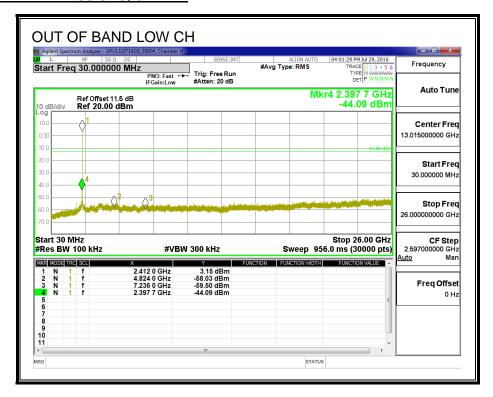
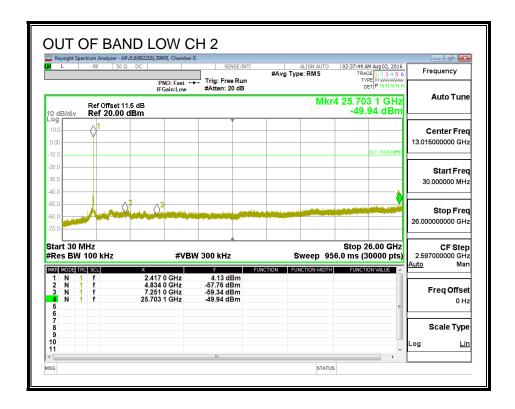
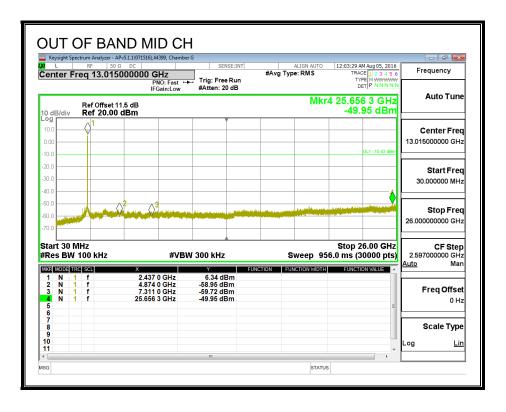
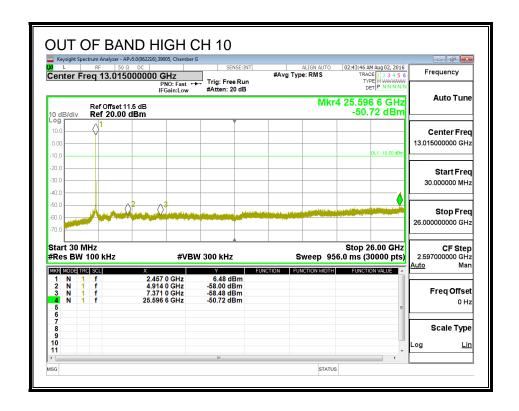


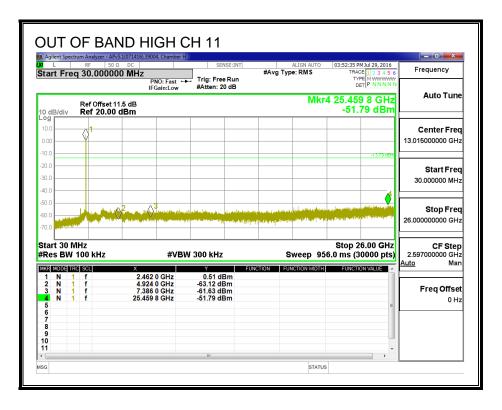
OUT-OF-BAND EMISSIONS, CHAIN 1

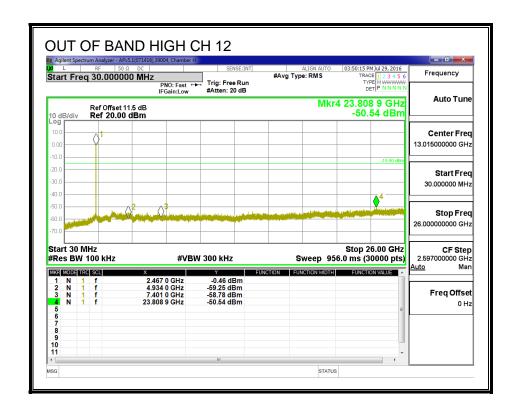


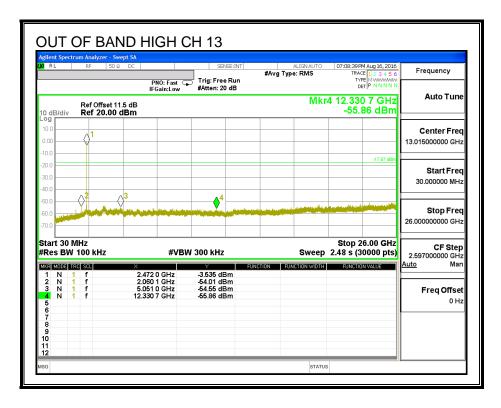












8.4. 802.11g SISO MODE IN THE 2.4 GHz BAND

Noted: Covered by 802.11n HT20 SISO MODE IN THE 2.4 GHz BAND

8.5. 802.11n HT20 SISO MODE IN THE 2.4 GHz BAND, CHAIN 0 8.5.1. 6 dB BANDWIDTH

LIMITS

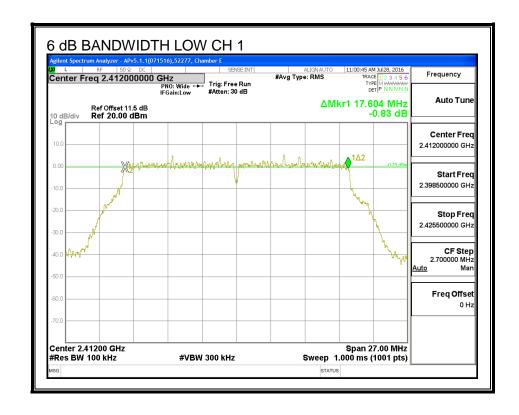
FCC §15.247 (a) (2)

