

8.109. 802.11a ANTENNA - A MODE IN THE 5.8 GHz BAND

Note: Covered by 802.11n HT20 ANTENNA A MODE IN THE 5.8 GHz BAND

8.110. 802.11n HT20 ANTENNA - A MODE IN THE 5.8 GHz BAND 8.110.1.6 dB BANDWIDTH

LIMITS

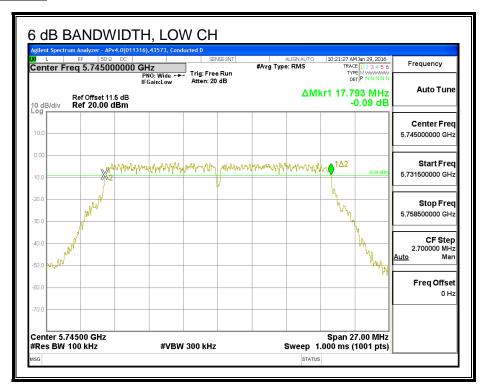
FCC §15.407 (e)

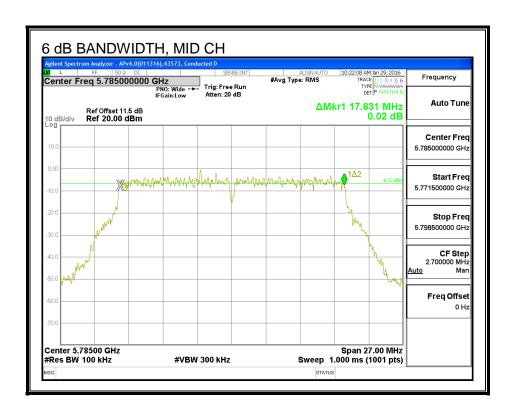
The minimum 6 dB bandwidth shall be at least 500 kHz.

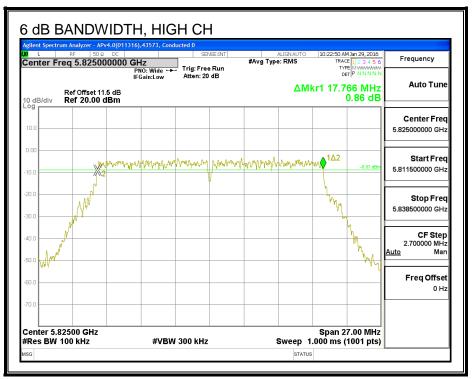
RESULTS

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	17.79	0.5
Mid	5785	17.63	0.5
High	5825	17.77	0.5

6 dB BANDWIDTH







8.110.2.26 dB BANDWIDTH

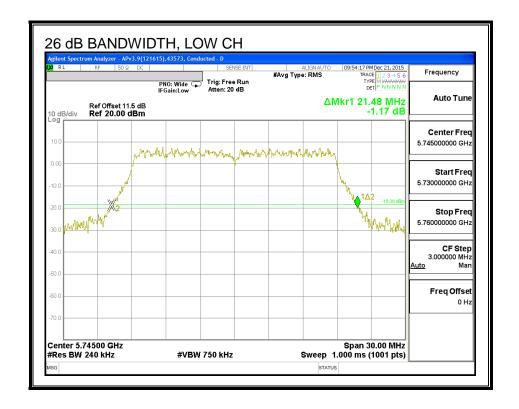
LIMITS

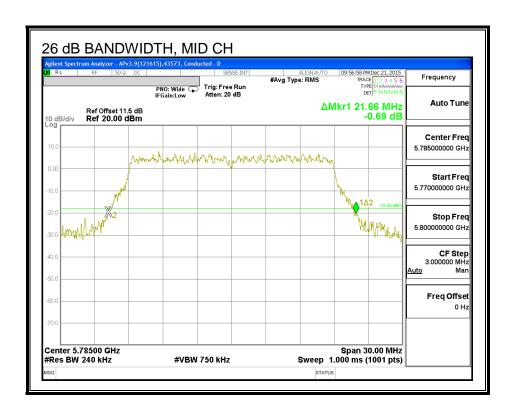
None, for reporting purposes only

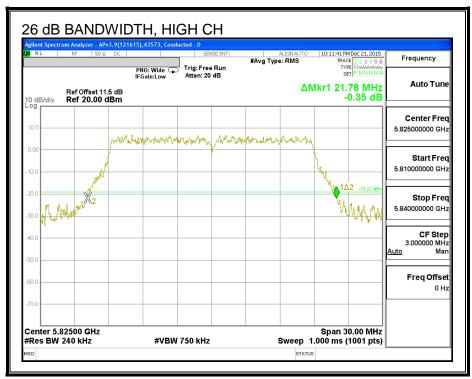
RESULTS

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5745	21.48
Mid	5785	21.66
High	5825	21.78

26 dB BANDWIDTH







8.110.3.99% BANDWIDTH

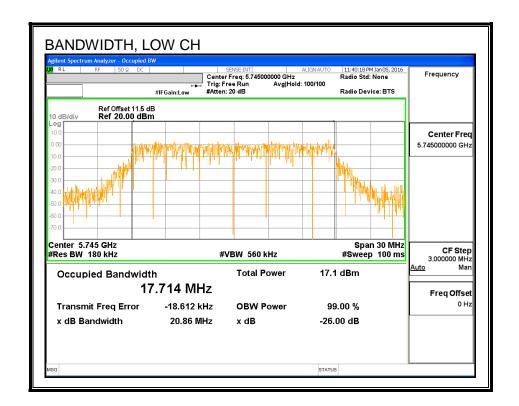
LIMITS

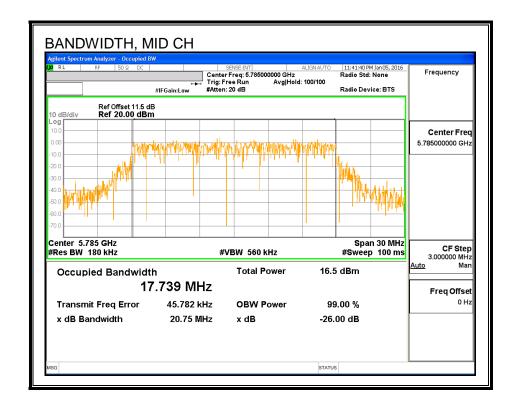
None; for reporting purposes only.

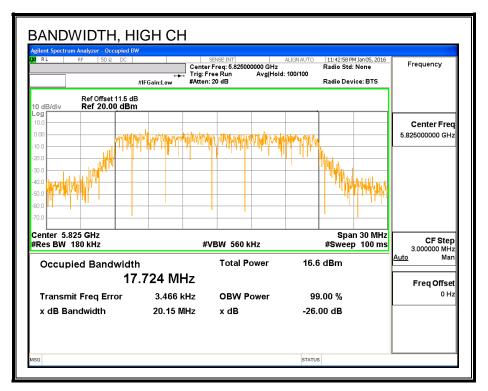
RESULTS

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5745	17.714
Mid	5785	17.739
High	5825	17.724

99% BANDWIDTH







8.110.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5745	15.39
Mid	5785	16.41
High	5825	16.43

8.110.5. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
		for Power	
	(MHz)	(dBi)	(dBm)
Low	5745	4.16	30.00
Mid	5785	4.16	30.00
High	5825	4.16	30.00

Output Power Results

Channel	Frequency	Antenna A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	15.39	15.39	30.00	-14.61
Mid	5785	16.41	16.41	30.00	-13.59
High	5825	16.35	16.35	30.00	-13.65

8.110.6. PSD

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limits

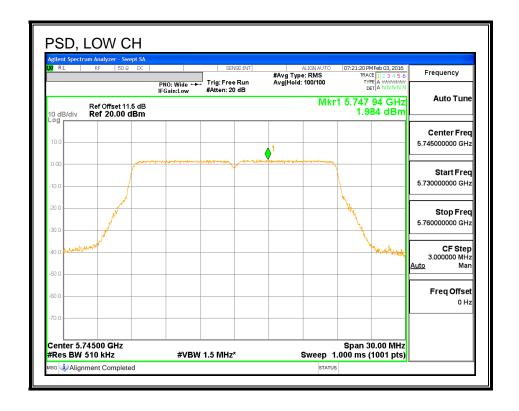
Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5745	4.16	30.00
Mid	5785	4.16	30.00
High	5825	4.16	30.00

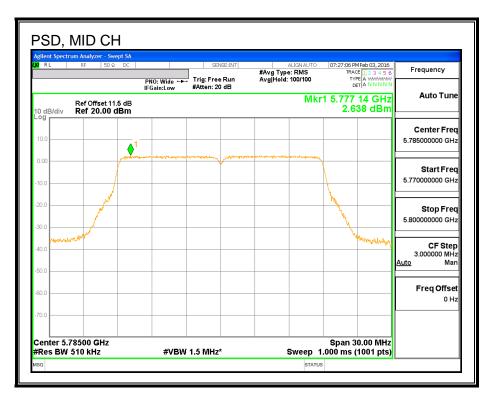
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

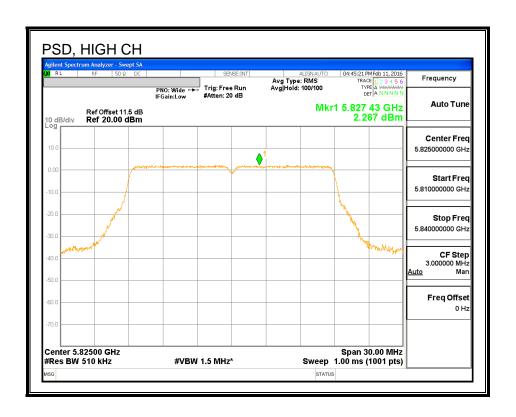
PSD Results

Channel	Frequency	Antenna A	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	1.98	1.98	30.00	-28.02
Mid	5785	2.64	2.64	30.00	-27.36
High	5825	2.27	2.27	30.00	-27.73

