8.10. 802.11n HT40 2TX CDD MODE IN THE 5.3 GHz BAND

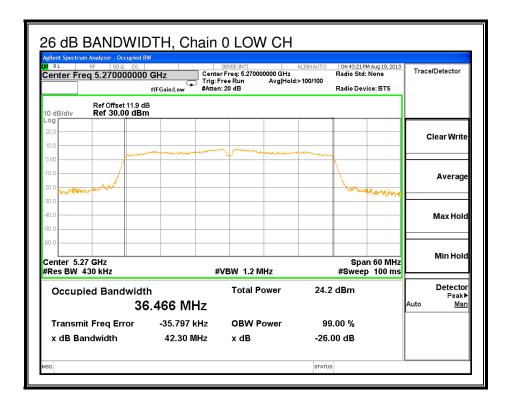
8.10.1. 26 dB BANDWIDTH

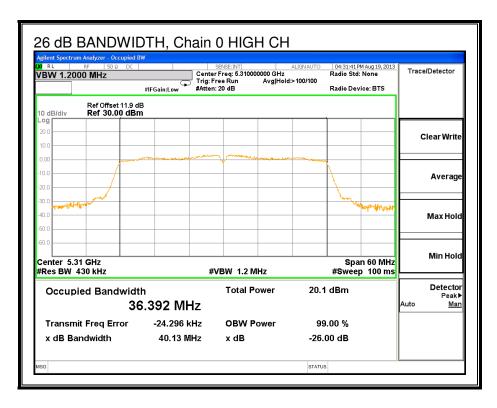
LIMITS

None; for reporting purposes only.

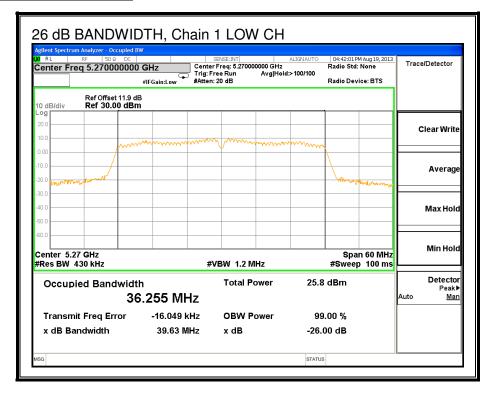
Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5270	42.30	39.63
High	5310	40.13	39.51

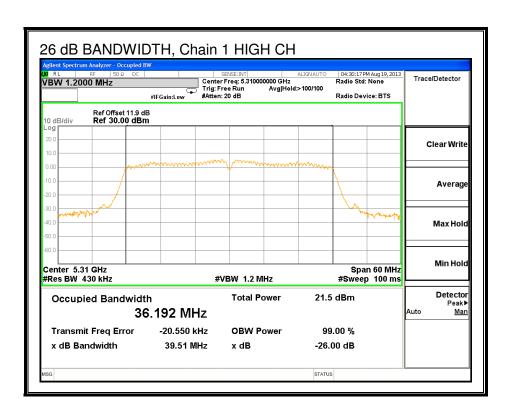
26 dB BANDWIDTH, Chain 0





26 dB BANDWIDTH, Chain 1





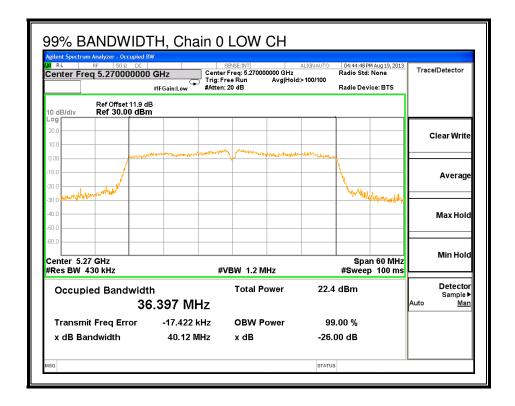
8.10.2. 99% BANDWIDTH

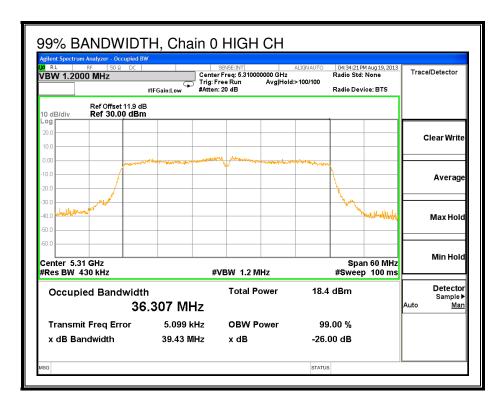
LIMITS

None; for reporting purposes only.

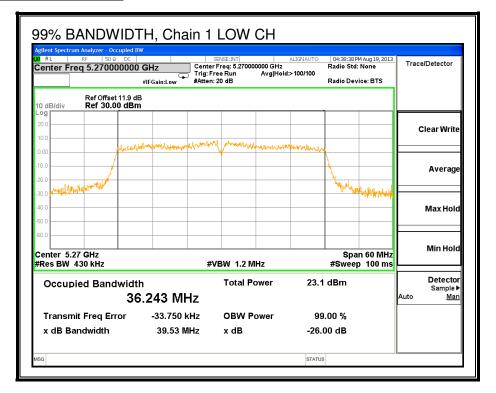
Channel	Frequency	99% BW	99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5270	36.40	36.24
High	5310	36.31	36.21

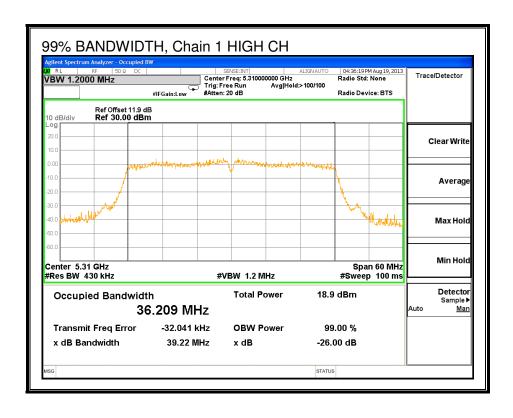
99% BANDWIDTH, Chain 0





99% BANDWIDTH, Chain 1





8.10.3. **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 11.9 dB (including 10 dB pad and 1.9 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Average Power Results

Channel	Frequency	Chain 0	Chain 1	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5270	16.48	16.50	19.50
High	5310	12.45	12.50	15.49

FCC ID: BCGA1474

8.10.4. OUTPUT POWER AND PPSD

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

For output power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.60	2.11	2.36

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

Chain 0	Chain 1	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.60	2.11	5.37

DATE: DECEMBER 02, 2015

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency	Min	Uncorre	Correlated
		26 dB	Directio	Directional
			nal	
		BW	Gain	Gain
	(MHz)	(MHz)	(dBi)	(dBi)
Low	5270	39.6	2.36	5.37
High	5310	39.5	2.36	5.37

Limits

Channel	Frequency	FCC	FCC
		Power	PPSD
		Limit	Limit
	(MHz)	(dBm)	(dBm)
Low	5270	24.00	11.00
High	5310	24.00	11.00

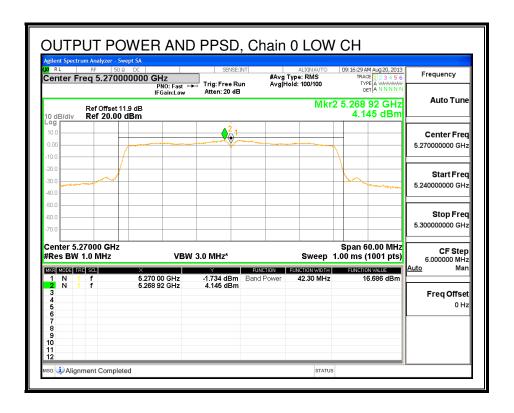
Output Power Results

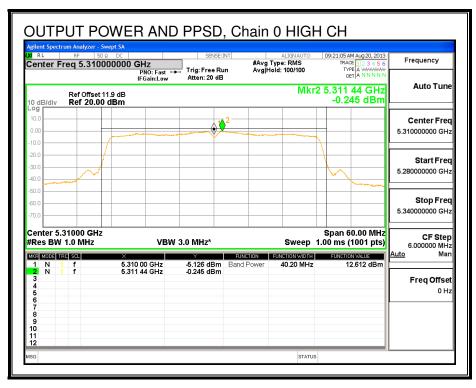
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	16.69	16.68	19.69	24.00	-4.31
High	5310	12.61	12.69	15.66	24.00	-8.34

PPSD Results

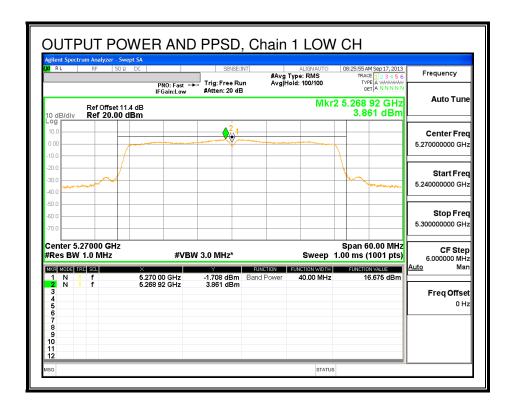
Channel	Frequency	Chain 0	Chain 1	Total	PPSD	PPSD
		Meas	Meas	Corr'd	Limit	Margin
		PPSD	PPSD	PPSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5270	4.15	3.86	7.02	11.00	-3.98
High	5310	-0.25	0.10	2.94	11.00	-8.06

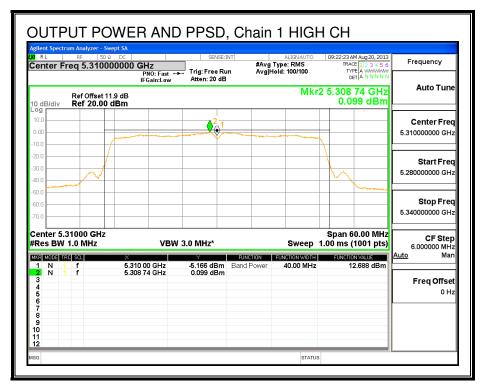
OUTPUT POWER AND PPSD, Chain 0





OUTPUT POWER AND PPSD, Chain 1





8.11. 802.11a SISO MODE IN THE 5.6 GHz BAND

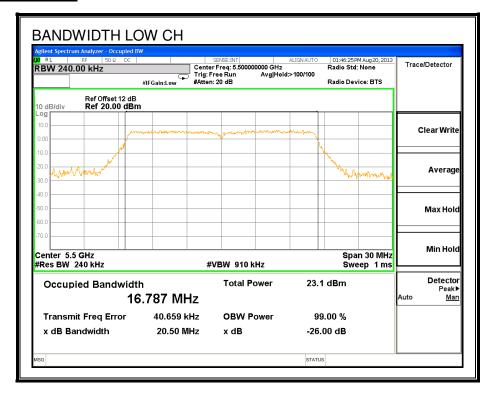
8.11.1. 26 dB BANDWIDTH

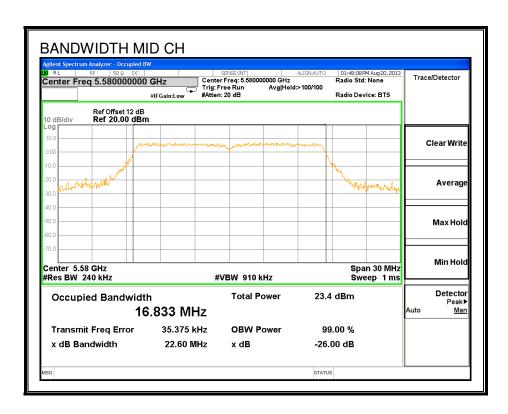
LIMITS

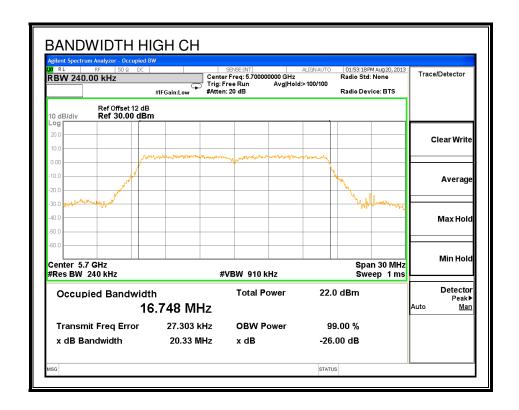
None; for reporting purposes only.