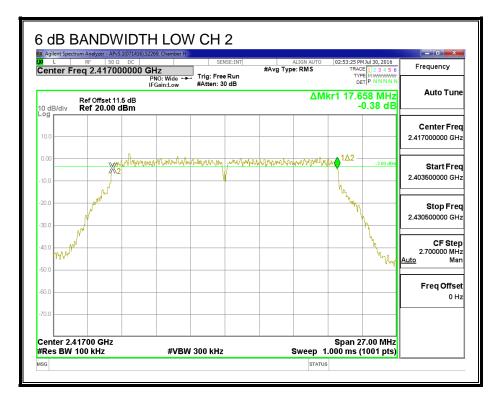
IC RSS-247 (5.2) (1)

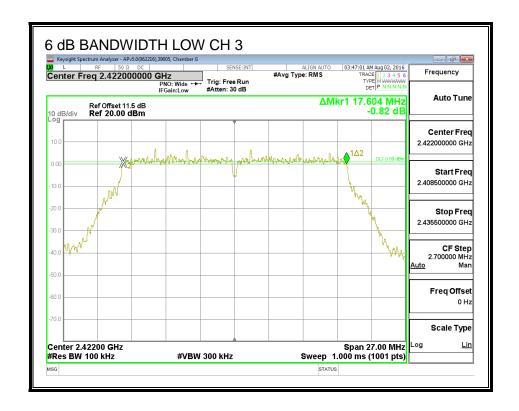
The minimum 6 dB bandwidth shall be at least 500 kHz.

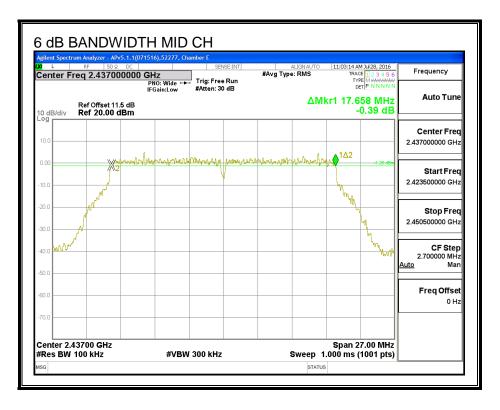
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low_1	2412	17.604	0.5
Low_2	2417	17.658	0.5
Low_3	2422	17.604	0.5
Mid_6	2437	17.658	0.5
High_10	2457	17.658	0.5
High_11	2462	17.631	0.5
High_12	2467	17.577	0.5
High_13	2472	17.658	0.5

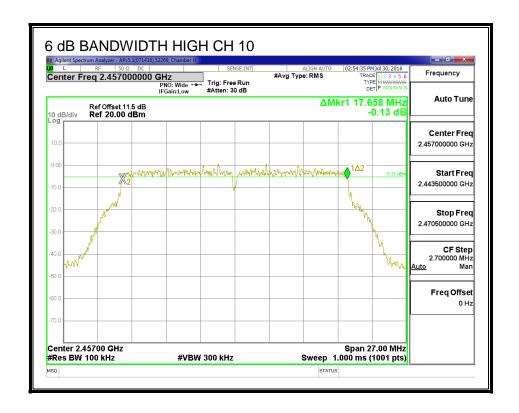
6 dB BANDWIDTH

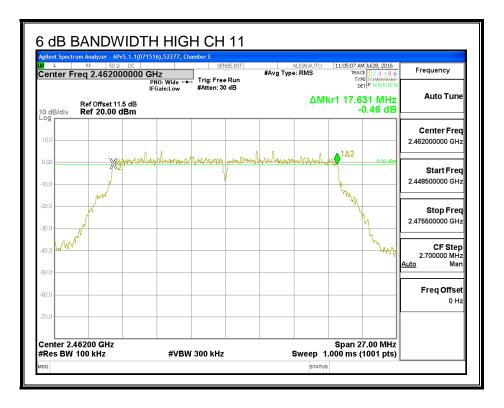


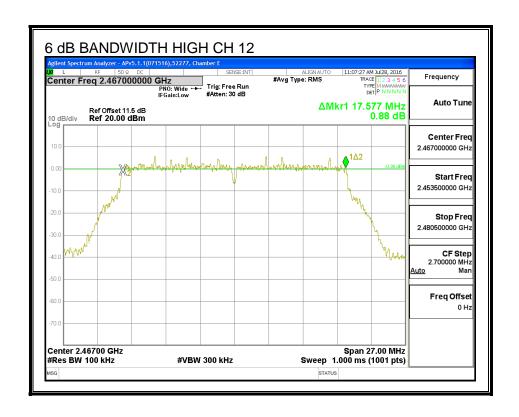


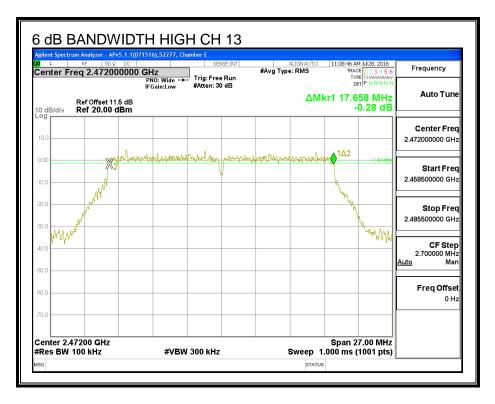












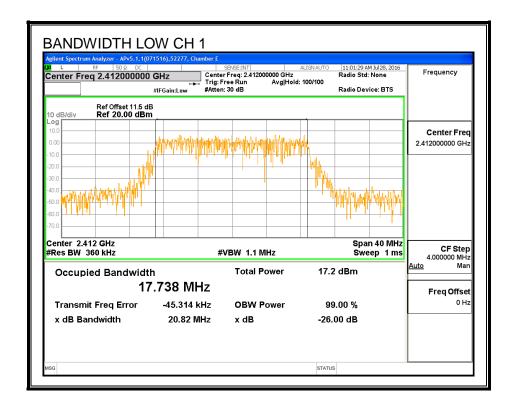
8.5.2. 99% BANDWIDTH

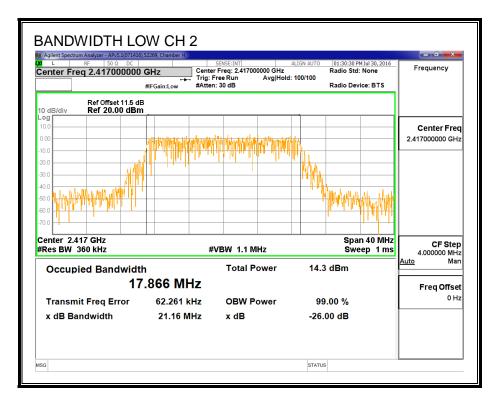
LIMITS

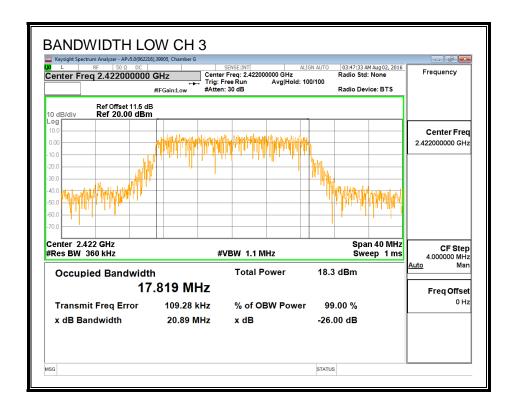
None; for reporting purposes only.

