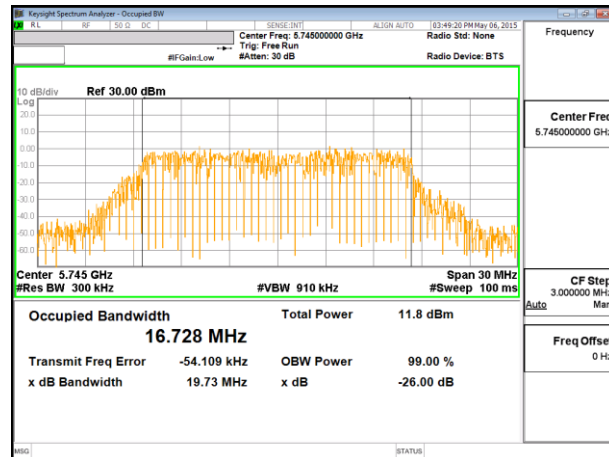
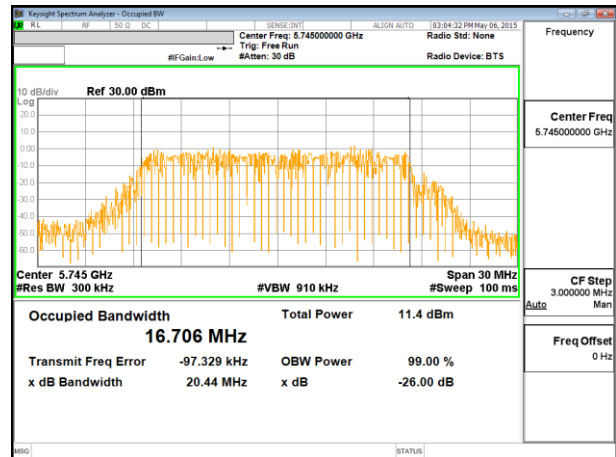