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5500	20.50
Mid	5580	22.60
High	5700	20.33

26 dB BANDWIDTH







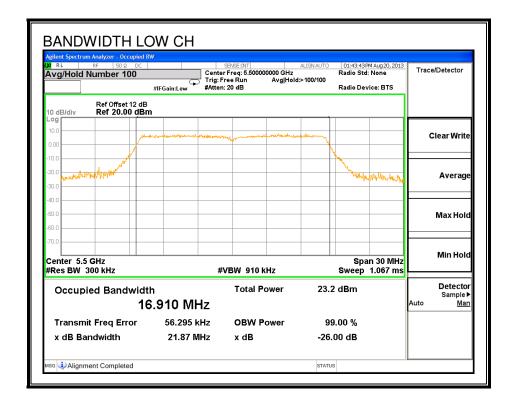
8.11.2. 99% BANDWIDTH

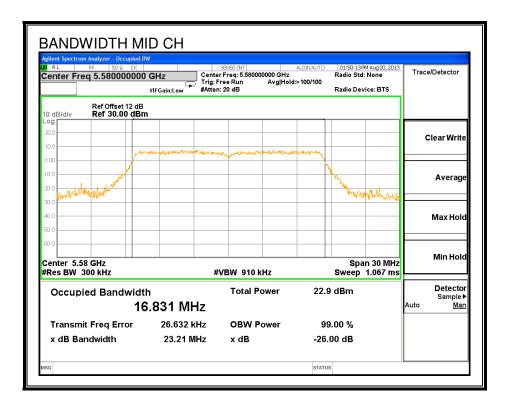
LIMITS

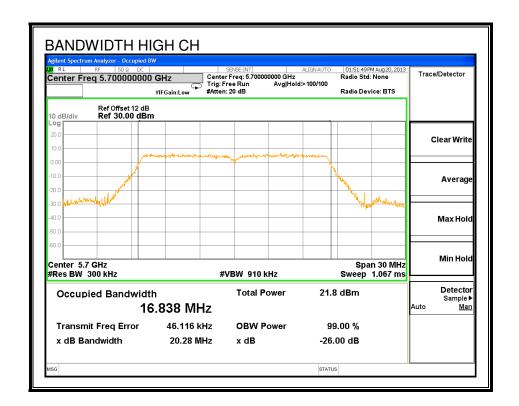
None; for reporting purposes only.

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5500	16.91
Mid	5580	16.83
High	5700	16.84

99% BANDWIDTH







8.11.3. 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 12 dB (including 10 dB pad and 2 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5500	15.0
Mid	5580	16.5
High	5700	14.5

8.11.4. OUTPUT POWER AND PPSD

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.

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency	Min	Directio
		26 dB	Gain
		BW	
	(MHz)	(MHz)	(dBi)
Low	5500	20.5	3.66
Mid	5580	22.6	3.66
High	5700	20.3	3.66

Limits

Channel	Frequency	FCC	FCC
		Power	PPSD
		Limit	Limit
	(MHz)	(dBm)	(dBm)
Low	5500	24.00	11.00
Mid	5580	24.00	11.00
High	5700	24.00	11.00

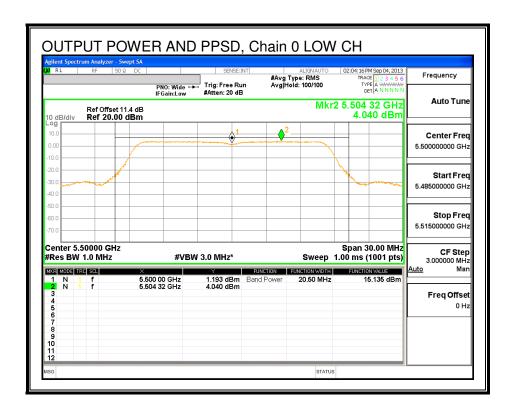
Output Power Results

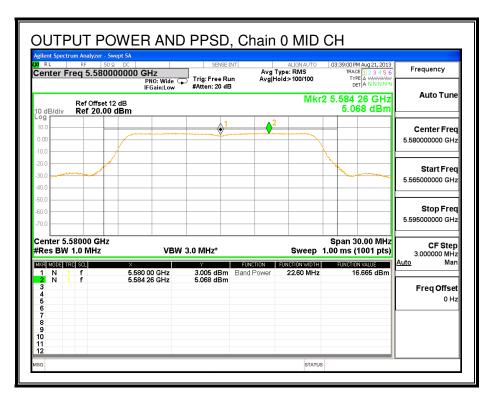
Channel	Frequency	Chain 0	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	15.14	15.14	24.00	-8.87
Mid	5580	16.67	16.67	24.00	-7.34
High	5700	14.66	14.66	24.00	-9.34

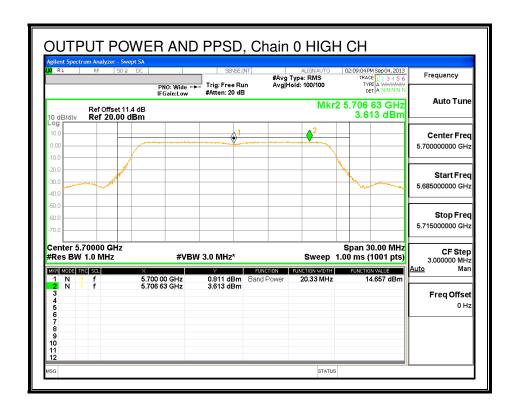
PPSD Results

Channel	Frequency	Chain 0	Total	PPSD	PPSD
		Meas	Corr'd	Limit	Margin
		PPSD	PPSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	4.04	4.04	11.00	-6.96
Mid	5580	5.07	5.07	11.00	-5.93
High	5700	3.61	3.61	11.00	-7.39

OUTPUT POWER AND PPSD, Chain 0







8.12. 802.11n HT20 2TX CDD MODE IN THE 5.6 GHz BAND

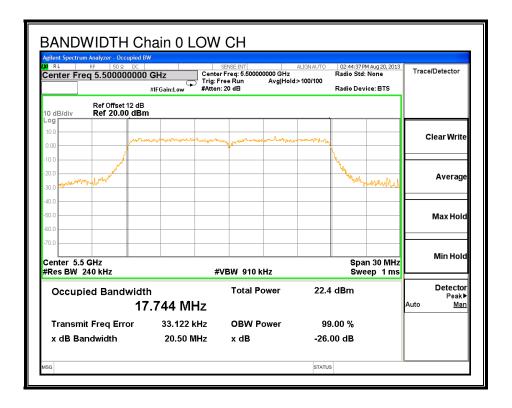
8.12.1. 26 dB BANDWIDTH

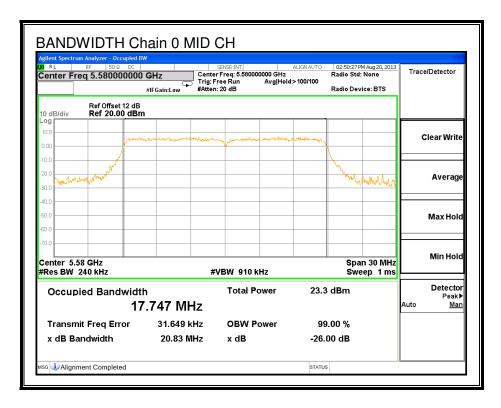
LIMITS

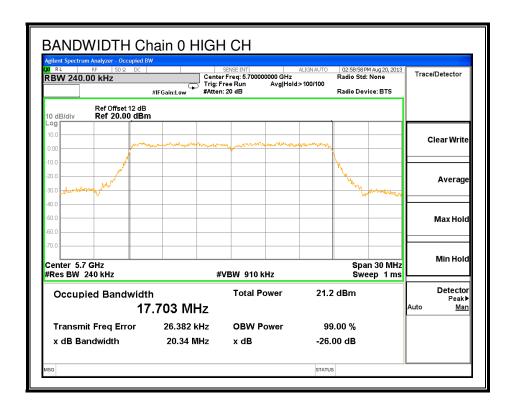
None; for reporting purposes only.

Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5500	20.50	20.59
Mid	5580	20.83	20.38
High	5700	20.34	20.39

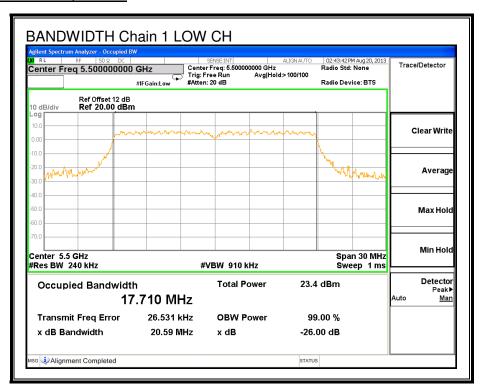
26 dB BANDWIDTH, Chain 0

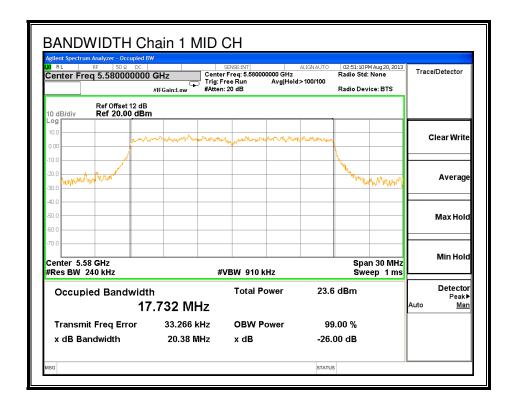


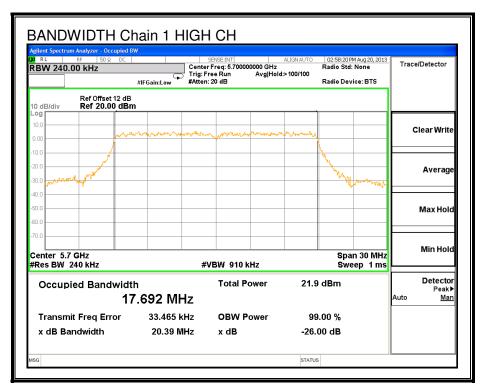




26 dB BANDWIDTH, Chain 1







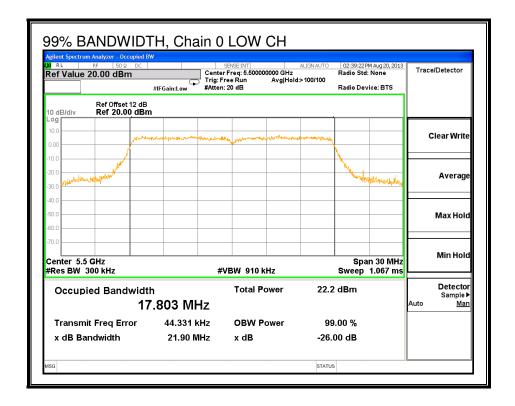
8.12.2. 99% BANDWIDTH

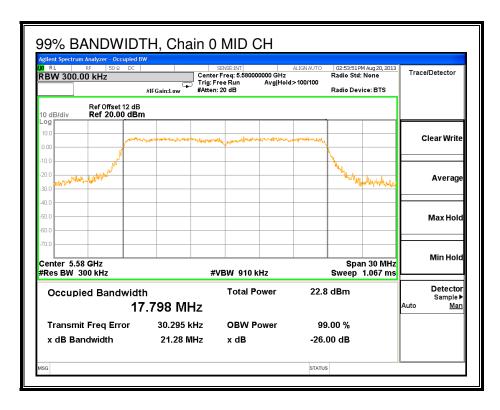
LIMITS

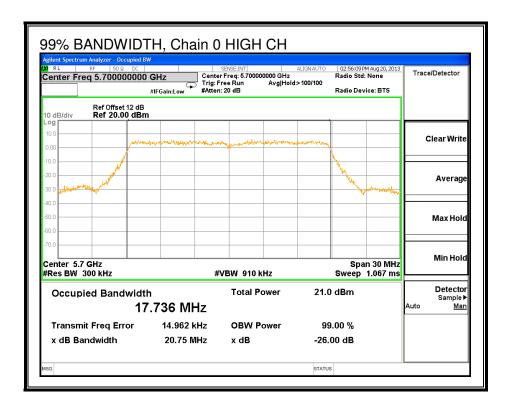
None; for reporting purposes only.