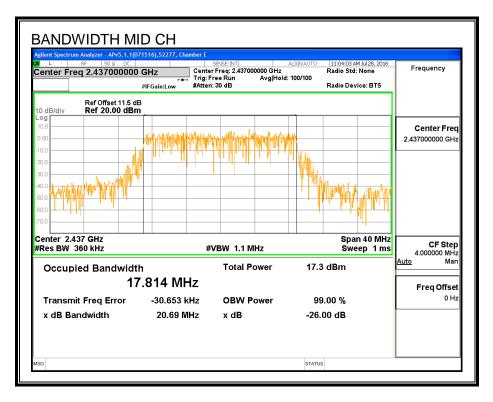
Channel	Frequency	99% Bandwidth	
	(MHz)	(MHz)	
Low_1	2412	17.738	
Low_2	2417	17.866	
Low_3	2422	17.819	
Mid_6	2437	17.814	
High_10	2457	17.936	
High_11	2462	17.732	
High_12	2467	17.731	
High_13	2472	17.894	

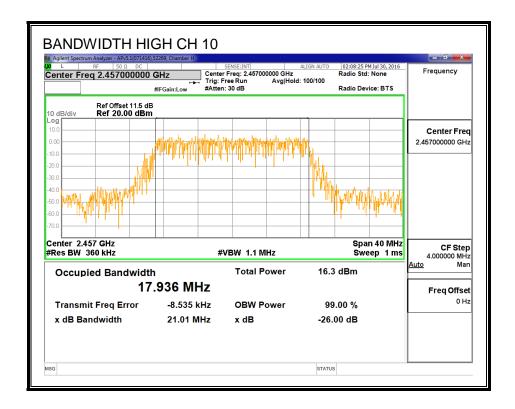
99% BANDWIDTH

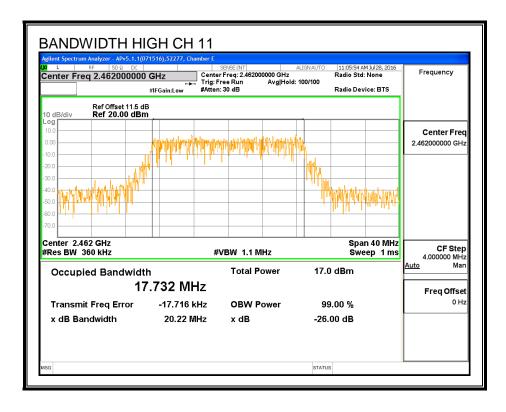


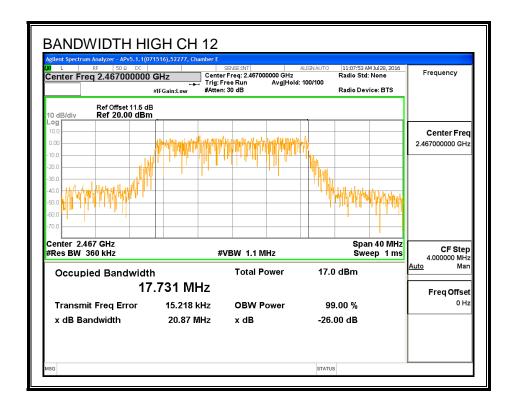


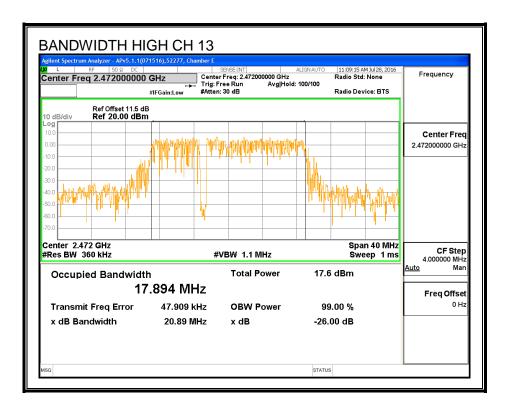












8.5.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

ID: 39919 Date: 8/31/16

Channel	Frequency	Power
	(MHz)	(dBm)
Low_1	2412	13.95
Low_2	2417	15.38
Low_3	2422	16.65
Mid_6	2437	16.71
High_10	2457	16.63
High_11	2462	13.47
High_12	2467	10.49
High_13	2472	-0.30

8.5.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator 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

ID : 39919	Date:	8/31/16
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Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
Low_1	2412	4.20	30.00	30	36	30.00
Low_2	2417	4.20	30.00	30	36	30.00
Low_3	2422	4.20	30.00	30	36	30.00
Mid_6	2437	4.20	30.00	30	36	30.00
High_10	2457	4.20	30.00	30	36	30.00
High_11	2462	4.20	30.00	30	36	30.00
High_12	2467	4.20	30.00	30	36	30.00
High_13	2472	4.20	30.00	30	36	30.00

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

Results

Channel	Frequency	Meas	Total	Power	Margin
		Power	Corr'd	Limit	
			Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low_1	2412	20.06	20.06	30.00	-9.94
Low_2	2417	21.56	21.56	30.00	-8.44
Low_3	2422	23.84	23.84	30.00	-6.16
Mid_6	2437	24.07	24.07	30.00	-5.93
High_10	2457	23.76	23.76	30.00	-6.24
High_11	2462	19.74	19.74	30.00	-10.26
High_12	2467	16.62	16.62	30.00	-13.38
High_13	2472	6.33	6.33	30.00	-23.67