UNII 5.8 GHz

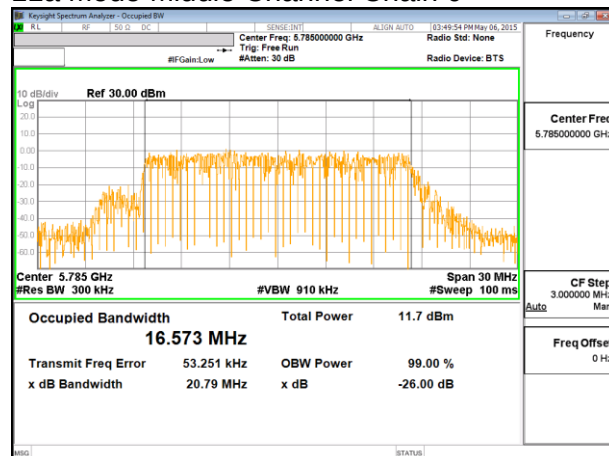
11a Mode Low Channel Chain 0



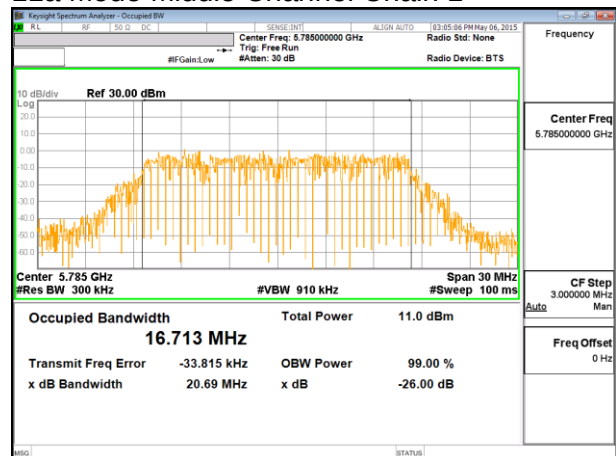
11a Mode Low Channel Chain 1



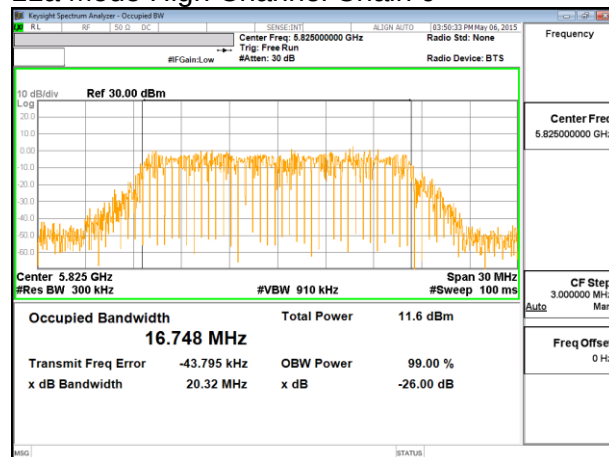
11a Mode Middle Channel Chain 0



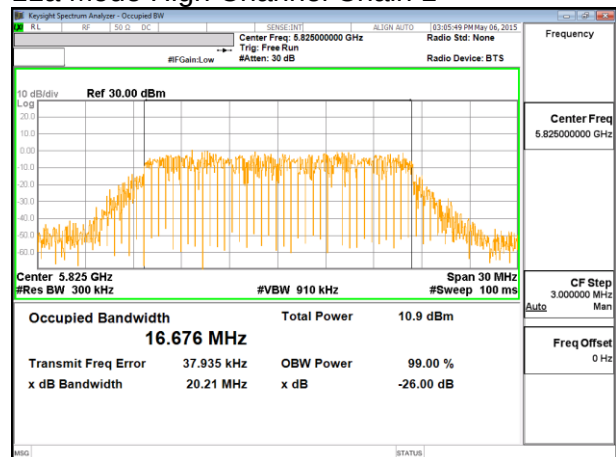
11a Mode Middle Channel Chain 1



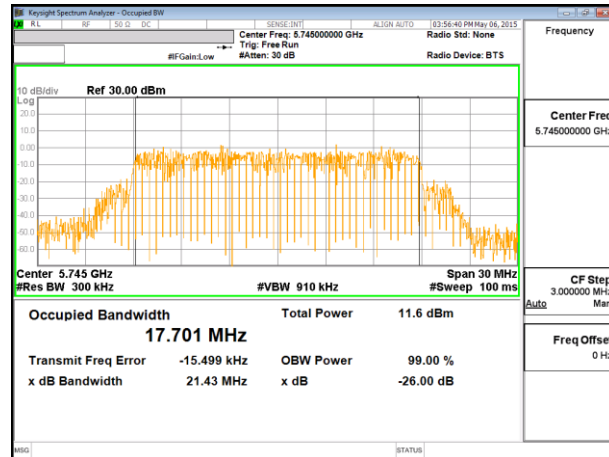
11a Mode High Channel Chain 0



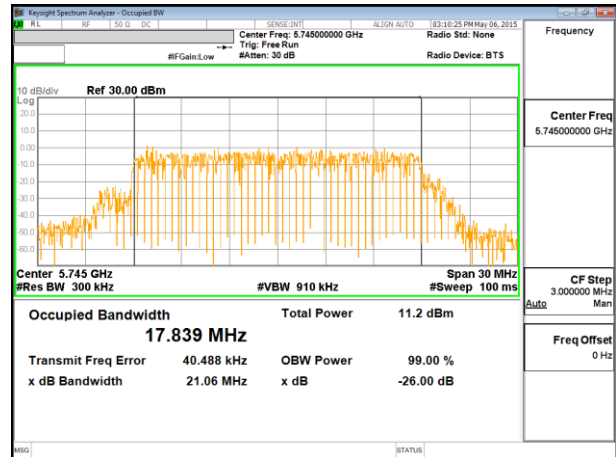
11a Mode High Channel Chain 1



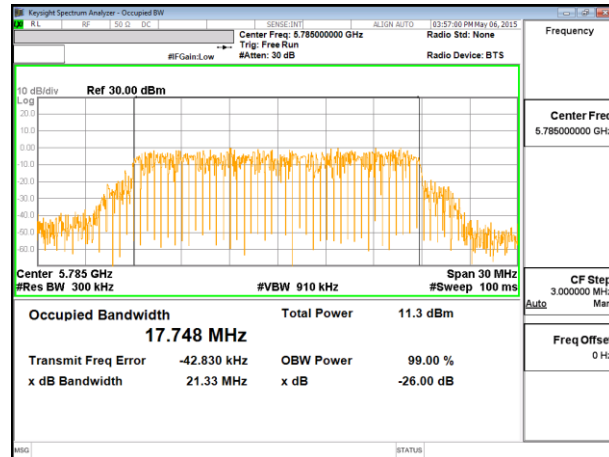
11n HT20 Mode Low Channel Chain 0



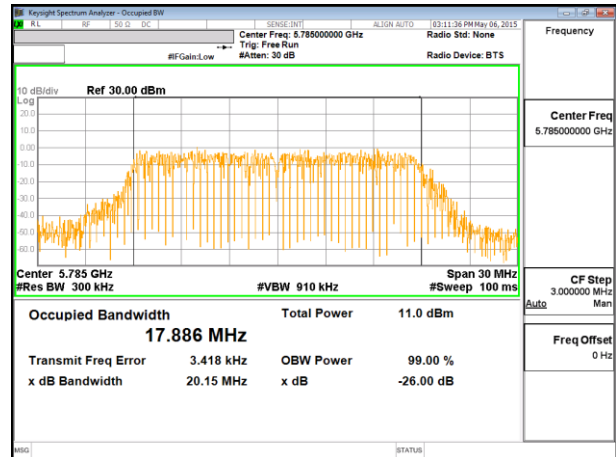
11n HT20 Mode Low Channel Chain 1



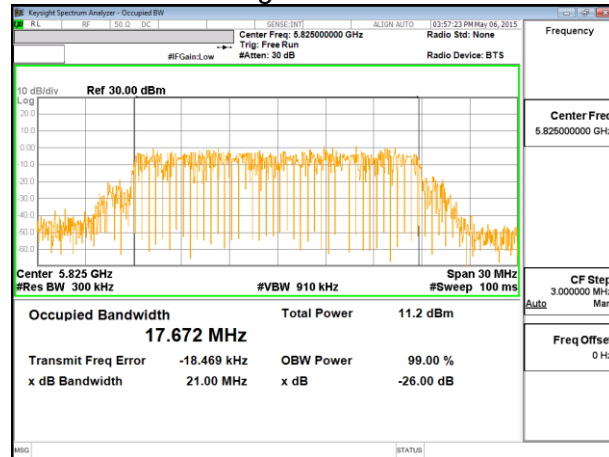
11n HT20 Mode Middle Channel Chain 0



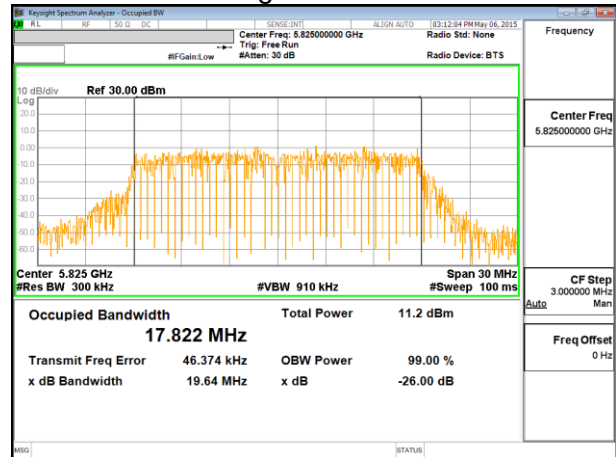
11n HT20 Mode Middle Channel Chain 1

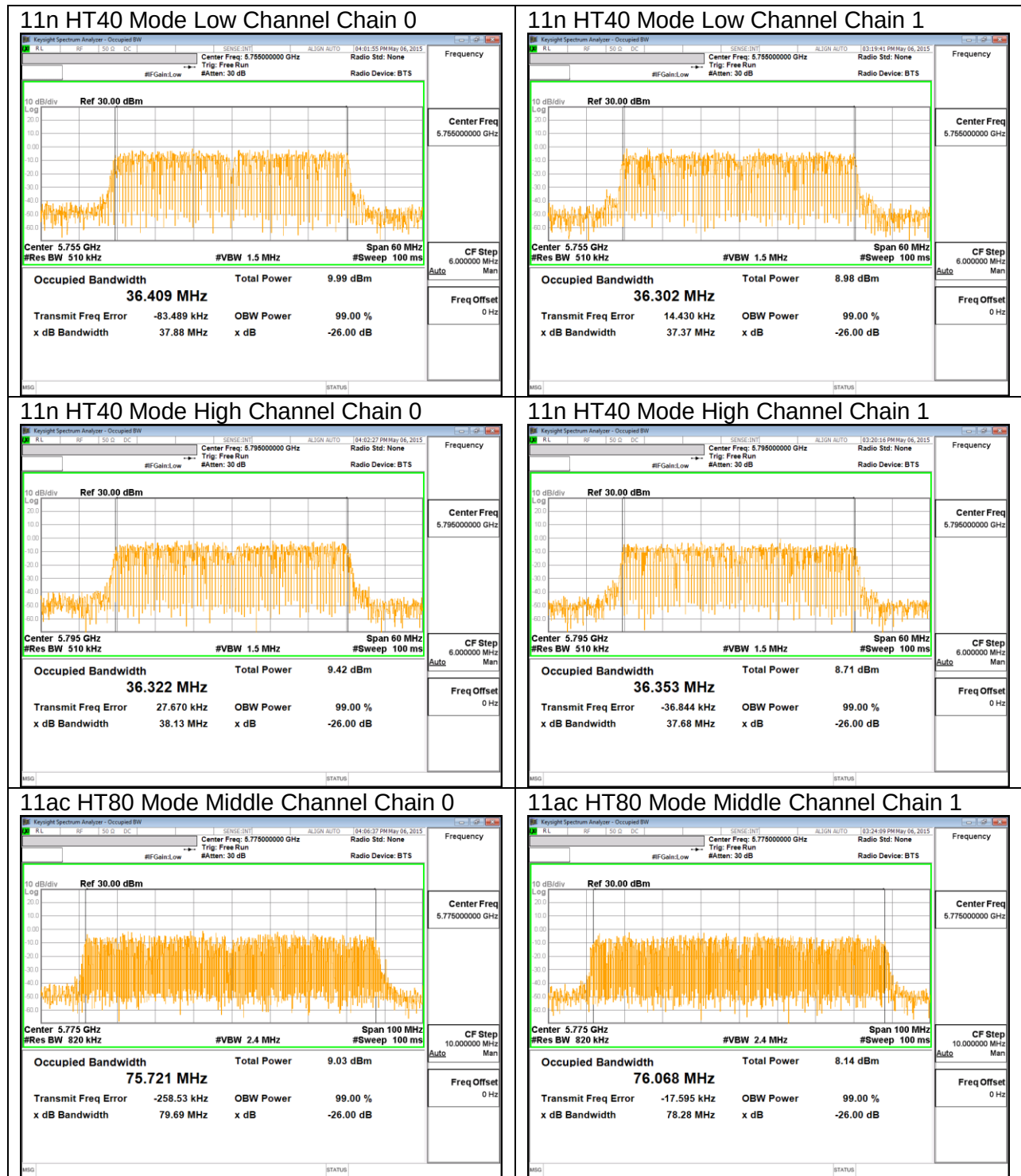


11n HT20 Mode High Channel Chain 0



11n HT20 Mode High Channel Chain 1





10.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.29 dB (including 10 dB pad and 0.29 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

10.4.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5180	12.24	11.49
Mid	5200	12.19	11.37
High	5240	12.39	11.46
Worst		12.39	

10.4.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5180	11.92	11.42
Mid	5200	12.04	11.29
High	5240	12.07	11.25
Worst		12.07	

10.4.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5190	11.15	10.93
High	5230	11.29	10.82
Worst		11.29	

10.4.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5210	10.17	10.20
Worst		10.20	

10.4.5. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5260	12.35	11.57
Mid	5300	12.35	11.83
High	5320	11.26	11.76
Worst		12.35	

10.4.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5260	12.19	11.63
Mid	5300	12.22	11.56
High	5320	12.24	11.49
Worst		12.24	

10.4.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5270	10.80	10.97
High	5310	10.66	11.12
Worst		11.12	

10.4.8. 802.11ac HT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5290	9.93	10.20
Worst		10.20	

10.4.9. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5500	12.41	11.41
Mid	5580	12.30	11.54
High	5700	11.95	11.55
Worst		12.41	

10.4.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5500	11.99	11.12
Mid	5580	12.05	11.23
High	5700	11.73	11.34
Worst		12.05	

10.4.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5510	10.79	10.69