Channel	Frequency	99% BW	99% BW	
		Chain 0	Chain 1	
	(MHz)	(MHz)	(MHz)	
Low	5500	17.80	17.76	
Mid	5580	17.80	17.76	
High	5700	17.74	17.75	

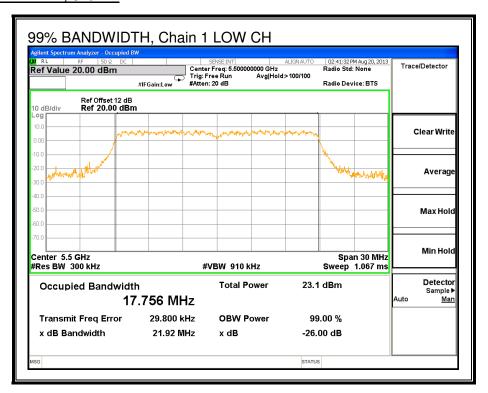
99% BANDWIDTH, Chain 0

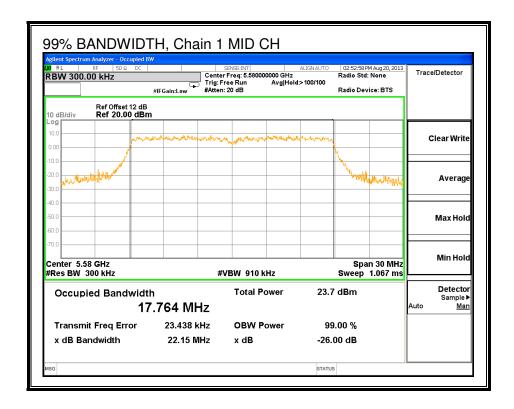


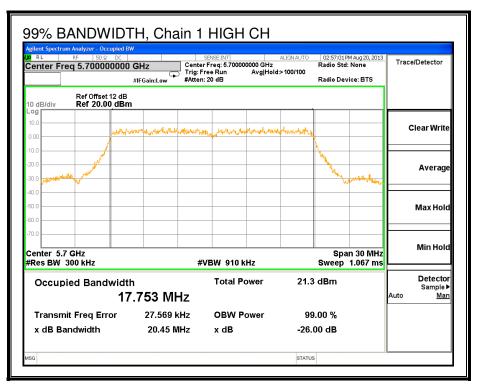




99% BANDWIDTH, Chain 1







8.12.3. 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 12 dB (including 10 dB pad and 2 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Average Power Results

Channel	Frequency	Chain 0	Chain 1	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5500	14.00	13.88	16.95
Mid	5580	15.84	16.00	18.93
High	5700	13.00	13.00	16.01

FCC ID: BCGA1474

8.12.4. OUTPUT POWER AND PPSD

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

For output power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.66	3.99	3.83

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

Chain 0	Chain 1	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.66	3.99	6.84

DATE: DECEMBER 02, 2015

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency	Min	Uncorre	Correlated
		26 dB	Directio	Directional
		BW	Gain	Gain
	(MHz)	(MHz)	(dBi)	(dBi)
Low	5500	20.5	3.83	6.84
Mid	5580	20.4	3.83	6.84
High	5700	20.3	3.83	6.84

Limits

Channel	Frequency	FCC	FCC	
		Power	PPSD	
		Limit	Limit	
	(MHz)	(dBm)	(dBm)	
Low	5500	24.00	10.16	
Mid	5580	24.00	10.16	
High	5700	24.00	10.16	

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

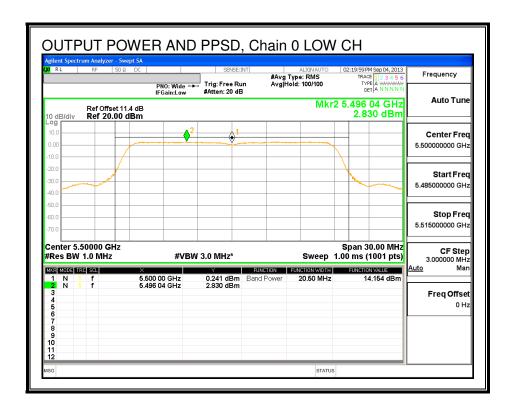
Output Power Results

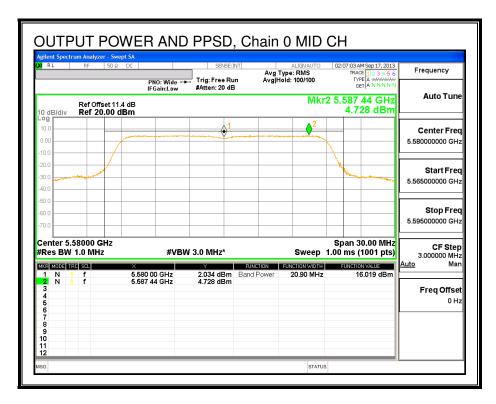
Frequency	Chain 0	Chain 1	Total	Power	Power
	Meas	Meas	Corr'd	Limit	Margin
	_	_	_		
	Power	Power	Power		
(MHz)	(dBm)	(dBm)	Power (dBm)	(dBm)	(dB)
(MHz) 5500				(dBm) 24.00	(dB) -6.95
` ,	(dBm)	(dBm)	(dBm)	,	` '
	Frequency	Meas	Meas Meas	Meas Meas Corr'd	Meas Meas Corr'd Limit

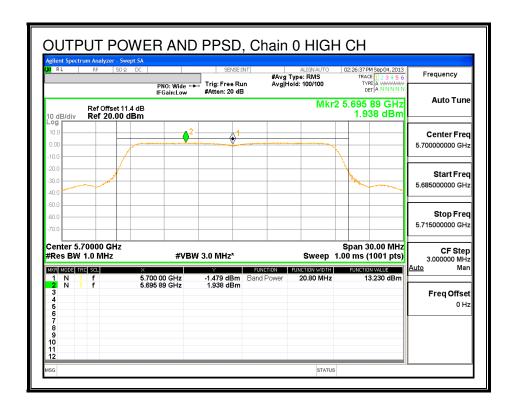
PPSD Results

FFOD Headits							
Channel	Frequency	Chain 0	Chain 1	Total	PPSD	PPSD	
		Meas	Meas	Corr'd	Limit	Margin	
		PPSD	PPSD	PPSD			
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	
Low	(MHz) 5500	(dBm) 2.83	(dBm) 2.54	(dBm) 5.70	(dBm) 10.16	(dB) -4.46	
Low Mid	` ,	,	,	, ,	,	. ,	

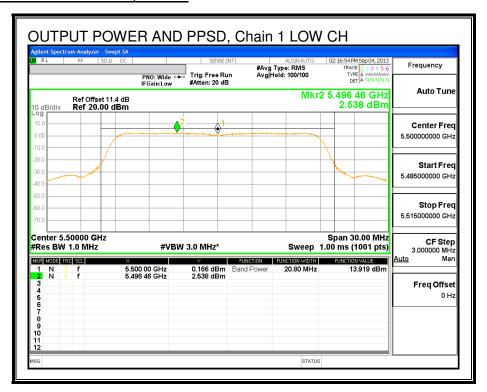
OUTPUT POWER AND PPSD, Chain 0

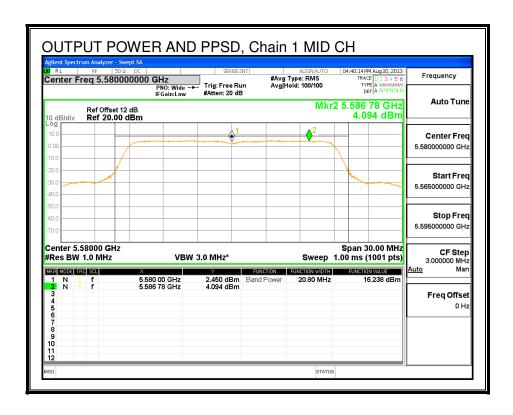


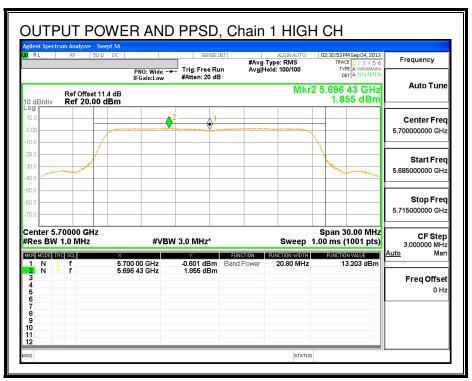




OUTPUT POWER AND PPSD, Chain 1







8.13. 802.11n HT20 2TX STBC MODE IN THE 5.6 GHz BAND

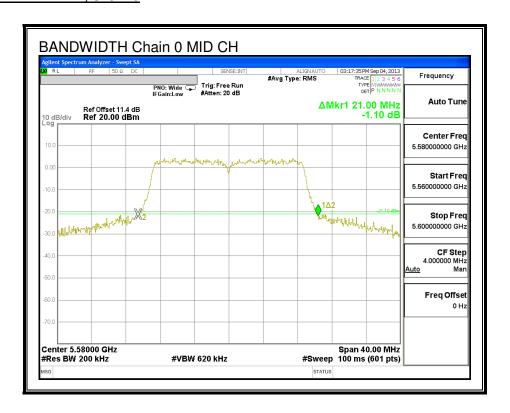
8.13.1. 26 dB BANDWIDTH

LIMITS

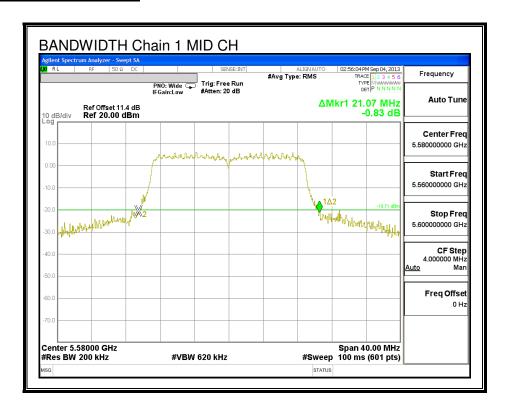
None; for reporting purposes only.

Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5580	21.00	21.07

26 dB BANDWIDTH, Chain 0



26 dB BANDWIDTH, Chain 1



8.13.2. 99% BANDWIDTH

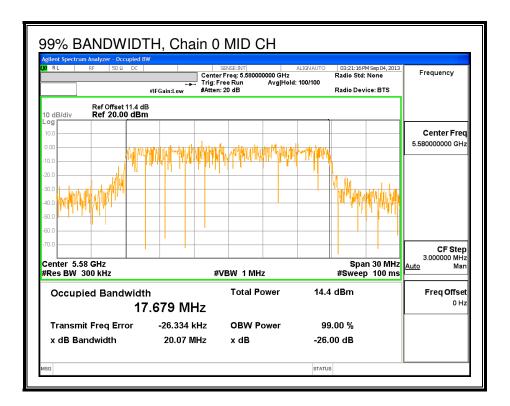
LIMITS

None; for reporting purposes only.

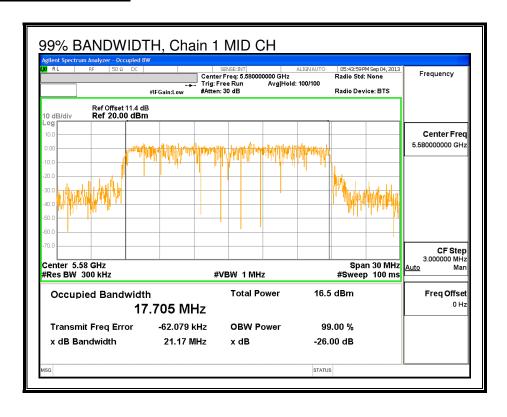
Channel	Channel Frequency		99% BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Mid	5580	17.6790	17.7050

99% BANDWIDTH

99% BANDWIDTH, Chain 0



99% BANDWIDTH, Chain 1



8.13.3. **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 12 dB (including 10 dB pad and 2 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Average Power Results

Channel	Frequency	Chain 0 Chain 1		Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Mid	5580	16.50	16.42	19.47

8.13.4. OUTPUT POWER AND PPSD

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

For output power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.66	3.99	3.83

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

Chain 0	Chain 1	Correlated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.66	3.99	6.84

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency	Min	Uncorre
		26 dB	Directio
		BW	Gain
	(MHz)	(MHz)	(dBi)
Mid	5580	21.00	3.83

Limits

Channel	Frequency	FCC	FCC
		Power	PPSD
		Limit	Limit
	(MHz)	(dBm)	(dBm)
Mid	5580	24.00	11.00

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

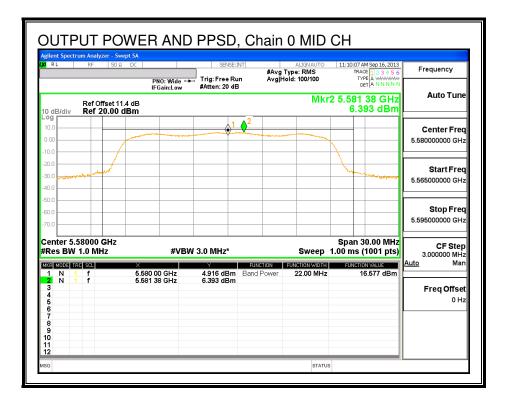
Output Power Results

Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margi
						n
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5580	16.58	16.50	19.55	24.00	-4.45

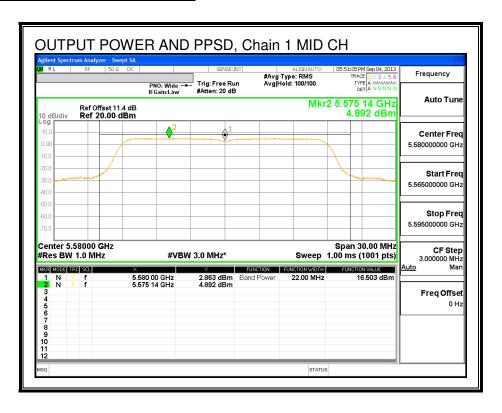
PPSD Results

_							
ı	Channel	Frequency	Chain 0	Chain 1	Total	PPSD	PPSD
			Meas	Meas	Corr'd	Limit	Margi
							n
			PPSD	PPSD	PPSD		
ı		(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
	Mid	5580	6.39	4.89	8.72	11.00	-2.28