<u>PSD</u>







8.111. 802.11a ANTENNA - C MODE IN THE 5.8 GHz BAND

Note: Covered by 802.11n HT20 ANTENNA C MODE IN THE 5.8 GHz BAND

8.112. 802.11n HT20 ANTENNA - C MODE IN THE 5.8 GHz BAND 8.112.1.6 dB BANDWIDTH

LIMITS

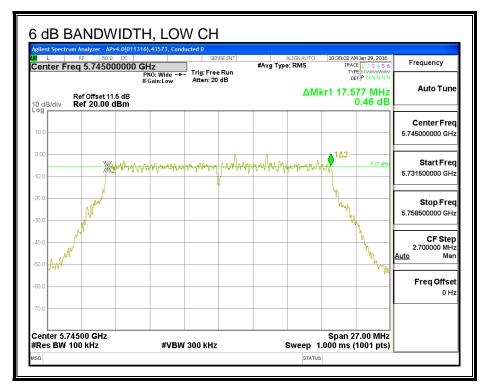
FCC §15.407 (e)

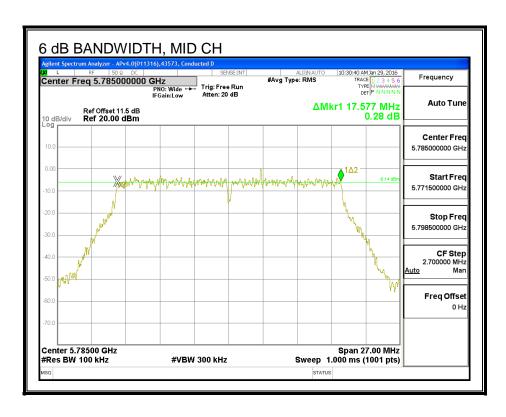
The minimum 6 dB bandwidth shall be at least 500 kHz.

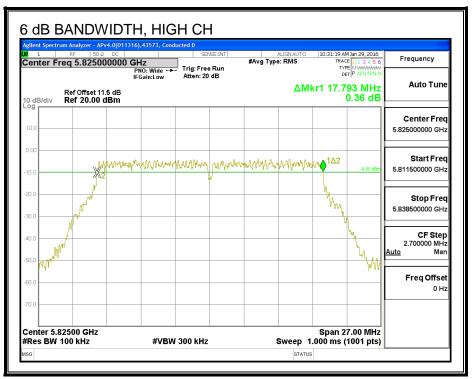
RESULTS

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	17.58	0.5
Mid	5785	17.58	0.5
High	5825	17.79	0.5

6 dB BANDWIDTH







8.112.2.26 dB BANDWIDTH

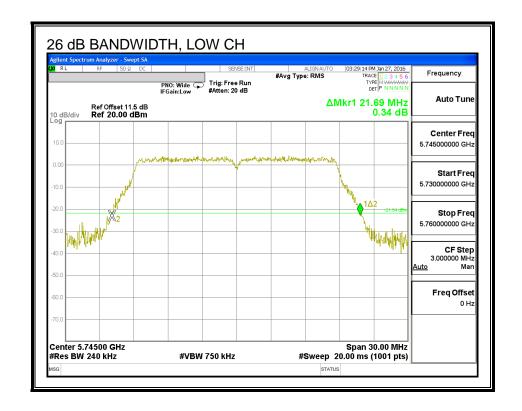
LIMITS

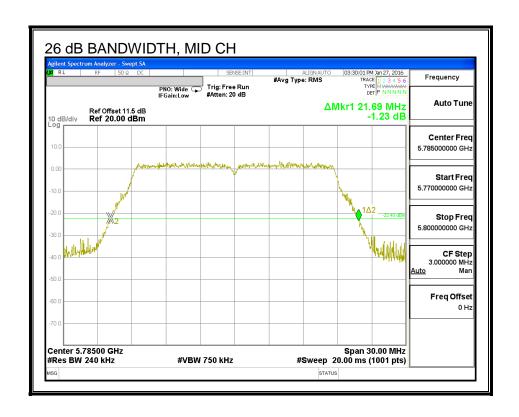
None, for reporting purposes only

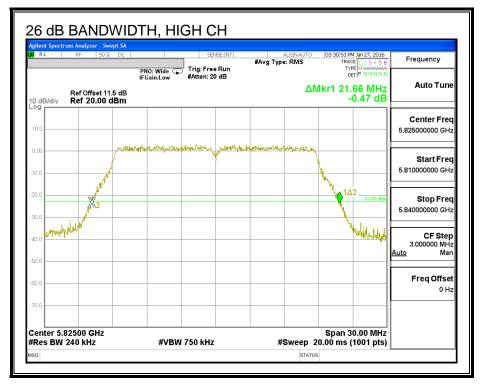
RESULTS

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5745	21.69
Mid	5785	21.69
High	5825	21.66

26 dB BANDWIDTH







8.112.3.99% BANDWIDTH

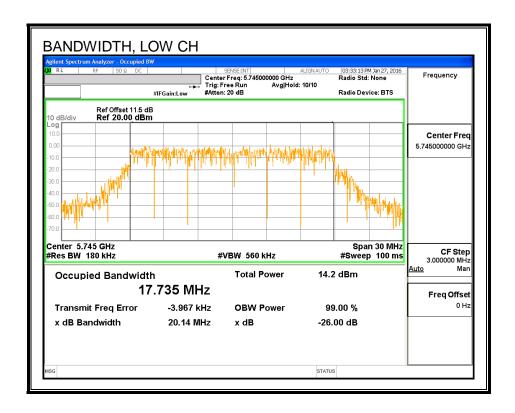
LIMITS

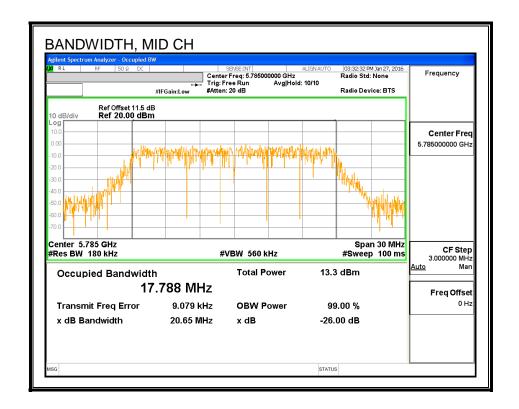
None; for reporting purposes only.

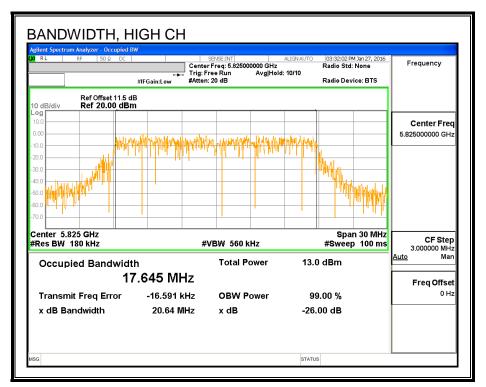
RESULTS

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5745	17.735
Mid	5785	17.788
High	5825	17.645

99% BANDWIDTH







8.112.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

RESULTS

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5745	15.40
Mid	5785	15.84
High	5825	15.93

8.112.5. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
		for Power	
	(MHz)	(dBi)	(dBm)
Low	5745	3.92	30.00
Mid	5785	3.92	30.00
High	5825	3.92	30.00

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

Channel	Frequency	Antenna C	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	15.40	15.40	30.00	-14.60
Mid	5785	15.84	15.84	30.00	-14.16
High	5825	15.93	15.93	30.00	-14.07

8.112.6. PSD

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limits

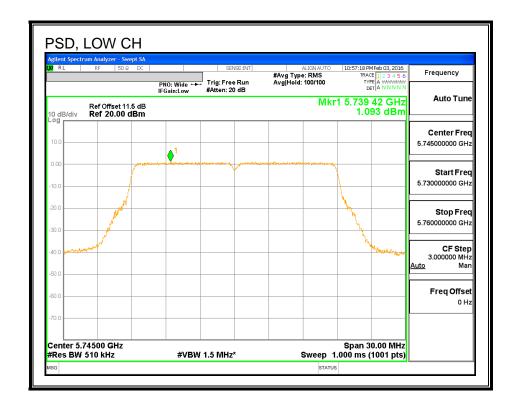
Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5745	3.92	30.00
Mid	5785	3.92	30.00
High	5825	3.92	30.00

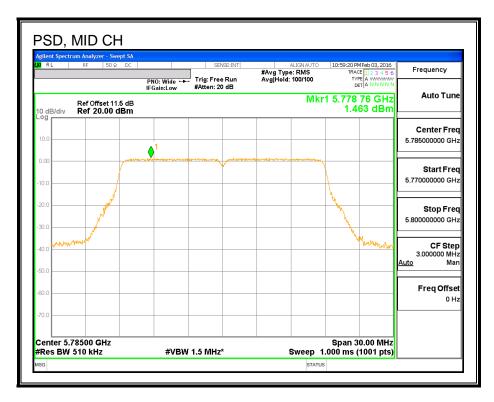
		-
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

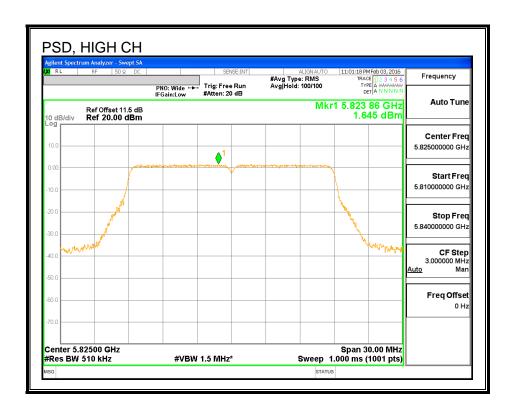
PSD Results

- 02 K00K					
Channel	Frequency	Antenna C	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	1.09	1.09	30.00	-28.91
Mid	5785	1.46	1.46	30.00	-28.54
High	5825	1.65	1.65	30.00	-28.36

