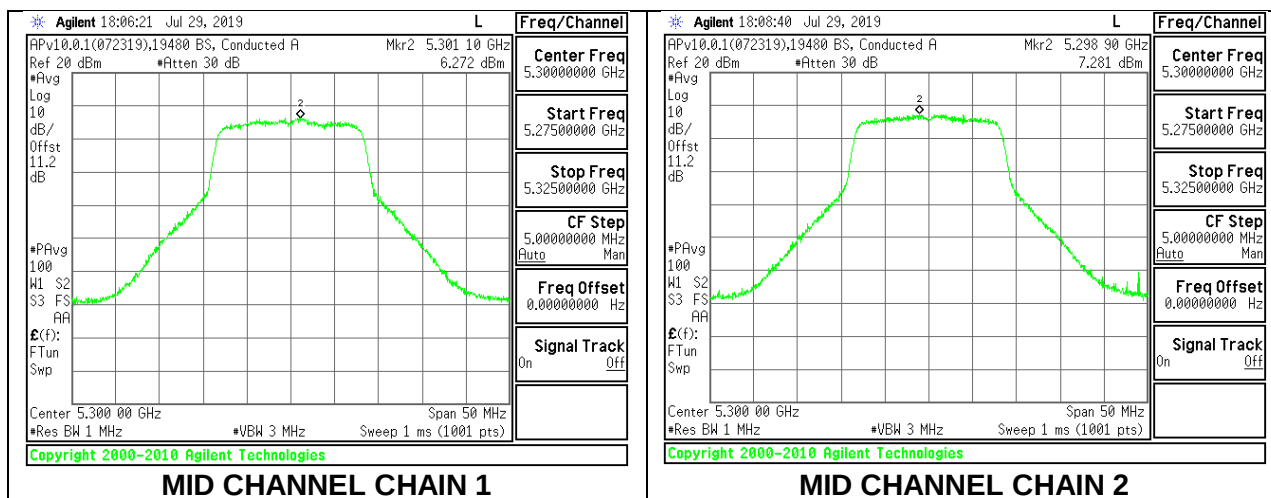
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	6.275	7.097	9.72	11.00	-1.28
Mid	5300	6.272	7.281	9.82	11.00	-1.18
High	5320	5.762	7.204	9.55	11.00	-1.45

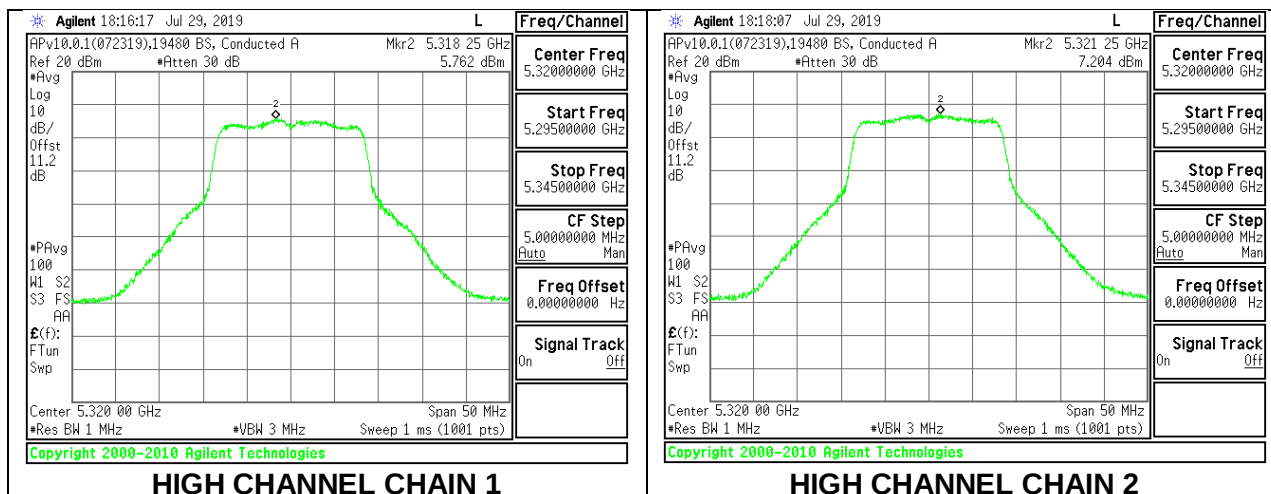
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



2TX Chain 1 + Chain 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	16.559	2.16	5.16	23.19	11.00
Mid	5300	16.587	2.16	5.16	23.20	11.00
High	5320	16.463	2.16	5.16	23.17	11.00

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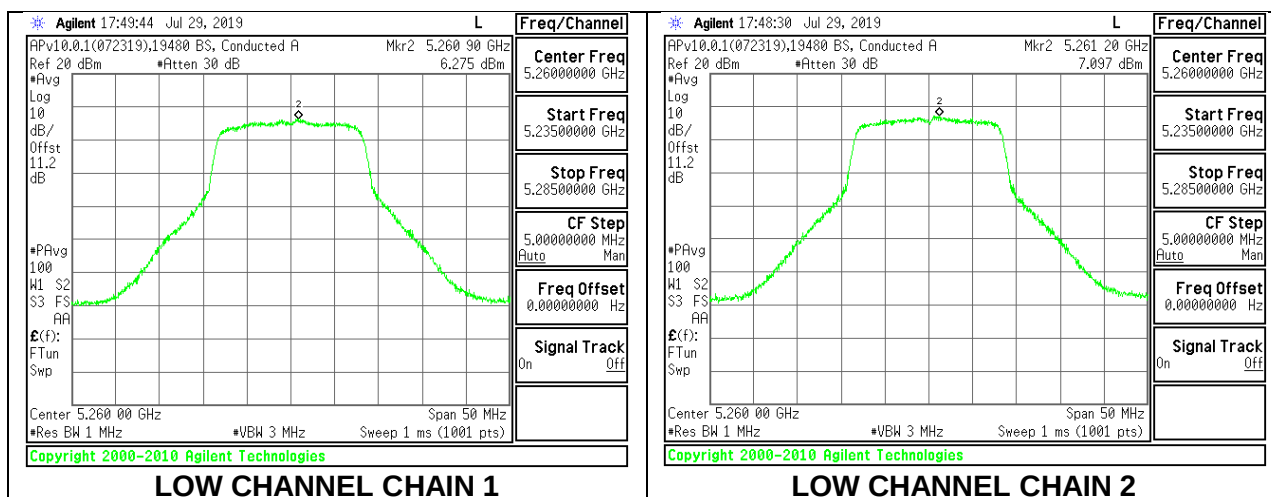
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	16.17	17.36	19.82	23.19	-3.37
Mid	5300	16.49	17.30	19.92	23.20	-3.27
High	5320	15.61	17.00	19.37	23.17	-3.79

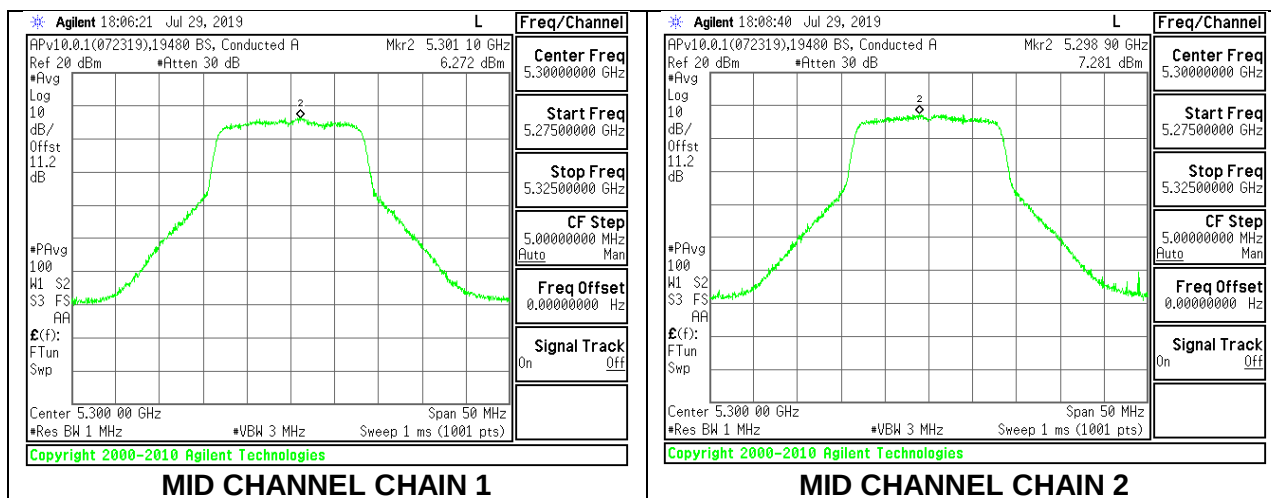
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	6.275	7.097	9.72	11.00	-1.28
Mid	5300	6.272	7.281	9.82	11.00	-1.18
High	5320	5.762	7.204	9.55	11.00	-1.45