8.5.5. POWER SPECTRAL DENSITY

LIMITS

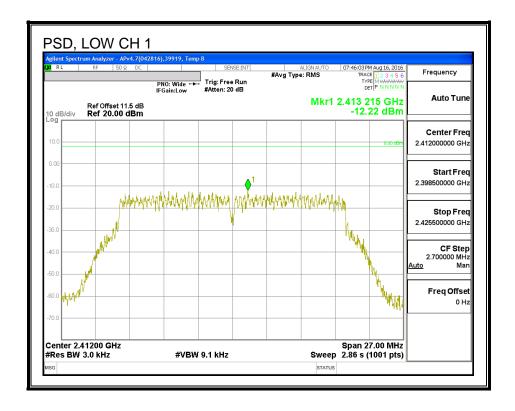
FCC §15.247

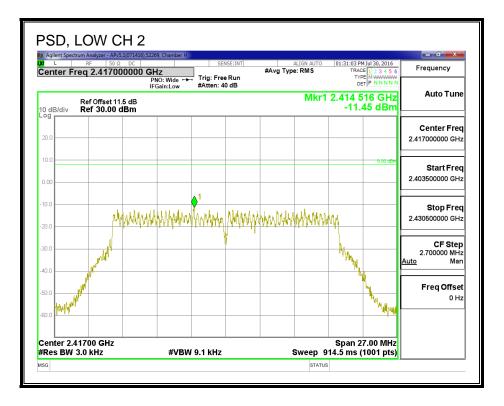
IC RSS-247 (5.2) (2)

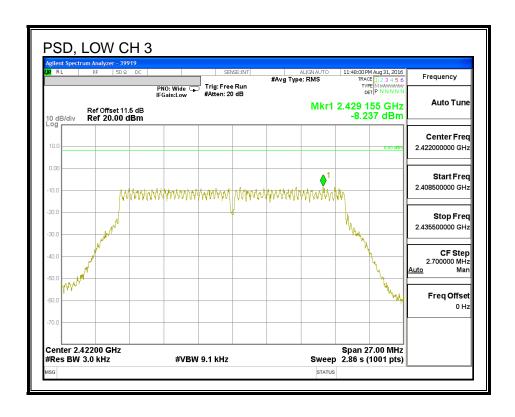
For digitally modulated systems, the power spectral density conducted form the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

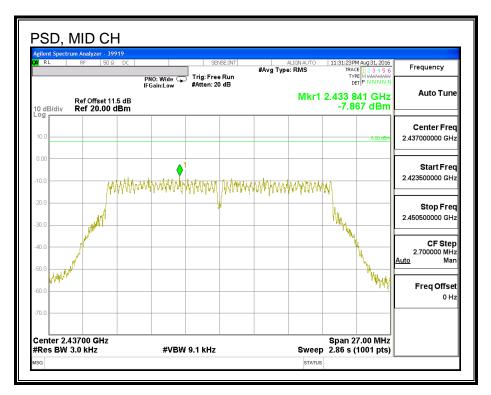
Duty C	ycle CF (dB)	0.00	Included in Calculations of Corr'd PSD				
PSD Results							
Channel	Frequency		Total	Limit	Margin		
		Meas	Corr'd				
	(MHz)	(dBm)	PSD				
			(dBm)	(dBm)	(dB)		
Low_1	2412	-12.22	-12.22	8.0	-20.2		
Low_2	2417	-11.45	-11.45	8.0	-19.5		
Low_3	2422	-8.24	-8.24	8.0	-16.2		
Mid_6	2437	-7.87	-7.87	8.0	-15.9		
High_10	2457	-8.29	-8.29	8.0	-16.3		
High_11	2462	-13.05	-13.05	8.0	-21.1		
High_12	2467	-15.36	-15.36	8.0	-23.4		
High_13	2472	-22.51	-22.51	8.0	-30.5		