OUTPUT POWER AND PPSD, Chain 0



OUTPUT POWER AND PPSD, Chain 1



8.14. 802.11n HT40 SISO MODE IN THE 5.6 GHz BAND

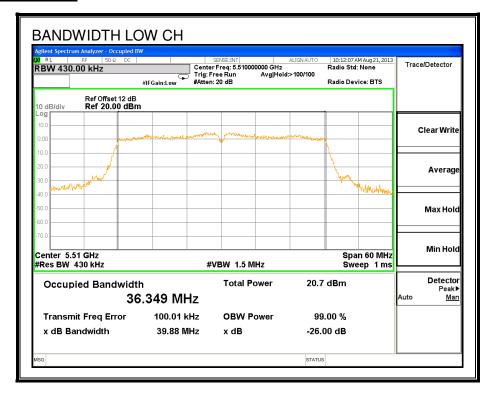
8.14.1. 26 dB BANDWIDTH

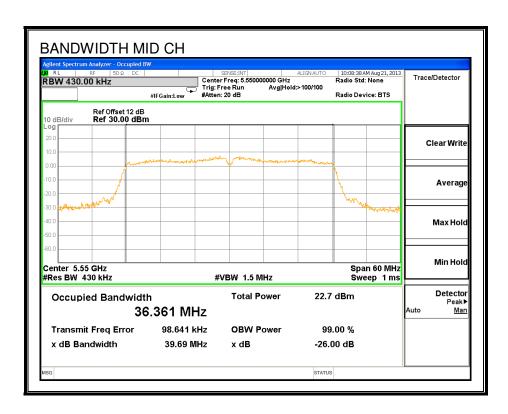
LIMITS

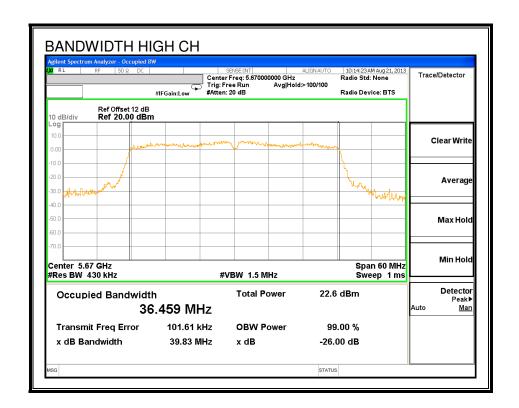
None; for reporting purposes only.

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5510	39.88
Mid	5550	39.69
High	5670	39.83

26 dB BANDWIDTH







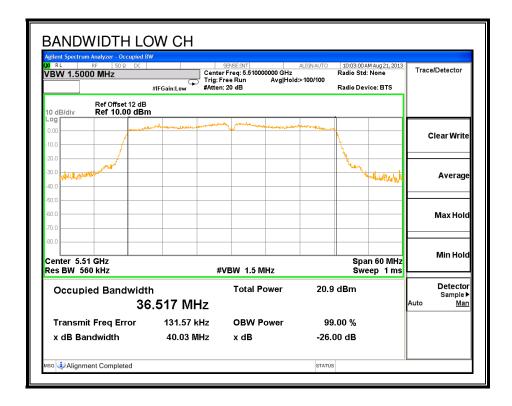
8.14.2. 99% BANDWIDTH

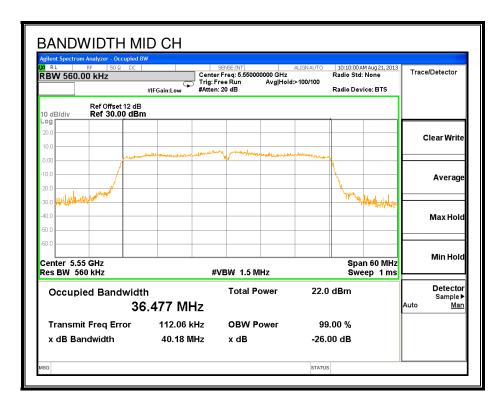
LIMITS

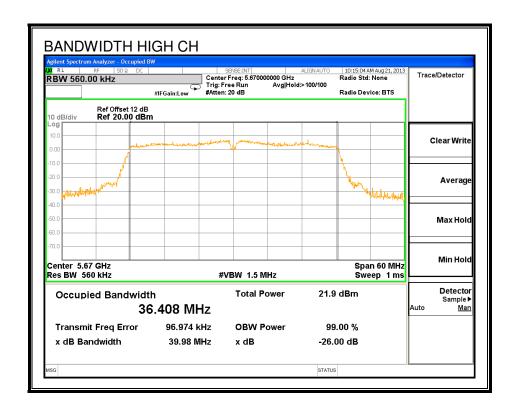
None; for reporting purposes only.

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5510	36.52
Mid	5550	36.48
High	5670	36.41

99% BANDWIDTH







8.14.3. **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 12 dB (including 10 dB pad and 2 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5510	13.90
Mid	5550	16.40
High	5670	15.80

8.14.4. OUTPUT POWER AND PPSD

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.

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency	Min	Directio
		26 dB	Gain
		BW	
	(MHz)	(MHz)	(dBi)
Low	5510	39.9	3.66
Mid	5550	39.7	3.66
High	5670	39.8	3.66

Limits

Channel	Frequency	FCC	FCC	
		Power	PPSD	
		Limit	Limit	
	(MHz)	(dBm)	(dBm)	
Low	5510	24.00	11.00	
Mid	5550	24.00	11.00	
High	5670	24.00	11.00	

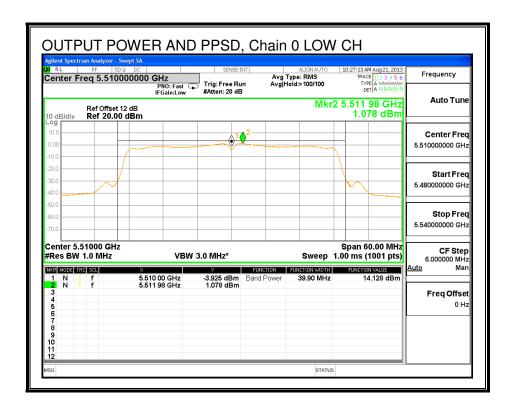
Output Power Results

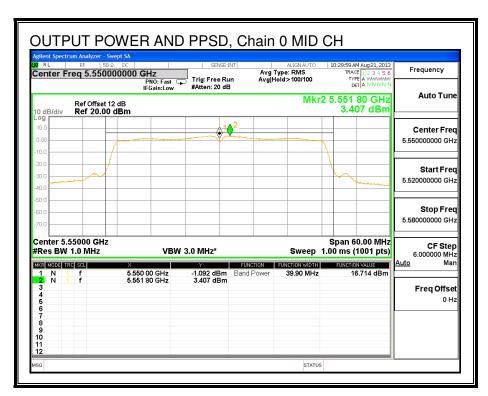
Channel	Frequency	Chain 0	Total	Power	Power	
		Meas	Corr'd	Limit	Margin	
		Power	Power			
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)	
Low	5510	14.13	14.13	24.00	-9.87	
Mid	5550	16.71	16.71	24.00	-7.29	
High	5670	16.05	16.05	24.00	-7.95	

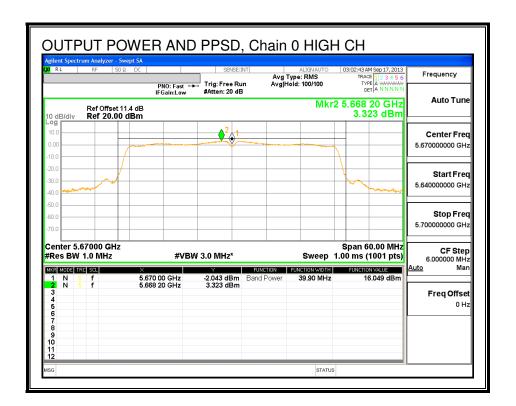
PPSD Results

Channel	Frequency	Chain 0	Total	PPSD	PPSD		
		Meas	Corr'd	Limit	Margin		
		PPSD	PPSD				
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)		
Low	5510	1.08	1.08	11.00	-9.92		
Mid	5550	3.41	3.41	11.00	-7.59		
High	5670	3.32	3.32	11.00	-7.68		

OUTPUT POWER AND PPSD, Chain 0







8.15. 802.11n HT40 2TX CDD MODE IN THE 5.6 GHz BAND

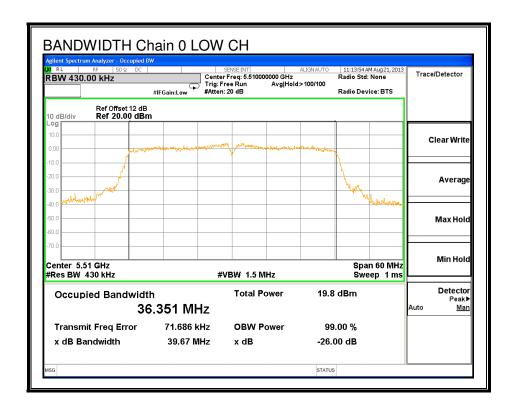
8.15.1. 26 dB BANDWIDTH

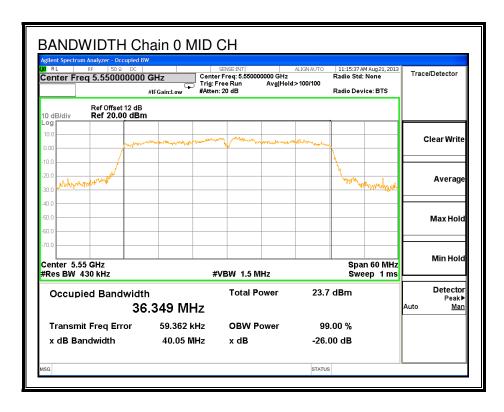
LIMITS

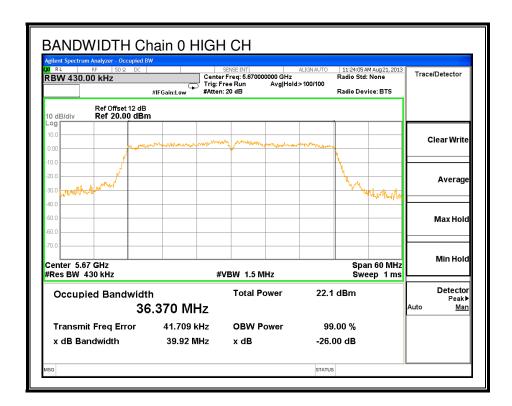
None; for reporting purposes only.

Channel	Frequency	26 dB BW	26 dB BW
		Chain 0	Chain 1
	(MHz)	(MHz)	(MHz)
Low	5510	39.67	39.20
Mid	5550	40.05	39.18
High	5670	39.92	39.35