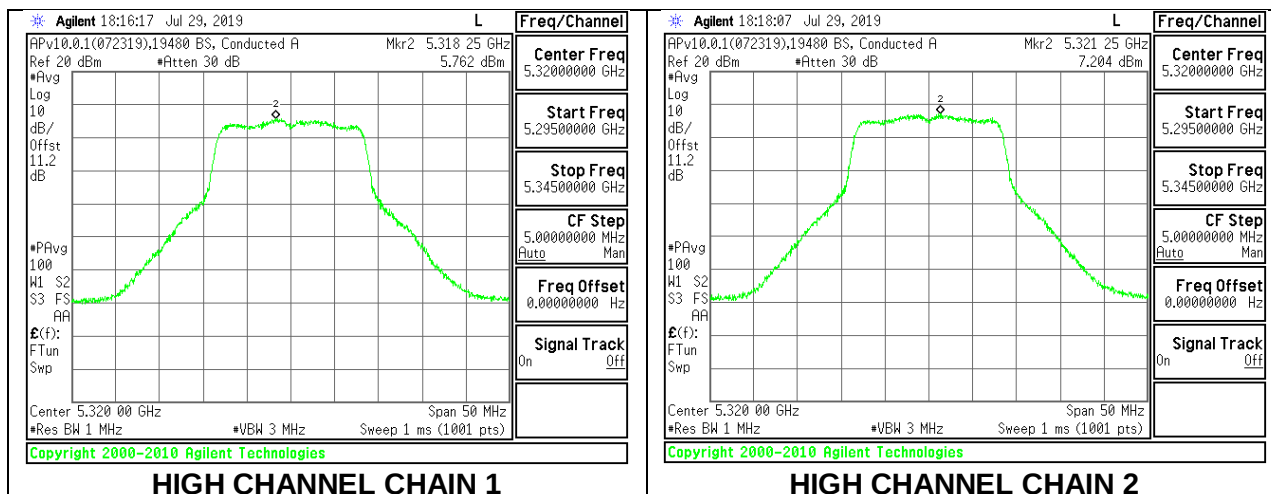
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

2TX Chain 1 + Chain 2 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	25.10	2.16	5.16	24.00	11.00
Mid	5300	25.15	2.16	5.16	24.00	11.00
High	5320	25.05	2.16	5.16	24.00	11.00

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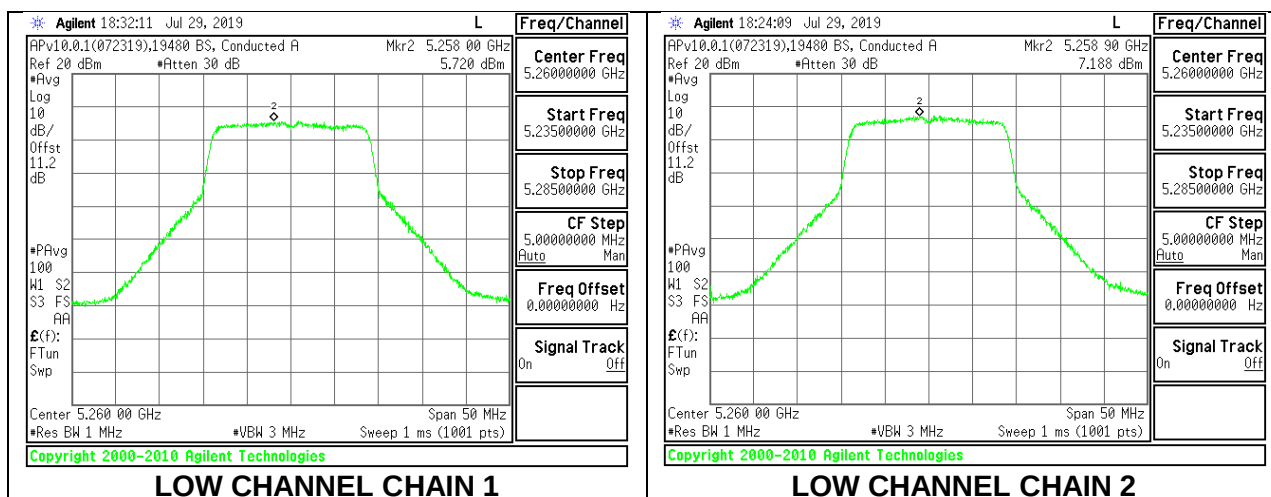
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	16.84	17.44	20.16	24.00	-3.84
Mid	5300	16.88	17.80	20.37	24.00	-3.63
High	5320	16.48	17.84	20.22	24.00	-3.78

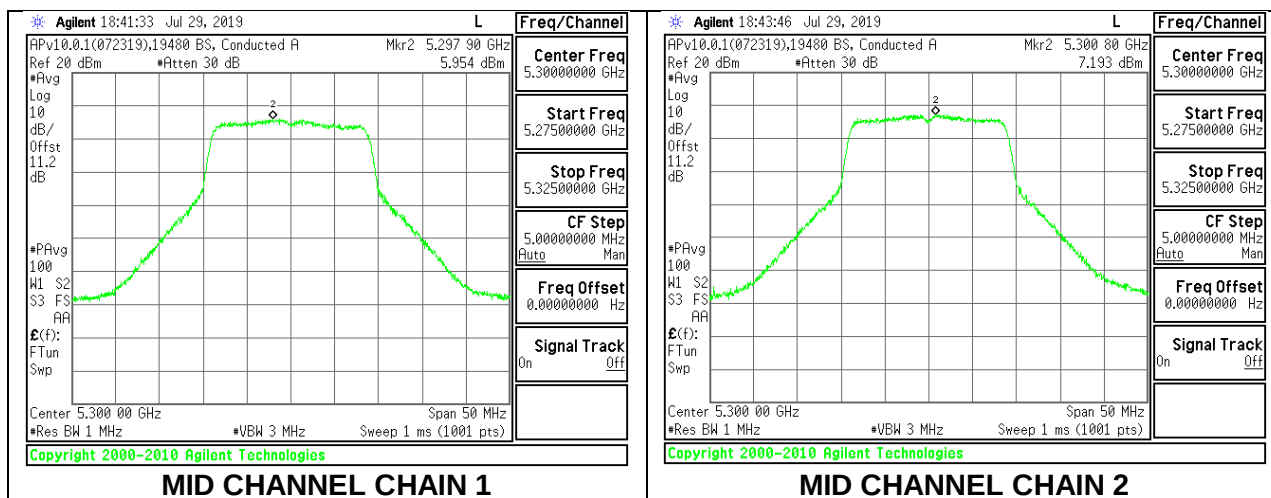
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	5.720	7.188	9.62	11.00	-1.38
Mid	5300	5.954	7.193	9.72	11.00	-1.28
High	5320	6.128	7.413	9.92	11.00	-1.08

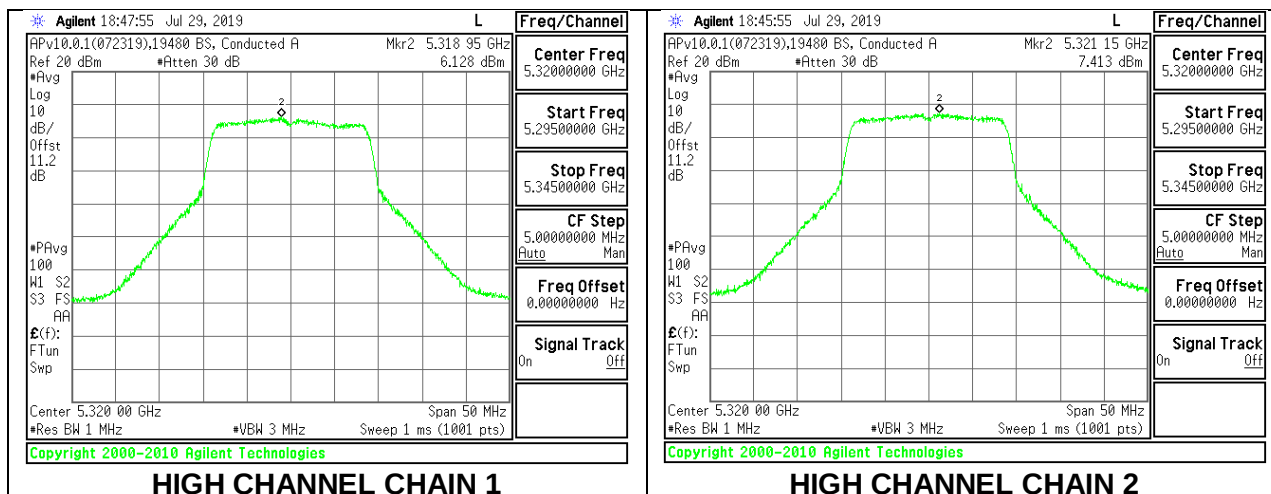
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