Mid	5550	10.68	10.82
High	5670	10.54	10.78
Worst		10.82	

10.4.12. 802.11ac HT80 MODE IN THE 5.5 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5530	10.04	10.21
High	5690	9.72	10.33
Worst		10.33	

10.4.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5745	12.06	11.61
Mid	5785	12.12	11.70
High	5825	11.98	11.66
Worst		12.12	

10.4.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5745	11.93	11.49
Mid	5785	11.80	11.53
High	5825	11.81	11.33
Worst		11.93	

10.4.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Low	5755	10.55	10.85
High	5795	10.41	10.75
Worst		10.85	

10.4.16. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency [MHz]	Average Power [dBm]	
		Chain 0	Chain 1
Middle	5775	9.59	10.29
Worst		10.29	

10.5. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1) (2) (3)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band 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 MHz. In addition, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

DIRECTIONAL ANTENNA GAIN

For Power: The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain.

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

5 GHz

Frequency Band [MHz]	Chain 0 Antenna Gain [dBi]	Chain 1 Antenna Gain [dBi]	Uncorrelated Directional Gain [dBi]	Correlated Chains Directional Gain [dBi]
5150 - 5250	-0.66	-2.69	-1.56	1.39
5250 - 5350	-1.70	-2.49	-2.08	0.92
5470 - 5725	-0.57	-1.93	-1.20	1.79
5725 - 5850	-1.23	-1.93	-1.57	1.44

RESULTS

10.5.1. 802.11a MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5180	21.56	16.665	-1.56	1.39
Mid	5200	21.64	16.702	-1.56	1.39
High	5240	21.60	16.785	-1.56	1.39

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5180	24.00	22.22	25.56	24.00	11.00	10.00	10.00
Mid	5200	24.00	22.23	25.56	24.00	11.00	10.00	10.00
High	5240	24.00	22.25	25.56	24.00	11.00	10.00	10.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	11.820	11.246	14.85	24.00	-9.15
Mid	5200	11.888	11.110	14.82	24.00	-9.18
High	5240	11.926	11.329	14.95	24.00	-9.05

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5180	0.94	0.00	3.80	10.00	-6.20
Mid	5200	1.11	0.26	4.01	10.00	-5.99
High	5240	1.22	0.36	4.12	10.00	-5.88

10.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5180	22.00	17.921	-1.56	1.39
Mid	5200	22.04	17.746	-1.56	1.39
High	5240	22.12	17.889	-1.56	1.39

