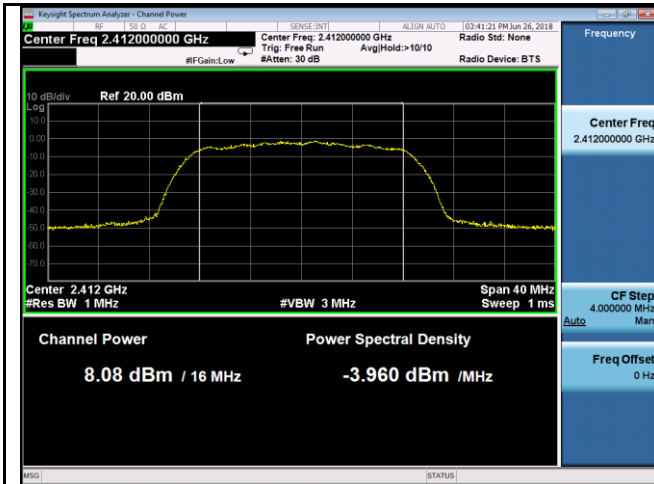
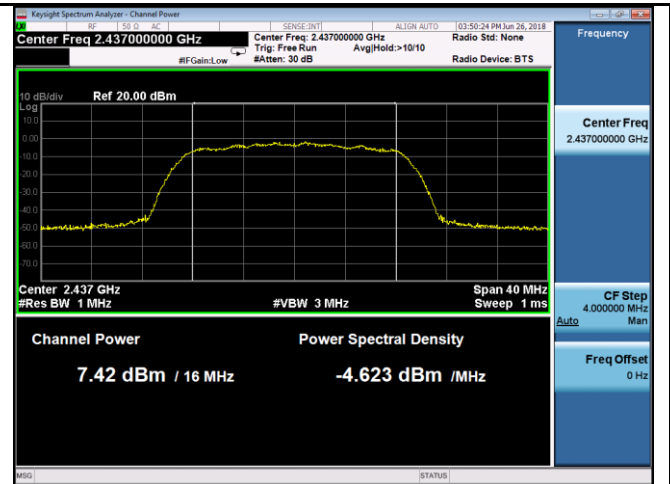
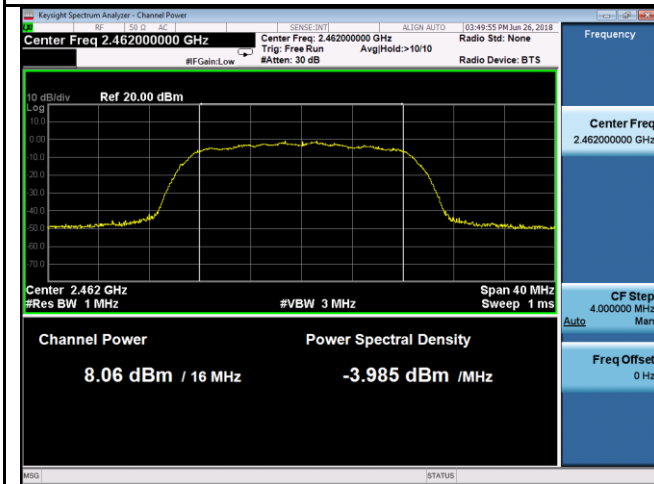




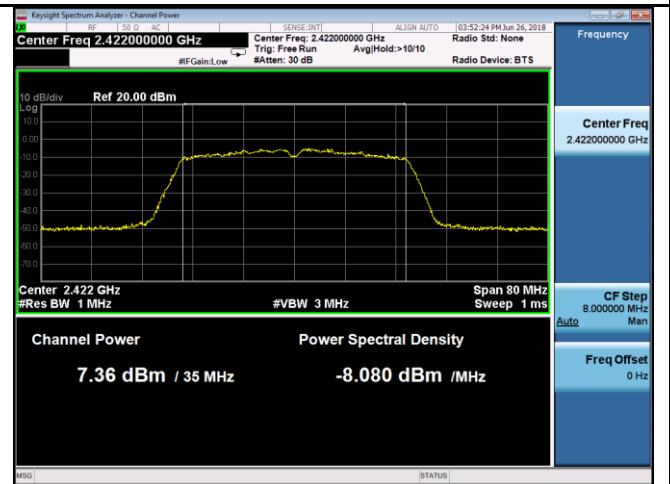
802.11n20 - PK Output power - Low CH 2412