<u>PSD</u>







8.113. 802.11n HT20 ANTENNA B + A CDD MODE IN THE 5.8 GHz BAND 8.113.1.6 dB BANDWIDTH

LIMITS

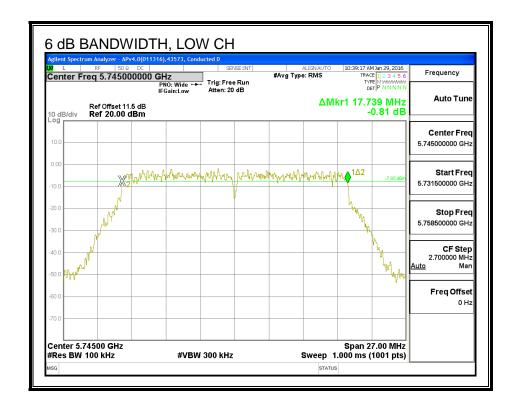
FCC §15.407 (e)

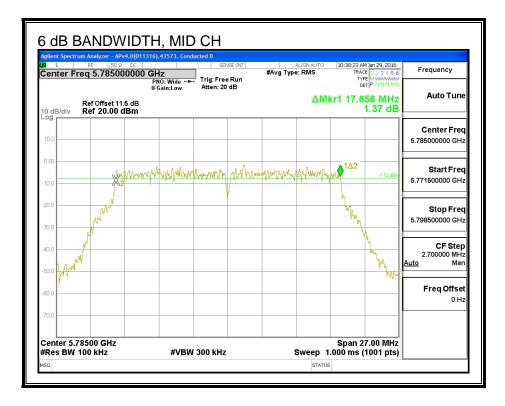
The minimum 6 dB bandwidth shall be at least 500 kHz.

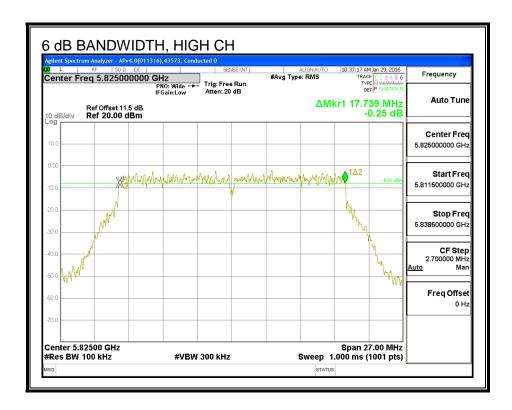
RESULTS

Channel	Frequency	6 dB BW	6 dB BW	Minimum
		Antenna B	Antenna A	Limit
	(MHz)	(MHz)	(MHz)	(MHz)
Low	5745	17.74	17.66	0.5
Mid	5785	17.66	17.74	0.5
High	5825	17.74	17.63	0.5

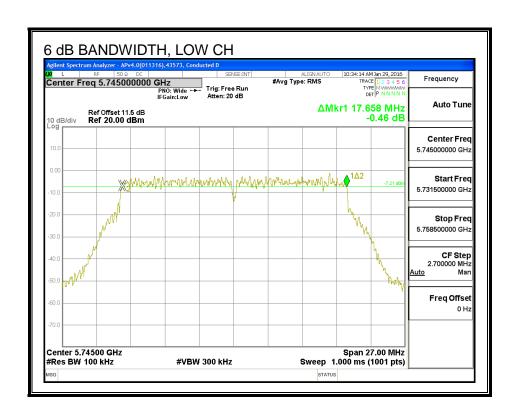
6 dB BANDWIDTH, ANTENNA - B



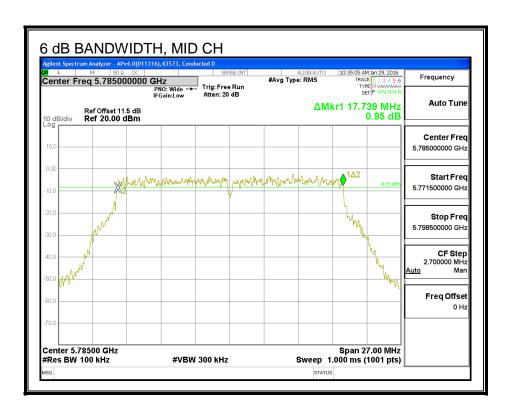


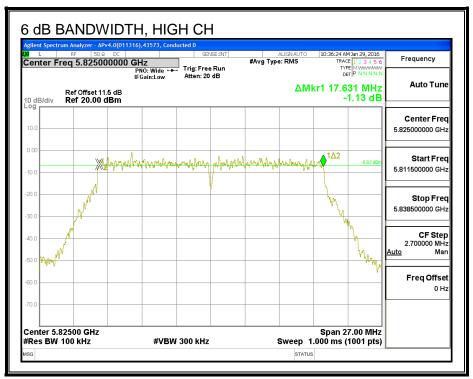


6 dB BANDWIDTH, ANTENNA - A



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8.113.2.26 dB BANDWIDTH

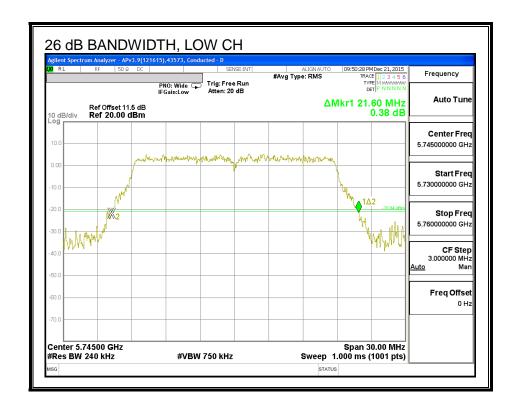
LIMITS

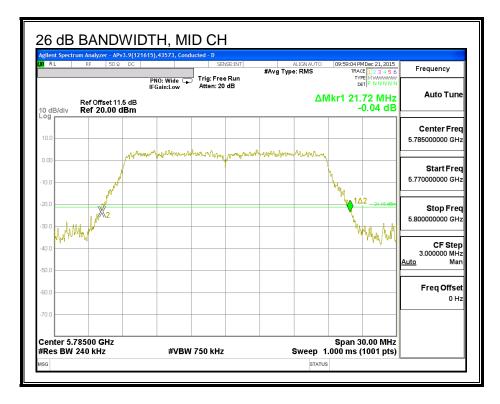
None, for reporting purposes only.

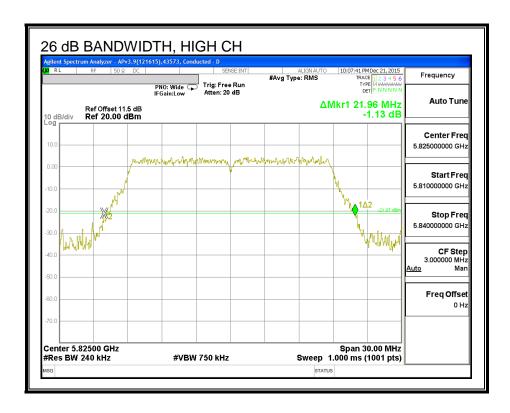
RESULTS

Channel	Frequency	26 dB BW	26 dB BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5745	21.60	21.60
Mid	5785	21.72	21.57
High	5825	21.96	22.02