2TX Chain 1 + Chain 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	17.7280	2.16	5.16	23.49	11.00
Mid	5300	17.7261	2.16	5.16	23.49	11.00
High	5320	17.7140	2.16	5.16	23.48	11.00

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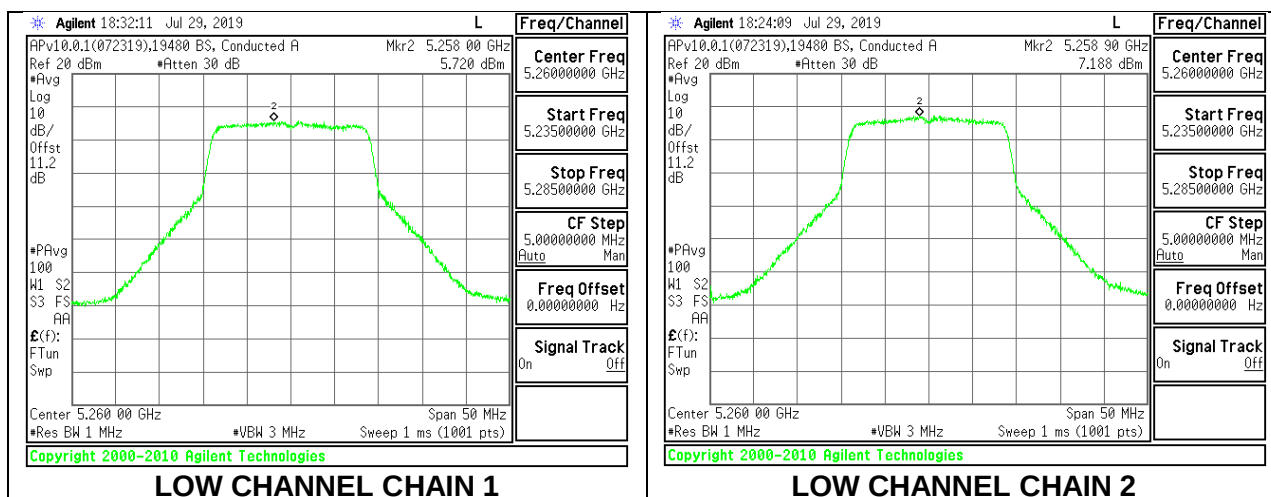
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	16.84	17.44	20.16	23.49	-3.33
Mid	5300	16.88	17.80	20.37	23.49	-3.11
High	5320	16.48	17.84	20.22	23.48	-3.26

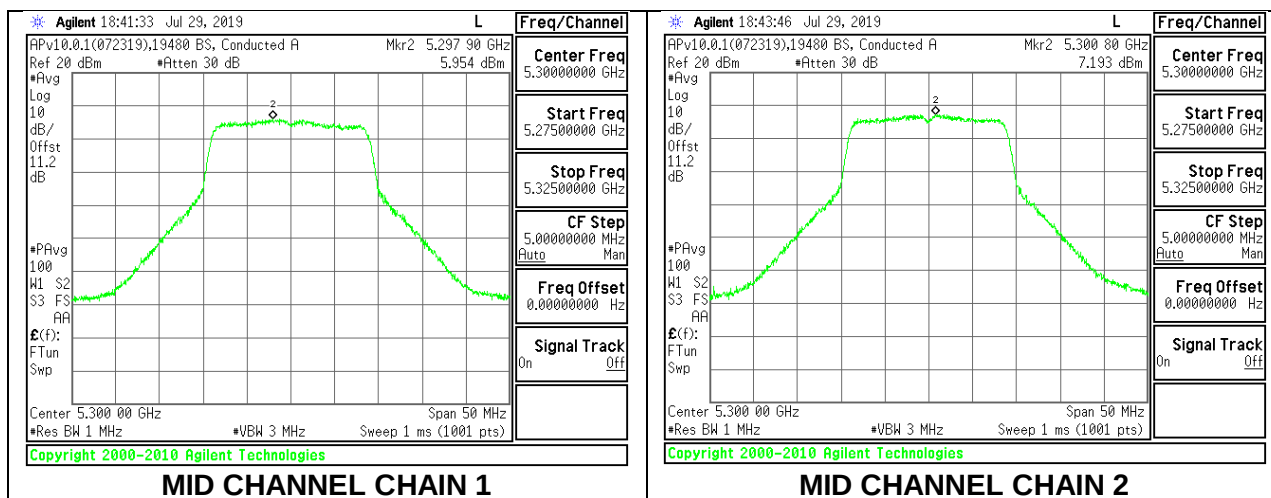
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	5.720	7.188	9.62	11.00	-1.38
Mid	5300	5.954	7.193	9.72	11.00	-1.28
High	5320	6.128	7.413	9.92	11.00	-1.08

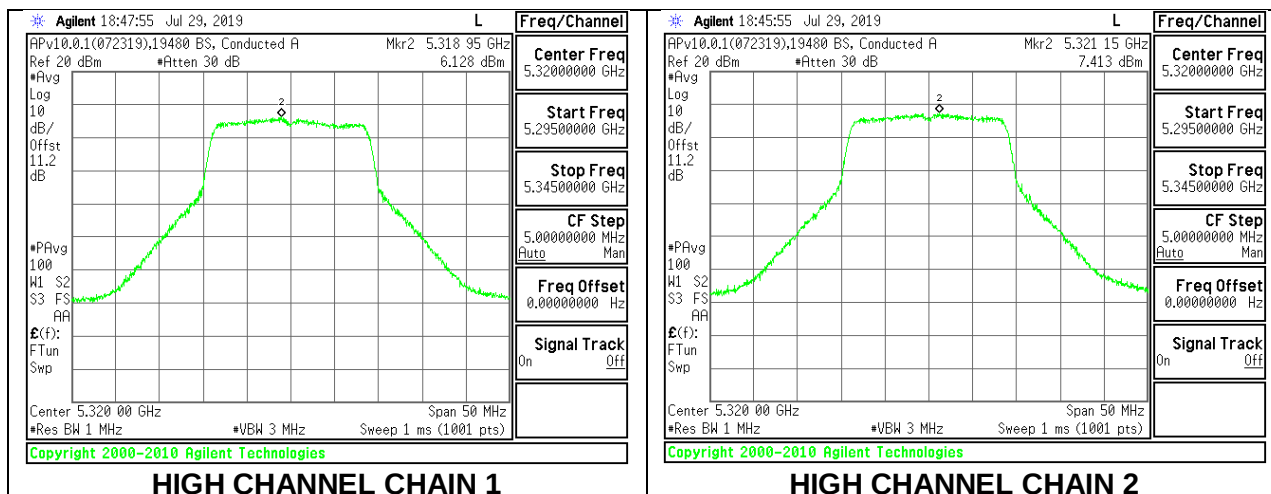
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

2TX Chain 1 + Chain 2 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	41.40	2.16	5.16	24.00	11.00
High	5310	41.50	2.16	5.16	24.00	11.00

Duty Cycle CF (dB)	0.16	Included in Calculations of Corr'd PSD
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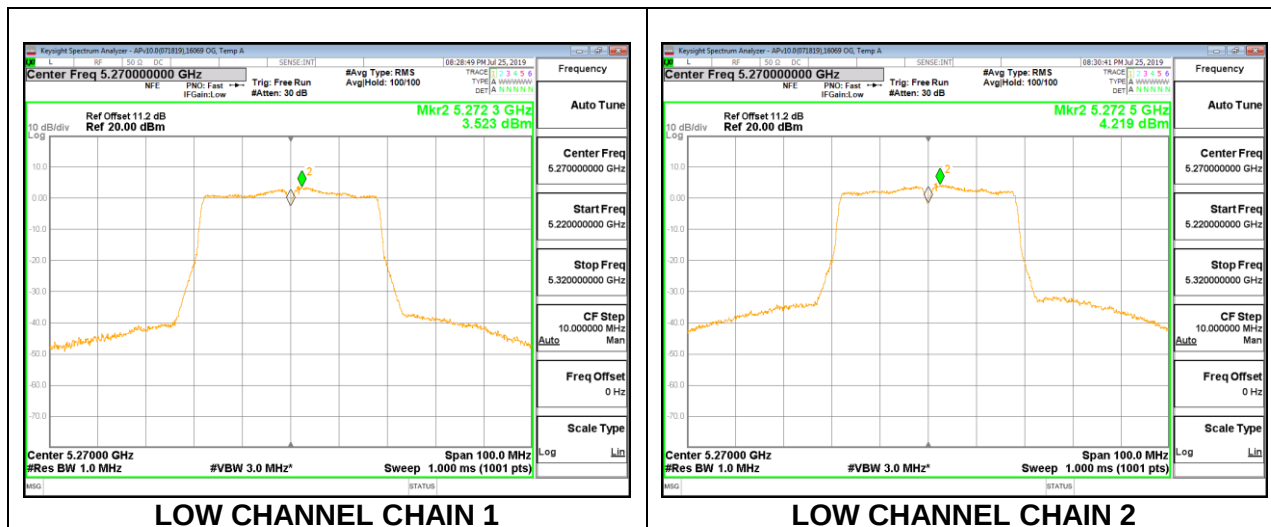
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	16.24	17.36	19.85	24.00	-4.15
High	5310	16.19	17.39	19.84	24.00	-4.16