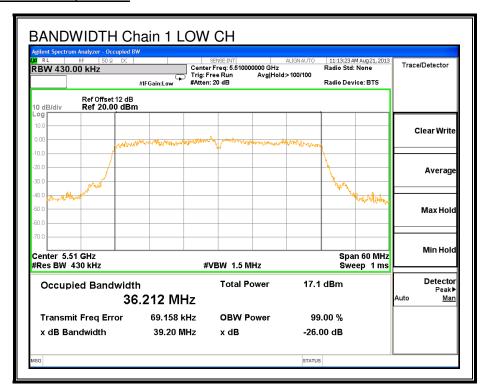
26 dB BANDWIDTH, Chain 0

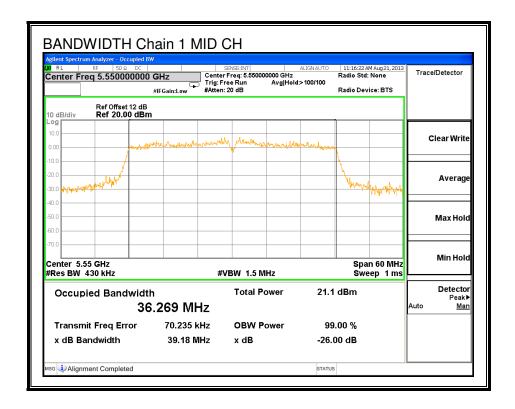


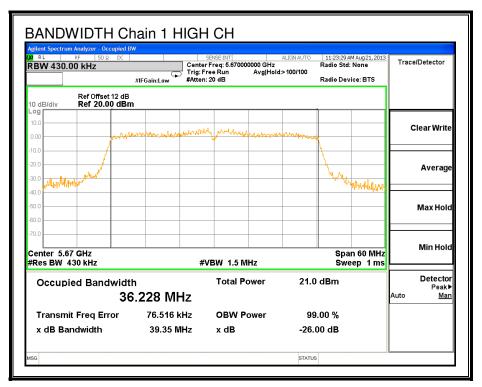




26 dB BANDWIDTH, Chain 1







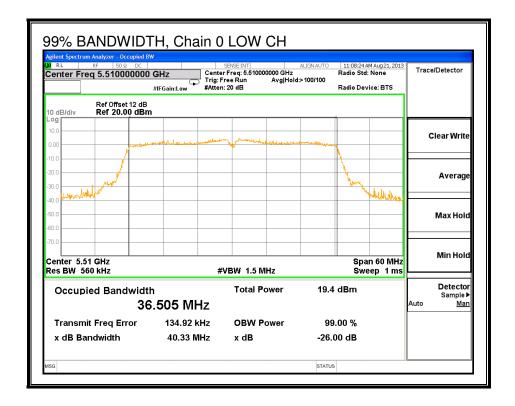
8.15.2. 99% BANDWIDTH

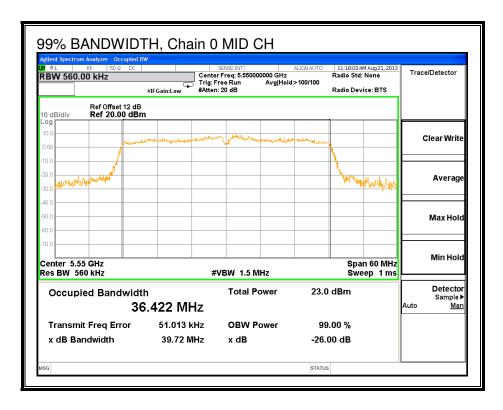
LIMITS

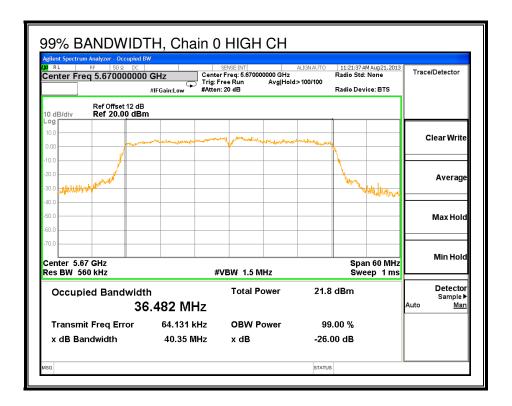
None; for reporting purposes only.

Channel	hannel Frequency		99% BW	
		Chain 0	Chain 1	
	(MHz)	(MHz)	(MHz)	
Low	5510	36.51	36.33	
Mid	5550	36.42	36.26	
High	5670	36.48	36.29	

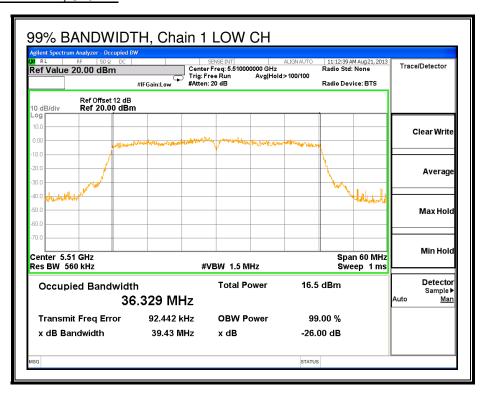
99% BANDWIDTH, Chain 0

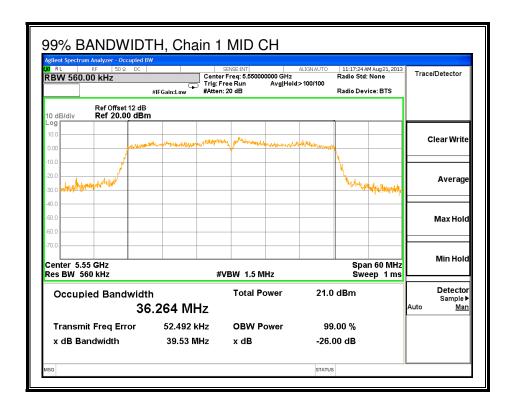


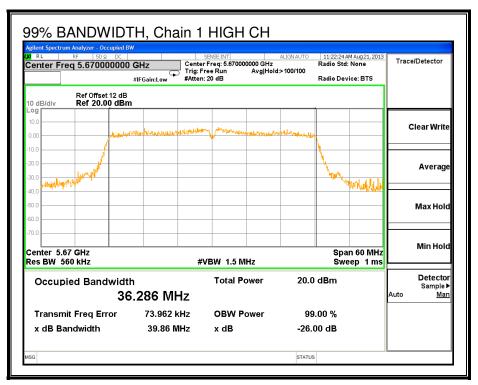




99% BANDWIDTH, Chain 1







8.15.3. 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 12 dB (including 10 dB pad and 2 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Average Power Results

Channel	Frequency	Chain 0	Chain 1	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5510	11.99	11.81	14.91
Mid	5550	16.39	16.35	19.38
High	5670	15.50	15.38	18.45

FCC ID: BCGA1474

OUTPUT POWER AND PPSD 8.15.4.

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

For output power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0	Chain 1	Uncorrelated Chains
Antenna	Antenna	Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
3.66	3.99	3.83

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

	Chain 0	Chain 1	Correlated Chains
	Antenna	Antenna	Directional
Gain Gair		Gain	Gain
	(dBi)	(dBi)	(dBi)
	3.66	3.99	6.84

DATE: DECEMBER 02, 2015

RESULTS

Bandwidth and Antenna Gain

Channel	Frequency	Min	Uncorre	Correlated
		26 dB	Directio	Directional
		BW	nal Gain	Gain
				5.5
	(MHz)	(MHz)	(dBi)	(dBi)
Low	5510	39.2	3.83	6.84
Mid	5550	39.2	3.83	6.84
High	5670	39.4	3.83	6.84

Limits

Channel	Frequency	FCC	FCC	
		Power	PPSD	
		Limit	Limit	
	(MHz)	(dBm)	(dBm)	
Low	5510	24.00	10.16	
Mid	5550	24.00	10.16	
High	5670	24.00	10.16	

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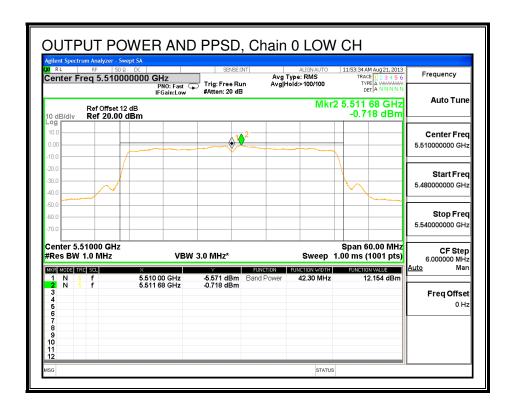
Output Power Results

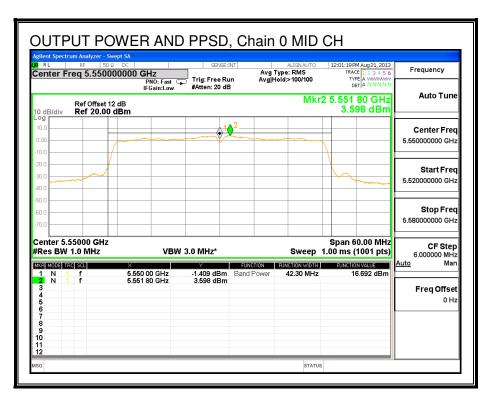
Channel	Frequency	Chain 0	Chain 1	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margi
						n
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	12.15	12.07	15.12	24.00	-8.88
Mid	5550	16.69	16.58	19.65	24.00	-4.35
High	5670	15.74	15.63	18.70	24.00	-5.30

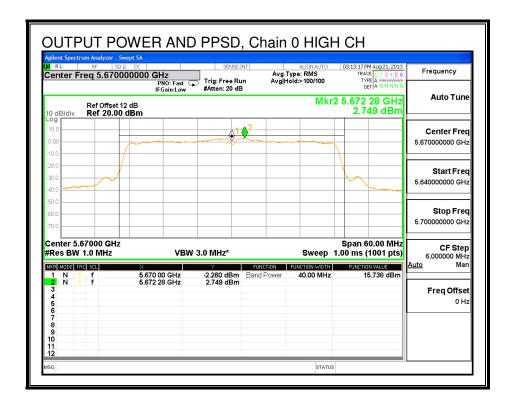
PPSD Results

Channel	Frequency	Chain 0	Chain 1	Total	PPSD	PPSD
		Meas	Meas	Corr'd	Limit	Margi
						n
		PPSD	PPSD	PPSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	-0.72	-0.71	2.30	10.16	-7.86
Mid	5550	3.60	3.67	6.64	10.16	-3.52
High	5670	2.75	2.99	5.88	10.16	-4.28

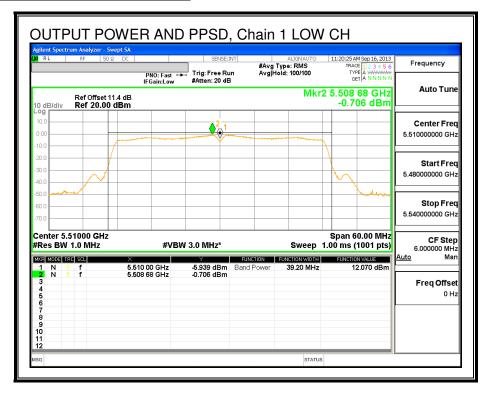
OUTPUT POWER AND PPSD, Chain 0

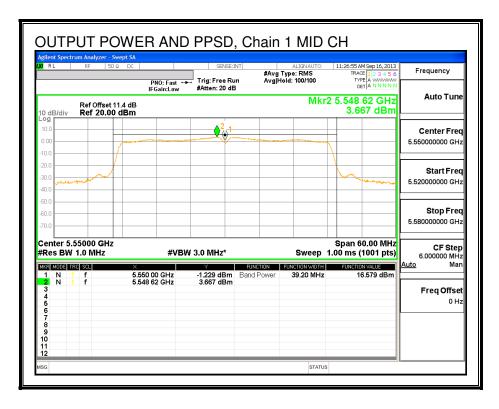


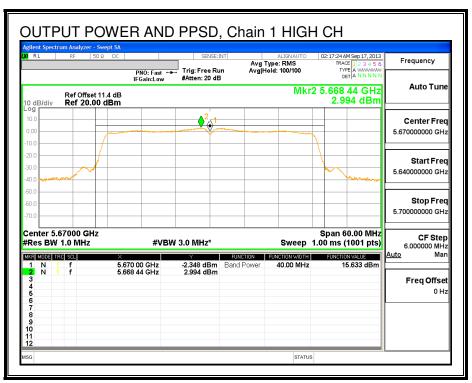




OUTPUT POWER AND PPSD, Chain 1







9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

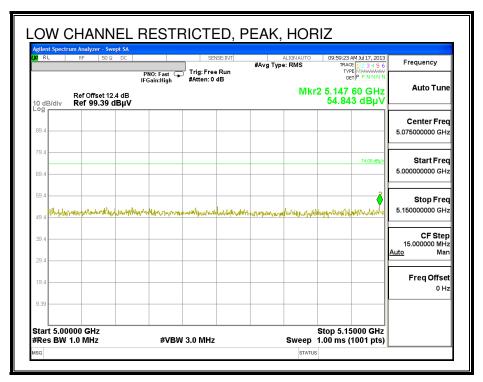
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

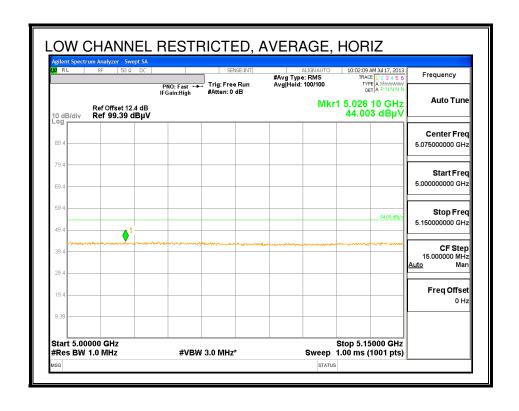
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

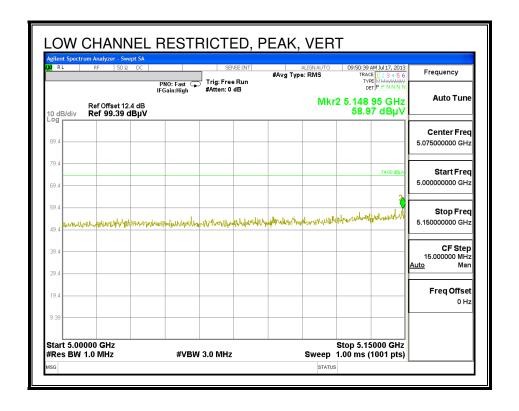
9.2. TRANSMITTER ABOVE 1 GHz

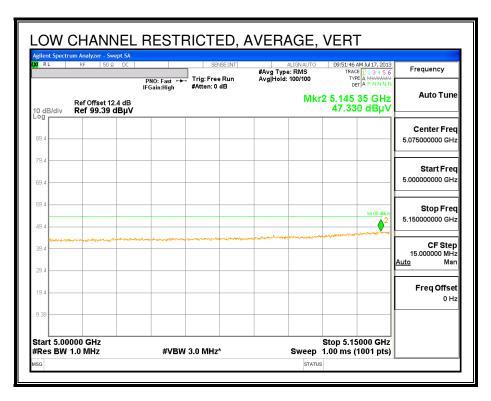
9.2.1. 802.11a SISO MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