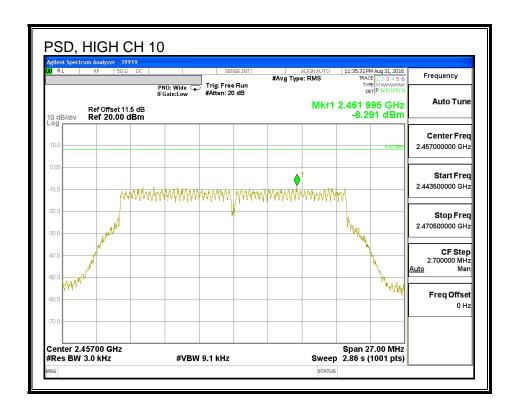
<u>PSD</u>

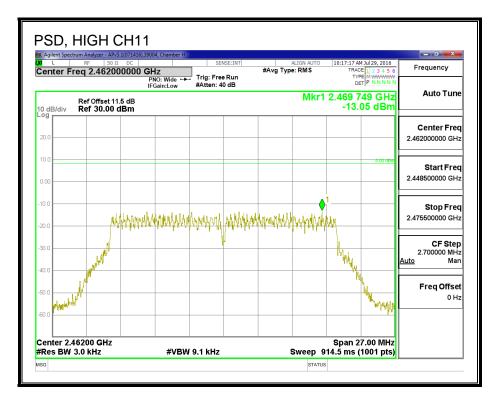


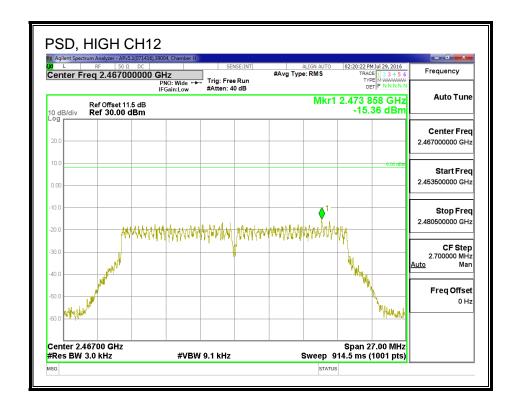


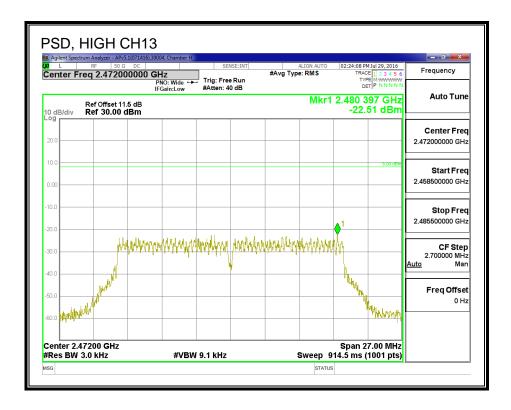












REPORT NO: 16U23796-E3V3 DATE: OCTOBER 07, 2016 IC: 579C-A1708 FCC ID: BCGA1708

8.5.6. OUT-OF-BAND EMISSIONS

LIMITS

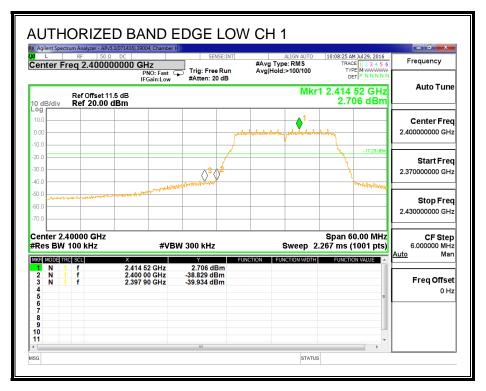
FCC §15.247 (d)

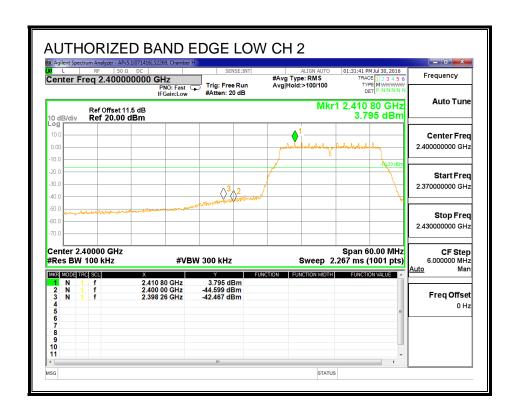
IC RSS-247 (5.5)

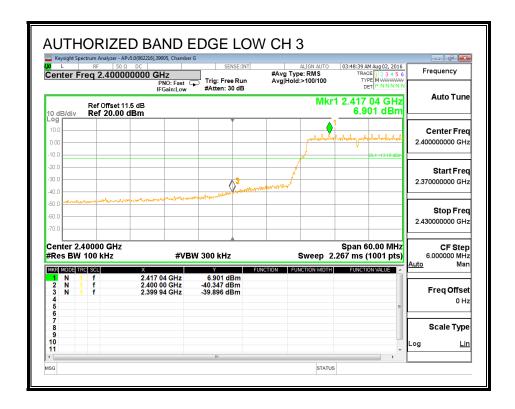
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

