

11g 2TX CDD MIMO MODE IN THE 2.4GHz BAND 9.3.

9.3.1. 6 dB BANDWIDTH

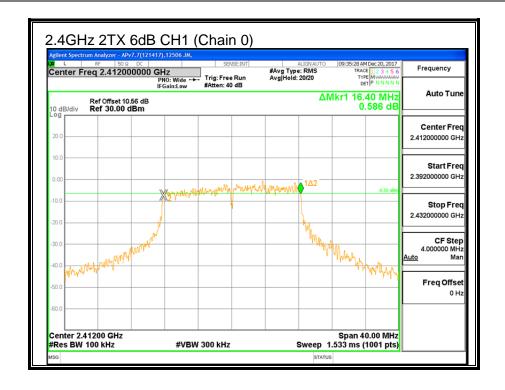
LIMITS

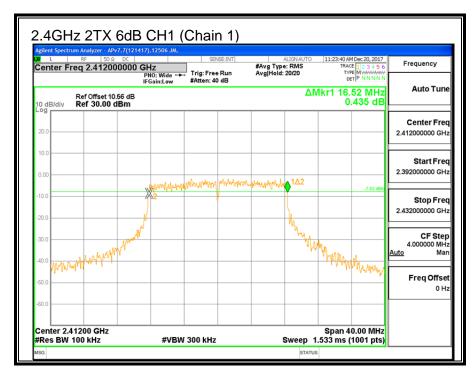
FCC §15.247 (a) (2)

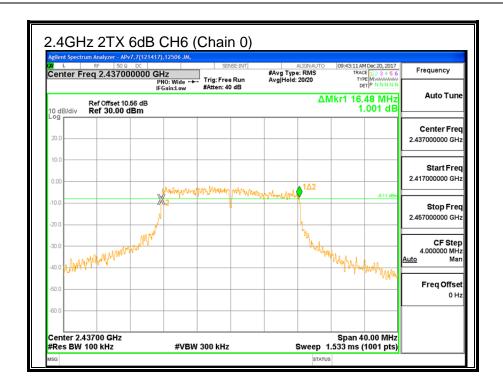
The minimum 6 dB bandwidth shall be at least 500 kHz.

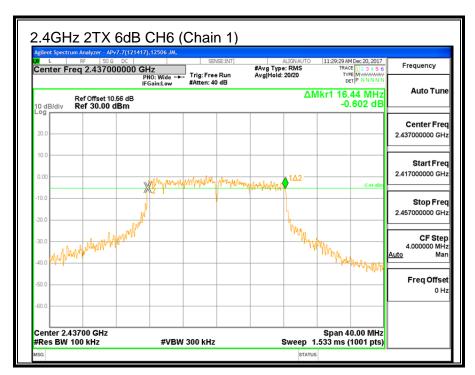
RESULTS

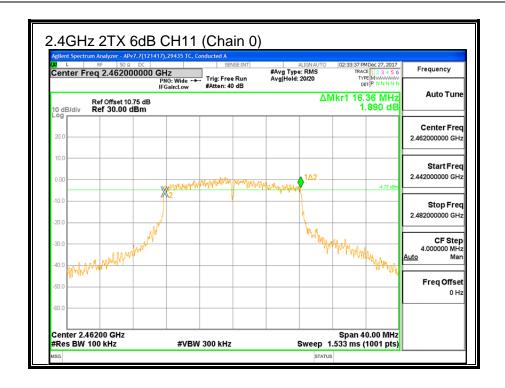
Channel	Frequency	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)	
CH1	2412	16.40	16.52	0.5	
CH6	2437	16.48	16.44	0.5	
CH11	2462	16.36	16.36	0.5	
CH12	2467	16.32	16.44	0.5	
CH13	2472	16.48	16.36	0.5	