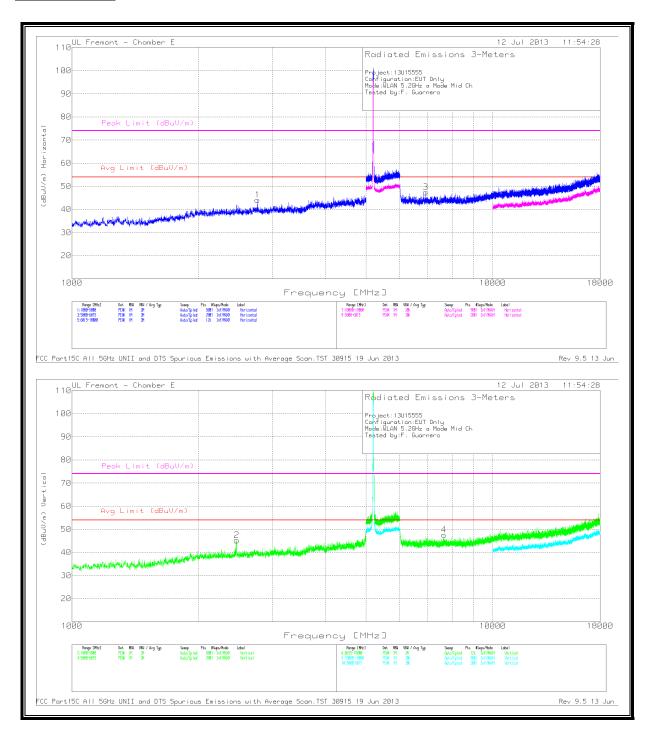






HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



FCC ID: BCGA1474

Trace Markers

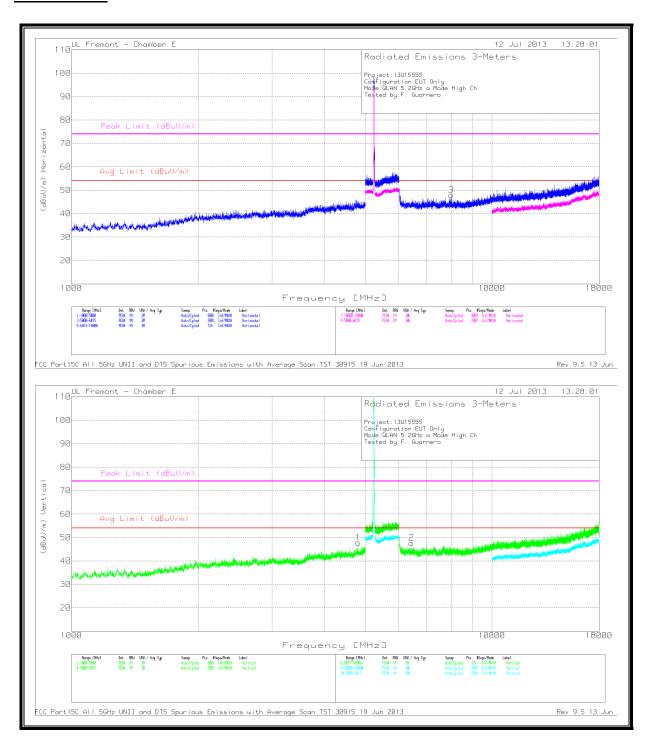
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl 5GHz LPF dB	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
1	2.76	43.8	PK	33.2	-32.9	44.1	53.97	-9.87	74	-29.9	199	Н
3	6.934	41.02	PK	35.9	-29.5	47.42	53.97	-6.55	74	-26.58	199	Н

PK - Peak detector

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
2	2.464	45.71	PK	32.7	-33.2	45.21	53.97	-8.76	74	-28.79	199	V
4	7.661	39.97	PK	36.2	-28.6	47.57	53.97	-6.4	74	-26.43	199	V

PK - Peak detector

MID CHANNEL



FCC ID: BCGA1474

Trace Markers

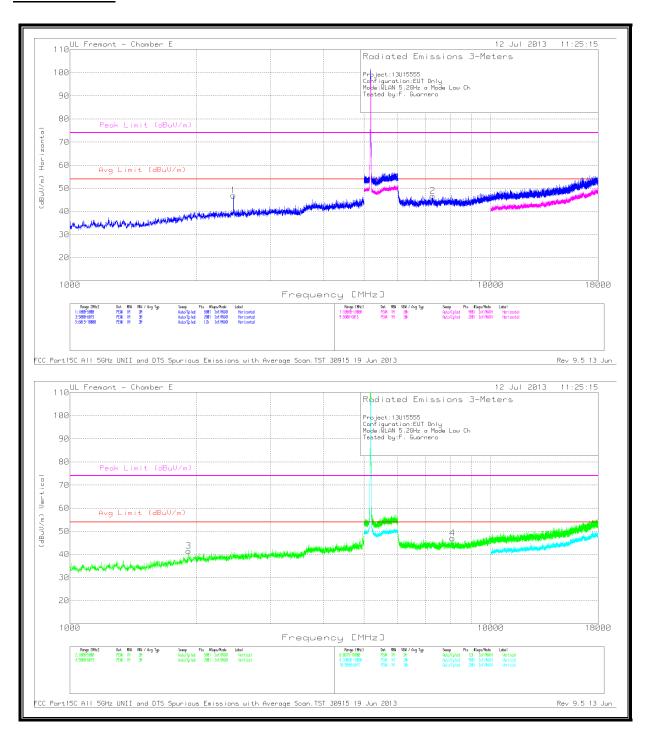
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
3	8.005	40.4	PK	36.2	-28.7	47.9	53.97	-6.07	74	-26.1	199	Н

PK - Peak detector

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl 5GHz LPF dB	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
1	4.804	44.3	PK	34.4	-30.9	47.8	53.97	-6.17	74	-26.2	199	V
2	6.438	42.23	PK	35.8	-30.4	47.63	53.97	-6.34	74	-26.37	199	V

PK - Peak detector

HIGH CHANNEL



FCC ID: BCGA1474

Trace Markers

	Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl 5GHz LPF dB	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
Г	1	2.446	47.67	PK	32.6	-33.4	46.87	53.97	-7.1	74	-27.13	199	Н
	2	7.28	39.54	PK	36	-28.8	46.74	53.97	-7.23	74	-27.26	199	Н

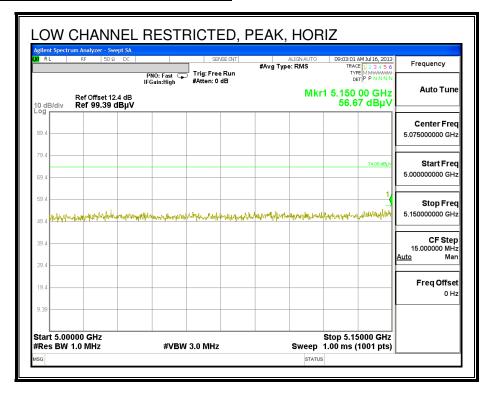
PK - Peak detector

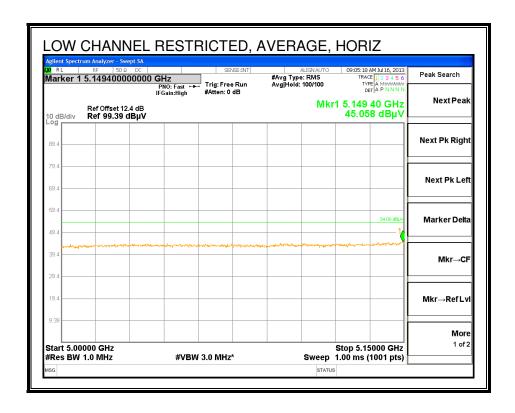
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
3	1.914	43.81	PK	31.5	-33.8	41.51	53.97	-12.46	74	-32.49	199	V
4	8.111	39.38	PK	36.2	-28.6	46.98	53.97	-6.99	74	-27.02	199	V

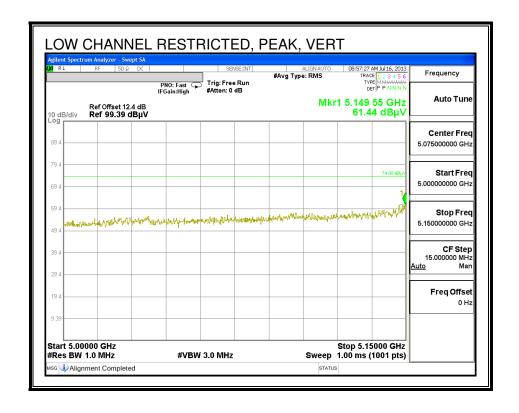
PK - Peak detector

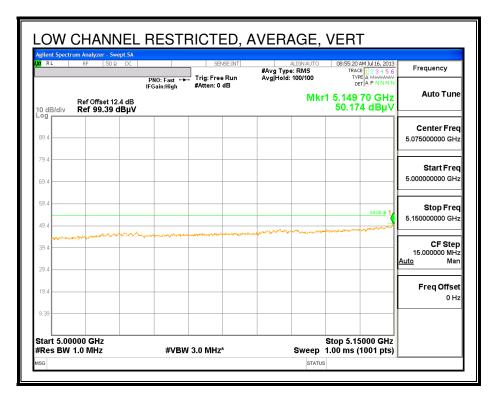
9.2.2. 802.11n HT20 2TX CDD MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



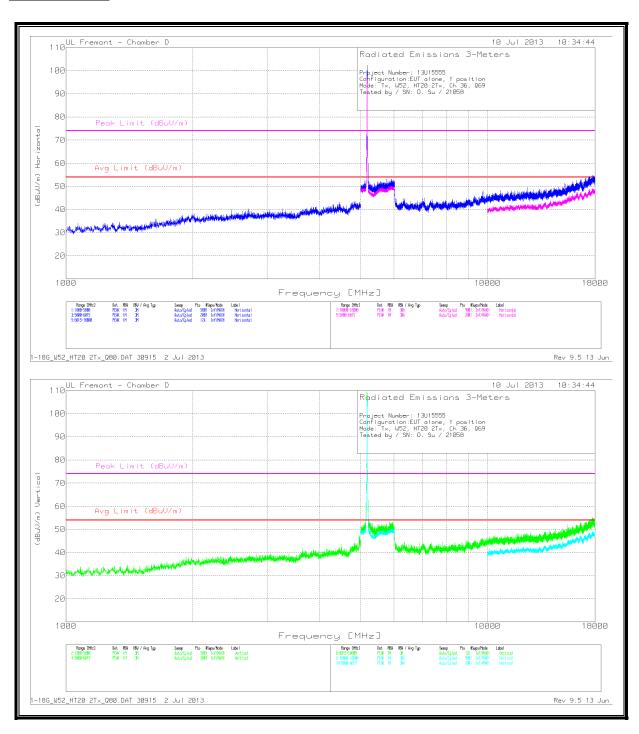






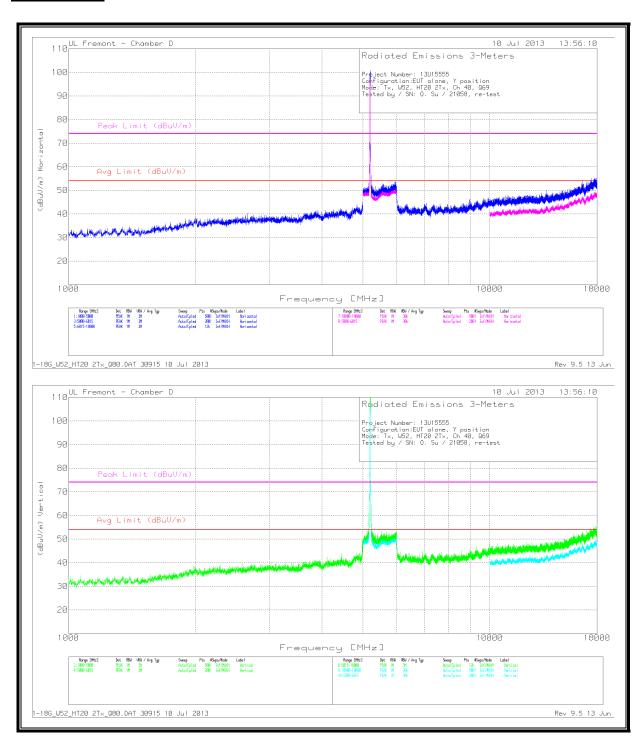
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



