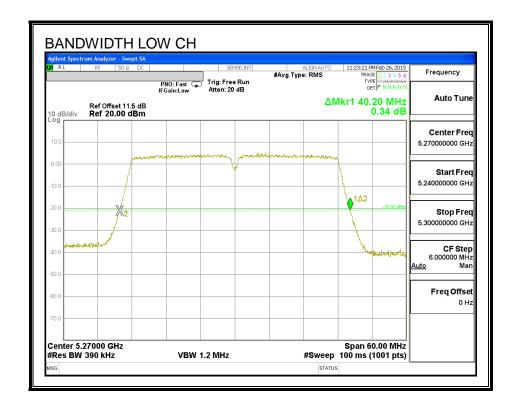
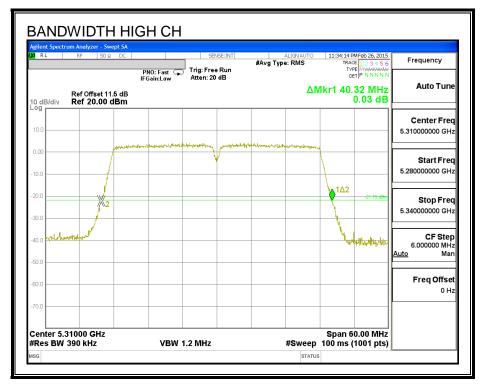
26 dB BANDWIDTH





FCC ID: BCGA1538

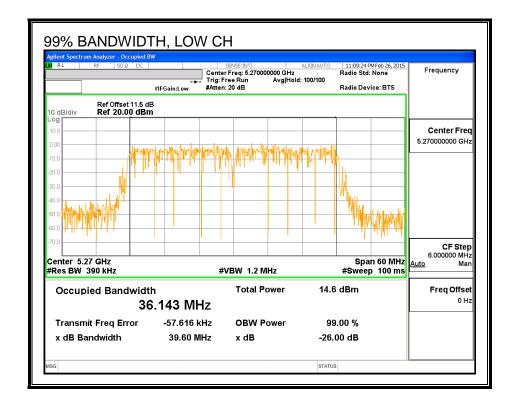
8.16.2. 99% BANDWIDTH

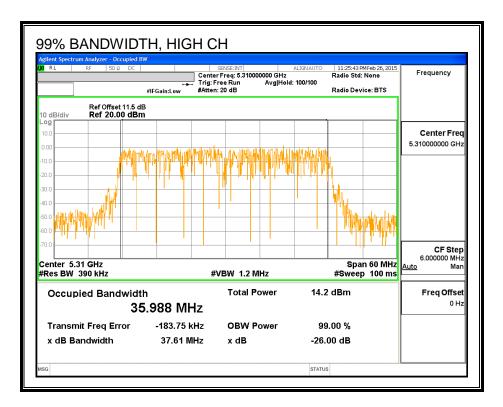
LIMITS

None; for reporting purposes only.

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5270	36.1430
High	5310	35.9880

99% BANDWIDTH





FCC ID: BCGA1538

8.16.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5270	15.58
High	5310	14.90

OUTPUT POWER AND PSD 8.16.4.

LIMITS

FCC §15.407 (a) (2)

For the band 5.25-5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	(MHz) 5270	(MHz) 40.20	(dBi) 4.20	(dBm) 24.00	(dBm) 11.00

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

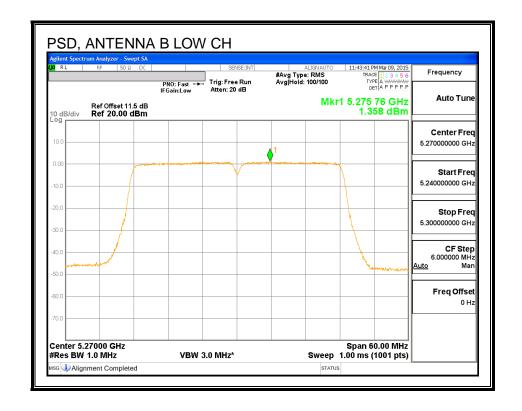
Output Power Results

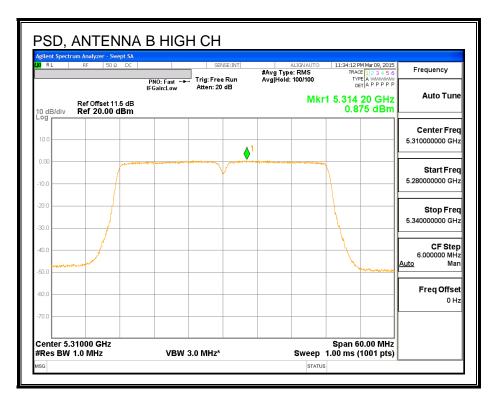
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
	, ,	(0.2111)	()	()	(42)
Low	5270	15.58	15.58	24.00	-8.42

PSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	(MHz) 5270	(dBm) 1.36	(dBm) 1.36	(dBm) 11.00	(dB) -9.64

PSD, ANTENNA B





FCC ID: BCGA1538

8.17. 802.11n HT40 SISO MODE IN THE 5.3 GHz BAND ANTENNA A

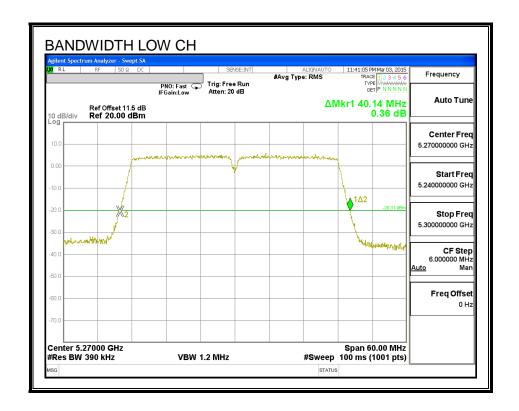
8.17.1. 26 dB BANDWIDTH

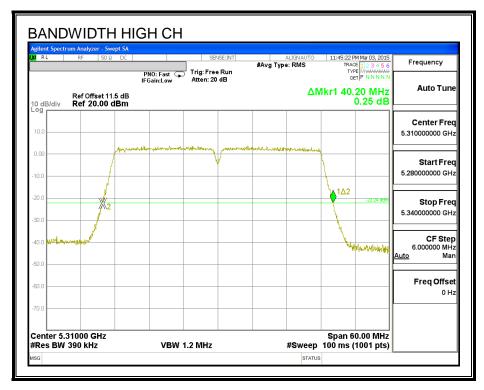
LIMITS

None; for reporting purposes only.

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5270	40.14
High	5310	40.20

26 dB BANDWIDTH





FCC ID: BCGA1538

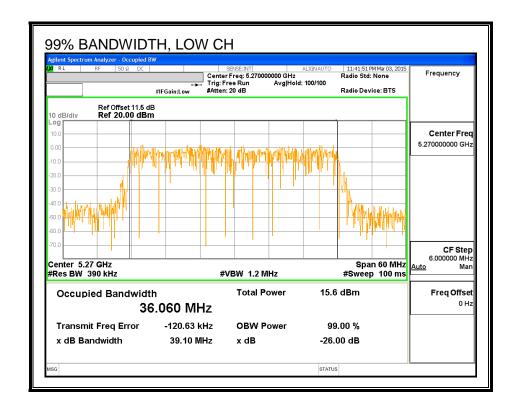
8.17.2. 99% BANDWIDTH

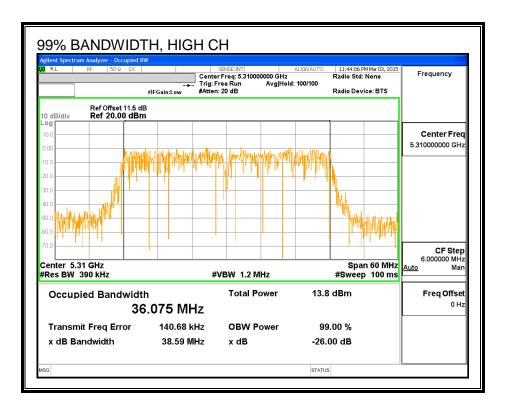
LIMITS

None; for reporting purposes only.