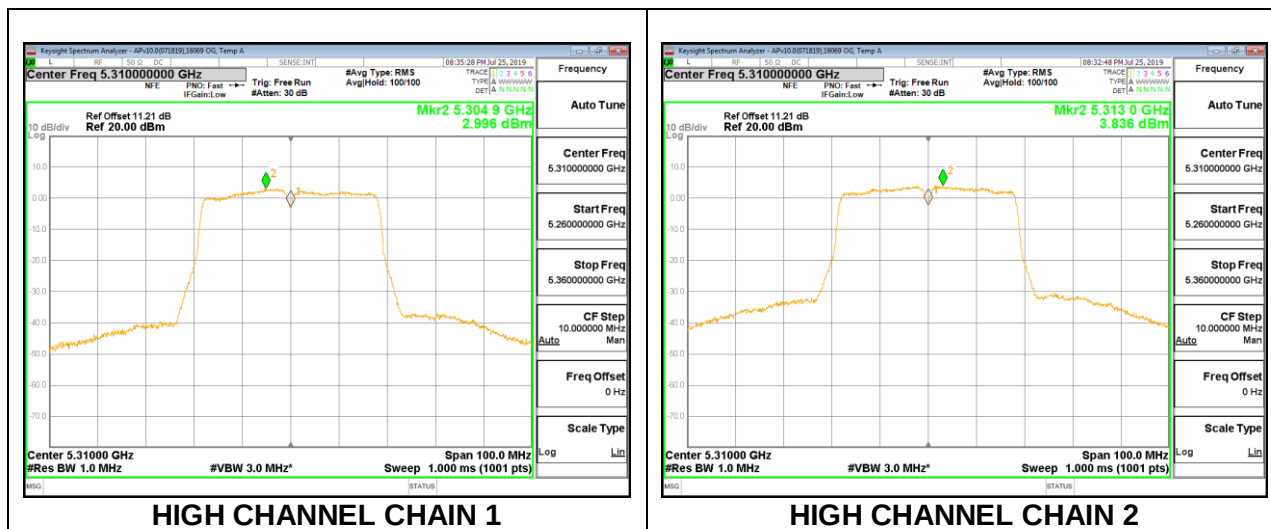
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	3.523	4.219	7.06	11.00	-3.94
High	5310	2.996	3.836	6.61	11.00	-4.39

LOW CHANNEL



HIGH CHANNEL



2TX Chain 1 + Chain 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	36.145	2.16	5.16	24.00	11.00
High	5310	36.239	2.16	5.16	24.00	11.00

Duty Cycle CF (dB)	0.16	Included in Calculations of Corr'd PSD
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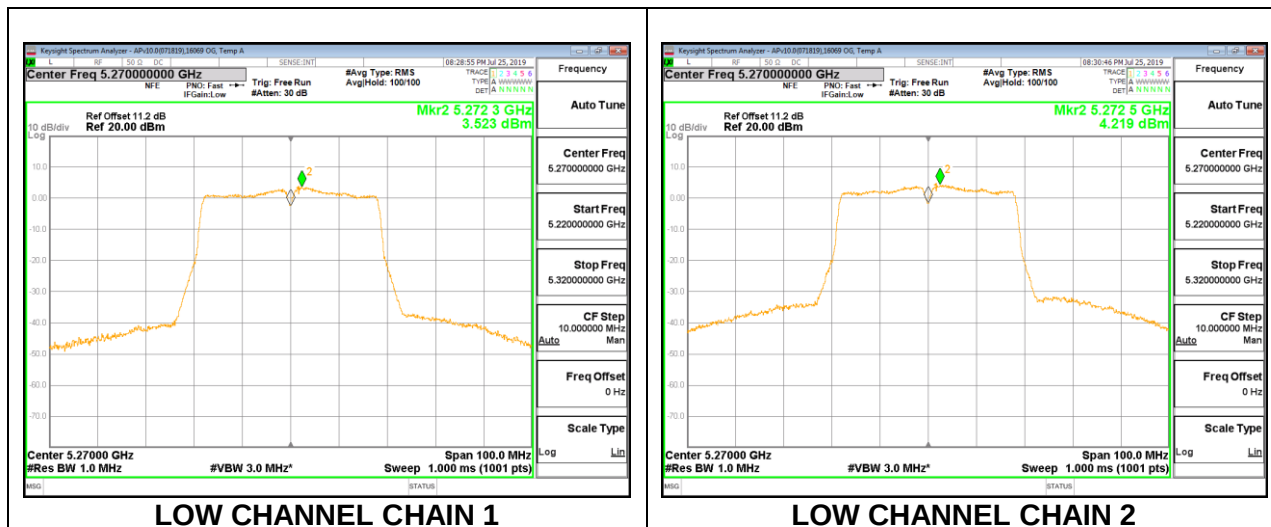
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	16.24	17.36	19.85	24.00	-4.15
High	5310	16.19	17.39	19.84	24.00	-4.16

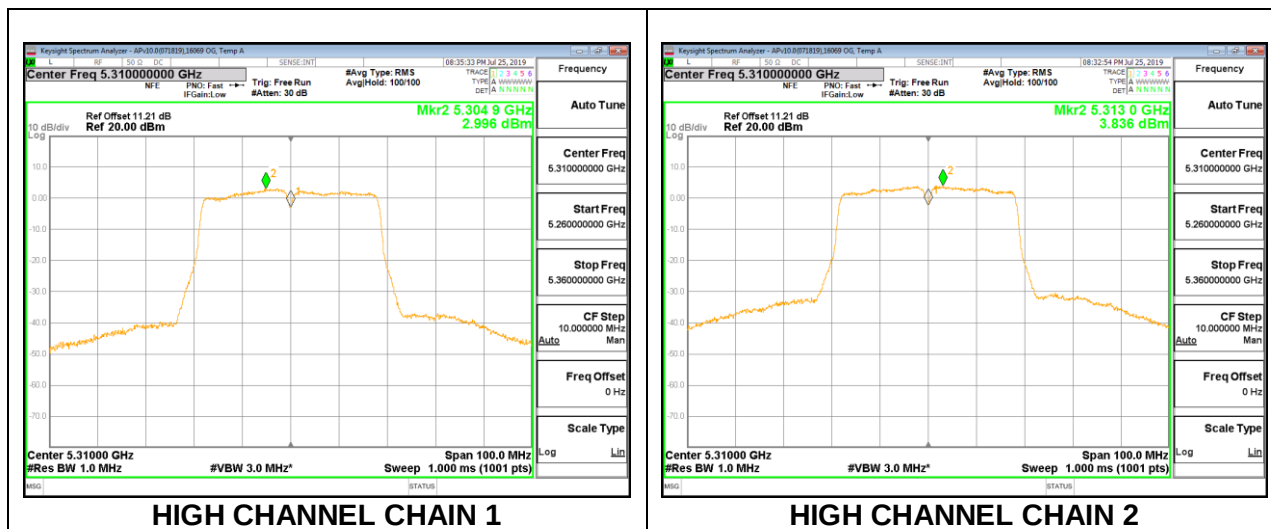
PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	3.523	4.219	7.06	11.00	-3.94
High	5310	2.996	3.836	6.61	11.00	-4.39

LOW CHANNEL



HIGH CHANNEL



8.5.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

2TX Chain 1 + Chain 2 CDD MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	84.00	2.16	5.16	24.00	11.00