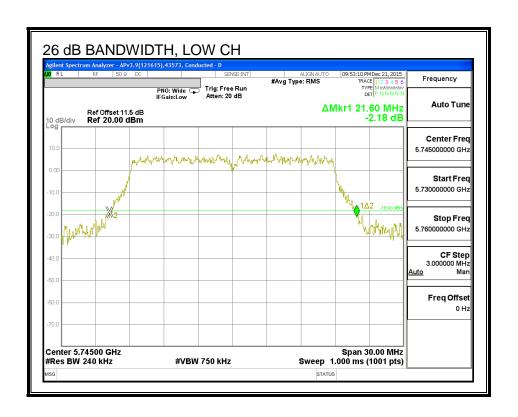
26 dB BANDWIDTH, ANTENNA - B



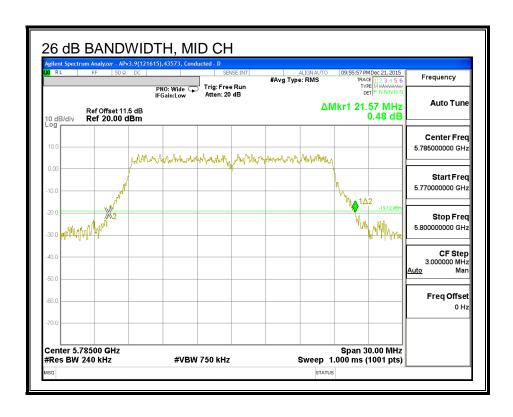


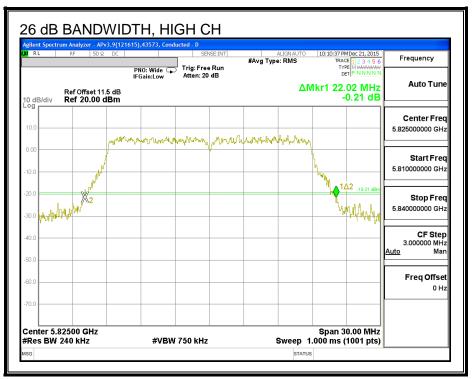


26 dB BANDWIDTH, ANTENNA - A



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8.113.3.99% BANDWIDTH

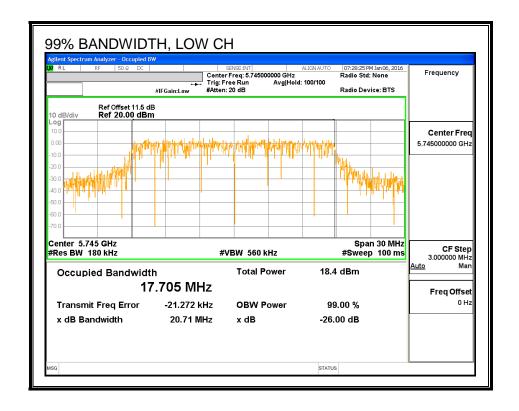
LIMITS

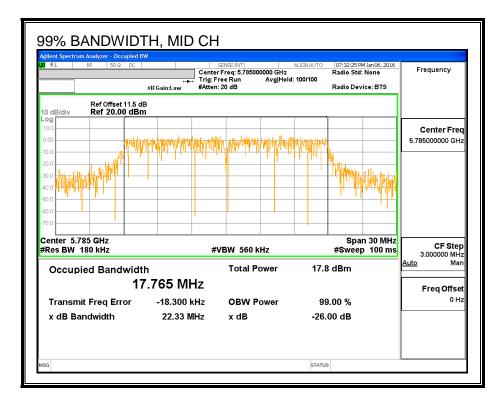
None; for reporting purposes only.

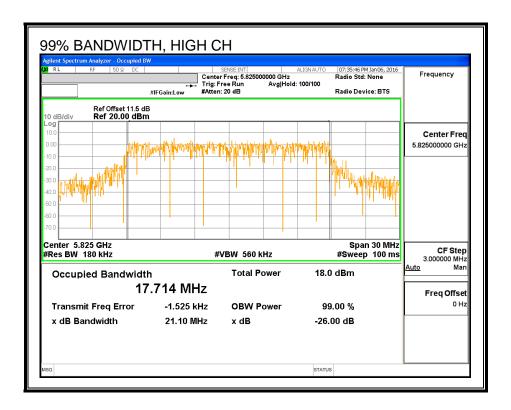
RESULTS

Channel	Frequency	99% BW	99% BW
		Antenna B	Antenna A
	(MHz)	(MHz)	(MHz)
Low	5745	17.705	17.724
Mid	5785	17.765	17.712
High	5825	17.714	17.702

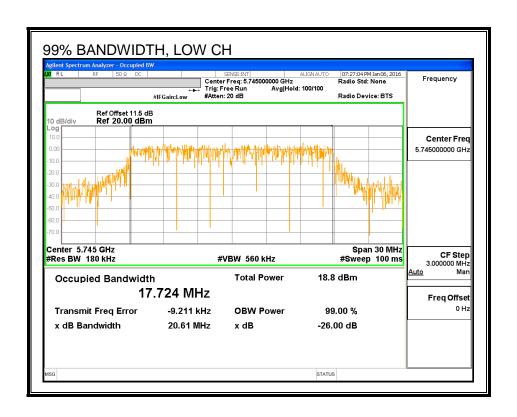
99% BANDWIDTH, ANTENNA - B



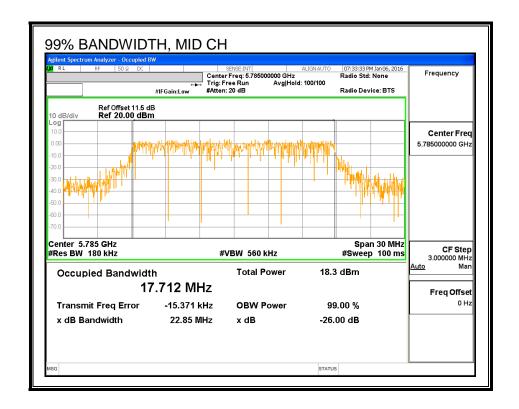


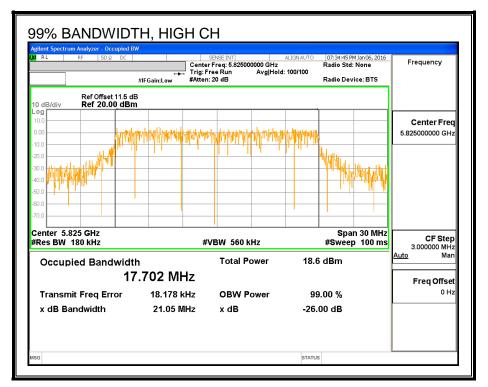


99% BANDWIDTH, ANTENNA - A



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8.113.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

Channel	Frequency	Antenna B	Antenna A	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5745	13.44	13.39	16.43
Mid	5785	17.40	16.47	19.97
High	5825	14.41	14.45	17.44

8.113.5. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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
		Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.42	4.16	3.38

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
		for Power	
	(MHz)	(dBi)	(dBm)
Low	5745	3.38	30.00
Mid	5785	3.38	30.00
High	5825	3.38	30.00

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	5745	13.44	13.39	16.43	30.00	-13.57
Mid	5785	17.40	16.47	19.97	30.00	-10.03
High	5825	14.41	14.45	17.44	30.00	-12.56

8.113.6. PSD

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

Antenna B	Antenna A	Correlated Chains
		Directional
Gain	Gain	Gain
(dBi)	(dBi)	(dBi)
2.42	4.16	6.34

RESULTS

Antenna Gain and Limits

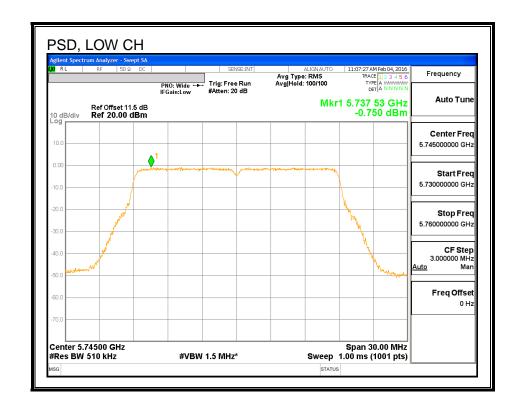
Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5745	6.34	29.66
Mid	5785	6.34	29.66
High	5825	6.34	29.66

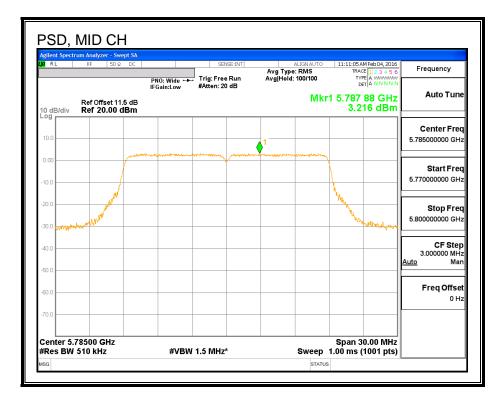
Duty Cycle CF (dB) 0.00	Included in Calculations of Corr'd PSD
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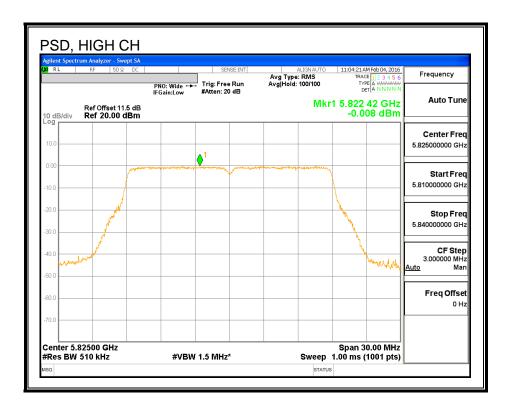
PSD Results

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	5745	-0.75	-0.74	2.27	29.66	-27.39
Mid	5785	3.22	2.03	5.67	29.66	-23.99
High	5825	-0.01	-0.02	3.00	29.66	-26.66