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5270	36.0600
High	5310	36.0750

99% BANDWIDTH





FCC ID: BCGA1538

8.17.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5270	16.04
High	5310	14.94

8.17.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
			` '		
Low	5270	40.14	3.10	24.00	11.00

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

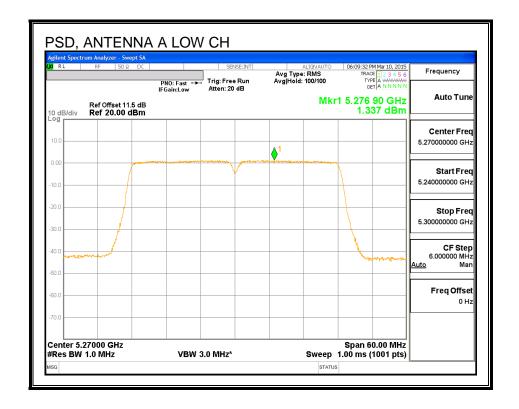
Output Power Results

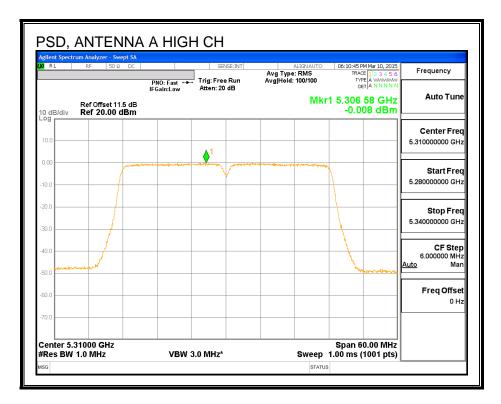
Channel	Frequency	Antenna A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	16.04	16.04	24.00	-7.96

PSD Results

Channel	Frequency	Antenna A	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	(MHz) 5270	(dBm) 1.34	(dBm) 1.34	(dBm) 11.00	(dB) -9.66

PSD, ANTENNA A





FCC ID: BCGA1538

8.18. 802.11n HT40 2Tx CDD MODE IN THE 5.3 GHz BAND

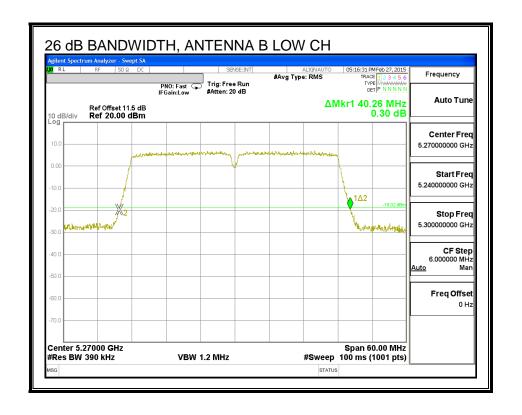
8.18.1. 26 dB BANDWIDTH

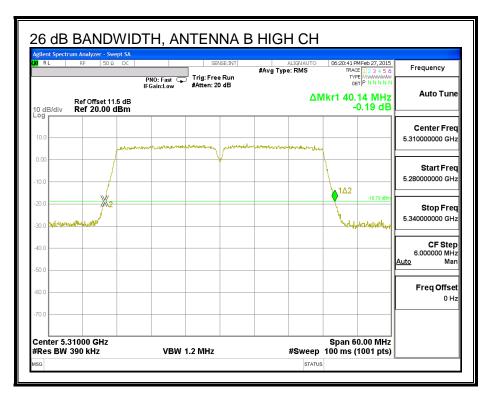
LIMITS

None; for reporting purposes only.

Channel Frequency		26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5270	40.26	39.96
High 5310		40.14	40.14

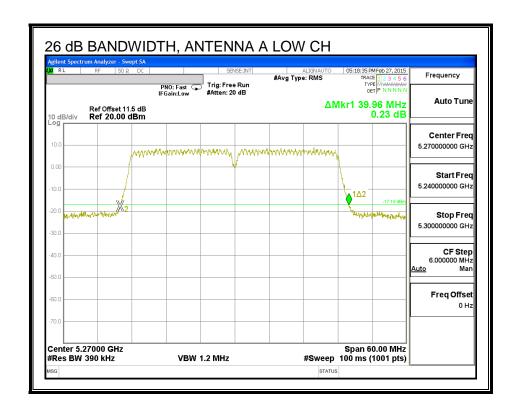
26 dB BANDWIDTH, ANTENNA B

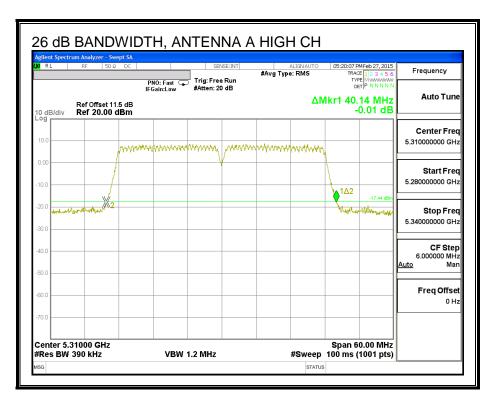




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26 dB BANDWIDTH, ANTENNA A





FCC ID: BCGA1538

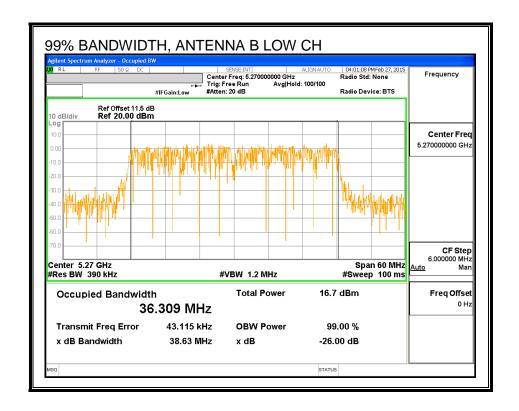
8.18.2. 99% BANDWIDTH

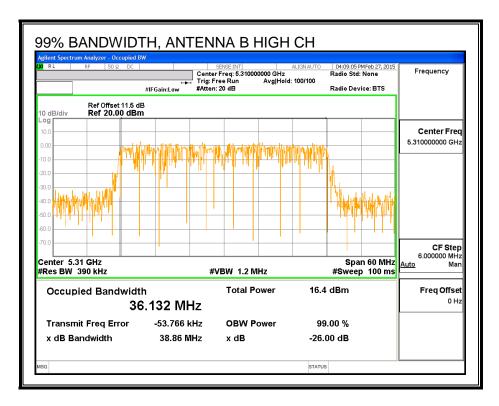
LIMITS

None; for reporting purposes only.

Channel	Frequency	99% BW	99% BW	
		Antenna B	Antenna A	
	(MHz)	(MHz)	(MHz)	
Low	5270	36.309	36.224	
High	5310	36.132	36.245	

99% BANDWIDTH, ANTENNA B

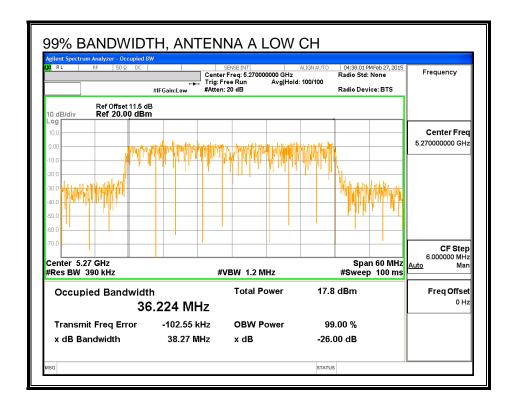


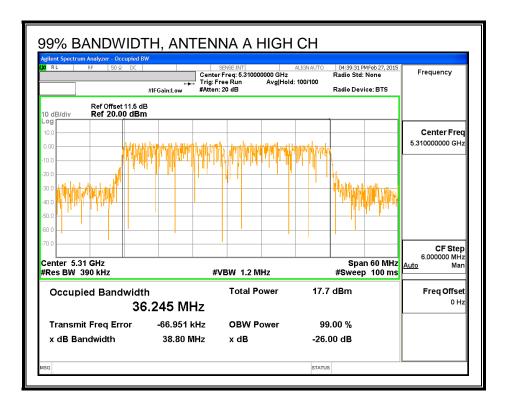


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FCC ID: BCGA1538

99% BANDWIDTH, ANTENNA A





FCC ID: BCGA1538

8.18.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Antenna B	Antenna A	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5270	15.40	15.40	18.41
High	5310	14.06	14.10	17.09

FCC ID: BCGA1538

8.18.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

Antenna B	Antenna A	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
4.20	3.10	3.68

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

Antenna B	Antenna A	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
4.20	3.10	6.68

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
Low	5270	39.96	3.68	6.68	24.00	10.32
High	5310	40.14	3.68	6.68	24.00	10.32

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

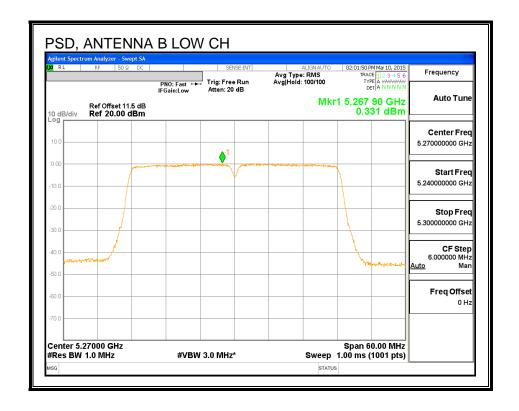
Output Power Results

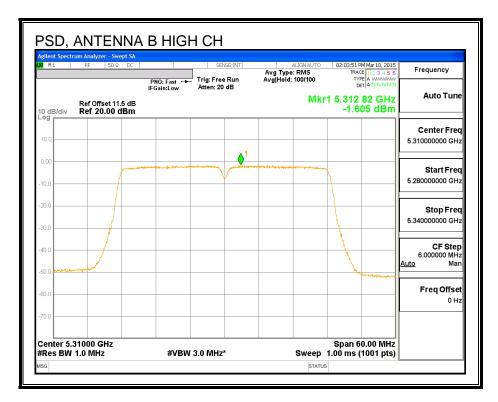
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	15.40	15.40	18.41	24.00	-5.59
High	5310	14.06	14.10	17.09	24.00	-6.91