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5180	24.00	22.53	25.56	24.00	11.00	10.00	10.00
Mid	5200	24.00	22.49	25.56	24.00	11.00	10.00	10.00
High	5240	24.00	22.53	25.56	24.00	11.00	10.00	10.00

Duty Cycle CF [dB]	0.31	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	11.529	11.236	14.71	24.00	-9.29
Mid	5200	11.550	10.912	14.57	24.00	-9.43
High	5240	11.623	10.898	14.60	24.00	-9.40

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5180	0.48	0.09	3.61	10.00	-6.39
Mid	5200	0.51	-0.12	3.53	10.00	-6.47
High	5240	0.44	-0.30	3.41	10.00	-6.59

10.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5190	40.20	36.253	-1.56	1.39
High	5230	40.26	36.303	-1.56	1.39

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5190	24.00	23.00	25.56	24.00	11.00	10.00	10.00
High	5230	24.00	23.00	25.56	24.00	11.00	10.00	10.00

Duty Cycle CF [dB]	0.61	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5190	10.527	8.284	13.17	24.00	-10.83
High	5230	10.734	7.748	13.11	24.00	-10.89

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5190	-3.50	-5.90	-0.92	10.00	-10.92
High	5230	-3.23	-6.14	-0.83	10.00	-10.83

10.5.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Middle	5210	82.10	76.195	-1.56	1.39

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Middle	5210	24.00	23.00	25.56	24.00	11.00	10.00	10.00

Duty Cycle CF [dB]	1.14	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Middle	5210	9.328	8.567	13.12	24.00	-10.88

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Middle	5210	-7.37	-8.31	-3.66	10.00	-13.66

10.5.5. 802.11a MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	21.68	16.654	-2.08	0.92
Mid	5300	21.64	16.823	-2.08	0.92
High	5320	21.64	16.661	-2.08	0.92

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	24.00	22.22	26.08	24.00	11.00	11.00	11.00
Mid	5300	24.00	22.26	26.08	24.00	11.00	11.00	11.00
High	5320	24.00	22.22	26.08	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	11.924	11.481	15.02	24.00	-8.98
Mid	5300	11.938	11.304	14.94	24.00	-9.06
High	5320	11.993	11.124	14.89	24.00	-9.11

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	0.98	0.70	4.15	11.00	-6.85
Mid	5300	0.97	0.43	4.01	11.00	-6.99
High	5320	1.21	0.20	4.04	11.00	-6.96

10.5.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	21.96	17.847	-2.08	0.92
Mid	5300	22.08	17.861	-2.08	0.92
High	5320	21.92	17.934	-2.08	0.92

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	24.00	22.52	26.08	24.00	11.00	11.00	11.00
Mid	5300	24.00	22.52	26.08	24.00	11.00	11.00	11.00
High	5320	24.00	22.54	26.08	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.31	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	11.52	11.10	14.64	24.00	-9.36
Mid	5300	11.56	10.92	14.58	24.00	-9.42
High	5320	11.74	11.12	14.77	24.00	-9.23

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	0.58	-0.13	3.56	11.00	-7.44
Mid	5300	0.38	-0.23	3.41	11.00	-7.59
High	5320	0.55	-0.03	3.59	11.00	-7.41

10.5.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5270	40.32	36.321	-2.08	0.92
High	5310	40.20	36.390	-2.08	0.92

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5270	24.00	23.00	26.08	24.00	11.00	11.00	11.00
High	5310	24.00	23.00	26.08	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.61	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5270	10.196	7.921	12.82	24.00	-11.18
High	5310	9.906	7.741	12.58	24.00	-11.42

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5270	-3.89	-6.15	-1.26	11.00	-12.26
High	5310	-4.18	-6.19	-1.45	11.00	-12.45

10.5.8. 802.11ac HT80 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Middle	5290	82.70	76.054	-2.08	0.92

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Middle	5290	24.00	23.00	26.08	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	1.14	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Middle	5290	9.22	7.156	12.46	24.00	-11.54

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Middle	5290	-7.72	-9.74	-4.46	11.00	-15.46

10.5.9. 802.11a MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5500	21.68	16.776	-1.20	1.79
Mid	5580	21.64	16.743	-1.20	1.79
High	5700	21.64	16.767	-1.20	1.79

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	24.00	22.25	25.20	24.00	11.00	11.00	11.00
Mid	5580	24.00	22.24	25.20	24.00	11.00	11.00	11.00
High	5700	24.00	22.24	25.20	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	12.00	11.04	14.85	24.00	-9.15
Mid	5580	11.90	11.19	14.87	24.00	-9.13
High	5700	11.67	11.52	14.90	24.00	-9.10

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	1.13	0.16	3.98	11.00	-7.02
Mid	5580	1.36	0.38	4.20	11.00	-6.80
High	5700	1.14	0.78	4.27	11.00	-6.73

10.5.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5500	22.04	17.866	-1.20	1.79
Mid	5580	22.04	17.922	-1.20	1.79
High	5700	22.04	17.831	-1.20	1.79

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	24.00	22.52	25.20	24.00	11.00	11.00	11.00
Mid	5580	24.00	22.53	25.20	24.00	11.00	11.00	11.00
High	5700	24.00	22.51	25.20	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.31	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	11.74	10.96	14.69	24.00	-9.31
Mid	5580	11.84	10.88	14.71	24.00	-9.29
High	5700	11.56	11.49	14.85	24.00	-9.15

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	0.50	-0.08	3.54	11.00	-7.46
Mid	5580	0.67	-0.36	3.51	11.00	-7.49
High	5700	0.43	0.43	3.76	11.00	-7.24

10.5.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5510	40.26	36.317	-1.20	1.79
Mid	5550	40.32	36.395	-1.20	1.79
High	5670	40.32	36.366	-1.20	1.79

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5510	24.00	23.00	25.20	24.00	11.00	11.00	11.00
Mid	5550	24.00	23.00	25.20	24.00	11.00	11.00	11.00
High	5670	24.00	23.00	25.20	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.61	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5510	9.759	8.41	12.76	24.00	-11.24
Mid	5550	9.974	8.936	13.10	24.00	-10.90
High	5670	10.355	9.437	13.54	24.00	-10.46

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5510	-4.37	-5.68	-1.35	11.00	-12.35
Mid	5550	-3.97	-5.14	-0.90	11.00	-11.90
High	5670	-3.57	-4.61	-0.44	11.00	-11.44

10.5.12. 802.11ac HT80 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5530	82.20	76.026	-1.20	1.79
High	5690	82.40	76.125	-1.20	1.79