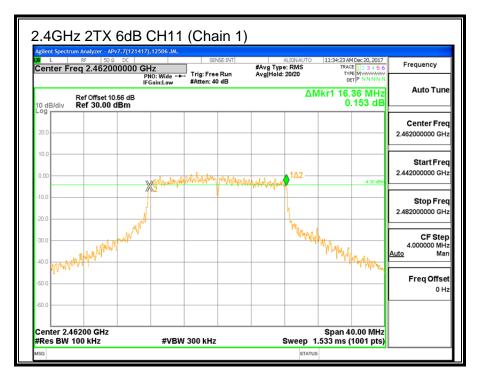


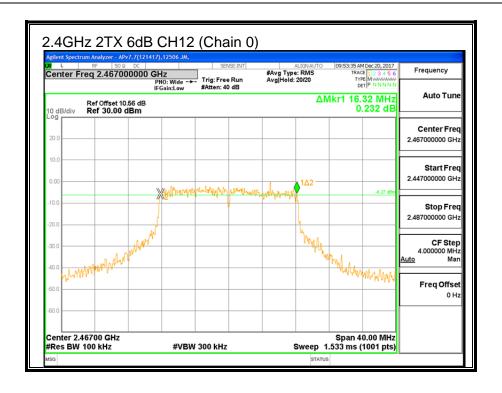


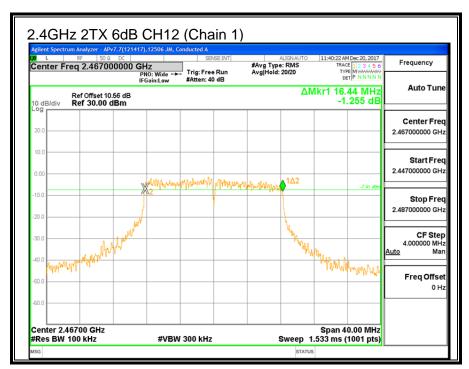


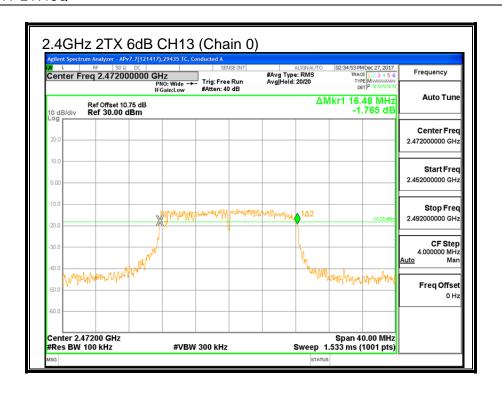


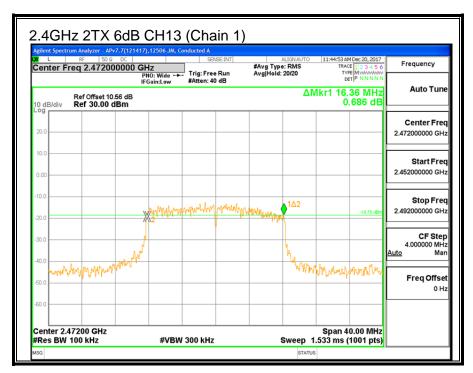












REPORT NO: 12081839-E4V3 DATE: JANUARY 24, 2018 FCC ID: PY7-24118Q

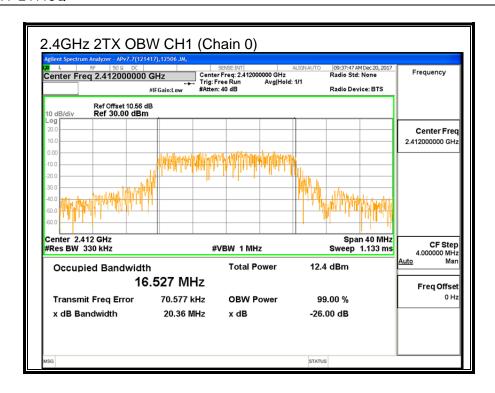
9.3.2. 99% BANDWIDTH

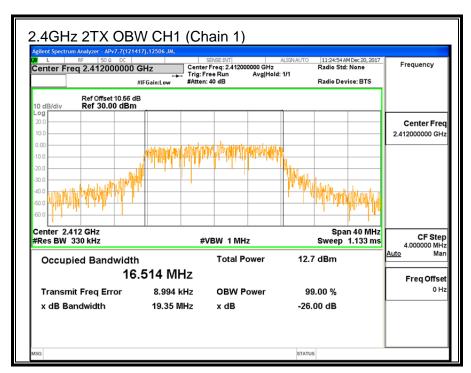
LIMITS

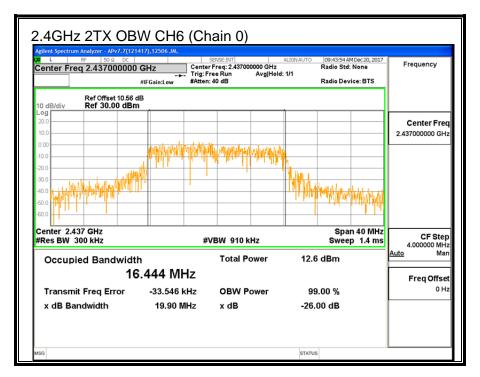
None; for reporting purposes only.