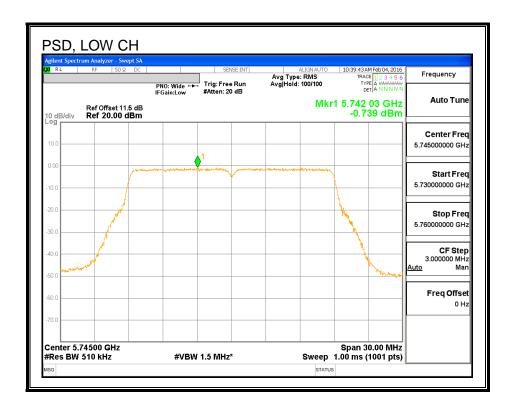
PSD, ANTENNA - B

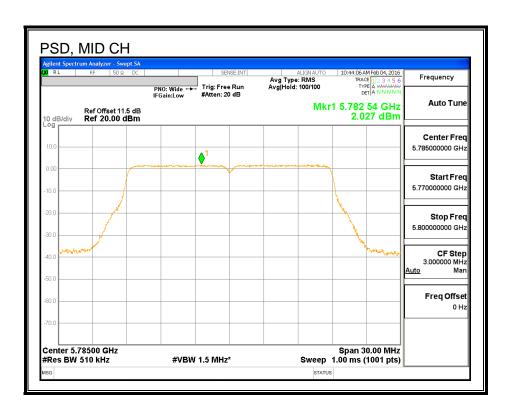


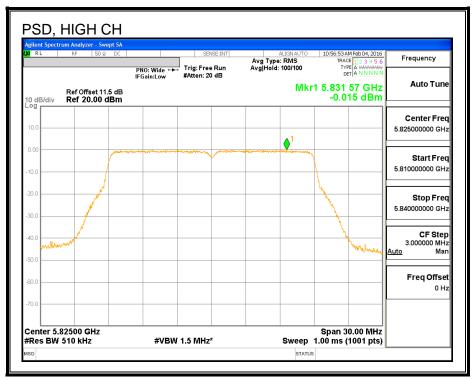




PSD, ANTENNA - A







8.114. 802.11n HT20 ANTENNA A+C CDD MODE IN THE 5.8 GHz BAND 8.114.1.6 dB BANDWIDTH

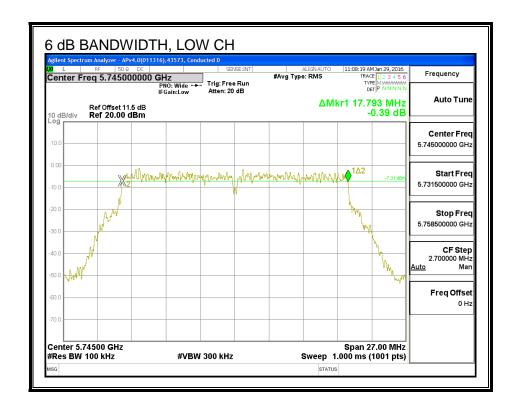
LIMITS

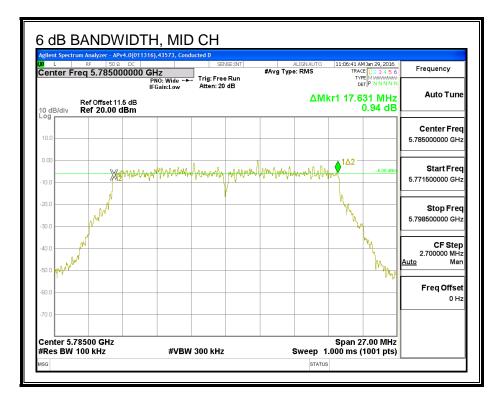
FCC §15.407 (e)

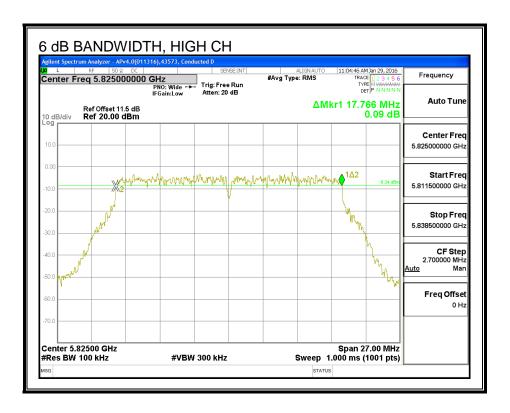
The minimum 6 dB bandwidth shall be at least 500 kHz.

Channel	Frequency	6 dB BW	6 dB BW	Minimum
		Antenna A	Antenna C	Limit
	(MHz)	(MHz)	(MHz)	(MHz)
Low	5745	17.79	17.58	0.5
Mid	5785	17.63	17.58	0.5
High	5825	17.77	17.71	0.5

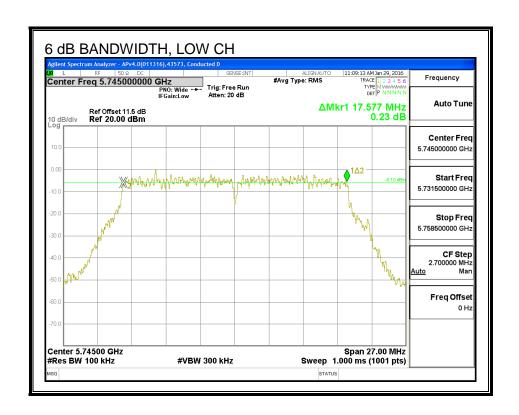
6 dB BANDWIDTH, ANTENNA - A

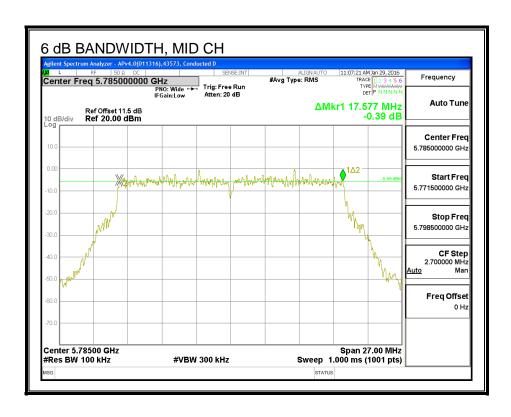


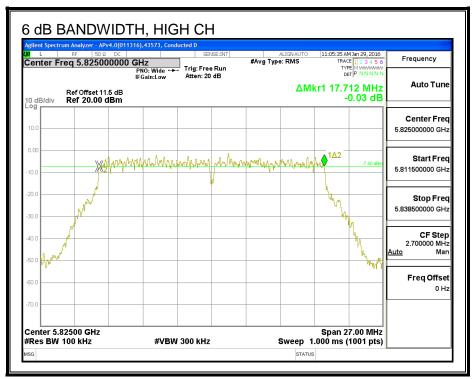




6 dB BANDWIDTH, ANTENNA - C







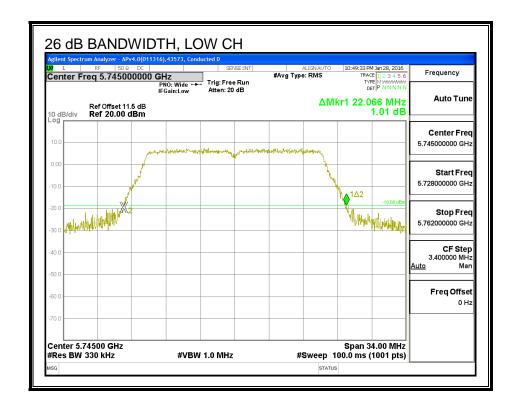
8.114.2.26 dB BANDWIDTH

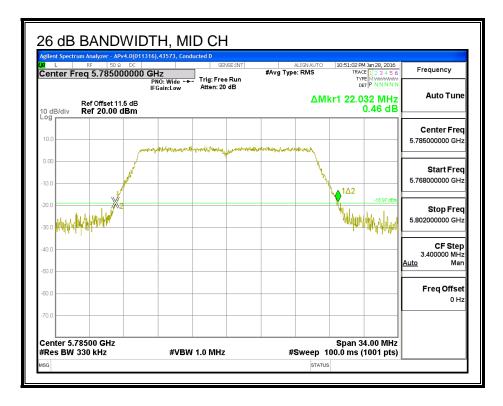
LIMITS

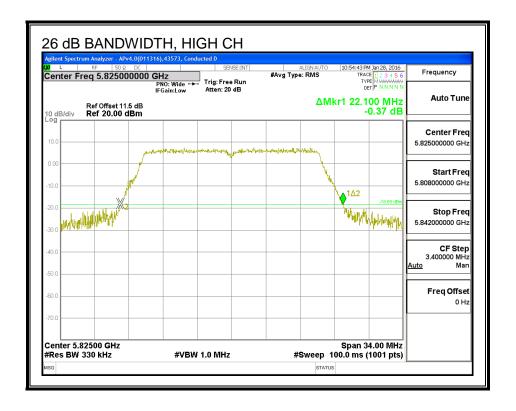
None, for reporting purposes only.

Channel	Frequency	26 dB BW	26 dB BW
		Antenna A	Antenna C
	(MHz)	(MHz)	(MHz)
Low	5745	22.07	21.62
Mid	5785	22.03	21.71
High	5825	22.10	21.68

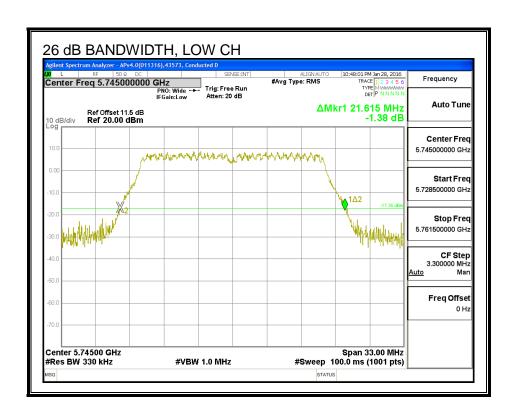
26 dB BANDWIDTH, ANTENNA - A



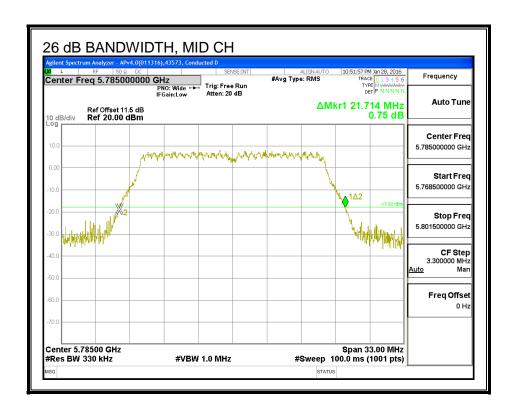


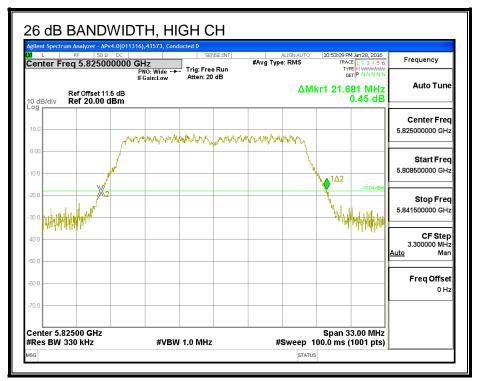


26 dB BANDWIDTH, ANTENNA - C



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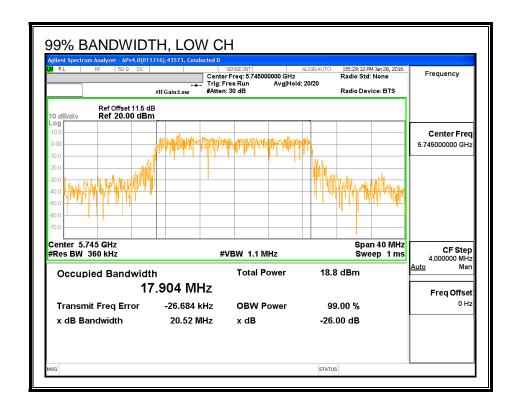
8.114.3.99% BANDWIDTH