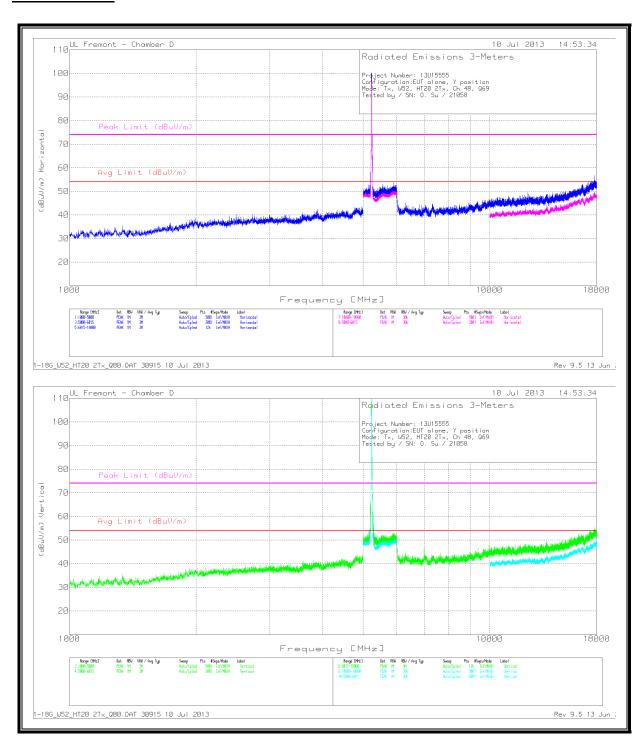
1-18G_W52_HT20 2Tx_Q80.DAT 30915 2 Jul 2013Rev 9.5 13 Jun 2013

MID CHANNEL



1-18G_W52_HT20 2Tx_Q80.DAT 30915 10 Jul 2013Rev 9.5 13 Jun 2013

HIGH CHANNEL



1-18G_W52_HT20 2Tx_Q80.DAT 30915 10 Jul 2013Rev 9.5 13 Jun 2013

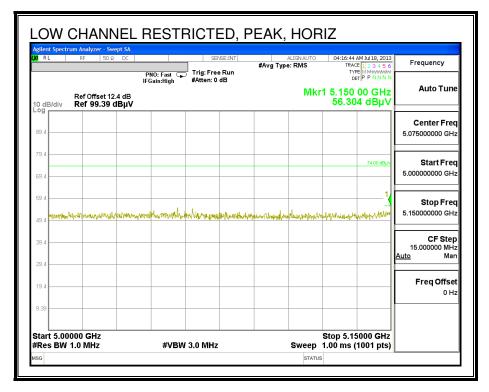
REPORT NO: 15U21850-E29V2 DATE: DECEMBER 02, 2015 FCC ID: BCGA1474

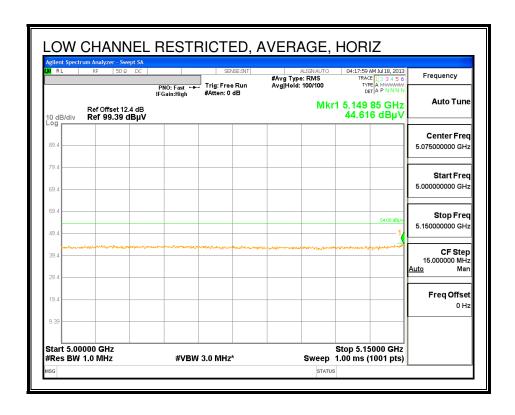
9.2.3. 802.11n HT20 2TX STBC MODE IN THE 5.2 GHz BAND

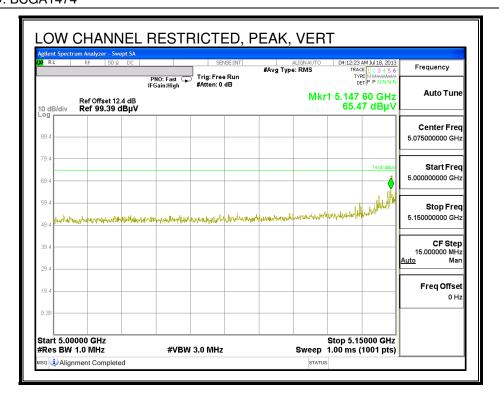
Covered by testing 11n HT20 CDD 2TX in the 5.2GHz band, total power across the two chains is higher than the power level the device will operate at.

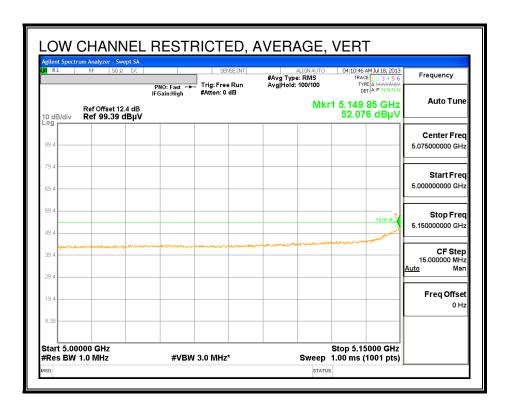
9.2.4. 802.11n HT40 SISO MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



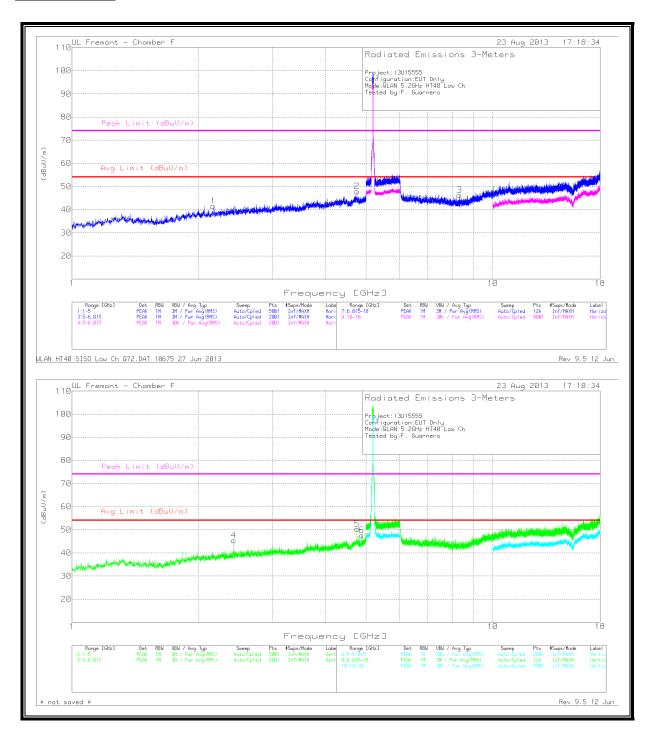






HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



REPORT NO: 15U21850-E29V2 DATE: DECEMBER 02, 2015 FCC ID: BCGA1474

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.166	40.81	PK	31.7	-31	41.51	53.97	-12.46	74	-32.49	0-360	201	Н
2	4.758	41.5	PK	34.1	-27.7	47.9	53.97	-6.07	74	-26.1	0-360	100	Н
3	8.337	37.3	PK	36	-27.1	46.2	53.97	-7.77	74	-27.8	0-360	101	Н
4	2.425	44.13	PK	32.2	-30.9	45.43	53.97	-8.54	74	-28.57	0-360	199	٧
5	4.758	43.88	PK	34.1	-27.7	50.28	53.97	-3.69	74	-23.72	0-360	100	V
6	4.881	41.49	PK	34	-27.9	47.59	53.97	-6.38	74	-26.41	0-360	199	V

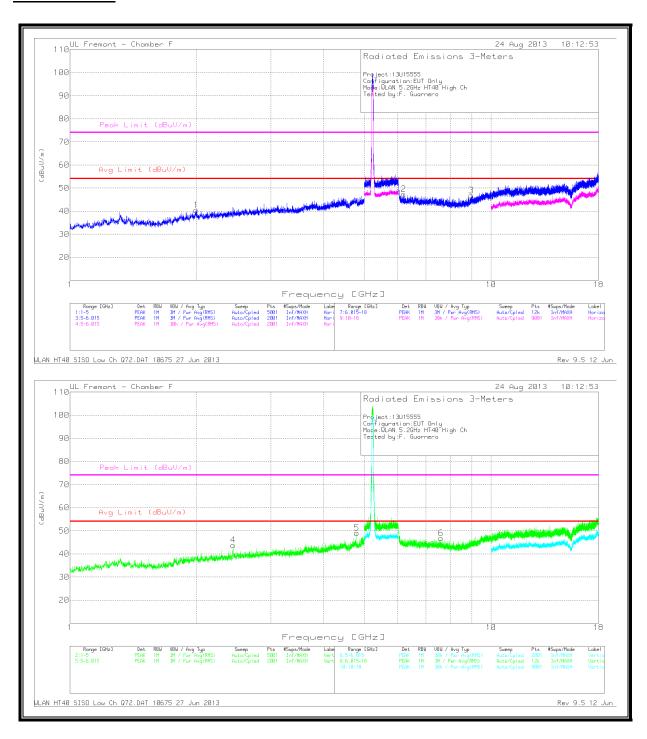
PK - Peak detector Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fl tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.757	40.46	AV	34.1	-27.7	46.86	53.97	-7.11	74		222	275	V

AV - Average Detection

^{*} not saved * Rev 9.5 12 Jun 2013

HIGH CHANNEL



FCC ID: BCGA1474

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.994	39.98	PK	31.6	-31.2	40.38	53.97	-13.59	74	-33.62	0-360	199	Н
2	6.198	38.88	PK	35.5	-27.1	47.28	53.97	-6.69	74	-26.72	0-360	199	Н
3	8.979	35.78	PK	36.3	-25.3	46.78	53.97	-7.19	74	-27.22	0-360	100	Н
4	2.44	42.53	PK	32.3	-31	43.83	53.97	-10.14	74	-30.17	0-360	100	V
5	4.795	43.11	PK	34.1	-28.2	49.01	53.97	-4.96	74	-24.99	0-360	201	V
6	7.605	37.31	PK	35.9	-26.4	46.81	53.97	-7.16	74	-27.19	0-360	200	V

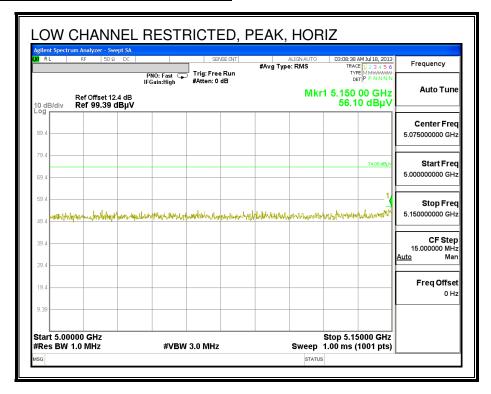
PK - Peak detector Radiated Emissions

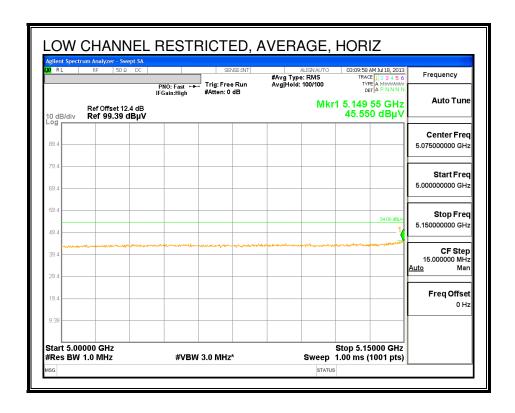
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fl tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4.794	39.92	ΑV	34.1	-28.1	45.92	53.97	-8.05	74		236	275	V

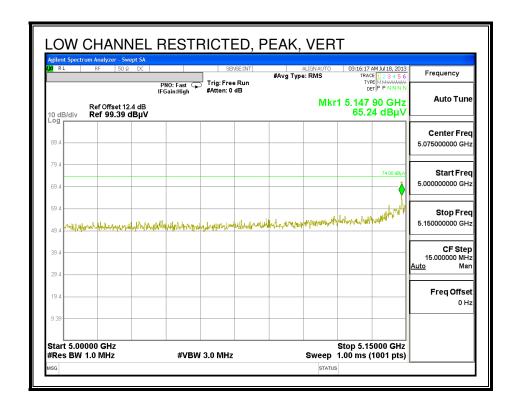
AV - Average detection

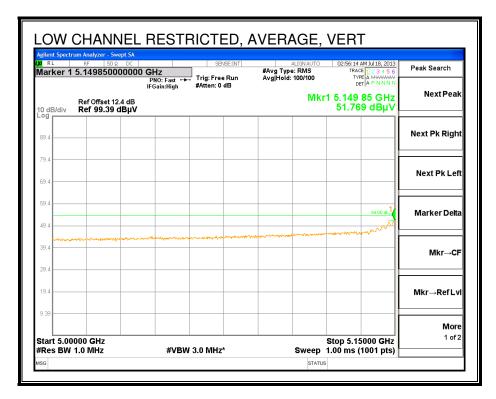
9.2.5. 802.11n HT40 2TX CDD MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