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5530	24.00	23.00	25.20	24.00	11.00	11.00	11.00
High	5690	24.00	23.00	25.20	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	1.14	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5530	9.154	8.626	13.05	24.00	-10.95
High	5690	9.173	8.496	13.00	24.00	-11.00

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5530	-7.82	-8.28	-3.89	11.00	-14.89
High	5690	-7.56	-8.45	-3.83	11.00	-14.83

10.5.13. 802.11a MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5745	21.72	16.728	-1.57	1.44
Mid	5785	21.68	16.713	-1.57	1.44
High	5825	21.68	16.748	-1.57	1.44

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	24.00	22.23	25.57	24.00	11.00	11.00	11.00
Mid	5785	24.00	22.23	25.57	24.00	11.00	11.00	11.00
High	5825	24.00	22.24	25.57	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	11.751	11.522	14.95	24.00	-9.05
Mid	5785	11.652	11.393	14.83	24.00	-9.17
High	5825	11.49	11.617	14.86	24.00	-9.14

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	1.02	0.77	4.20	11.00	-6.80
Mid	5785	0.74	0.54	3.95	11.00	-7.05
High	5825	0.70	0.62	3.97	11.00	-7.03

10.5.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5745	22.04	17.839	-1.57	1.44
Mid	5785	22.04	17.886	-1.57	1.44
High	5825	22.08	17.822	-1.57	1.44

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	24.00	22.51	25.57	24.00	11.00	11.00	11.00
Mid	5785	24.00	22.53	25.57	24.00	11.00	11.00	11.00
High	5825	24.00	22.51	25.57	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.31	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	11.784	11.443	14.94	24.00	-9.06
Mid	5785	11.723	11.212	14.80	24.00	-9.20
High	5825	11.509	11.309	14.73	24.00	-9.27

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	0.47	0.20	3.66	11.00	-7.34
Mid	5785	0.56	-0.06	3.58	11.00	-7.42
High	5825	0.30	0.09	3.52	11.00	-7.48

10.5.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5755	40.26	36.409	-1.57	1.44
High	5795	40.32	36.353	-1.57	1.44

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5755	24.00	23.00	25.57	24.00	11.00	11.00	11.00
High	5795	24.00	23.00	25.57	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	0.61	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5755	10.352	9.42	13.53	24.00	-10.47
High	5795	10.118	9.201	13.30	24.00	-10.70

PPSD Results

Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5755	-3.82	-4.65	-0.59	11.00	-11.59
High	5795	-4.04	-4.48	-0.64	11.00	-11.64

10.5.16. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Middle	5775	82.20	76.068	-1.57	1.44

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Middle	5775	24.00	23.00	25.57	24.00	11.00	11.00	11.00

Duty Cycle CF [dB]	1.14	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

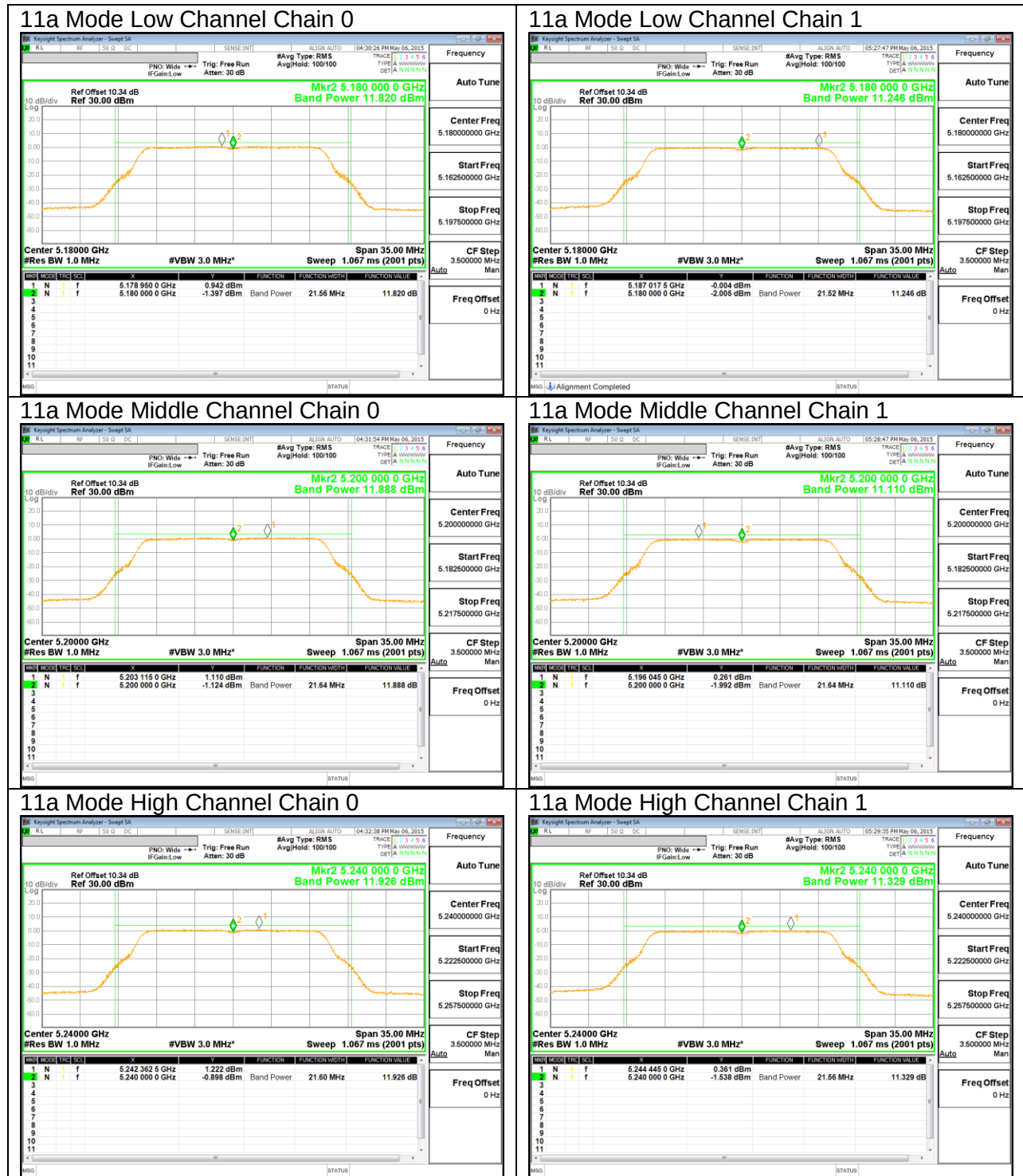
Channel	Frequency [MHz]	Chain 0 Meas Power [dBm]	Chain 1 Meas Power [dBm]	Total Corr'd Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Middle	5775	9.556	8.756	13.33	24.00	-10.67