PSD Results

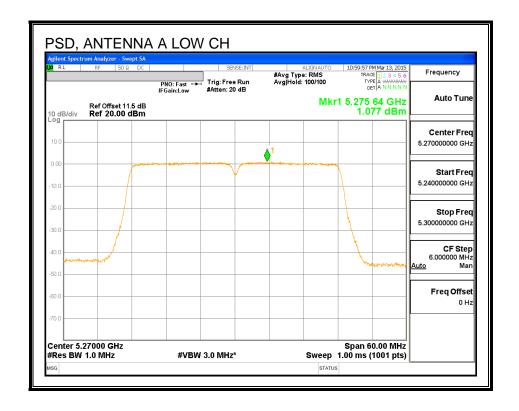
. 05	1 05 Rodalo						
Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD	
		Meas	Meas	Corr'd	Limit	Margin	
		PSD	PSD	PSD			
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	
Low	5270	0.33	1.08	3.73	10.32	-6.59	
High	5310	-1.61	-0.35	2.08	10.32	-8.24	

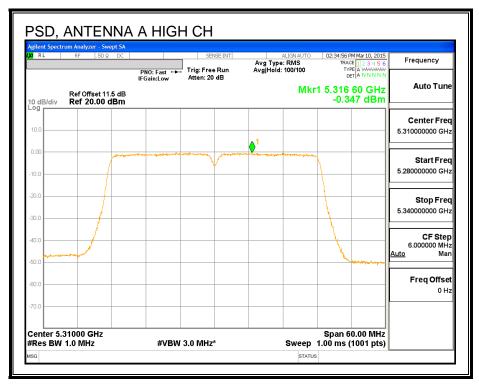
PSD, ANTENNA B





PSD, ANTENNA A





FCC ID: BCGA1538

8.19. 802.11n HT40 2Tx STBC MODE IN THE 5.3 GHz BAND

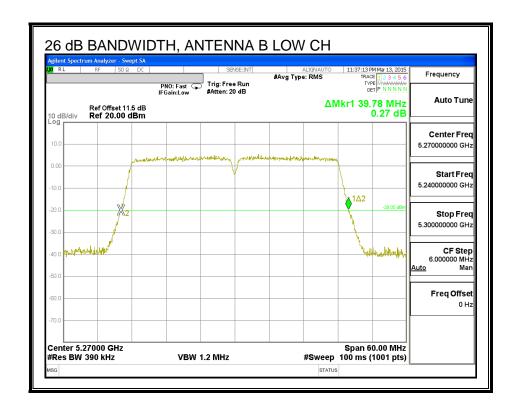
8.19.1. 26 dB BANDWIDTH

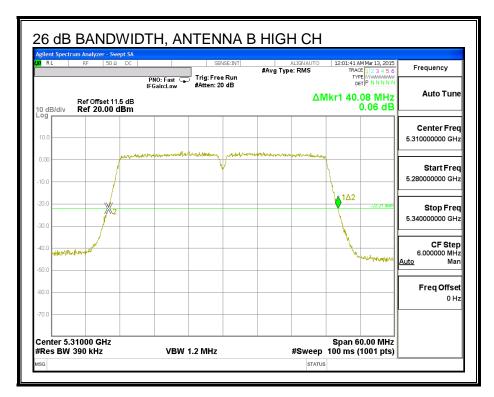
LIMITS

None; for reporting purposes only.

Channel Frequency		26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5270	39.78	39.72
High	5310	40.08	39.90

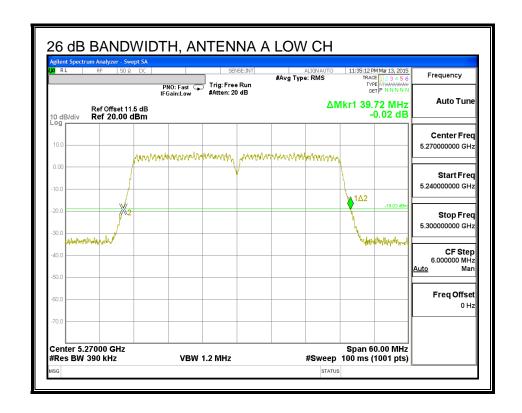
26 dB BANDWIDTH, ANTENNA B

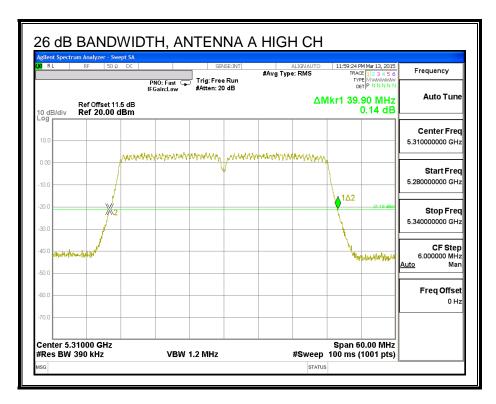




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26 dB BANDWIDTH, ANTENNA A





FCC ID: BCGA1538

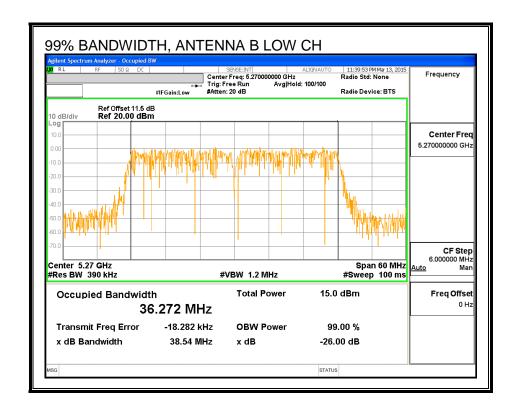
8.19.2. 99% BANDWIDTH

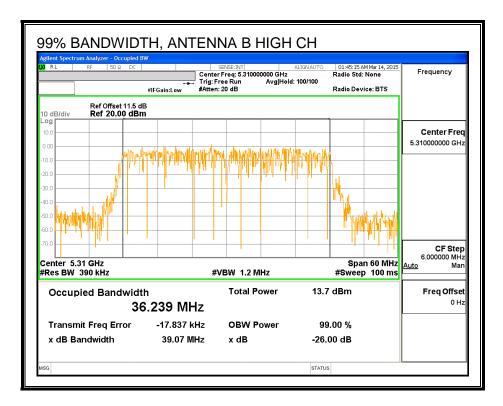
LIMITS

None; for reporting purposes only.

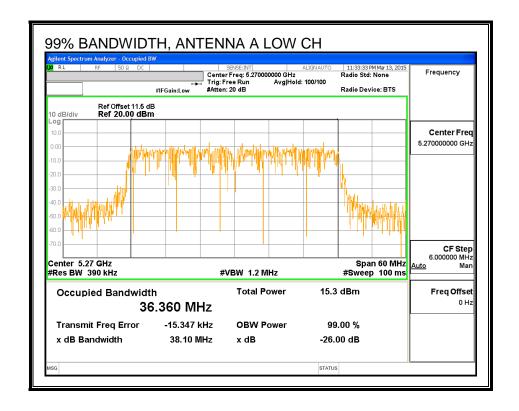
Channel	Frequency	99% BW	99% BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5270	36.272	36.360
High	5310	36.239	36.106

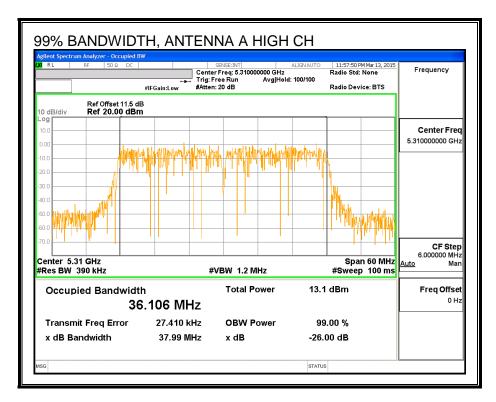
99% BANDWIDTH, ANTENNA B





99% BANDWIDTH, ANTENNA A





FCC ID: BCGA1538

8.19.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Antenna B Antenna A Power Power		Total Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5270	15.53	16.02	18.79
High	5310	14.03	14.01	17.03

8.19.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

Antenna B	Antenna A	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
4.20	3.10	3.68

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
Low	5270	39.72	3.68	3.68	24.00	11.00
High	5310	39.90	3.68	3.68	24.00	11.00

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

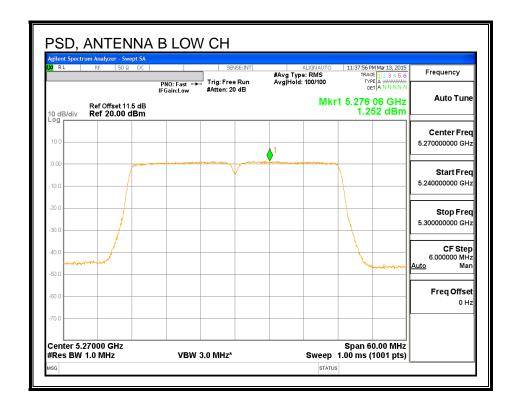
Output Power Results

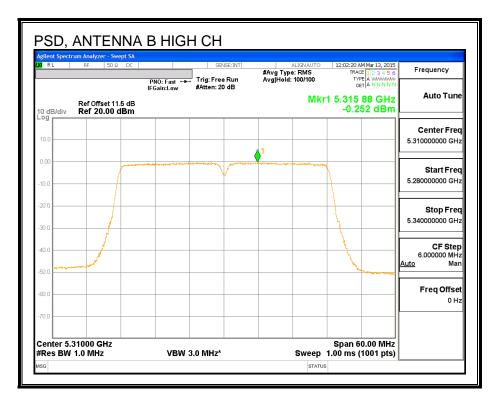
Channel	Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	15.53	16.02	18.79	24.00	-5.21
High	5310	14.03	14.01	17.03	24.00	-6.97