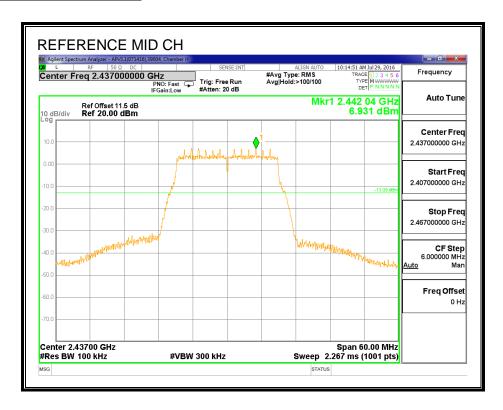
LOW CHANNEL BANDEDGE



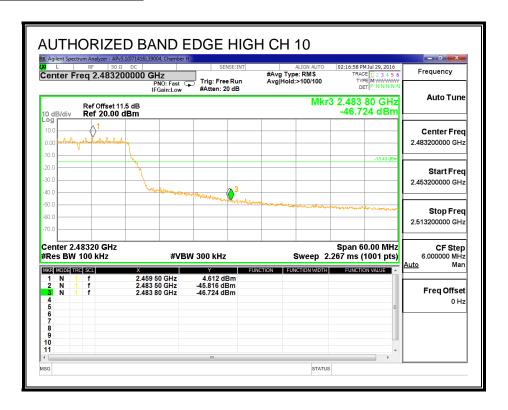


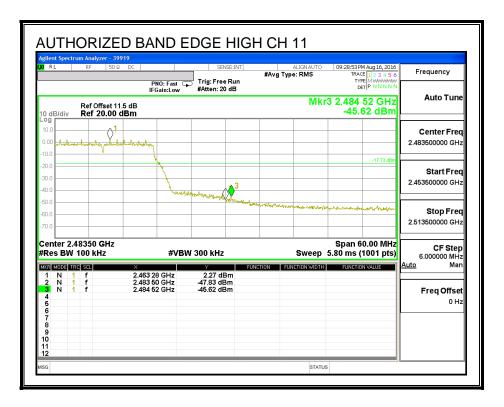


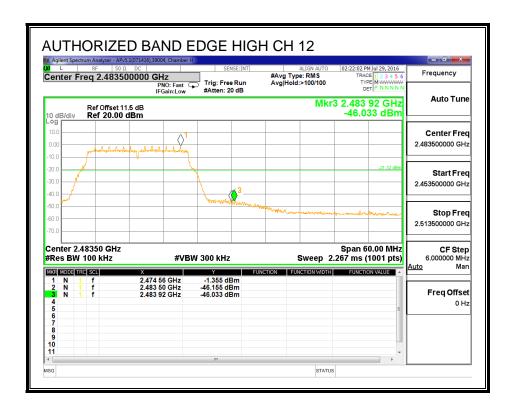
MID CHANNEL REFERENCE

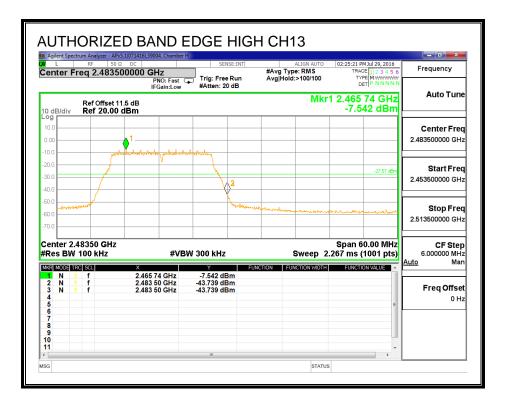


HIGH CHANNEL BANDEDGE

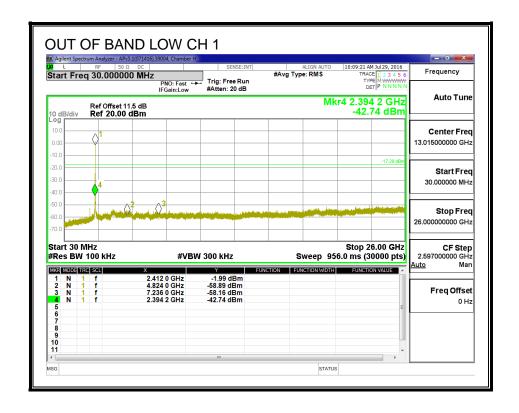


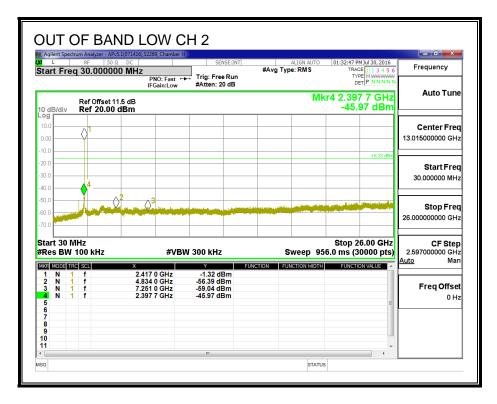


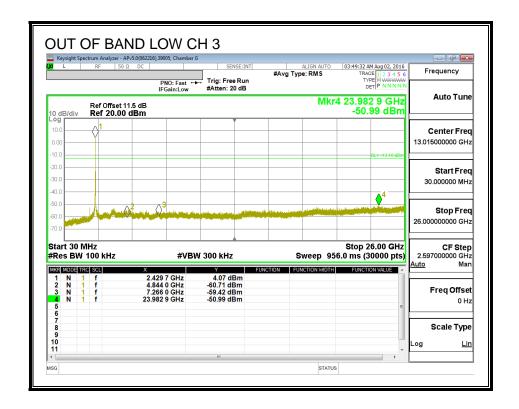


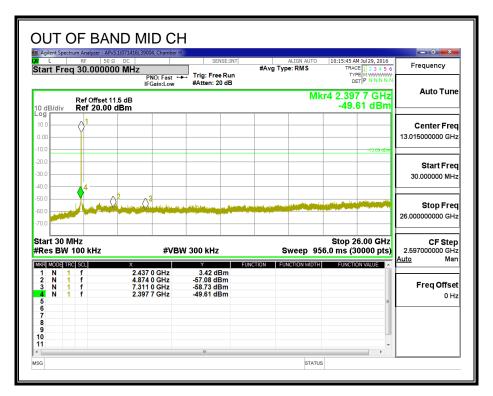


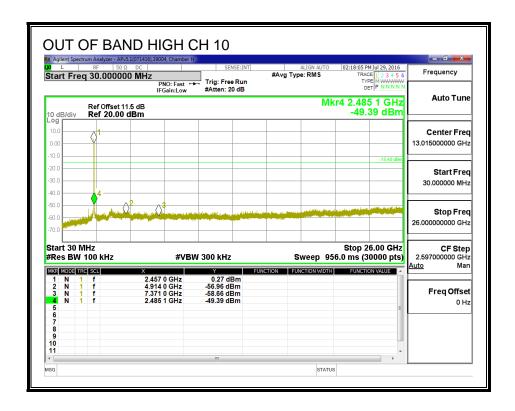
OUT-OF-BAND EMISSIONS

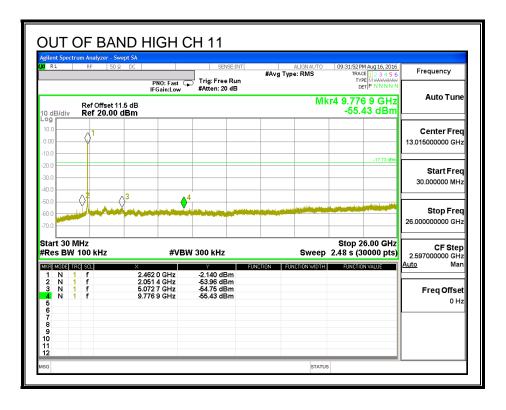


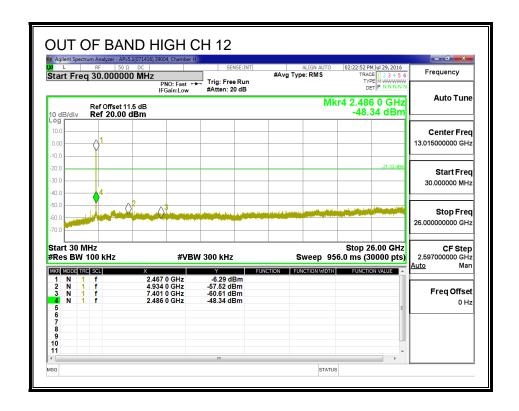


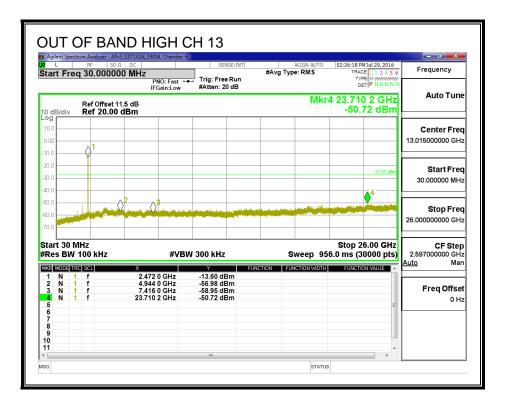












802.11n HT20 SISO MODE IN THE 2.4 GHz BAND, CHAIN 1 8.6. 8.6.1. 6 dB BANDWIDTH

LIMITS

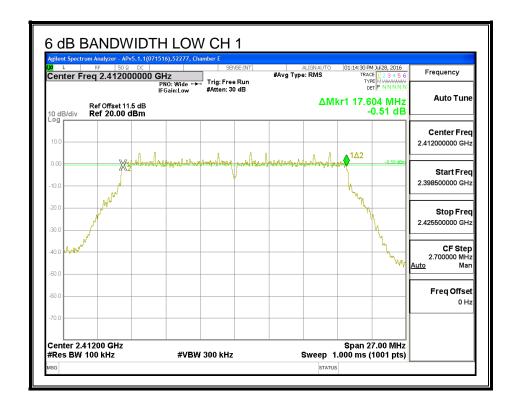
FCC §15.247 (a) (2)