PPSD Results

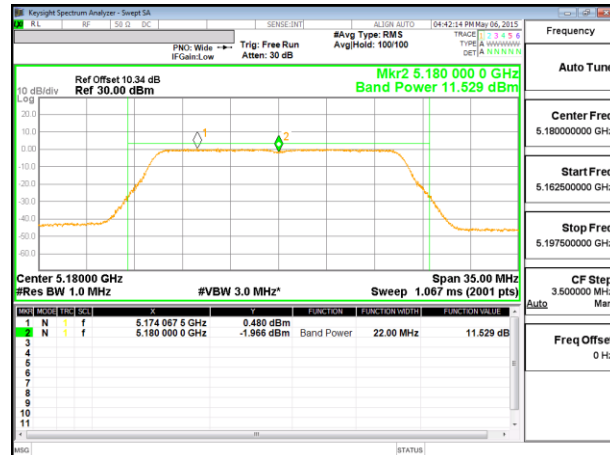
Channel	Frequency [MHz]	Chain 0 Meas PPSD [dBm]	Chain 1 Meas PPSD [dBm]	Total Corr'd PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Middle	5775	-7.09	-8.07	-3.40	11.00	-14.40

10.5.17. OUTPUT POWER AND PPSD PLOTS

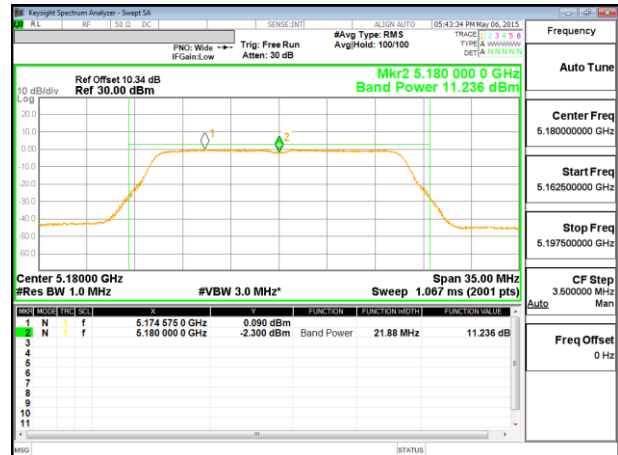
UNII 5.2 GHz



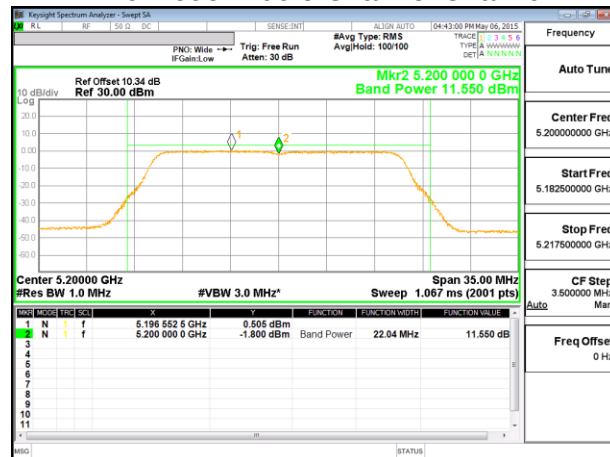
11n HT20 Mode Low Channel Chain 0



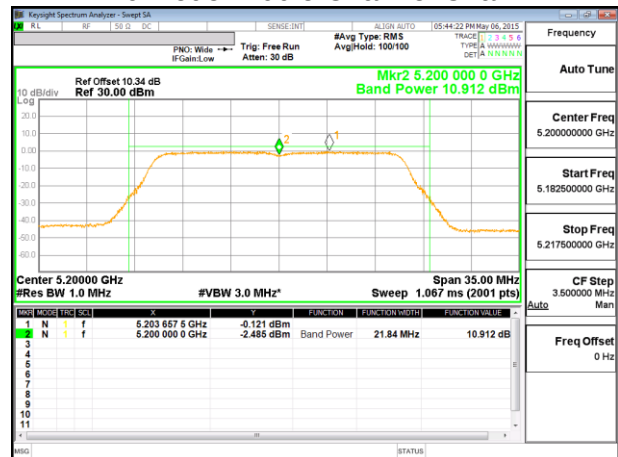
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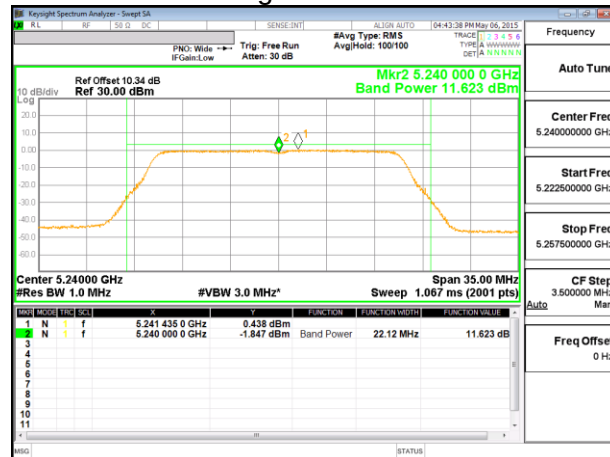
11n HT20 Mode Middle Channel Chain 0