PSD Results

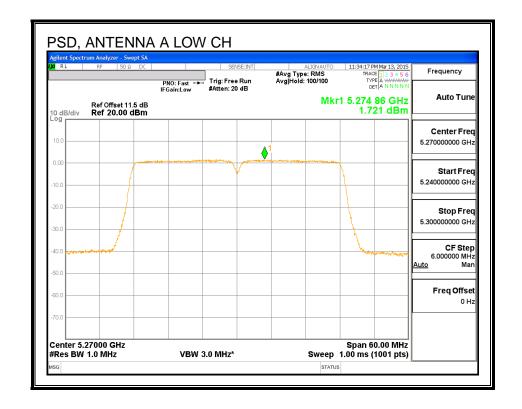
Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	1.25	1.72	4.50	11.00	-6.50
High	5310	-0.25	-0.22	2.77	11.00	-8.23

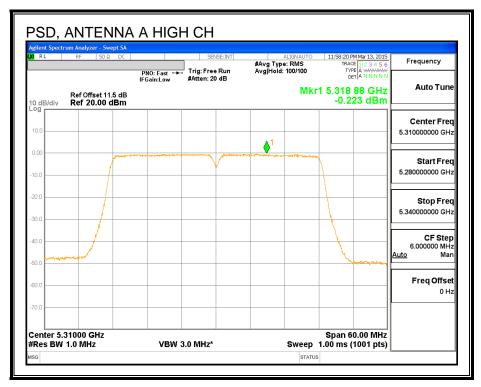
PSD, ANTENNA B





PSD, ANTENNA A





8.20. 802.11ac VHT80 SISO MODE IN THE 5.3 GHz BAND ANTENNA B

8.20.1. 26 dB BANDWIDTH

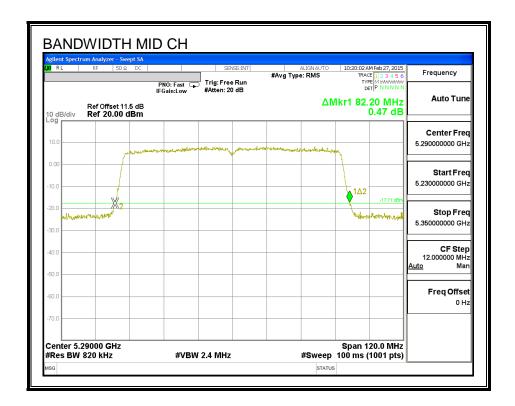
LIMITS

None; for reporting purposes only.

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5290	82.20

FCC ID: BCGA1538

26 dB BANDWIDTH



FCC ID: BCGA1538

8.20.2. 99% BANDWIDTH

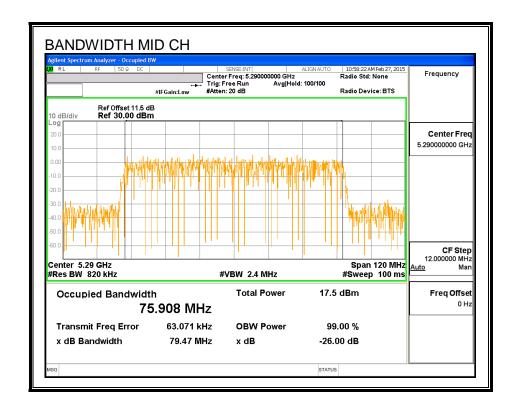
LIMITS

None; for reporting purposes only.

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5290	75.908

FCC ID: BCGA1538

99% BANDWIDTH



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FCC ID: BCGA1538

8.20.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency (MHz)	Power (dBm)
Mid	5290	14.01

8.20.4. **OUTPUT POWER AND PSD**

LIMITS

FCC §15.407 (a) (2)

For the band 5.25-5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Mid	5290	82.20	4.20	24.00	11.00

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

Output Power Results

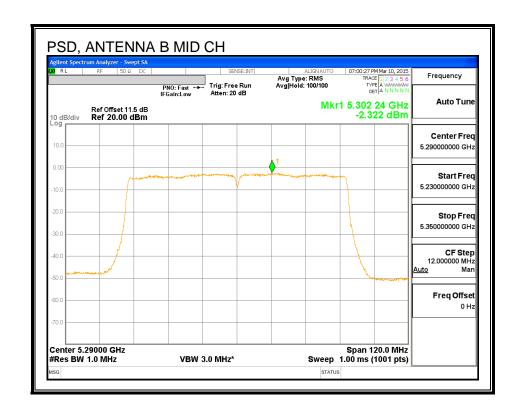
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	14.01	14.17	24.00	-9.83

PPSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD	
		Meas	Corr'd	Limit	Margin	
		PSD	PSD			
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)	
Mid	5290	-2.32	-2.16	11.00	-13.16	

FCC ID: BCGA1538

PSD, ANTENNA B



8.21. 802.11ac VHT80 SISO MODE IN THE 5.3 GHz BAND ANTENNA A

8.21.1. 26 dB BANDWIDTH

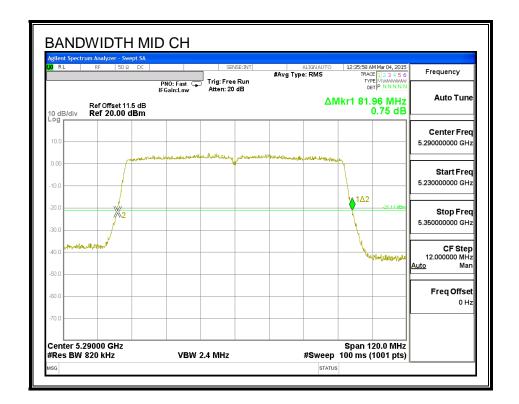
LIMITS

None; for reporting purposes only.

Channel	Frequency	26 dB Bandwidt	
	(MHz)	(MHz)	
Mid	5290	81.96	

FCC ID: BCGA1538

26 dB BANDWIDTH



FCC ID: BCGA1538

8.21.2. 99% BANDWIDTH

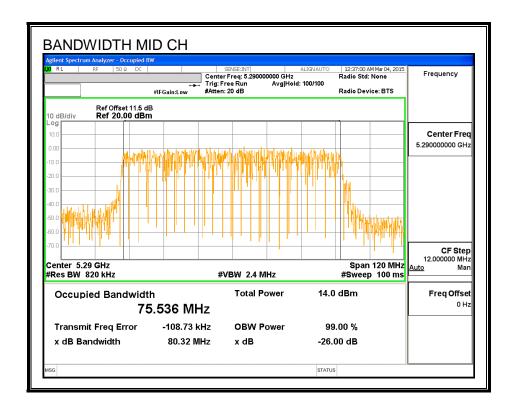
LIMITS

None; for reporting purposes only.

Channel	Frequency	99% Bandwidth
(MHz)		(MHz)
Mid	5290	75.536

FCC ID: BCGA1538

99% BANDWIDTH



FCC ID: BCGA1538

8.21.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency	Power
	(MHz)	(dBm)
Mid	5290	13.95

8.21.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Mid	5290	81.96	3.10	24.00	11.00

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

Output Power Results

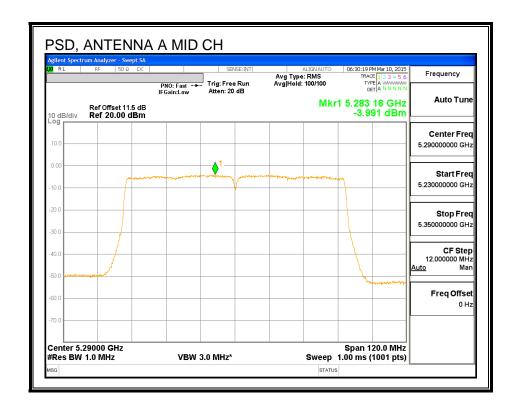
Channel	Frequency	Antenna A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	13.95	14.11	24.00	-9.89

PPSD Results

	Channel	Frequency	Antenna A	Total	PSD	PSD
ı			Meas	Corr'd	Limit	Margin
ı			PSD	PSD		
ı		(MHz)	(dBm)	(dBm)	(dBm)	(dB)
r	Mid	5290	-3.99	-3.83	11.00	-14.83

FCC ID: BCGA1538

PSD, ANTENNA A



802.11ac VHT80 2Tx CDD MODE IN THE 5.3 GHz BAND 8.22.