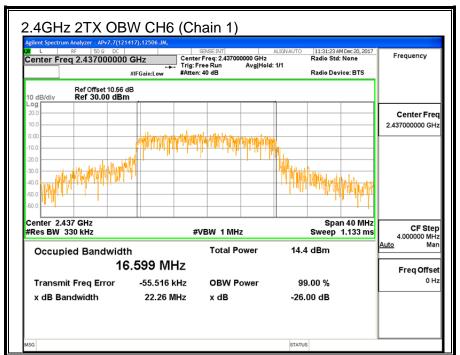
RESULTS

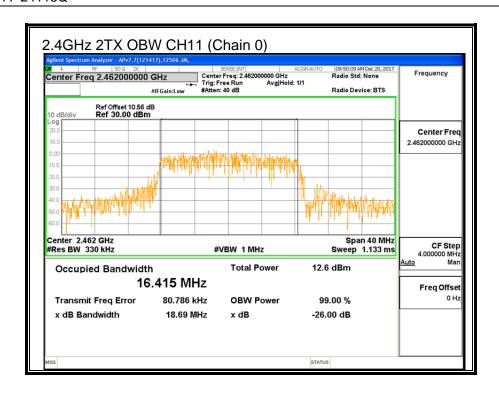
Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
CH1	2412	16.527	16.514
CH6	2437	16.444	16.599
CH11	2462	16.415	16.444
CH12	2467	16.483	16.549
CH13	2472	16.440	16.382

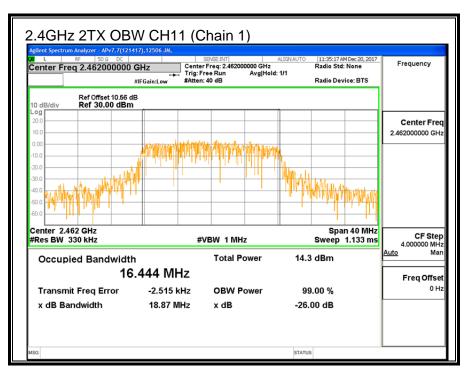


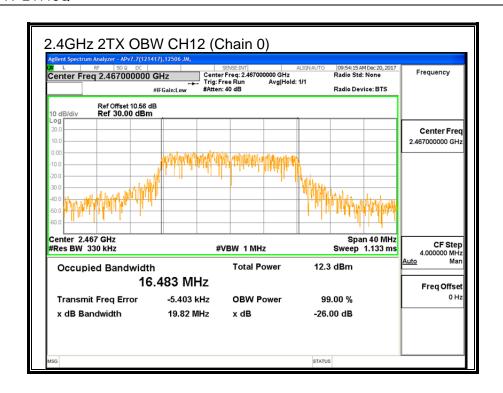


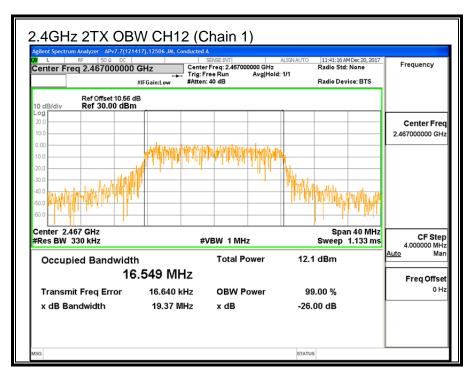


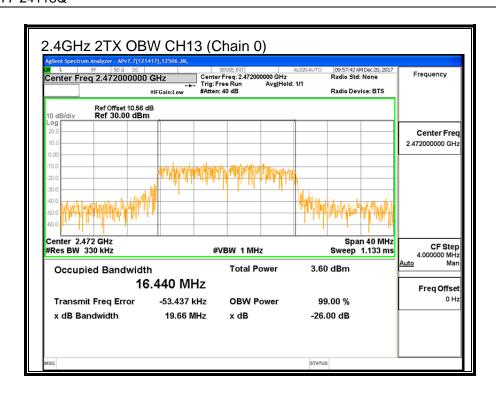


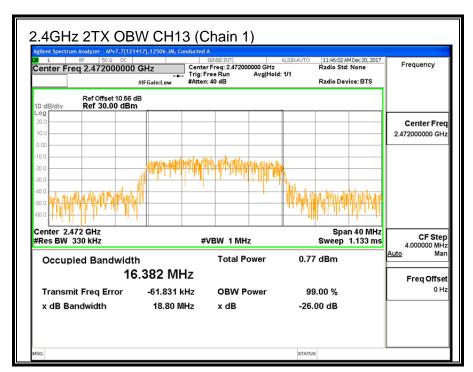












REPORT NO: 12081839-E4V3 DATE: JANUARY 24, 2018 FCC ID: PY7-24118Q

9.3.3. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

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.