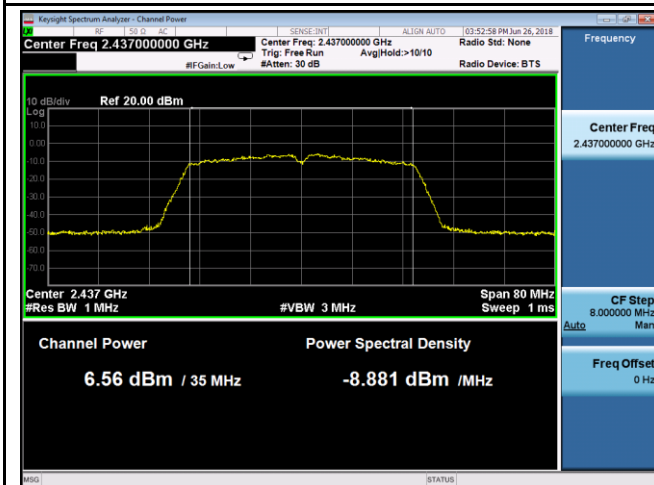
802.11n20 - PK Output power - Mid CH 2437



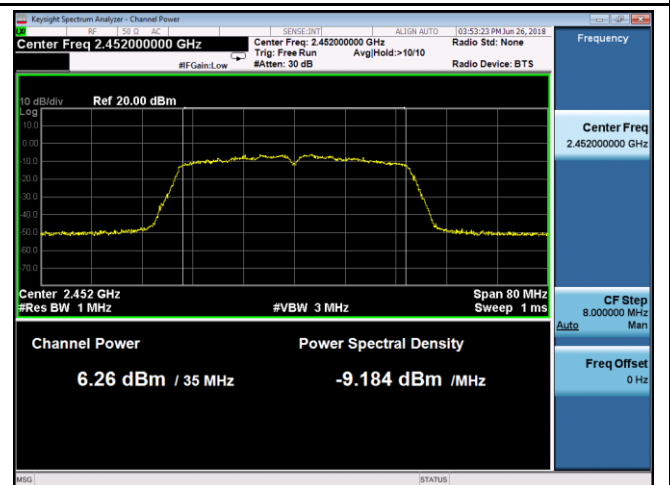
802.11n20 - PK Output power - High CH 2462