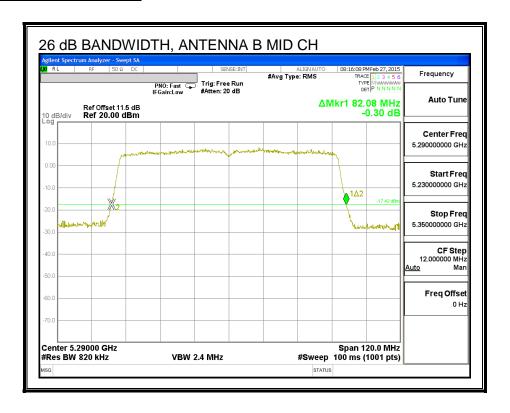
8.22.1. **26 dB BANDWIDTH**

LIMITS

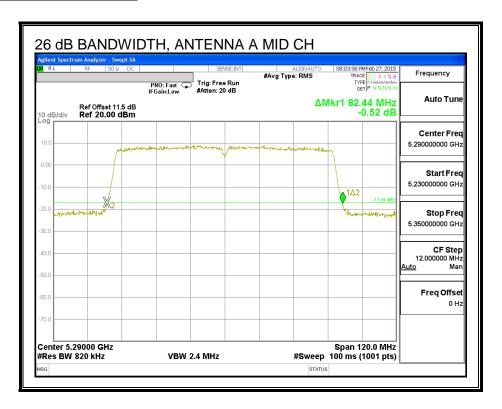
None; for reporting purposes only.

Channel	Frequency	26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Mid	5290	82.08	82.44

26 dB BANDWIDTH, ANTENNA B



26 dB BANDWIDTH, ANTENNA A



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FCC ID: BCGA1538

8.22.2. 99% BANDWIDTH

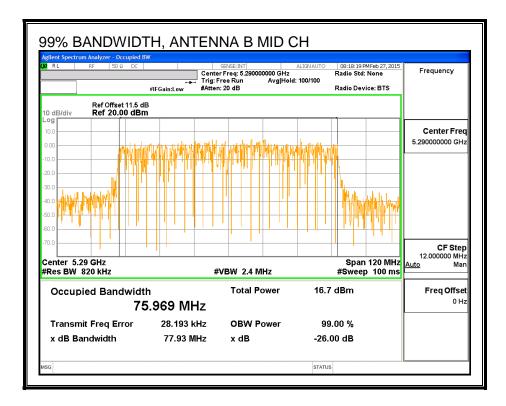
LIMITS

None; for reporting purposes only.

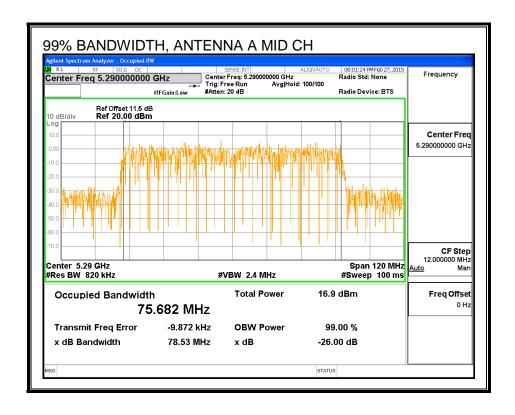
Channel	Frequency	99% BW	99% BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Mid	5290	75.969	75.682

FCC ID: BCGA1538

99% BANDWIDTH, ANTENNA B



99% BANDWIDTH, ANTENNA A



FCC ID: BCGA1538

8.22.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

Channel	Frequency	Antenna B	Antenna A	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Mid	5290	12.94	13.05	16.01

8.22.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

Antenna B	Antenna A	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
4.20	3.10	3.68

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

Antenna B	Antenna A	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
4.20	3.10	6.68

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
Mid	5290	82.08	3.68	6.68	24.00	10.32

Duty Cycle CF (dB)	0.21	Included in Calculations of Corr'd Power & PSD
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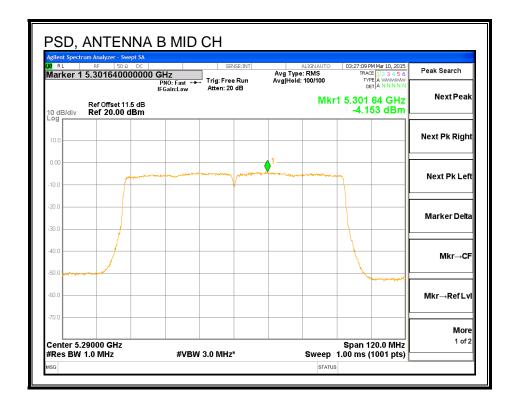
Output Power Results

Channe	el Frequency	Antenna B	Antenna A	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	12.94	13.05	16.22	24.00	-7.78

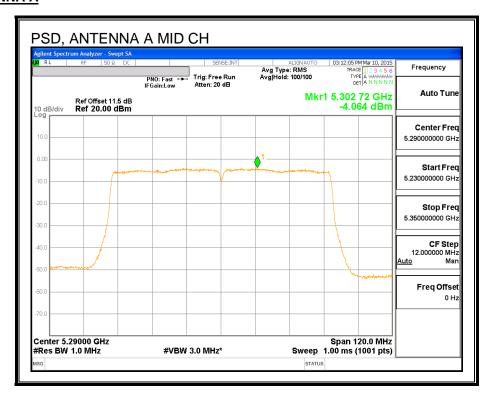
PSD Results

Channel	Frequency	Antenna B	Antenna A	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	-4.15	-4.06	-0.89	10.32	-11.21

PSD, ANTENNA B



PSD, ANTENNA A



8.23. 802.11n HT20 SISO MODE IN THE 5.6 GHz BAND ANTENNA B

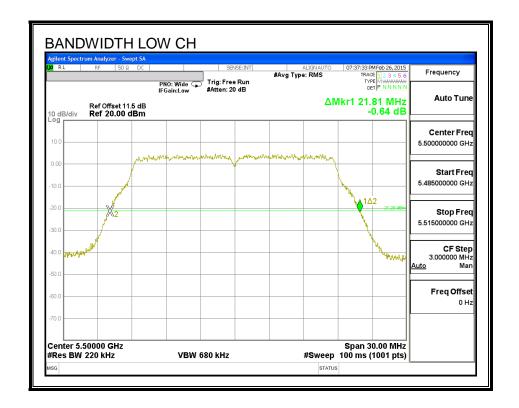
8.23.1. 26 dB BANDWIDTH

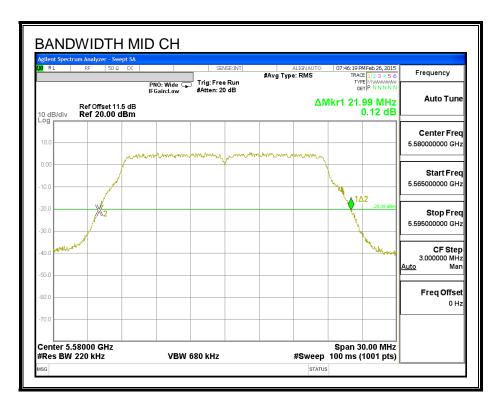
LIMITS

None; for reporting purposes only.

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5500	21.81
Mid	5580	21.99
High	5700	21.87
144	5720	21.99

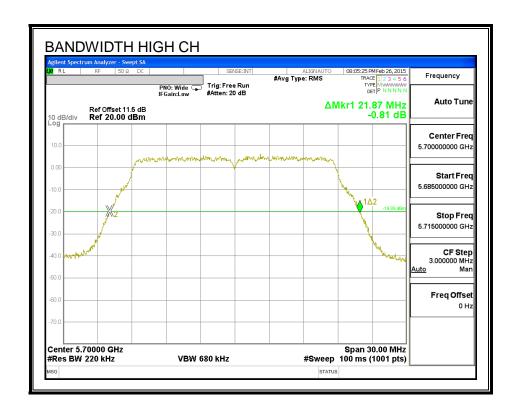
26 dB BANDWIDTH

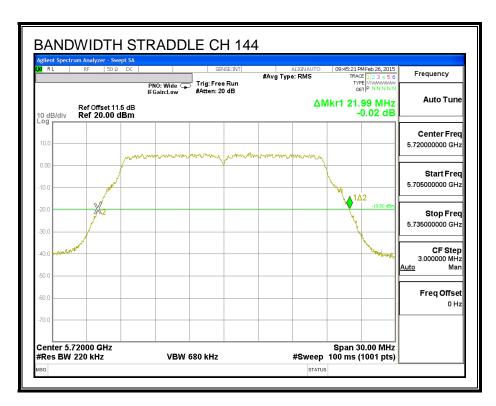




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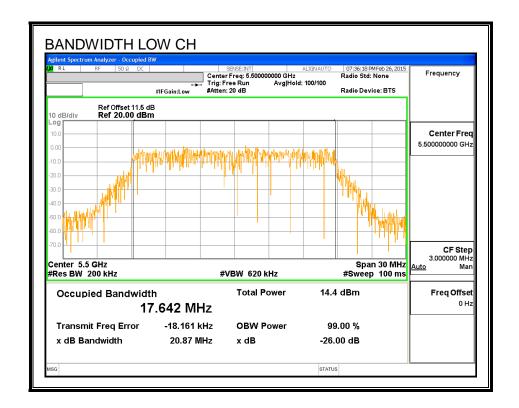
8.23.2. 99% BANDWIDTH

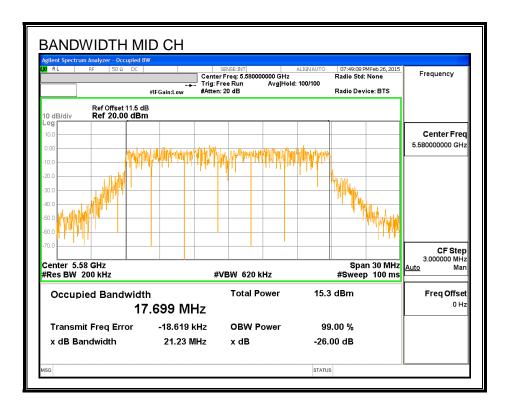
LIMITS

None; for reporting purposes only.