Duty Cycle CF (dB)	0.34	Included in Calculations of Corr'd PSD
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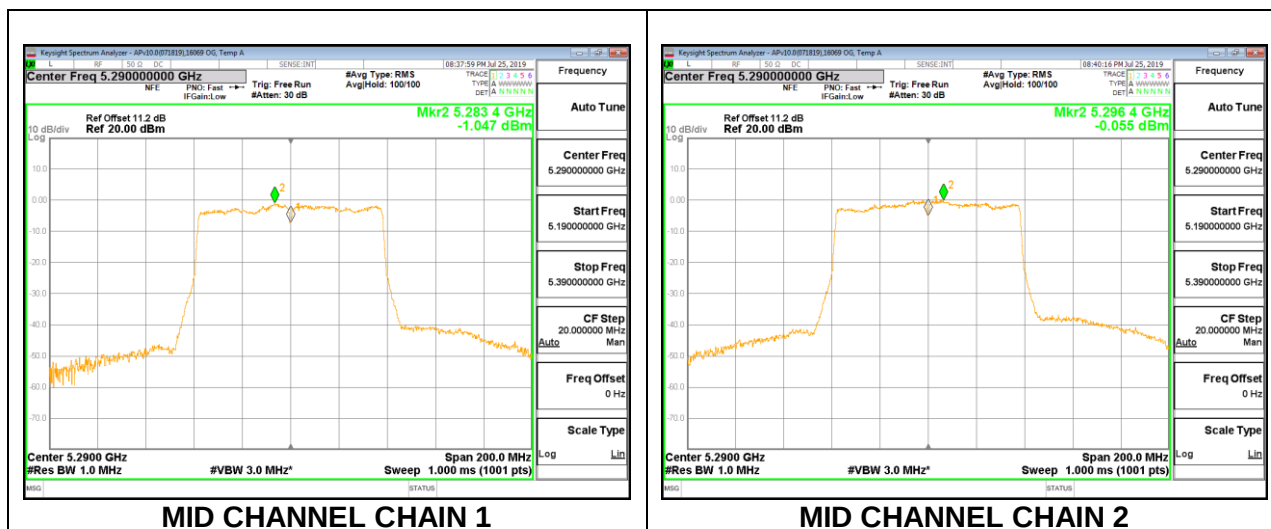
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.71	15.84	18.32	24.00	-5.68

PSD Results

	(MHz)	PSD (dBm/1MHz)	PSD (dBm/1MHz)	PSD (dBm/1MHz)	(dBm/1MHz)	(dB)
Mid	5290	-1.047	-0.055	2.83	11.00	-8.17

MID CHANNEL



2TX Chain 1 + Chain 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	75.6310	2.16	5.16	24.00	11.00

Duty Cycle CF (dB)	0.34	Included in Calculations of Corr'd PSD
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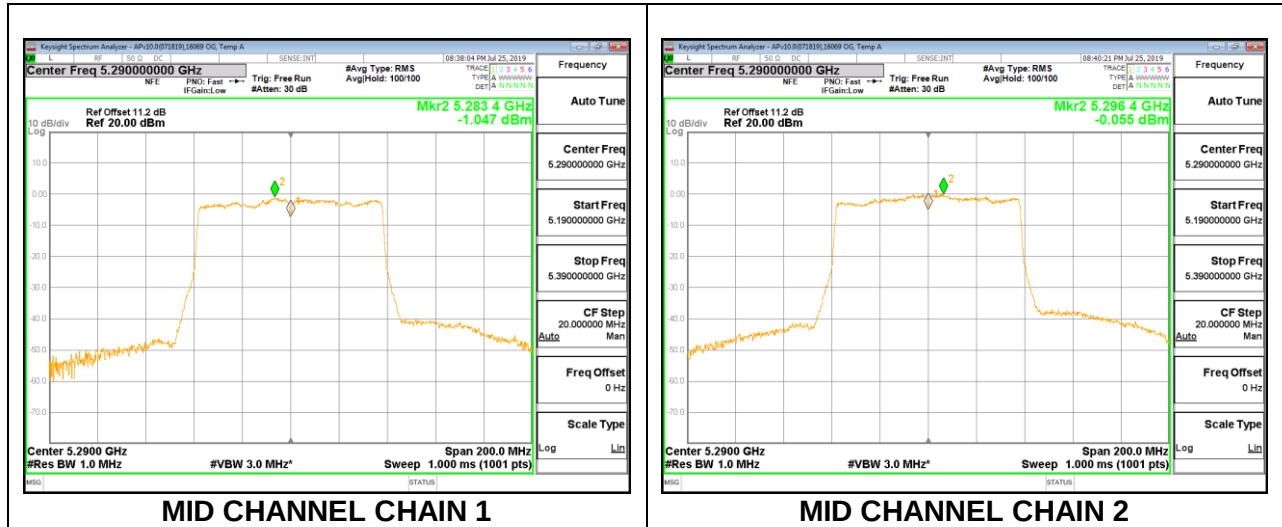
Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.71	15.84	18.32	24.00	-5.68

PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-1.047	-0.055	2.83	11.00	-8.17

MID CHANNEL



8.5.9. 802.11a MODE IN THE 5.6 GHz BAND

2TX Chain 1 + Chain 2 CDD MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5500	24.10	16.545	1.38	4.38
Mid	5580	25.20	16.551	1.38	4.38
High	5700	25.85	16.569	1.38	4.38
*144	5720	23.95	16.382	1.38	4.38

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.19	29.19	23.19	11.00	11.00	11.00
Mid	5580	24.00	23.19	29.19	23.19	11.00	11.00	11.00
High	5700	24.00	23.19	29.19	23.19	11.00	11.00	11.00
*144	5720	24.00	23.14	29.14	23.14	11.00	11.00	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)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	16.36	17.05	19.73	23.19	-3.46
Mid	5580	16.67	17.37	20.04	23.19	-3.14
High	5700	14.85	15.49	18.19	23.19	-5.00
*144	5720	16.23	17.08	19.69	23.14	-3.46

PSD Results

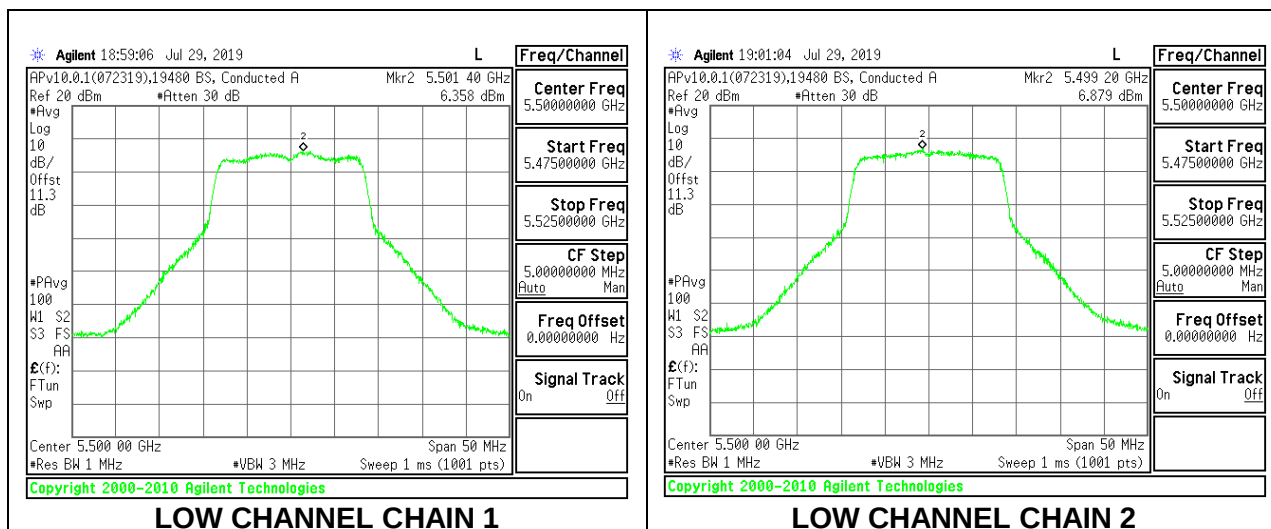
Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	6.358	6.879	9.637	11.00	-1.36
Mid	5580	6.505	6.882	9.708	11.00	-1.29
High	5700	4.526	5.241	7.908	11.00	-3.09
*144	5720	6.537	6.947	9.757	11.00	-1.24

*As per calculated in this formula, Measured total bandwidth(99%) / 2 + 5 MHz, the worst case bandwidth is 13.191MHz.

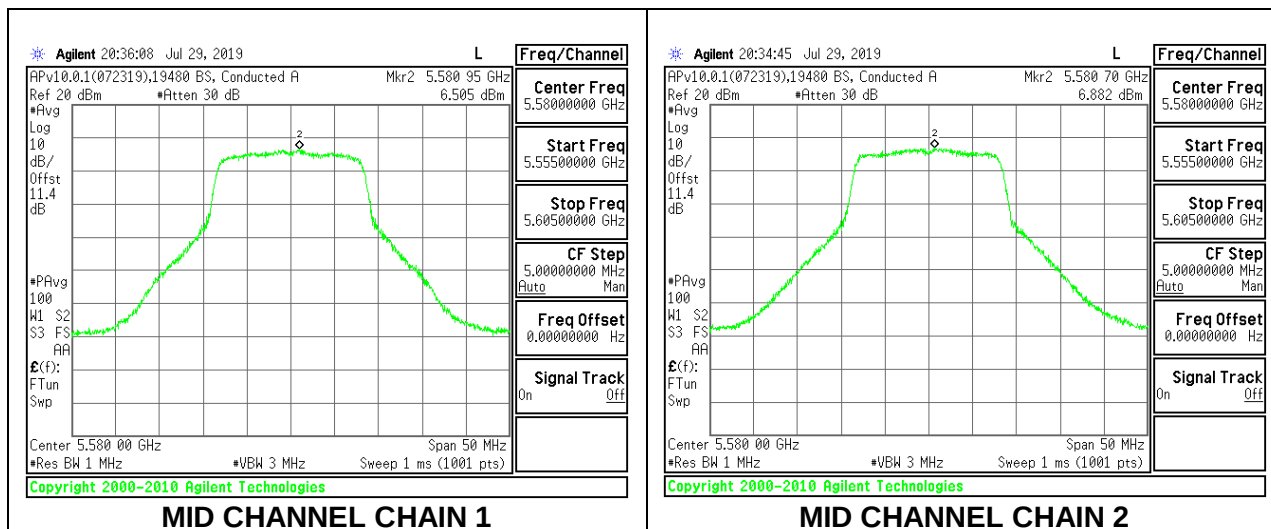
Based on the 13.191MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated power limit is $11 + 10 \cdot \log(13.191) = 22.20$ dBm. The total signal power is 19.69 dBm which is less than the limit of 22.20dBm.