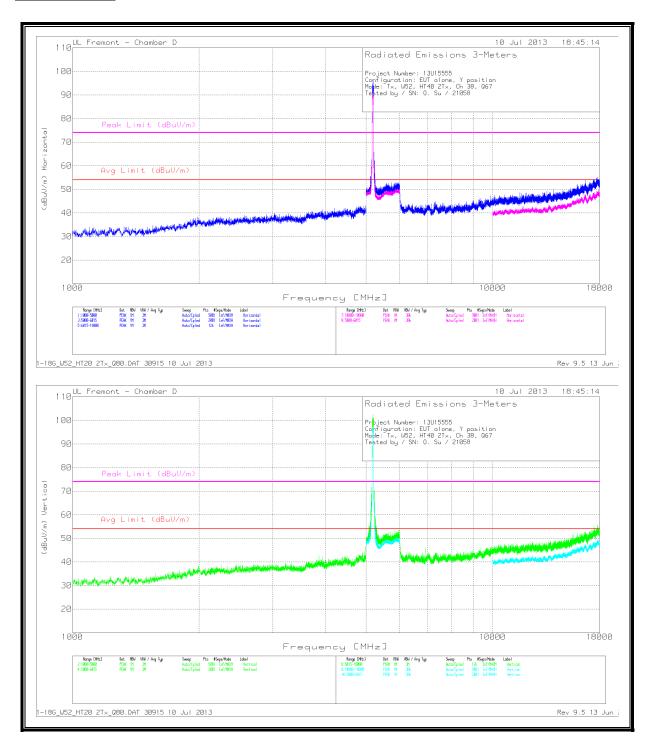






HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



REPORT NO: 15U21850-E29V2 DATE: DECEMBER 02, 2015 FCC ID: BCGA1474

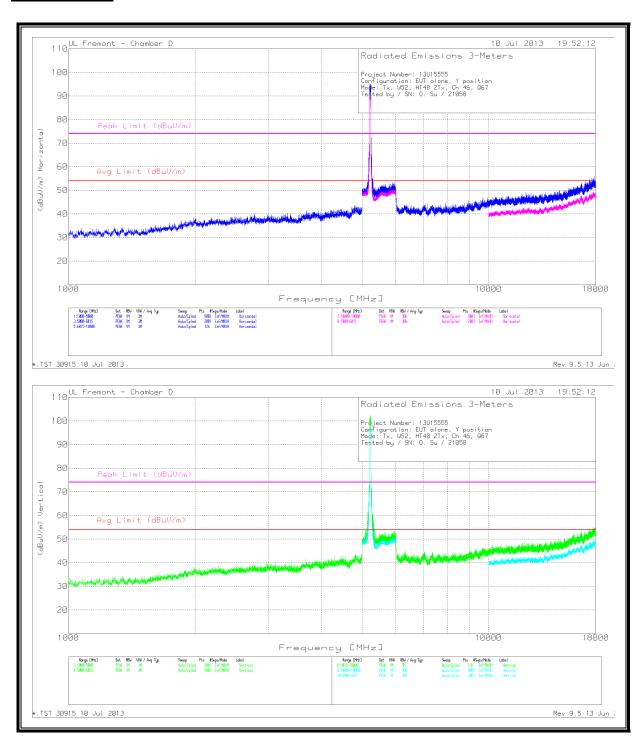
Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
5.082	42.9	PK	34.5	-21.9	55.5	-	-	74	-18.5	201	V
5.082	16.75	Αv	34.5	-21.9	29.35	53.97	-24.62	74		209	V

PK - Peak detector Av - average detection

1-18G_W52_HT40 2Tx_Q67.DAT 30915 10 Jul 2013Rev 9.5 13 Jun 2013

HIGH CHANNEL



*.TST 30915 10 Jul 2013Rev 9.5 13 Jun 2013

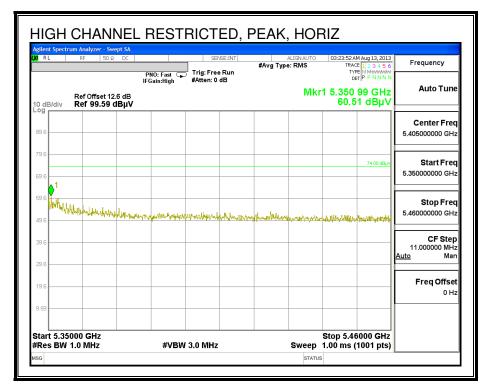
FCC ID: BCGA1474

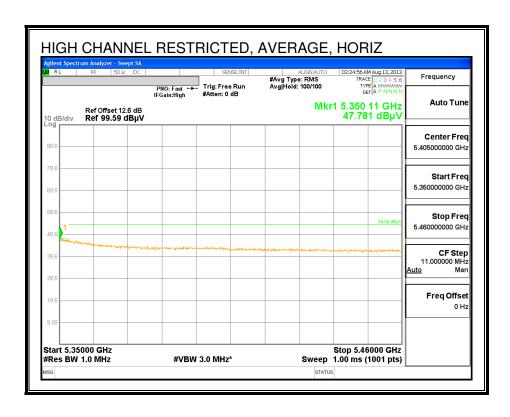
9.2.6. 802.11n HT40 2TX STBC MODE IN THE 5.2 GHz BAND

Covered by testing 11n HT40 CDD 2TX in the 5.2GHz band, total power across the two chains is higher than the power level the device will operate at.

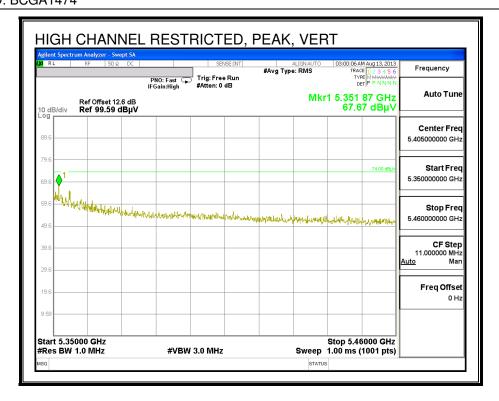
9.2.7. 802.11a SISO MODE IN THE 5.3 GHz BAND

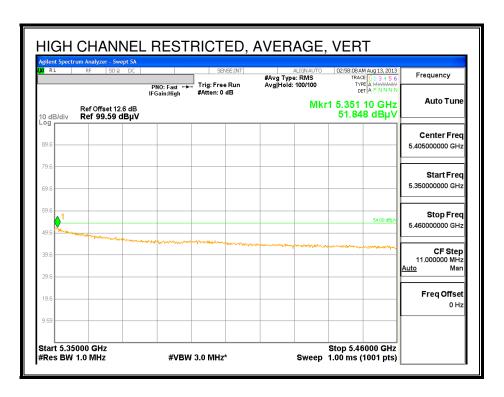
RESTRICTED BANDEDGE (HIGH CHANNEL)





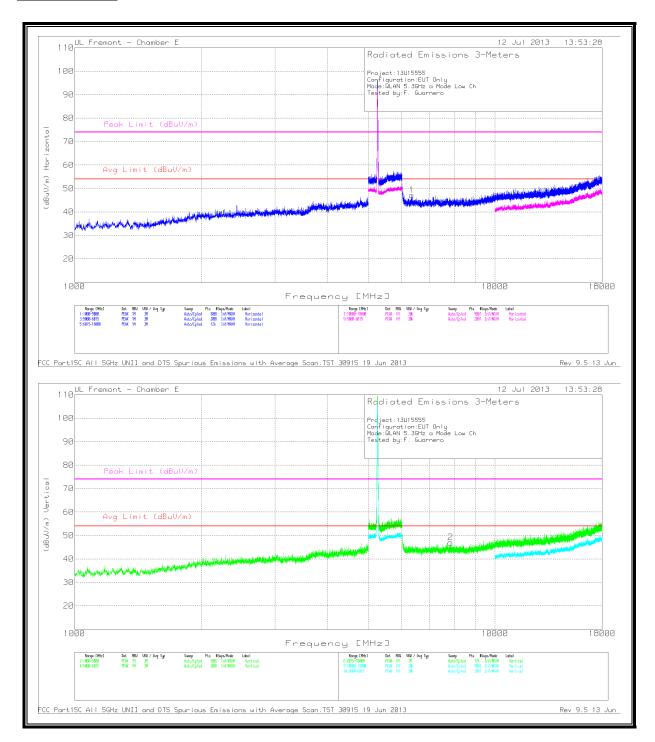
REPORT NO: 15U21850-E29V2 FCC ID: BCGA1474





HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



FCC ID: BCGA1474

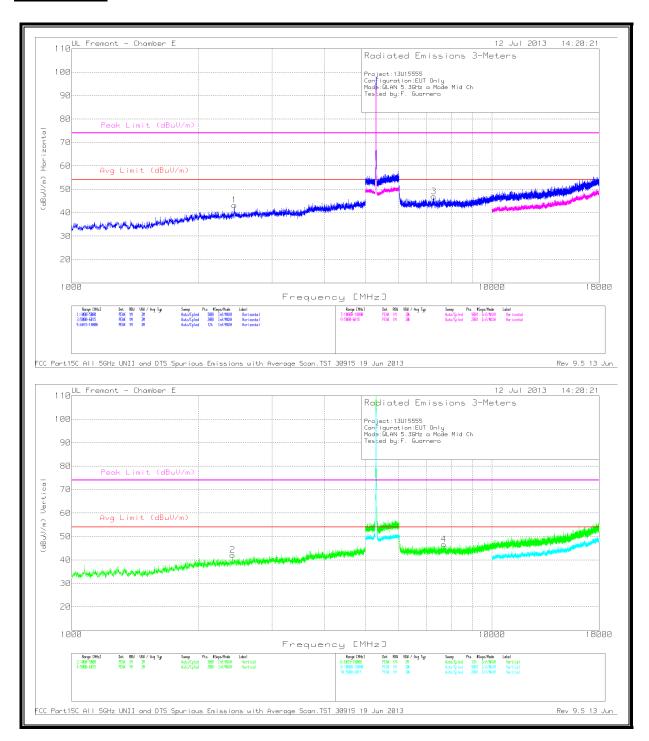
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
1	6.342	40.45	PK	35.9	-29.2	47.15	53.97	-6.82	74	-26.85	199	Н

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
2	7.844	39.58	PK	36.2	-28.8	46.98	53.97	-6.99	74	-27.02	199	V

PK - Peak detector

MID CHANNEL



FCC ID: BCGA1474

	Trace	e Marke	ers								
ı	Marker	Frequency	Meter	Det	AF T346	Amp/Cbl	Corrected	Avg Limit	Margin	Peak Limit	Margin

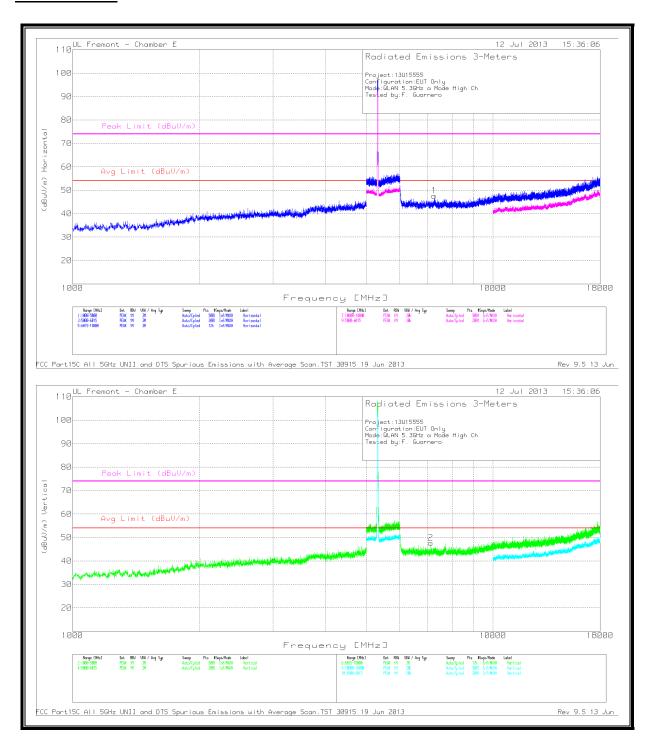
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl 5GHz LPF dB	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
1	2.441	44	PK	32.6	-33.4	43.2	53.97	-10.77	74	-30.8	199	Н
3	7.275	39.8	PK	36	-28.9	46.9	53.97	-7.07	74	-27.1	199	Н

PK - Peak detector

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
2	2.417	43.2	PK	32.6	-33.7	42.1	53.97	-11.87	74	-31.9	199	V
4	7.689	39.16	PK	36.2	-28.7	46.66	53.97	-7.31	74	-27.34	199	V

PK - Peak detector

HIGH CHANNEL



FCC ID: BCGA1474

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
1	7.248	40.82	PK	36	-29.2	47.62	53.97	-6.35	74	-26.38	199	Н

PK - Peak detector

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarity
2	7.116	41.3	PK	36	-29.6	47.7	53.97	-6.27	74	-26.3	199	V

PK - Peak detector