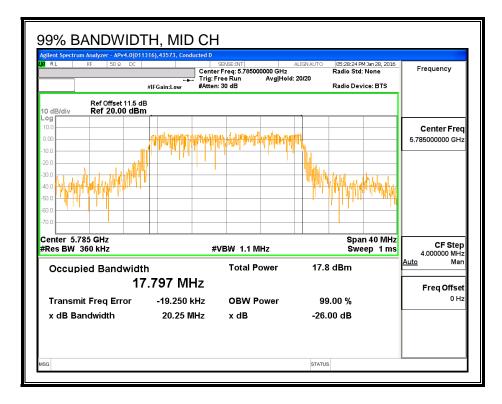
LIMITS

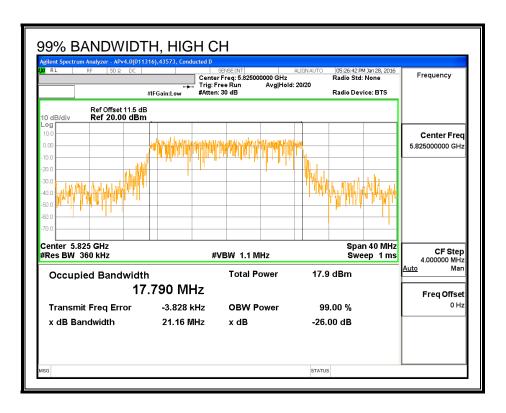
None; for reporting purposes only.

Channel	Frequency	99% BW	99% BW
		Antenna A	Antenna C
	(MHz)	(MHz)	(MHz)
Low	5745	17.904	17.759
Mid	5785	17.797	17.858
High	5825	17.790	17.794

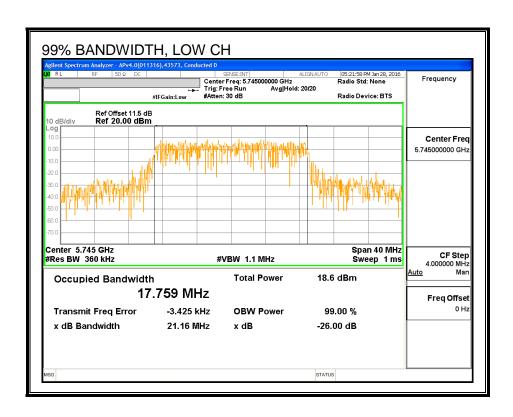
99% BANDWIDTH, ANTENNA - A



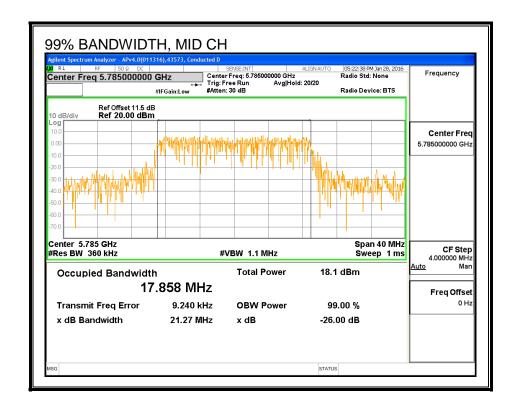


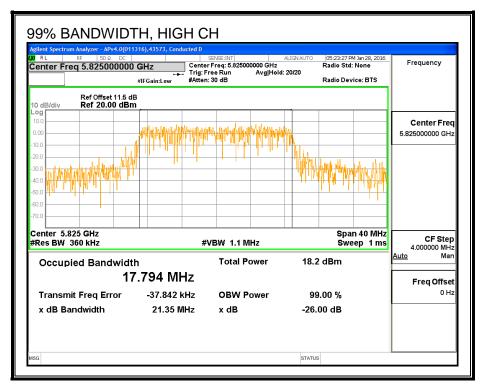


99% BANDWIDTH, ANTENNA - C



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8.114.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

Channel	Frequency	Antenna A	Antenna C	Total
		Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)
Low	5745	13.37	13.48	16.44
Mid	5785	16.42	15.93	19.19
High	5825	14.47	14.44	17.47

8.114.5. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

Antenna A	Antenna C	Uncorrelated Chains	
		Directional	
Gain	Gain	Gain	
(dBi)	(dBi)	(dBi)	
4.16	3.92	4.04	

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
		for Power	
	(MHz)	(dBi)	(dBm)
Low	5745	4.04	30.00
Mid	5785	4.04	30.00
High	5825	4.04	30.00

Output Power Results

Channel	Frequency	Antenna A	Antenna C	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	13.37	13.48	16.44	30.00	-13.56
Mid	5785	16.42	15.93	19.19	30.00	-10.81
High	5825	14.47	14.44	17.47	30.00	-12.53

8.114.6. PSD

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

Antenna A	Antenna C	Correlated Chains	
		Directional	
Gain	Gain	Gain	
(dBi)	(dBi)	(dBi)	
4.16	3.92	7.05	

RESULTS

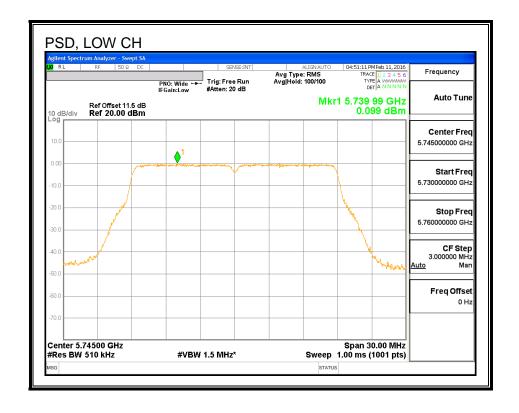
Antenna Gain and Limits

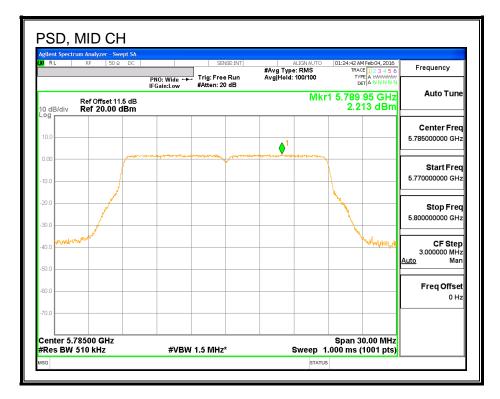
Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5745	7.05	28.95
Mid	5785	7.05	28.95
High	5825	7.05	28.95

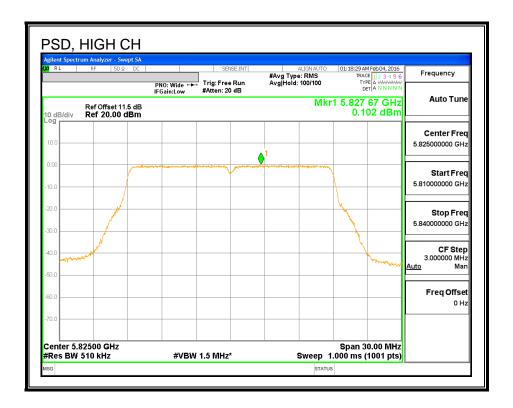
PSD Results

Channel	Frequency	Antenna A	Antenna C	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	0.10	0.04	3.08	28.95	-25.87
Mid	5785	2.21	1.75	5.00	28.95	-23.95
High	5825	0.10	0.13	3.12	28.95	-25.83