TEST PROCEDURE

KDB 58074 D01 v04 Section 9.2.3.2

DIRECTIONAL ANTENNA GAIN

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)
-3.94	-9.83	-5.95

REPORT NO: 12081839-E4V3 DATE: JANUARY 24, 2018 FCC ID: PY7-24118Q

RESULTS

Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
CH1	2412	-5.95	30.00	30	36	30.00
CH6	2437	-5.95	30.00	30	36	30.00
CH11	2462	-5.95	30.00	30	36	30.00
CH12	2467	-5.95	30.00	30	36	30.00
CH13	2472	-5.95	30.00	30	36	30.00

Results

Channel	Frequency	Chain 0	Chain 1	Total	Power	Margin
		Meas	Meas	Corr'd	Limit	
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
CH1	2412	12.35	13.02	15.71	30.00	-14.29
CH6	2437	12.39	14.53	16.60	30.00	-13.40
CH11	2462	12.27	14.70	16.66	30.00	-13.34
CH12	2467	12.33	12.60	15.48	30.00	-14.52
CH13	2472	3.55	1.01	5.47	30.00	-24.53

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

9.3.4. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

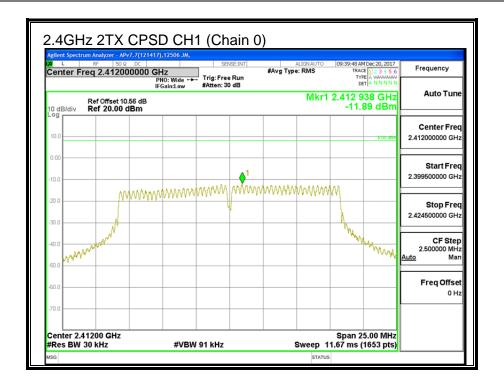
For digitally modulated systems, the power spectral density conducted form the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

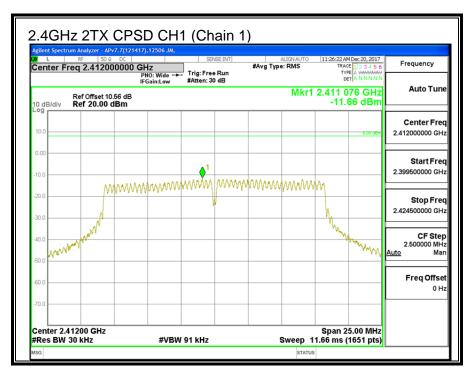
RESULTS

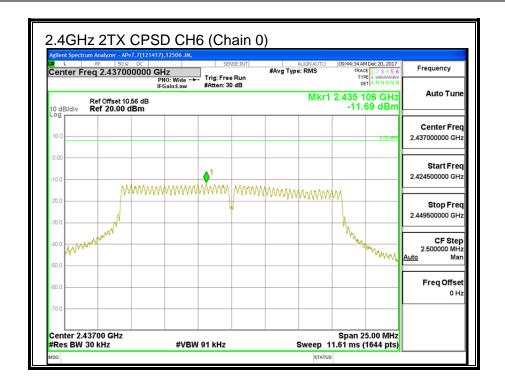
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