Total power and Highest PSD across the entire channel meets the UNII-2C limits thus UNII-3 limits and therefore compliant

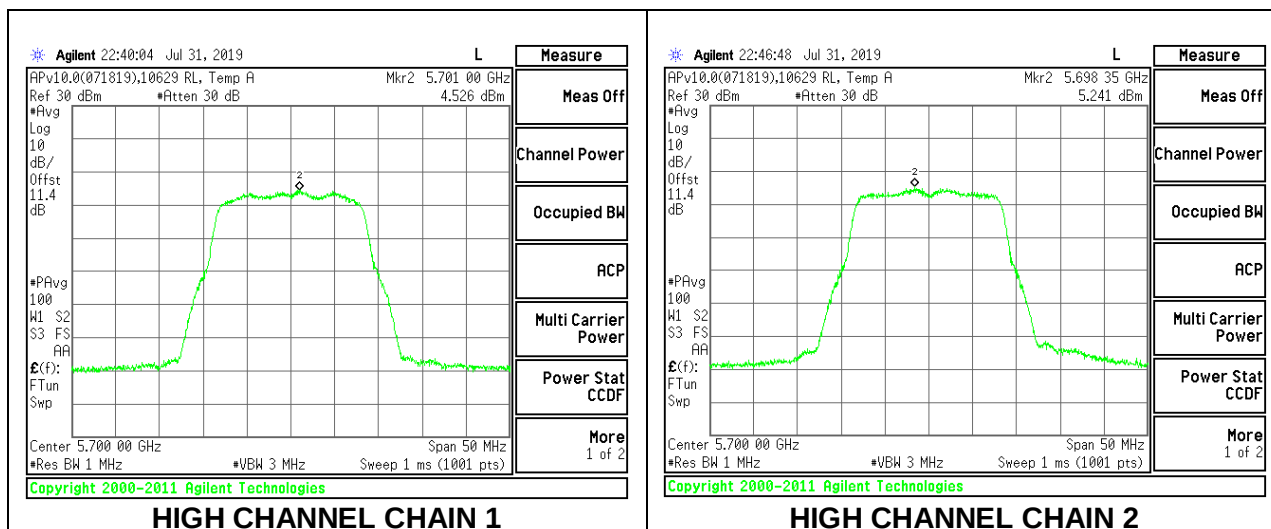
LOW CHANNEL



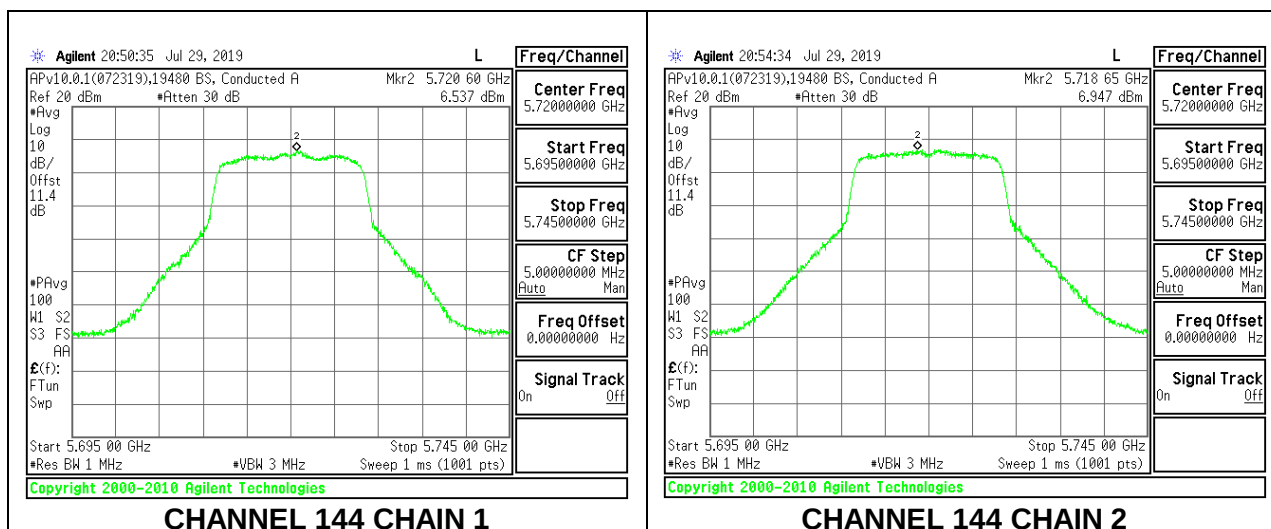
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

2TX Chain 1 + Chain 2 CDD MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5500	24.70	17.726	1.38	4.38
Mid	5580	25.35	17.732	1.38	4.38
High	5700	25.90	17.687	1.38	4.38
*144	5720	24.55	17.672	1.38	4.38

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.49	29.49	23.49	11.00	11.00	11.00
Mid	5580	24.00	23.49	29.49	23.49	11.00	11.00	11.00
High	5700	24.00	23.48	29.48	23.48	11.00	11.00	11.00
*144	5720	24.00	23.47	29.47	23.47	11.00	11.00	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)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	17.29	17.39	20.35	23.49	-3.14
Mid	5580	16.86	17.17	20.03	23.49	-3.46
High	5700	17.50	17.93	20.73	23.48	-2.75
*144	5720	17.47	17.89	20.70	23.47	-2.78

PSD Results

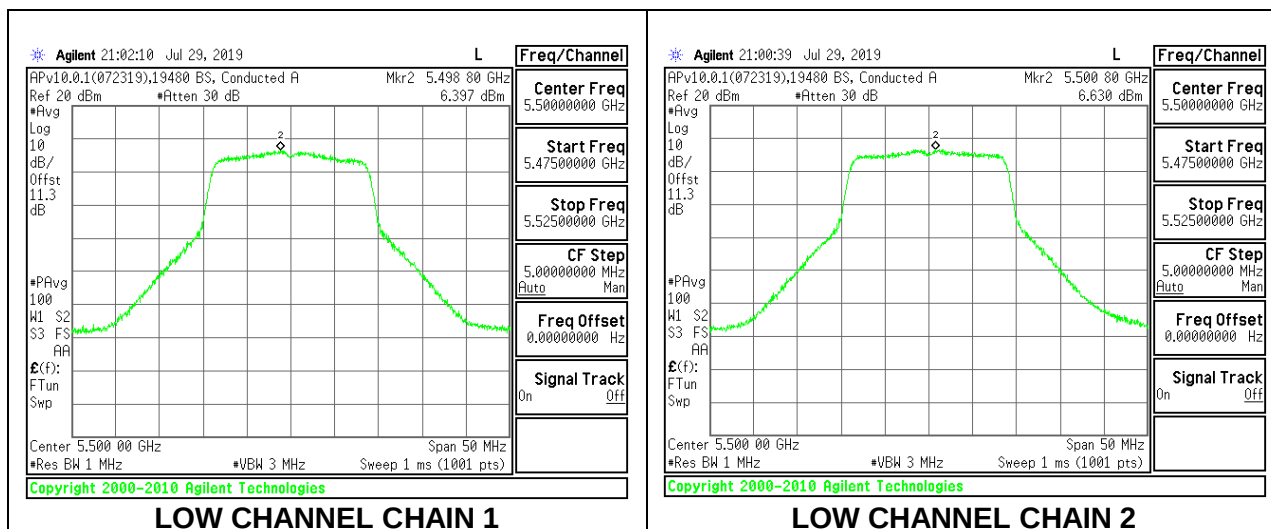
Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	6.397	6.630	9.615	11.00	-1.38
Mid	5580	6.547	6.763	9.757	11.00	-1.24
High	5700	5.712	7.500	9.798	11.00	-1.20
*144	5720	6.266	7.304	9.916	11.00	-1.08

*As per calculated in this formula, Measured total bandwidth(99%) / 2 + 5 MHz, the worst case bandwidth is 13.836 MHz.