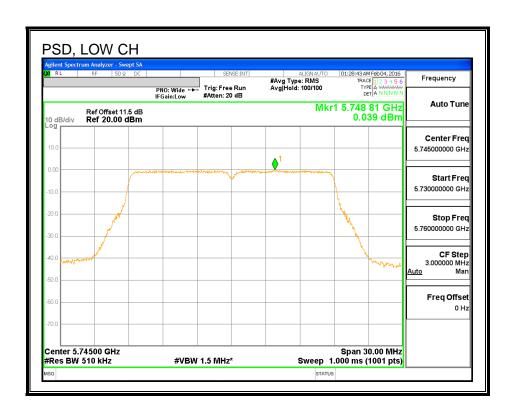
PSD, ANTENNA - A

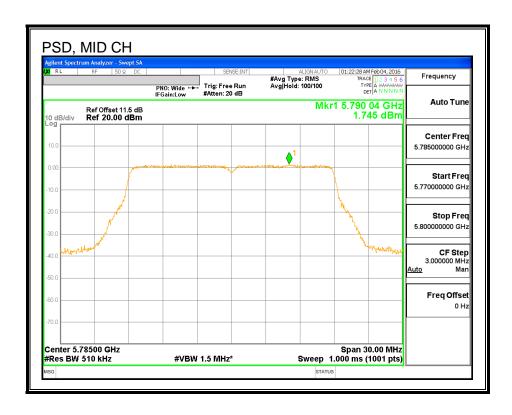


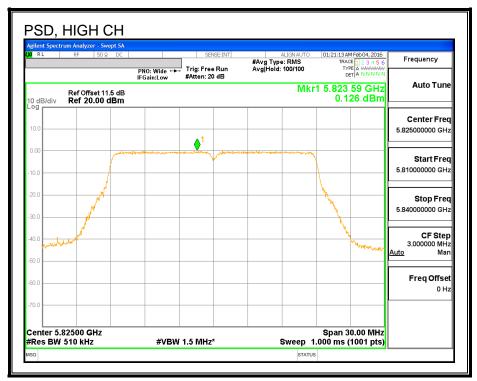




PSD, ANTENNA - C







8.115. 802.11n HT20 ANTENNA B+A STBC MODE IN THE 5.8 GHz BAND

Noted: Covered by 802.11n HT20 ANTENNA B+A CDD MODE IN THE 5.8 GHz BAND

8.116. 802.11n HT20 ANTENNA A+C STBC MODE IN THE 5.8 GHz BAND

Noted: Covered by 802.11n HT20 ANTENNA A+C CDD MODE IN THE 5.8 GHz BAND

8.117. 802.11n HT20 ANTENNA B+A SDM MODE IN THE 5.8 GHz BAND

Noted: Covered by 802.11n HT20 ANTENNA B+A CDD MODE IN THE 5.8 GHz BAND

8.118. 802.11n HT20 ANTENNA A+C SDM MODE IN THE 5.8 GHz BAND

Noted: Covered by 802.11n HT20 ANTENNA A+C CDD MODE IN THE 5.8 GHz BAND

8.119. 802.11n HT40 ANTENNA - B MODE IN THE 5.8 GHz BAND 8.119.1.6 dB BANDWIDTH

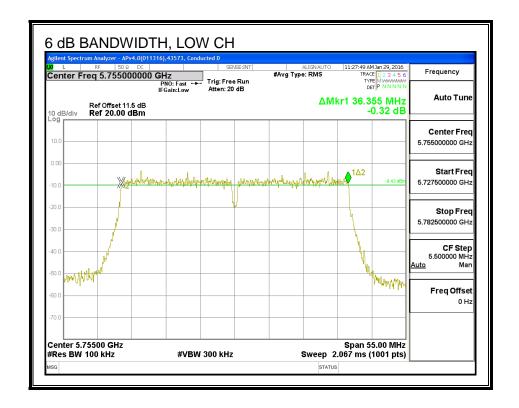
LIMITS

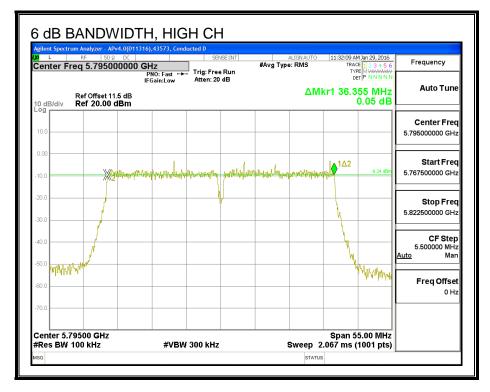
FCC §15.407 (e)

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

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5755	36.36	0.5
High	5795	36.36	0.5

6 dB BANDWIDTH





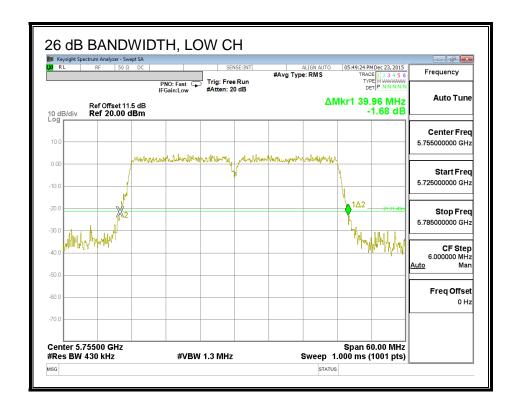
8.119.2.26 dB BANDWIDTH

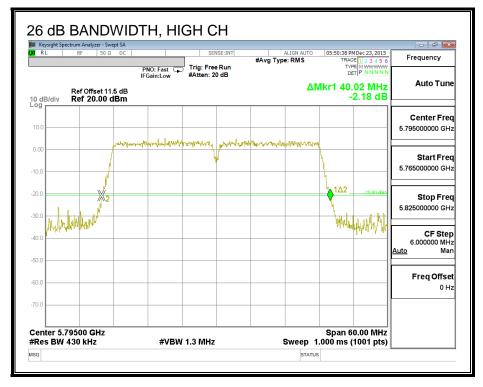
LIMITS

None, for reporting purposes only.

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5755	39.96
High	5795	40.02

26 dB BANDWIDTH





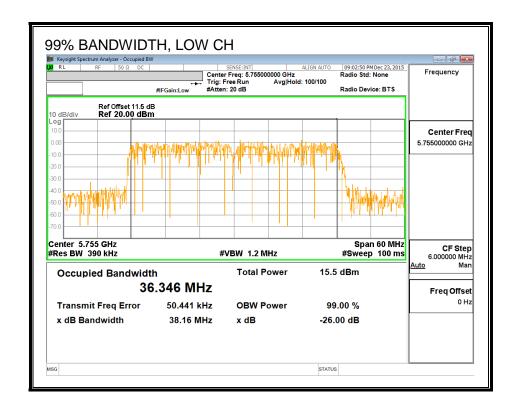
8.119.3.99% BANDWIDTH

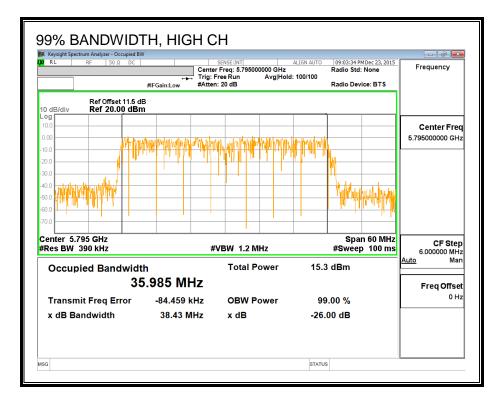
LIMITS

None; for reporting purposes only.

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5755	36.346
High	5795	35.985

99% BANDWIDTH





8.119.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5755	12.98
High	5795	16.41

8.119.5. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5755	2.42	30.00
High	5795	2.42	30.00

Output Power Results

Channel	Frequency	Antenna B	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	(MHz) 5755	(dBm) 12.98	(dBm) 12.98	(dBm) 30.00	(dB) -17.02

8.119.6. PSD

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limits

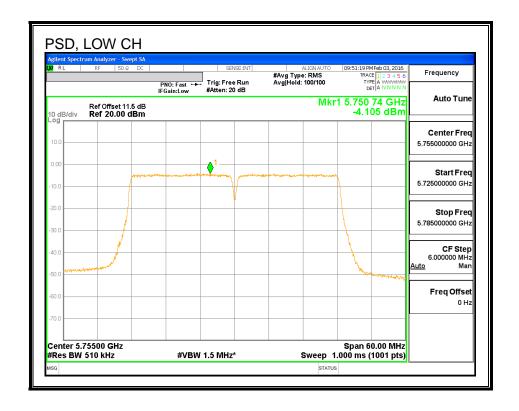
Channel	Frequency	Directional	PSD
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5755	2.42	30.00
High	5795	2.42	30.00

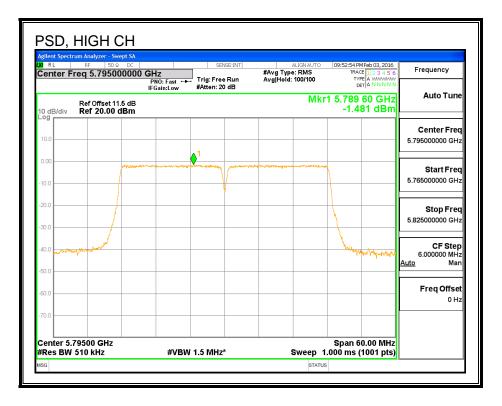
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

Channel	Frequency	Antenna B	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	(MHz) 5755	(dBm) -4.11	(dBm) -4.11	(dBm) 30.00	(dB) -34.11

<u>PSD</u>





8.120. 802.11n HT40 ANTENNA - A MODE IN THE 5.8 GHz BAND 8.120.1.6 dB BANDWIDTH

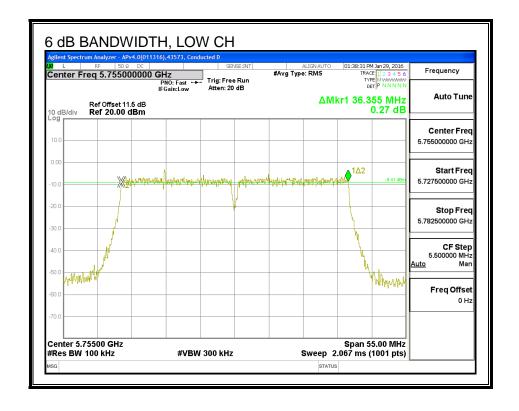
LIMITS

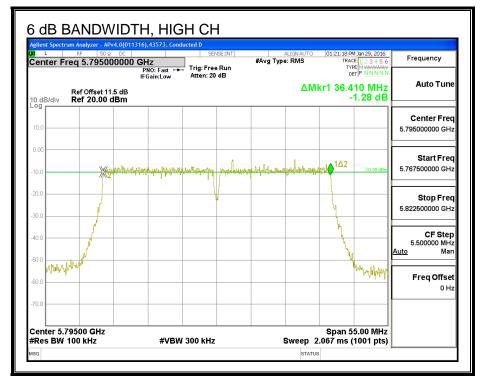
FCC §15.407 (e)

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

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5755	36.36	0.5
High	5795	36.41	0.5

6 dB BANDWIDTH





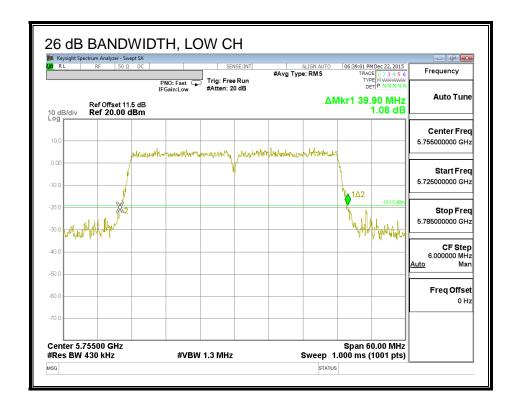
8.120.2.26 dB BANDWIDTH

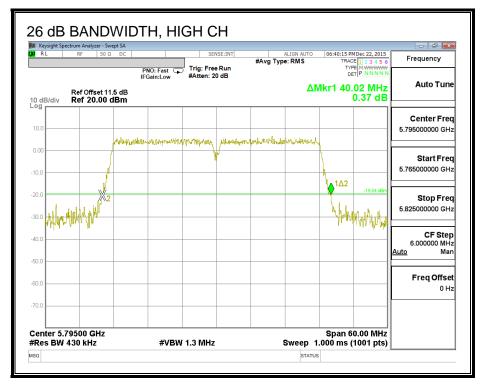
LIMITS

None, for reporting purposes only.