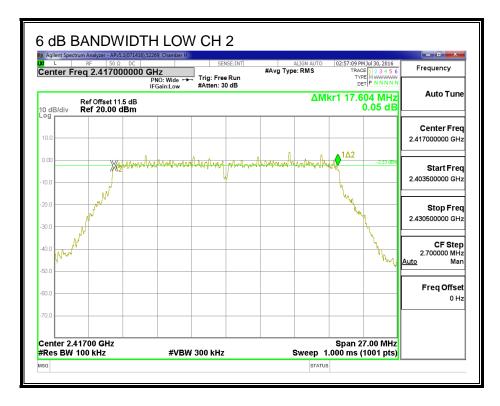
IC RSS-247 (5.2) (1)

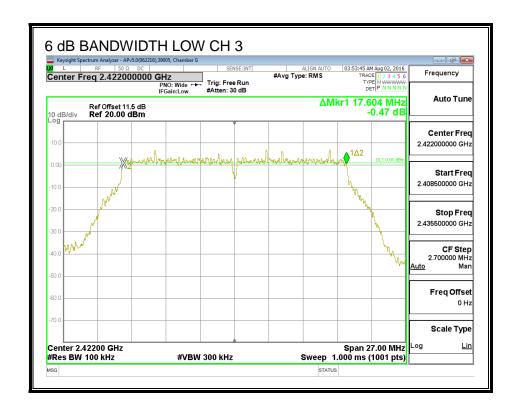
The minimum 6 dB bandwidth shall be at least 500 kHz.

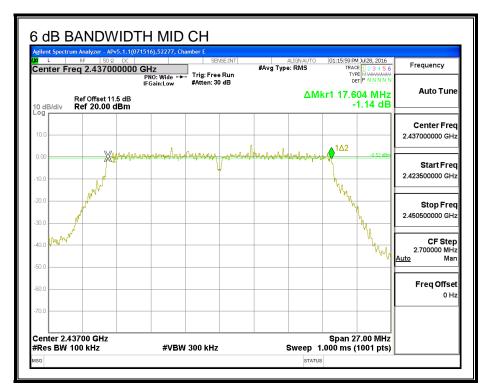
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low_1	2412	17.604	0.5
Low_2	2417	17.604	0.5
Low_3	2422	17.604	0.5
Mid_6	2437	17.604	0.5
High_10	2457	17.577	0.5
High_11	2462	17.577	0.5
High_12	2467	17.604	0.5
High_13	2472	17.604	0.5

6 dB BANDWIDTH

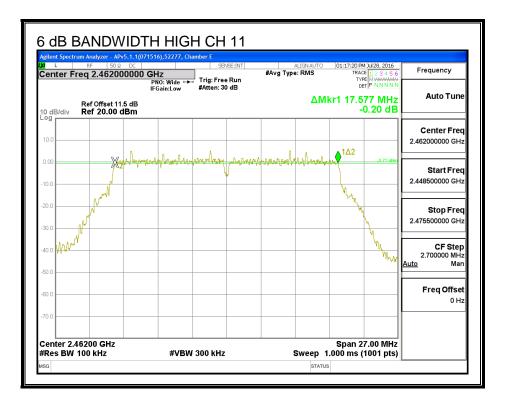




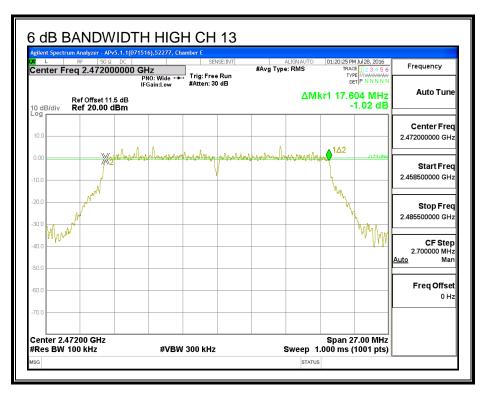












8.6.2. 99% BANDWIDTH

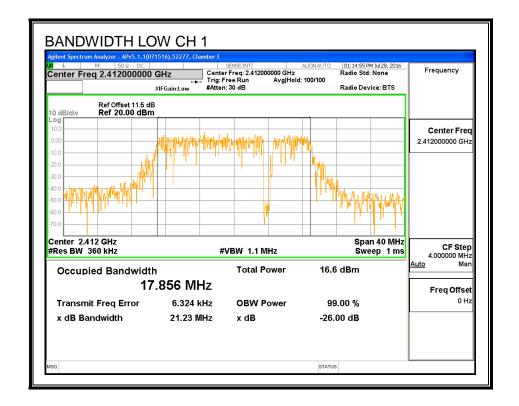
LIMITS

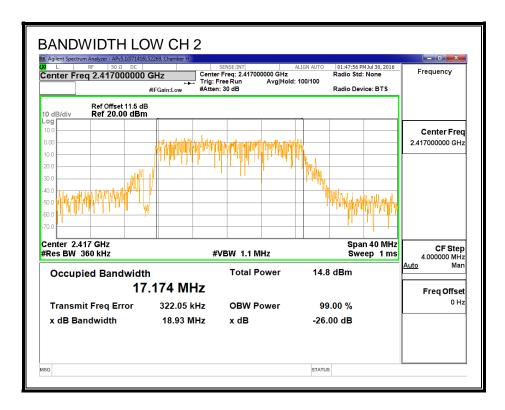
None; for reporting purposes only.