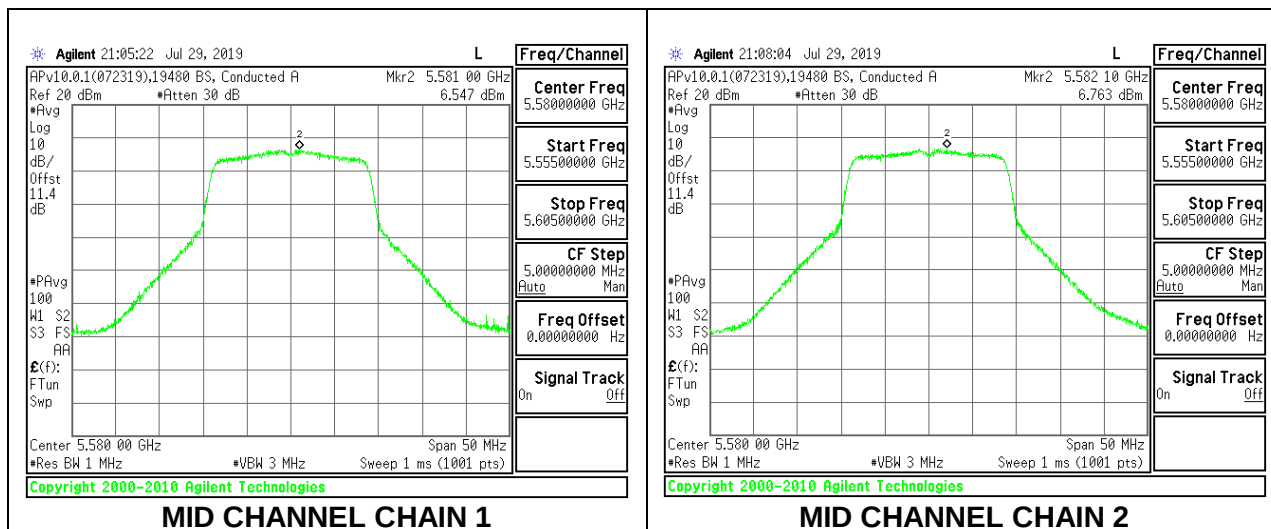
Based on the 13.836 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated power limit is $11 + 10 \cdot \log(13.836) = 22.41$ dBm. The total signal power is 20.7 dBm which is less than the limit of 22.41dBm.

Total power and Highest PSD across the entire channel meets the UNII-2C limits thus UNII-3 limits and therefore compliant

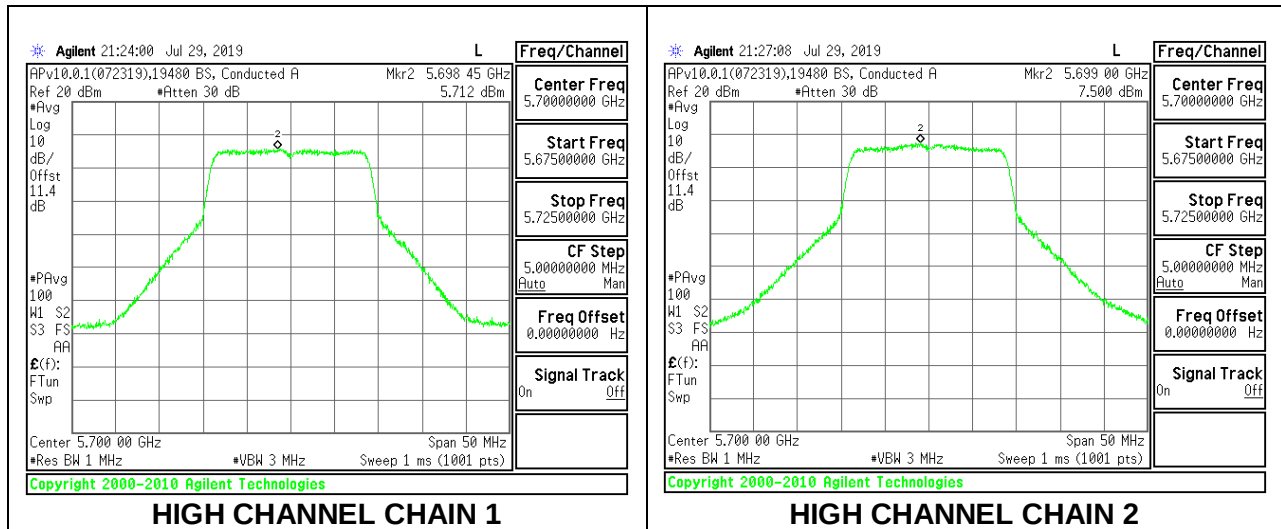
LOW CHANNEL



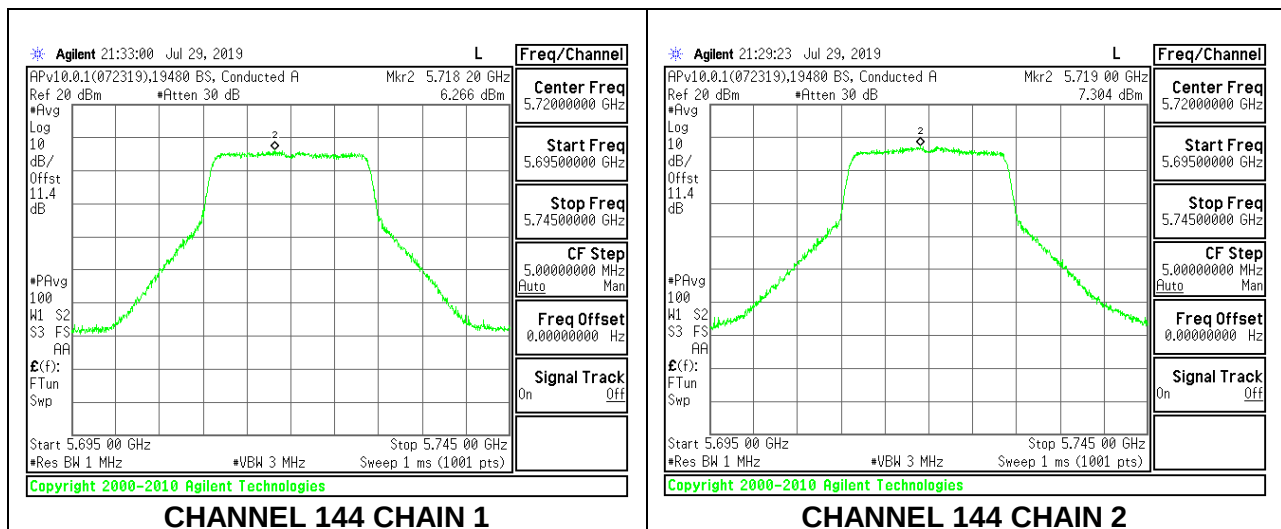
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

2TX Chain 1 + Chain 2 CDD MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5510	41.50	36.091	1.38	4.38
Mid	5550	41.50	36.300	1.38	4.38
High	5670	41.50	36.167	1.38	4.38
*142	5710	41.70	36.253	1.38	4.38

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5510	24.00	24.00	30.00	24.00	11.00	11.00	11.00
Mid	5550	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5670	24.00	24.00	30.00	24.00	11.00	11.00	11.00
*142	5710	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	0.16	Included in Calculations of Corr'd PSD
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Output Power Results

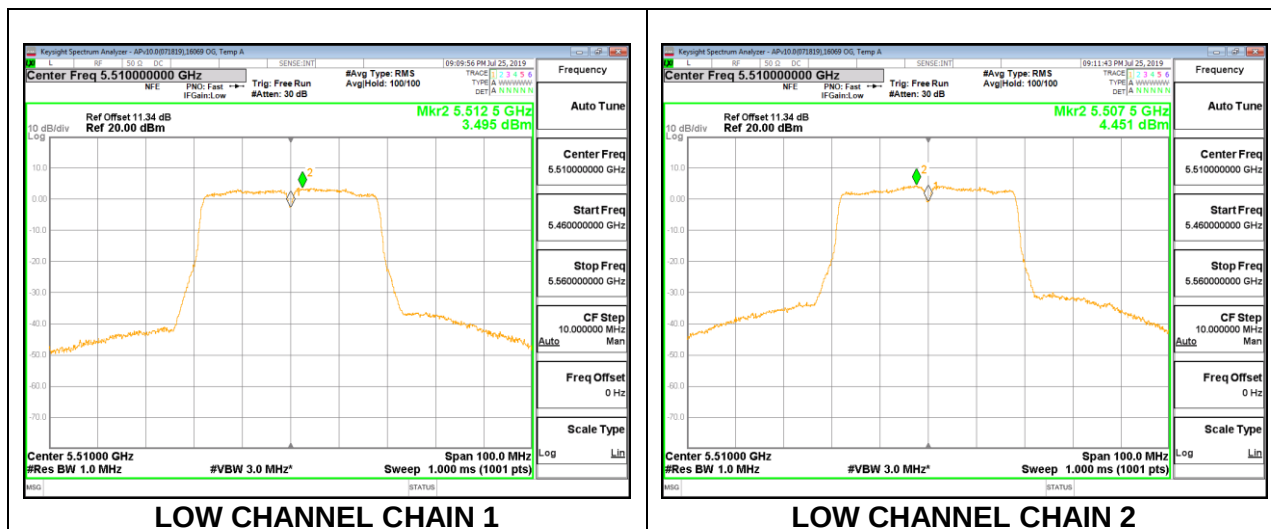
Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	15.05	16.04	18.58	24.00	-5.42
Mid	5550	16.55	17.47	20.04	24.00	-3.96
High	5670	17.36	18.07	20.74	24.00	-3.26
*142	5710	16.76	17.49	20.15	24.00	-3.85