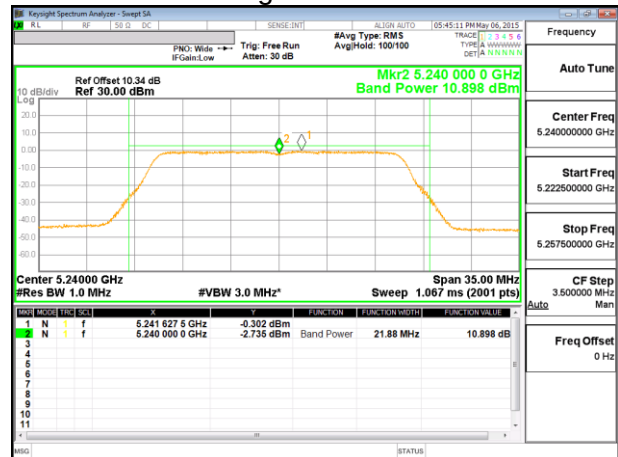
11n HT20 Mode Middle Channel Chain 1

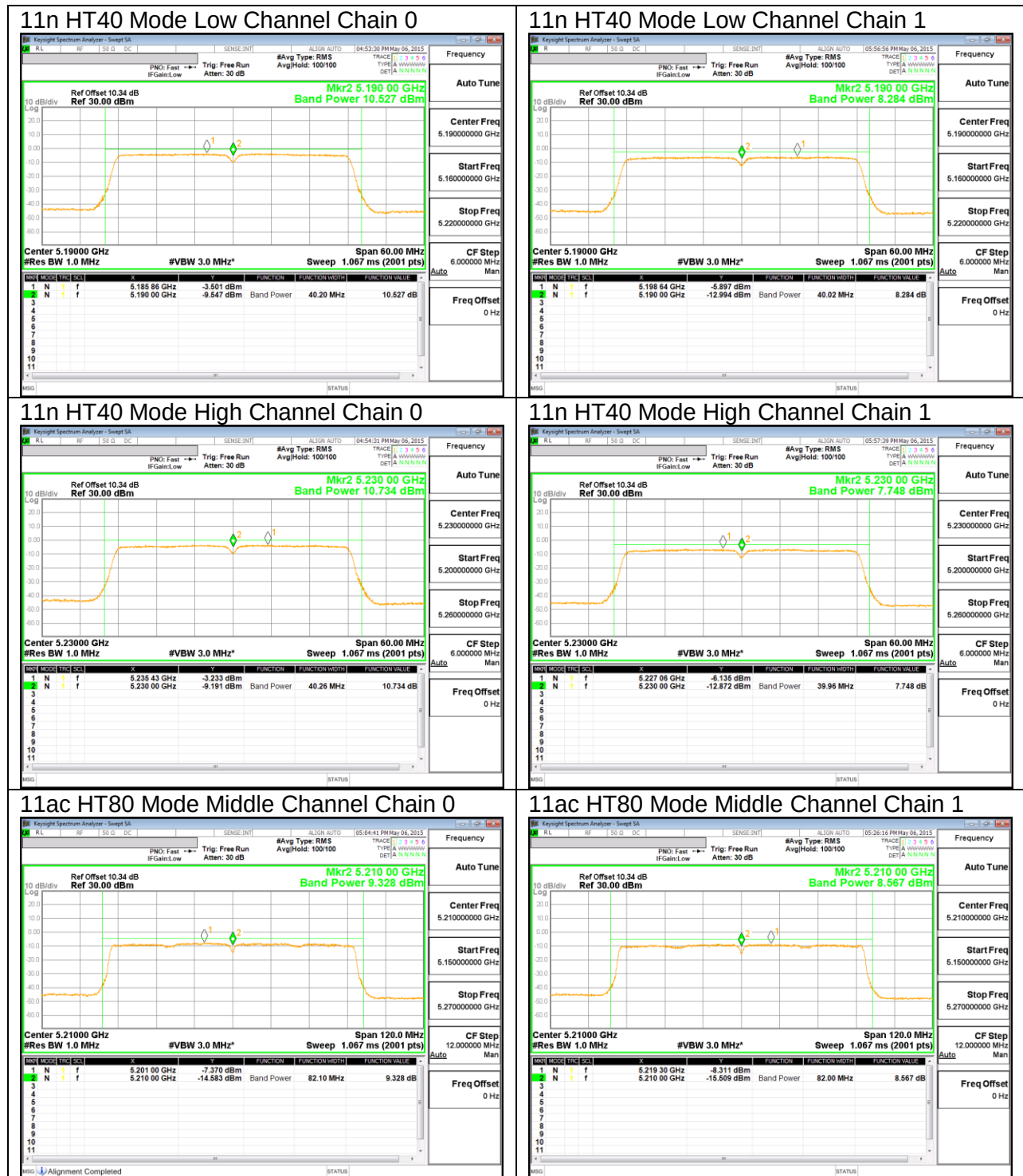


11n HT20 Mode High Channel Chain 0

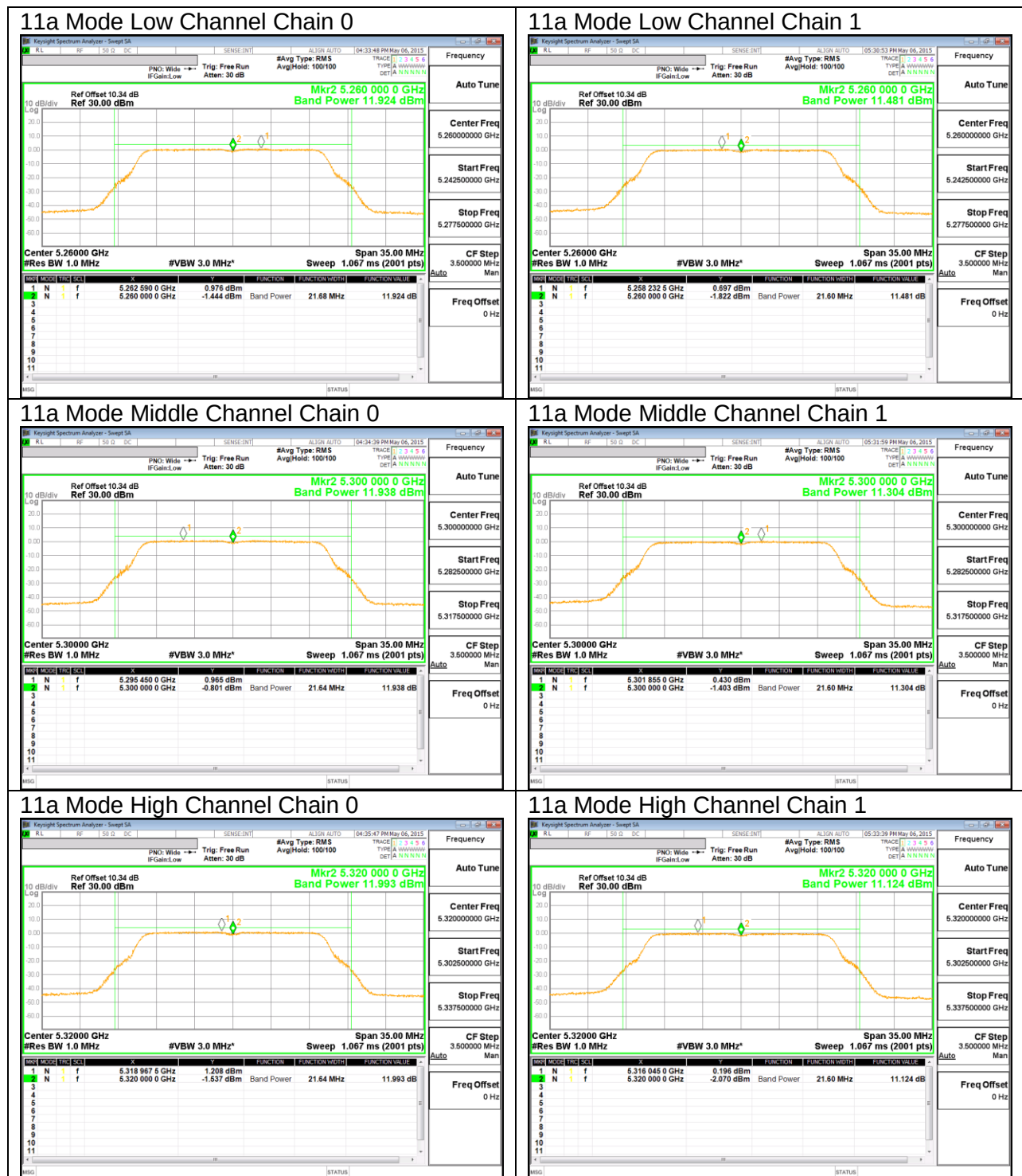


11n HT20 Mode High Channel Chain 1

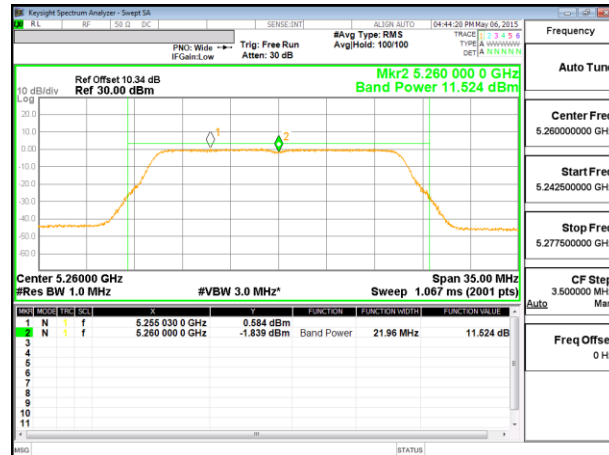




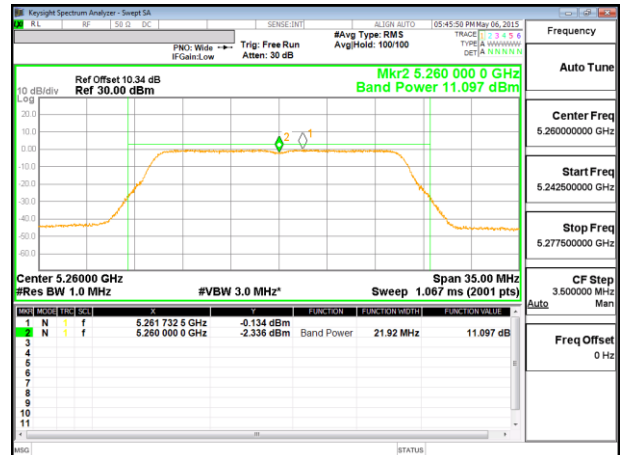
UNII 5.3 GHz