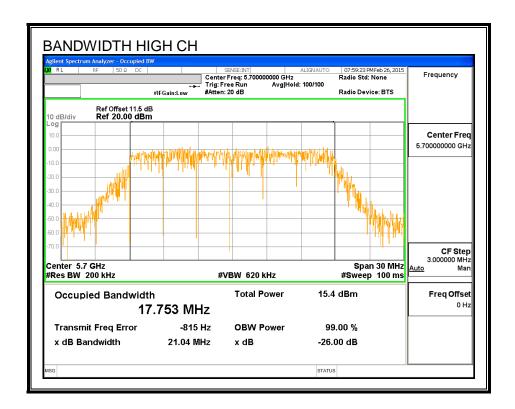
Channel	Frequency	99% Bandwidth		
	(MHz)	(MHz)		
Low	5500	17.642		
Mid	5580	17.699		
High	5700	17.753		
144	5720	17.706		

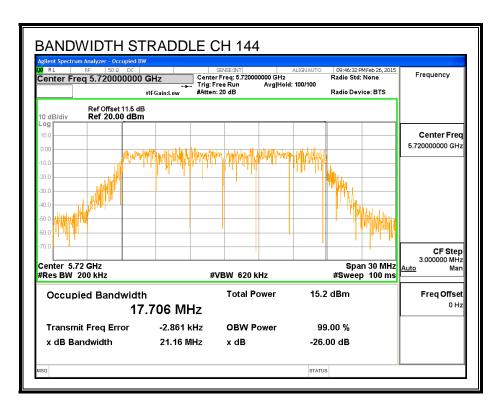
99% BANDWIDTH





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8.23.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Channel	Frequency	Power	
	(MHz)	(dBm)	
Low	5500	15.01	
Mid	5580	15.03	
High	5700	14.55	
144	5720	14.85	

8.23.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	5500	21.81	4.80	24.00	11.00
Mid	5580	21.99	4.80	24.00	11.00
High	5700	21.87	4.80	24.00	11.00

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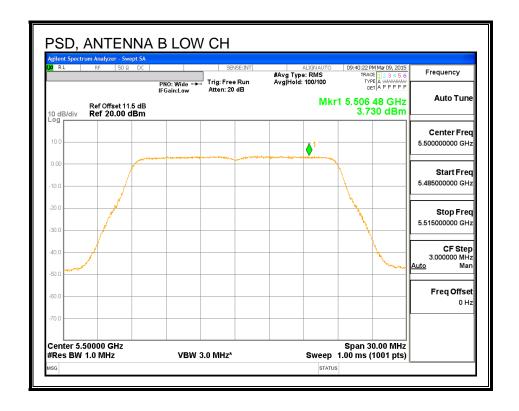
Output Power Results

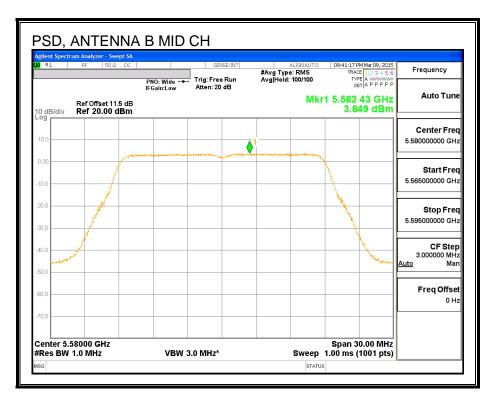
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	15.01	15.01	24.00	-8.99
Mid	5580	15.03	15.03	24.00	-8.97
High	5700	14.55	14.55	24.00	-9.45

PSD Results

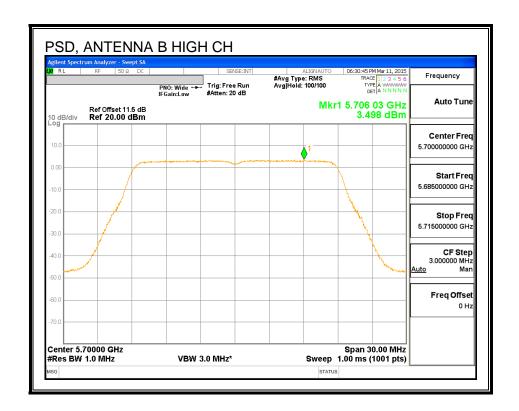
Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	3.73	3.73	11.00	-7.27
Mid	5580	3.85	3.85	11.00	-7.15
High	5700	3.50	3.50	11.00	-7.50

PSD, ANTENNA B





FCC ID: BCGA1538



FCC ID: BCGA1538

STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
144	5720	16.00	4.80	4.80	23.04	11.00

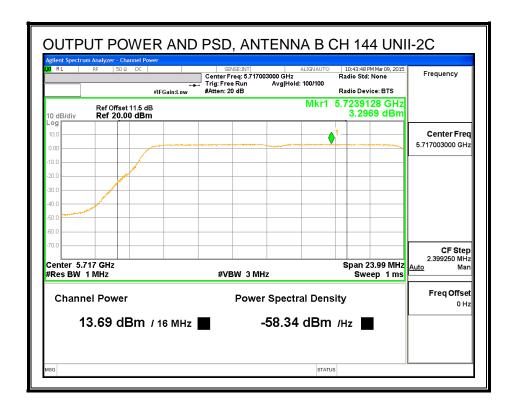
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	13.69	13.69	23.04	-9.35

PSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD	
		Meas	Corr'd	Limit	Margin	
		PSD	PSD			
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)	
144	5720	3.30	3.30	11.00	-7.70	



FCC ID: BCGA1538

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
144	5720	6.00	4.90	30.00	30.00

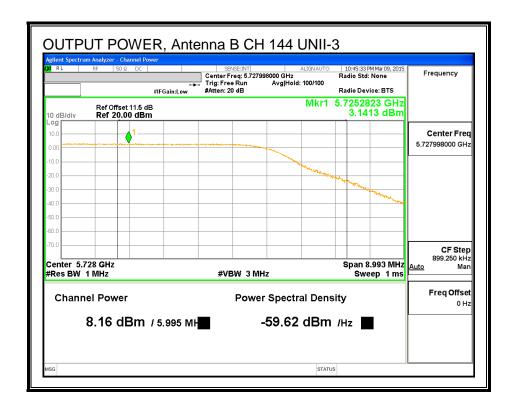
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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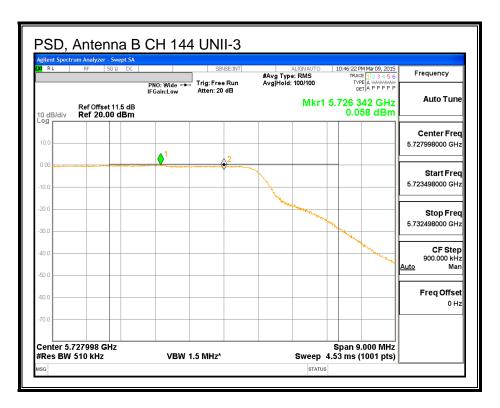
Output Power Results

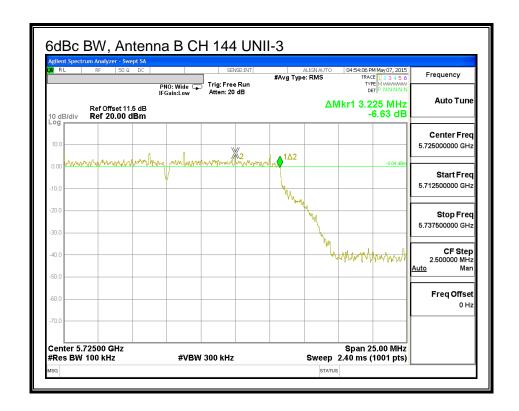
Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	8.16	8.16	30.00	-21.84

PSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	0.06	0.06	30.00	-29.94







REPORT NO: 14U19186-E5C DATE: JULY 20, 2015 FCC ID: BCGA1538

8.24. 802.11n HT20 SISO MODE IN THE 5.6 GHz BAND ANTENNA A

8.24.1. 26 dB BANDWIDTH

LIMITS

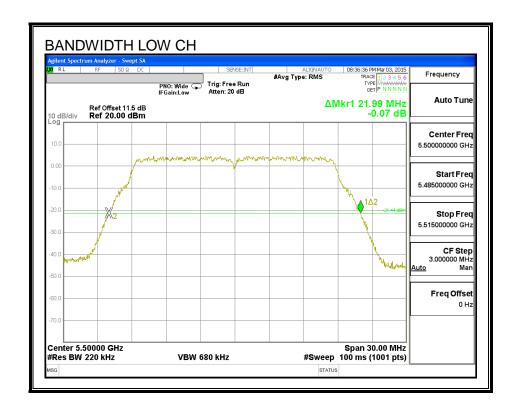
None; for reporting purposes only.