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5755	39.90
High	5795	40.02

26 dB BANDWIDTH





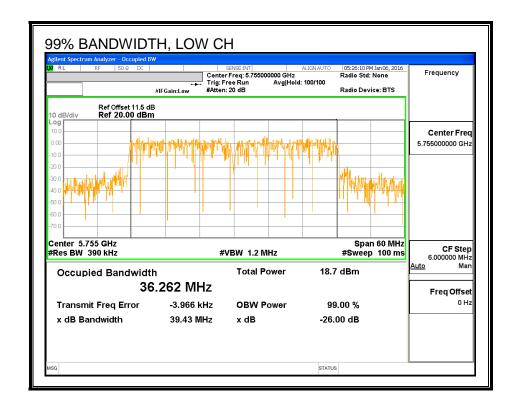
8.120.3.99% BANDWIDTH

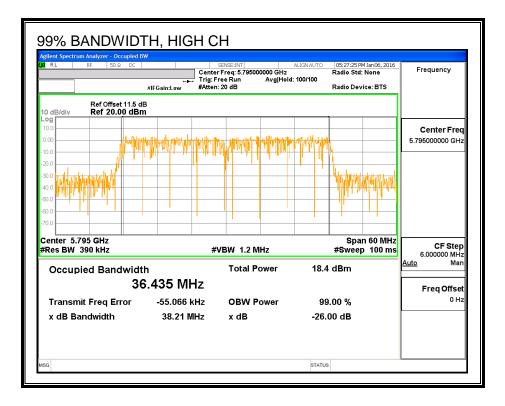
LIMITS

None; for reporting purposes only.

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5755	36.262
High	5795	36.435

99% BANDWIDTH





8.120.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5755	12.88
High	5795	16.43

8.120.5. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limit

Channel	Frequency Directional		Power
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5755	4.16	30.00
High	5795	4.16	30.00

Output Power Results

	_			_	_
Channel	Frequency	Antenna A	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	(MHz) 5755	(dBm) 12.88	(dBm) 12.88	(dBm) 30.00	(dB) -17.12

8.120.6. PSD

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limits

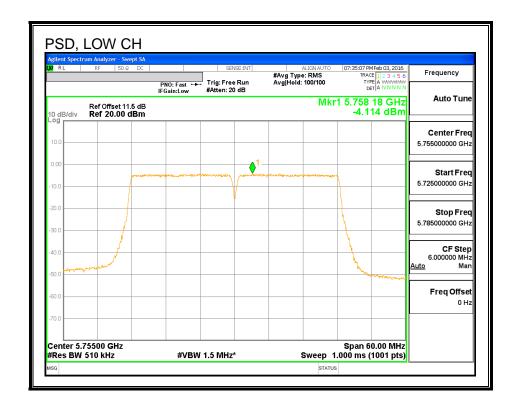
Channel	Frequency	Frequency Directional	
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5755	4.16	30.00
High	5795	4.16	30.00

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

Channel	Frequency	Antenna A	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	(MHz) 5755	(dBm) -4.11	(dBm) -4.11	(dBm) 30.00	(dB) -34.11

<u>PSD</u>





8.121. 802.11n HT40 ANTENNA - C MODE IN THE 5.8 GHz BAND 8.121.1.6 dB BANDWIDTH

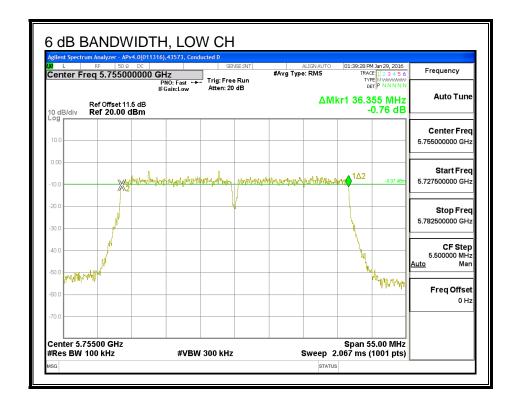
LIMITS

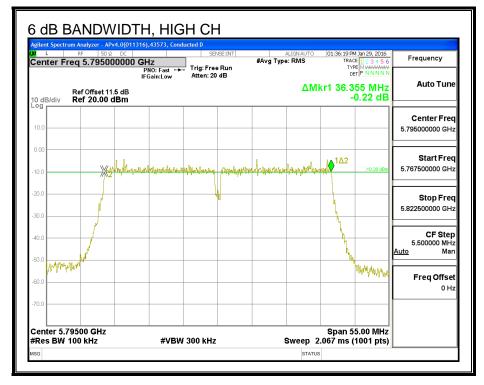
FCC §15.407 (e)

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

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5755	36.36	0.5
High	5795	36.36	0.5

6 dB BANDWIDTH





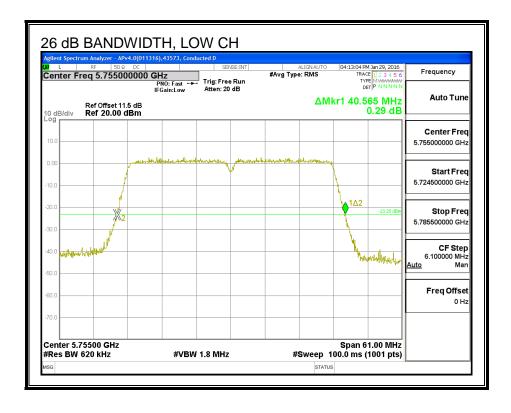
8.121.2.26 dB BANDWIDTH

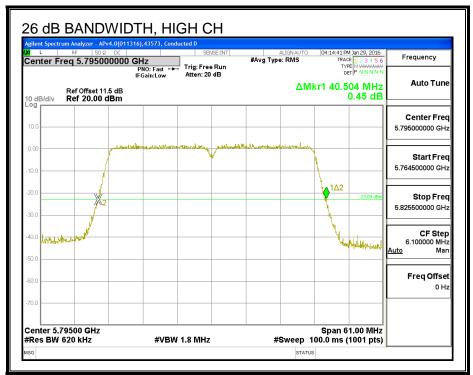
LIMITS

None, for reporting purposes only.

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5755	40.57
High	5795	40.50

26 dB BANDWIDTH





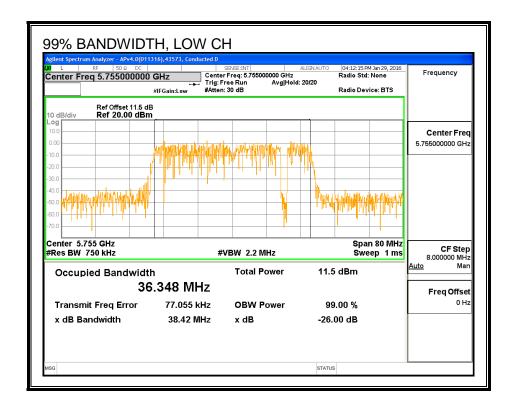
8.121.3.99% BANDWIDTH

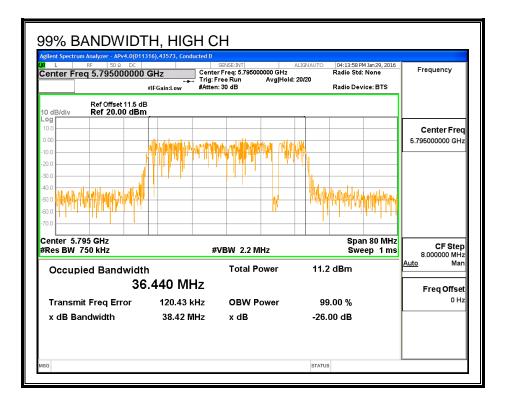
LIMITS

None; for reporting purposes only.

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	36.348
High	5795	36.440

99% BANDWIDTH





8.121.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

Channel	Frequency	Power
	(MHz)	(dBm)
Low	5755	12.86
High	5795	15.91

8.121.5. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

Antenna Gain and Limit

Channel	Frequency	Directional	Power
		Gain	Limit
	(MHz)	(dBi)	(dBm)
Low	5755	3.92	30.00
High	5795	3.92	30.00

Output Power Results

Channel	Frequency	Antenna C	Total	Power	Power
		Meas	Corr'd	Limit	Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	(MHz) 5755	(dBm) 12.86	(dBm) 12.86	(dBm) 30.00	(dB) -17.14

8.121.6. PSD

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

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