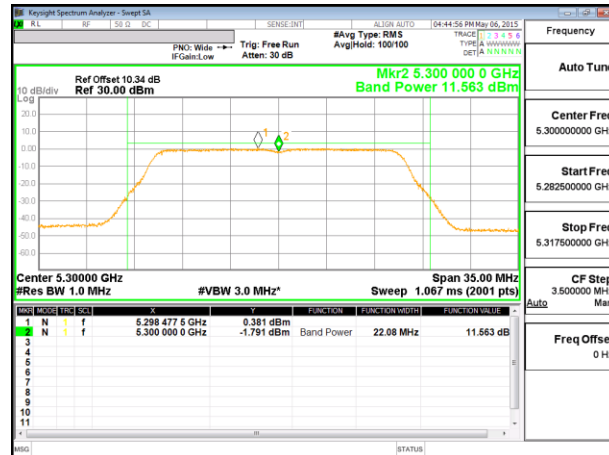
11n HT20 Mode Low Channel Chain 0



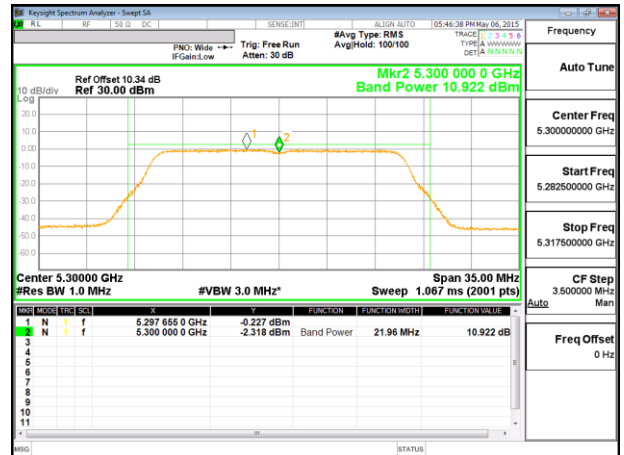
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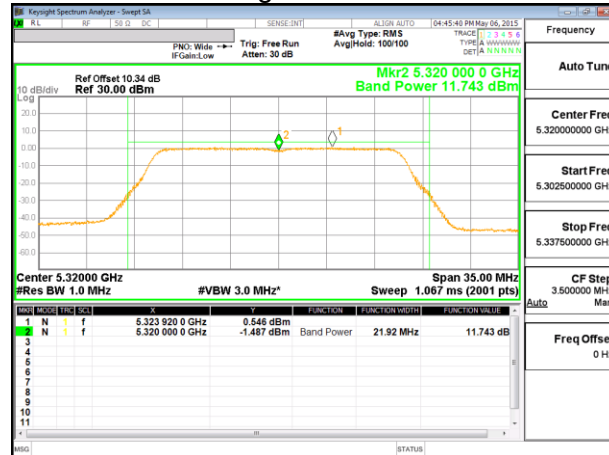
11n HT20 Mode Middle Channel Chain 0



11n HT20 Mode Middle Channel Chain 1



11n HT20 Mode High Channel Chain 0



11n HT20 Mode High Channel Chain 1