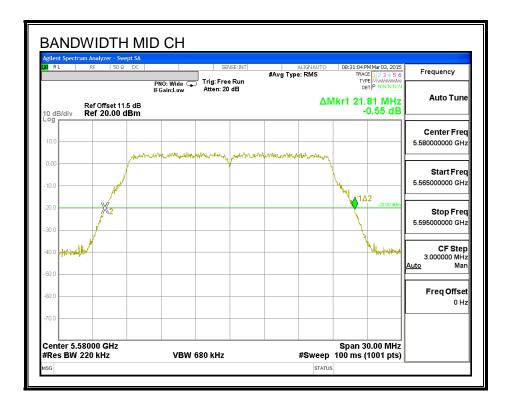
RESULTS

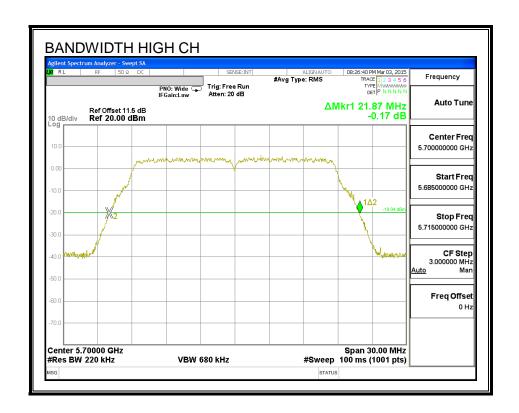
Channel	Frequency	26 dB Bandwidth	
	(MHz)	(MHz)	
Low	5500	21.99	
Mid	5580	21.81	
High	5700	21.87	
144	5720	21.90	

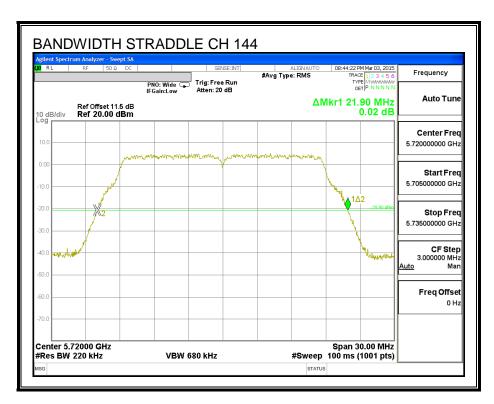
REPORT NO: 14U19186-E5C DATE: JULY 20, 2015 FCC ID: BCGA1538

26 dB BANDWIDTH









FCC ID: BCGA1538

8.24.2. 99% BANDWIDTH

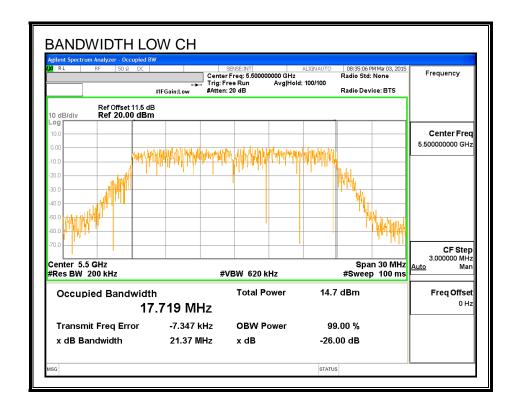
LIMITS

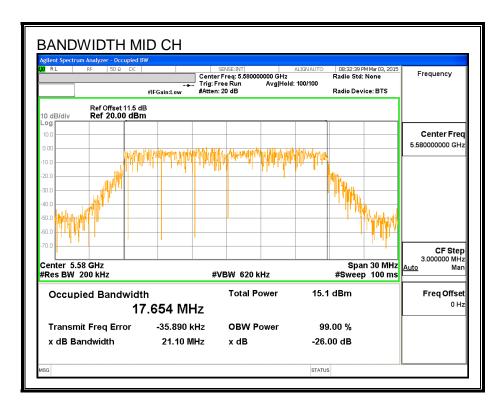
None; for reporting purposes only.

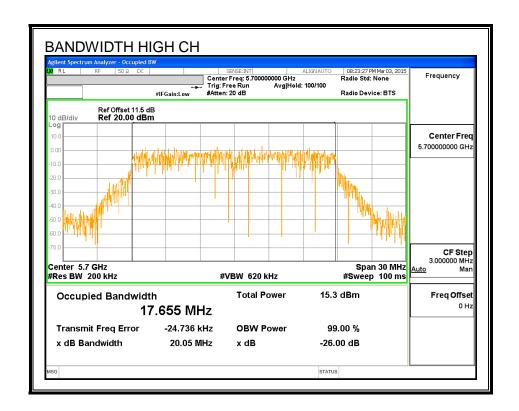
RESULTS

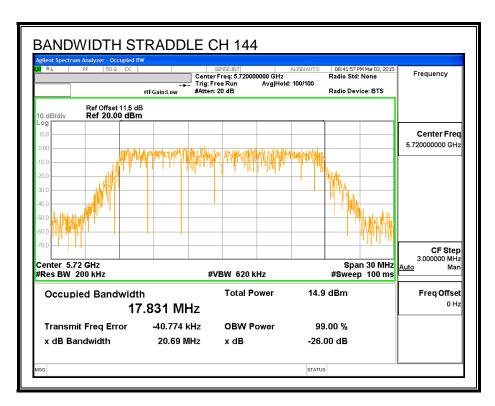
Channel	Frequency	99% Bandwidth	
	(MHz)	(MHz)	
Low	5500	17.719	
Mid	5580	17.654	
High	5700	17.655	
144	5720	17.831	

99% BANDWIDTH









FCC ID: BCGA1538

8.24.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5500	14.99
Mid	5580	14.99
High	5700	14.48
144	5720	14.94

REPORT NO: 14U19186-E5C DATE: JULY 20, 2015 FCC ID: BCGA1538

8.24.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

FCC ID: BCGA1538

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
Low	5500	21.99	3.20	24.00	11.00
Mid	5580	21.81	3.20	24.00	11.00
High	5700	21.87	3.20	24.00	11.00

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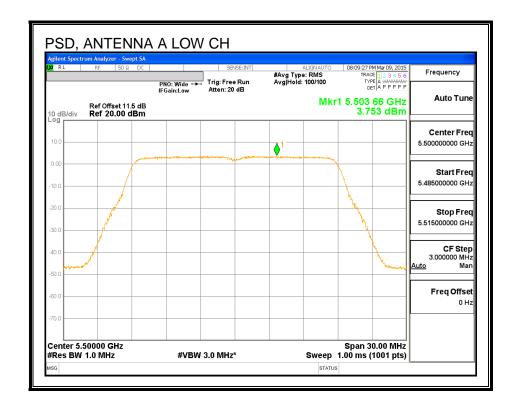
Output Power Results

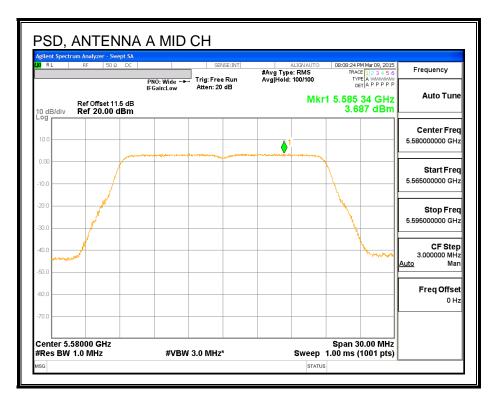
Channel	Frequency	Antenna A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	14.99	14.99	24.00	-9.01
Mid	5580	14.99	14.99	24.00	-9.01
High	5700	14.48	14.48	24.00	-9.52

PSD Results

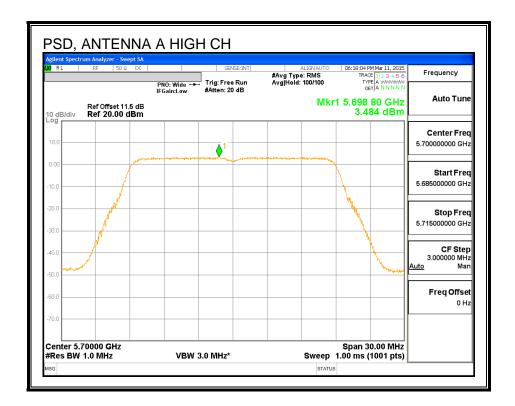
I OD NOS	a113				
Channel	Frequency	Antenna A	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	3.75	3.75	11.00	-7.25
Mid	5580	3.69	3.69	11.00	-7.31
High	5700	3.48	3.48	11.00	-7.52

PSD, ANTENNA A





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FCC ID: BCGA1538

STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm)
144	5720	15.95	3.20	3.20	23.03	11.00

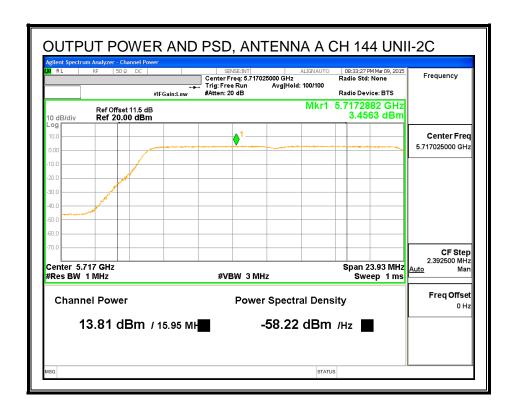
Duty Cycle CF (dB) 0.00	Included in Calculations of Corr'd Power & PSD
-------------------------	--

Output Power Results

Channel	Frequency	Antenna A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	13.81	13.81	23.03	-9.22