PSD Results

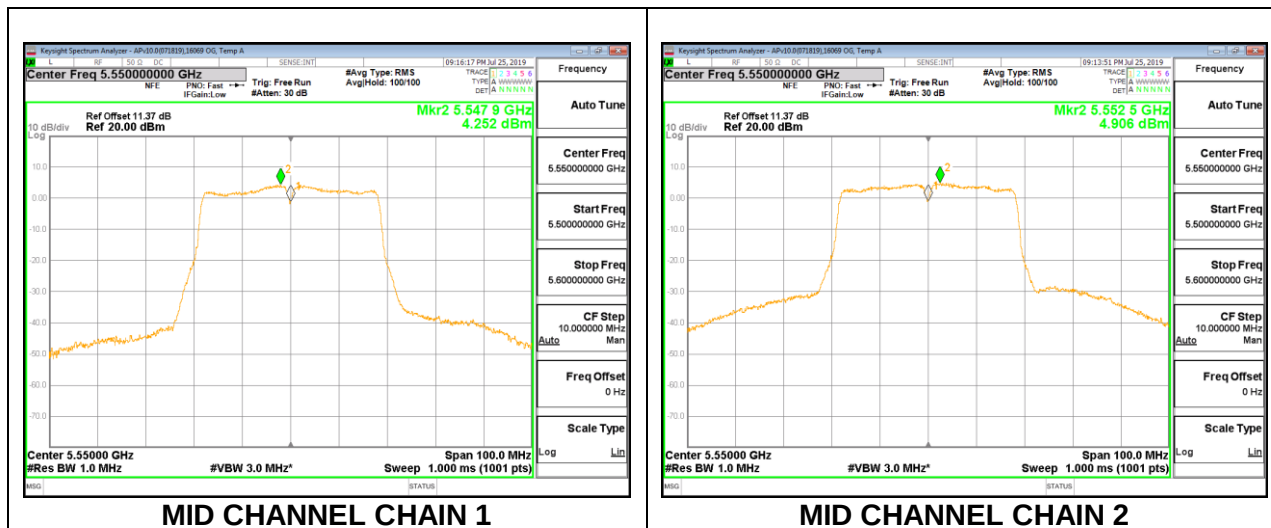
Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	3.495	4.451	7.17	11.00	-3.83
Mid	5550	4.252	4.906	7.76	11.00	-3.24
High	5670	3.801	4.780	7.49	11.00	-3.51
*142	5710	4.696	4.969	8.00	11.00	-3.00

*The 26dB & 99% signal bandwidth within the 5470 -5725 MHz band clearly exceed 20MHz and so the limit for the power within the 5470-5725MHz band is 24dBm
Total power and Highest PSD across the entire channel meets the UNII-2C limits thus UNII-3 limits and therefore compliant.

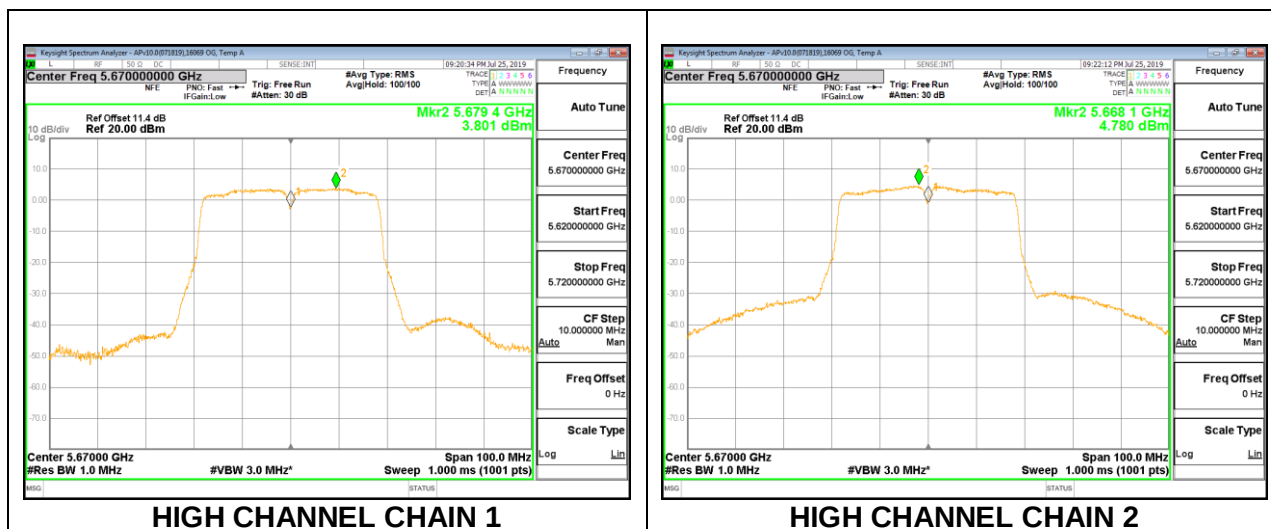
LOW CHANNEL



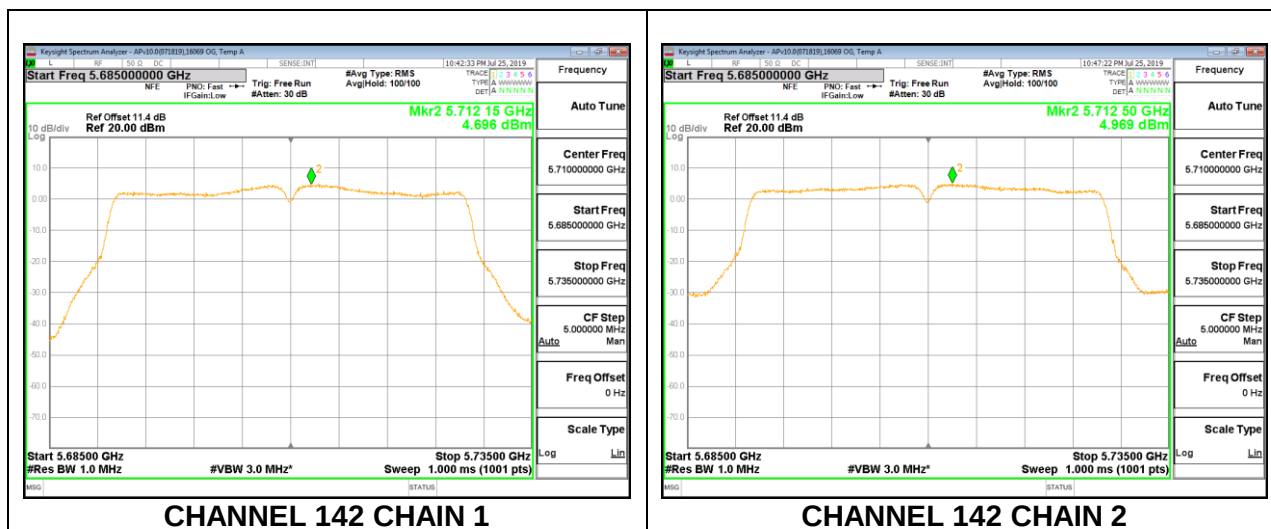
MID CHANNEL



HIGH CHANNEL



CHANNEL 142



8.5.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

2TX Chain 1 + Chain 2 CDD MODE (FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	83.80	75.274	1.38	4.38
High	5610	84.20	76.006	1.38	4.38
*138	5690	84.00	75.720	1.38	4.38

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5610	24.00	24.00	30.00	24.00	11.00	11.00	11.00
*138	5690	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	0.34	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	14.55	15.19	17.89	24.00	-6.11
High	5610	15.86	16.41	19.15	24.00	-4.85
*138	5690	15.22	16.12	18.70	24.00	-5.30

PSD Results

Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	0.045	0.076	3.411	11.00	-7.59
High	5610	0.404	0.709	3.909	11.00	-7.09
*138	5690	-0.585	0.380	3.275	11.00	-7.73