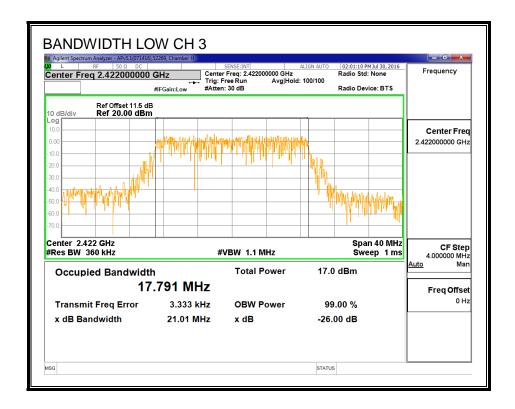
RESULTS

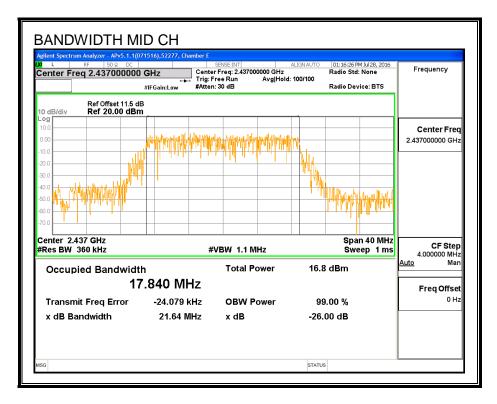
Channel	Frequency	99% Bandwidth		
	(MHz)	(MHz)		
Low_1	2412	17.856		
Low_2	2417	17.174		
Low_3	2422	17.791		
Mid_6	2437	17.840		
High_10	2457	17.912		
High_11	2462	17.821		
High_12	2467	17.848		
High_13	2472	18.029		

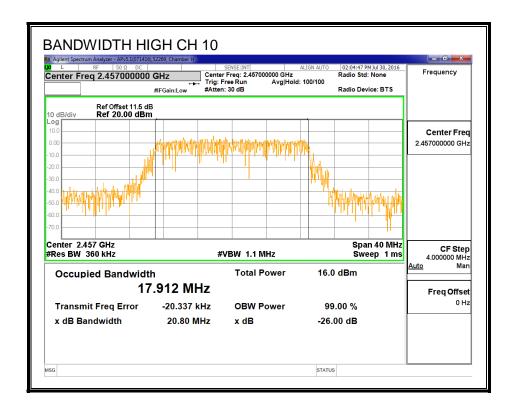
99% BANDWIDTH

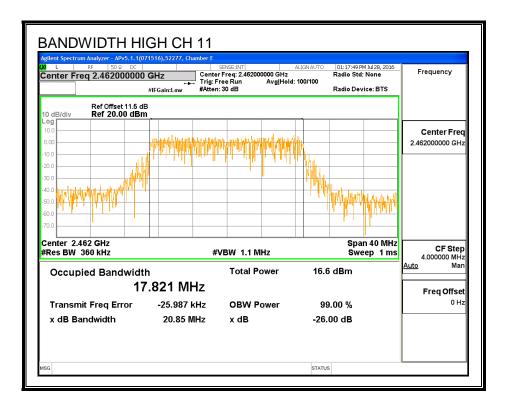


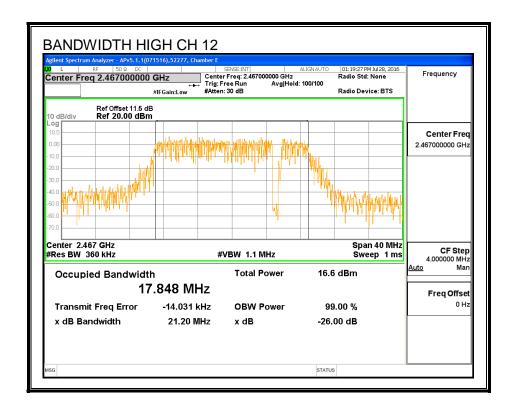


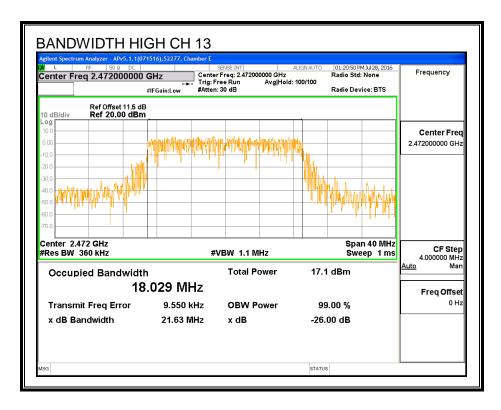












8.6.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	Power		
	(MHz)	(dBm)		
Low_1	2412	13.91		
Low_2	2417	15.45		
Low_3	2422	16.68		
Mid_6	2437	16.73		
High_10	2457	16.61		
High_11	2462	13.44		
High_12	2467	10.41		
High_13	2472	-0.21		

8.6.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator 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

ID : 39919	Date:	8/31/16
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Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
Low_1	2412	5.10	30.00	30	36	30.00
Low_2	2417	5.10	30.00	30	36	30.00
Low_3	2422	5.10	30.00	30	36	30.00
Mid_6	2437	5.10	30.00	30	36	30.00
High_10	2457	5.10	30.00	30	36	30.00
High_11	2462	5.10	30.00	30	36	30.00
High_12	2467	5.10	30.00	30	36	30.00
High_13	2472	5.10	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
, _ , (/		

Results

Channel	Frequency	Meas	Total	Power	Margin
		Power	Corr'd	Limit	
			Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low_1	2412	19.65	19.65	30.00	-10.35
Low_2	2417	21.47	21.47	30.00	-8.53
Low_3	2422	23.91	23.91	30.00	-6.09
Mid_6	2437	24.11	24.11	30.00	-5.89
High_10	2457	23.82	23.82	30.00	-6.18
High_11	2462	19.23	19.23	30.00	-10.77
High_12	2467	16.74	16.74	30.00	-13.26
High_13	2472	6.18	6.18	30.00	-23.82

8.6.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

For digitally modulated systems, the power spectral density conducted form the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

RESULTS

Duty Cycle CF (dB) 0.00 Included in Calculations of Corr'd PS						of Corr'd PSD	
PSD Results							
Channel	Frequency		Total	Limit	Margin		
		Meas	Corr'd				
	(MHz)	(dBm)	PSD				
			(dBm)	(dBm)	(dB)		
Low_1	2412	-10.88	-10.88	8.0	-18.9		
Low_2	2417	-8.87	-8.87	8.0	-16.9		
Low_3	2422	-8.16	-8.16	8.0	-16.2		
Mid_6	2437	-7.84	-7.84	8.0	-15.8		
High_10	2457	-8.36	-8.36	8.0	-16.4		
High_11	2462	-11.63	-11.63	8.0	-19.6		
High_12	2467	-15.12	-15.12	8.0	-23.1		
High_13	2472	-22.35	-22.35	8.0	-30.4		

<u>PSD</u>