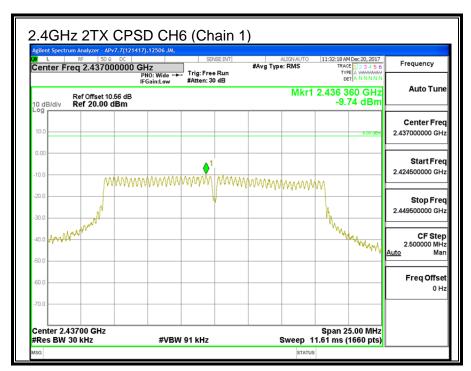
PSD Results

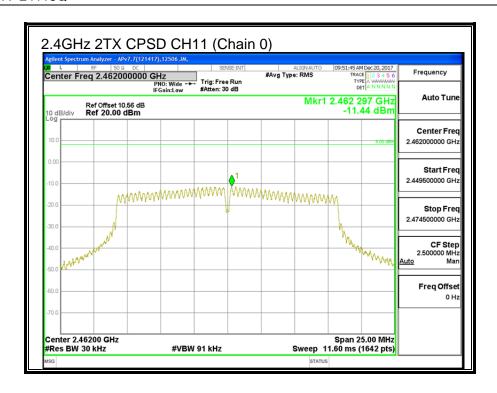
Channel	Frequency	Chain 0	Chain 1	Total	Limit	Margin
		Meas	Meas	Corr'd		
	(MHz)	(dBm)	(dBm)	PSD		
				(dBm)	(dBm)	(dB)
CH1	2412	-11.89	-11.66	-8.76	8.0	-16.8
CH6	2437	-11.69	-9.74	-7.60	8.0	-15.6
CH11	2462	-11.44	-9.19	-7.16	8.0	-15.2
CH12	2467	-12.11	-11.83	-8.96	8.0	-17.0
CH13	2472	-20.48	-23.37	-18.68	8.0	-26.7

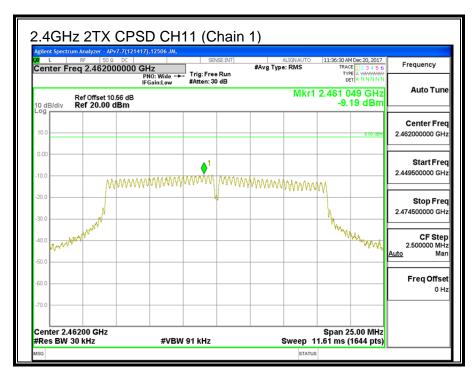


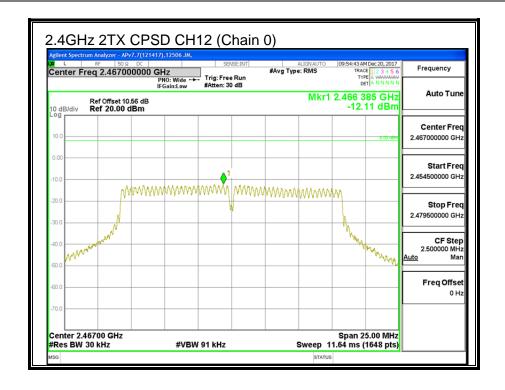


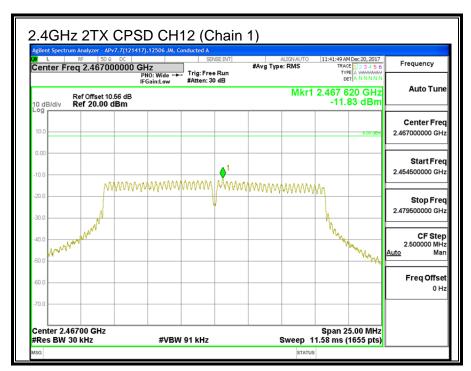


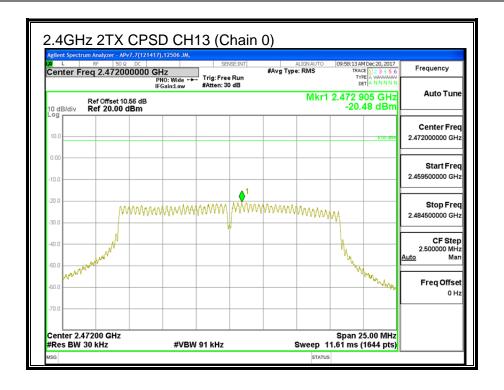


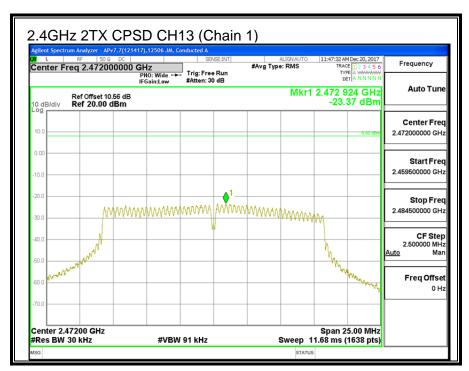












9.3.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