PSD Results

	Channel	Frequency	Antenna A	Total	PSD	PSD	
ı			Meas	Corr'd	Limit	Margin	
ı			PSD	PSD			
ı		(MHz)	(dBm)	(dBm)	(dBm)	(dB)	
	144	5720	3.46	3.46	11.00	-7.54	



FCC ID: BCGA1538

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency	Min	Directional	Power	PSD
		26 dB	Gain	Limit	Limit
		BW			
	(MHz)	(MHz)	(dBi)	(dBm)	(dBm)
144	5720	5.95	3.40	30.00	30.00

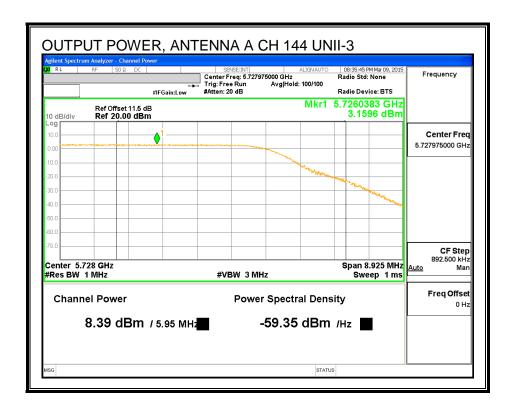
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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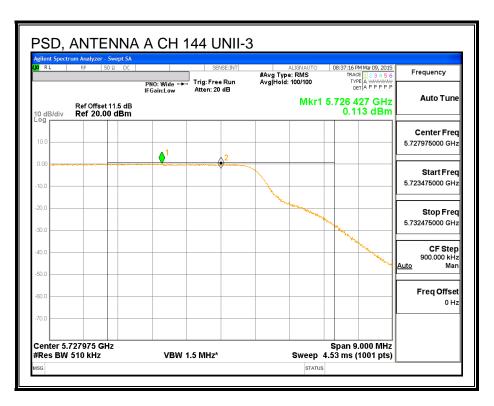
Output Power Results

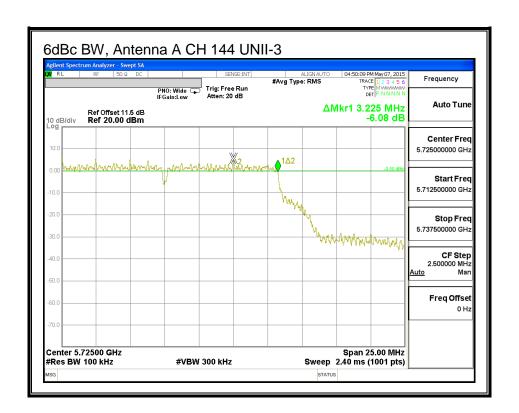
Channel	Frequency	Antenna A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
144	5720	8.39	8.39	30.00	-21.61

PSD Results

Channel	Frequency	Antenna A	Total	PSD	PSD			
		Meas	Corr'd	Limit	Margin			
		PSD	PSD					
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)			
144	5720	0.11	0.11	30.00	-29.89			







FCC ID: BCGA1538

8.25. 802.11n HT20 2Tx CDD MODE IN THE 5.6 GHz BAND

8.25.1. 26 dB BANDWIDTH

LIMITS

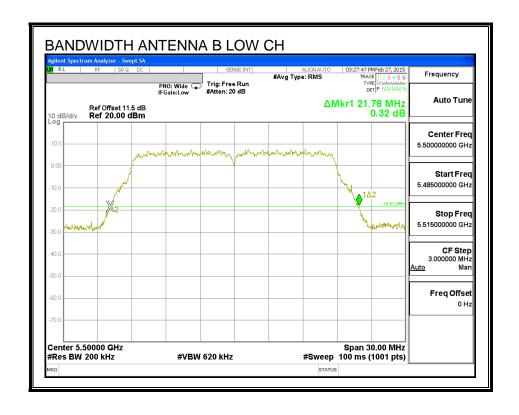
None; for reporting purposes only.

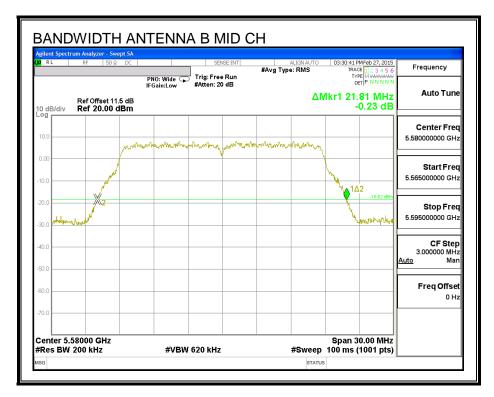
RESULTS

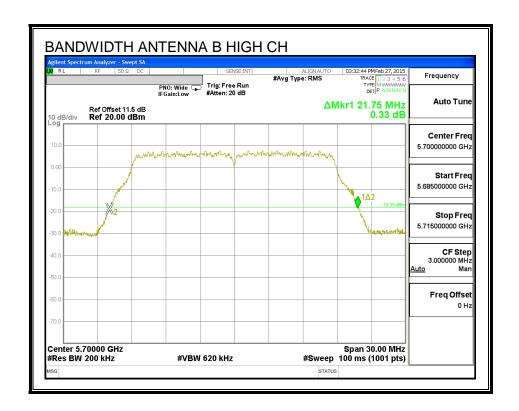
Channel	Frequency	26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5500	21.78	21.78
Mid	5580	21.81	21.75
High	5700	21.75	21.78
144	5720	21.78	21.90

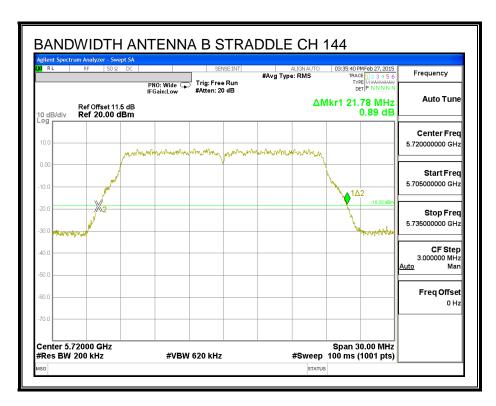
REPORT NO: 14U19186-E5C DATE: JULY 20, 2015 FCC ID: BCGA1538

26 dB BANDWIDTH, ANTENNA B



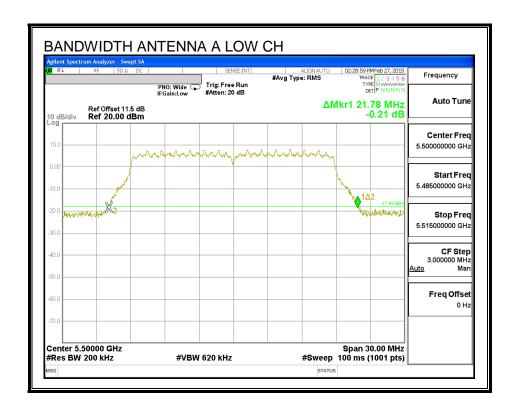


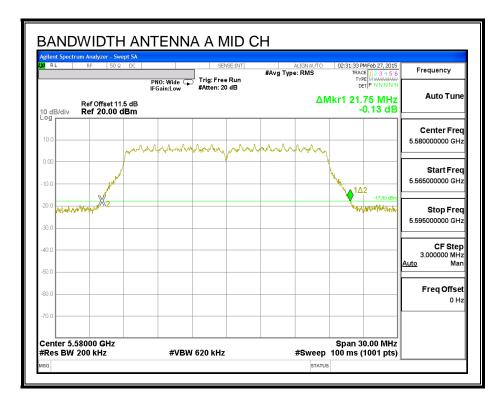




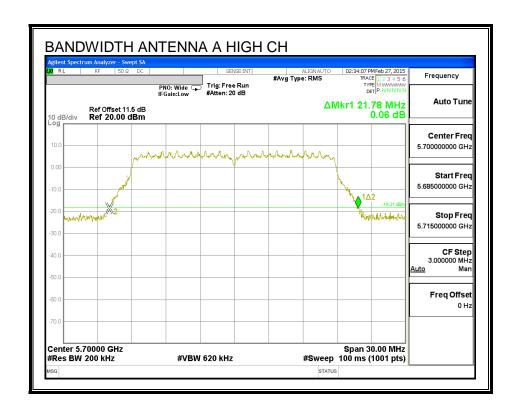
FCC ID: BCGA1538

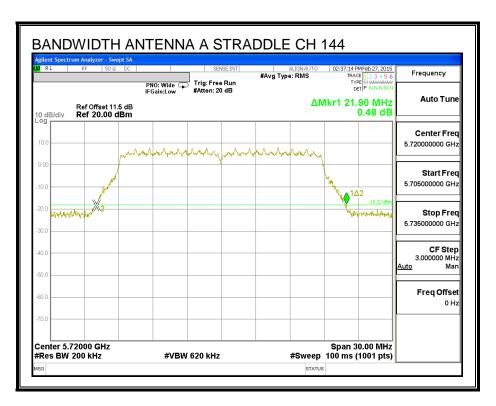
26 dB BANDWIDTH, ANTENNA A





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8.25.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW	99% BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5500	17.702	17.813
Mid	5580	17.701	17.886
High	5700	17.719	17.830
144	5720	17.765	17.825

99% BANDWIDTH, ANTENNA B