802.11n40 - PK Output power - Low CH 2422

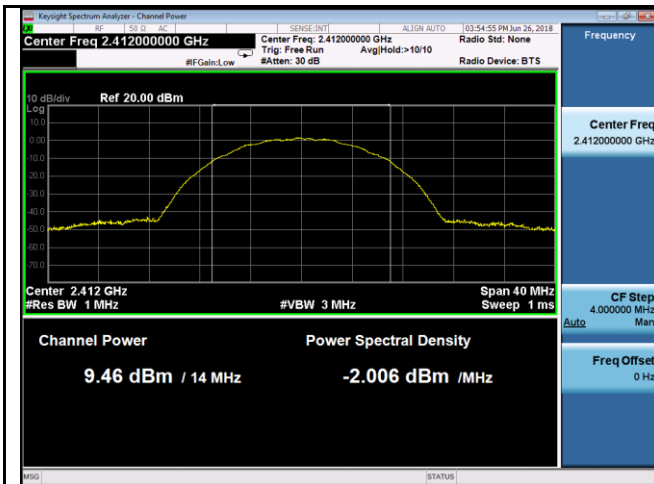


802.11n40 - PK Output power - Mid CH 2437

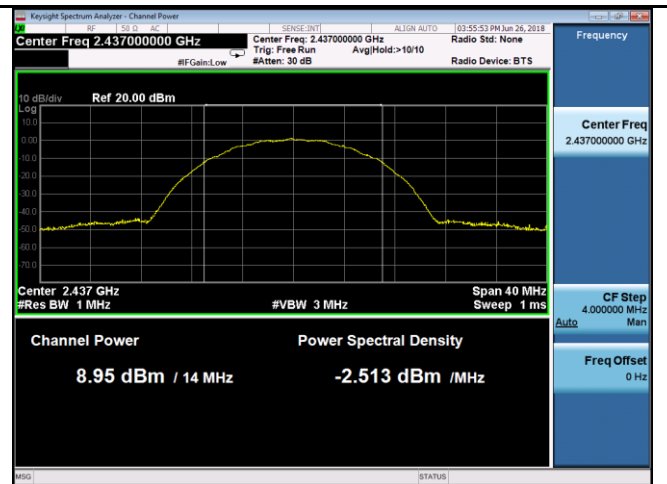


802.11n40 - PK Output power - High CH 2452

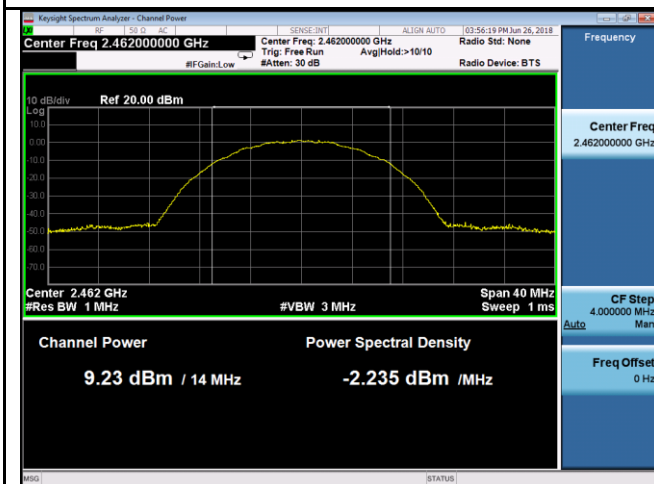
Ant. 1



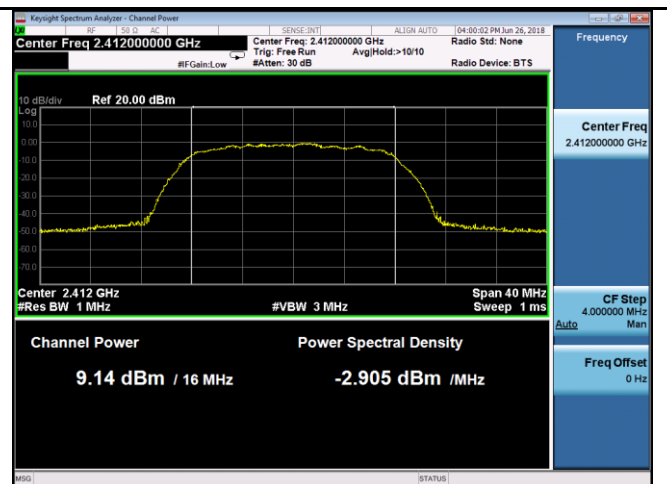
802.11b - PK Output power - Low CH 2412



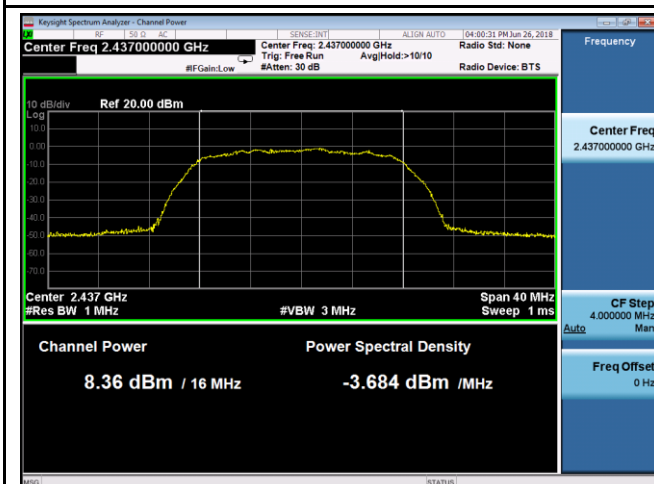
802.11b - PK Output power - Mid CH 2437



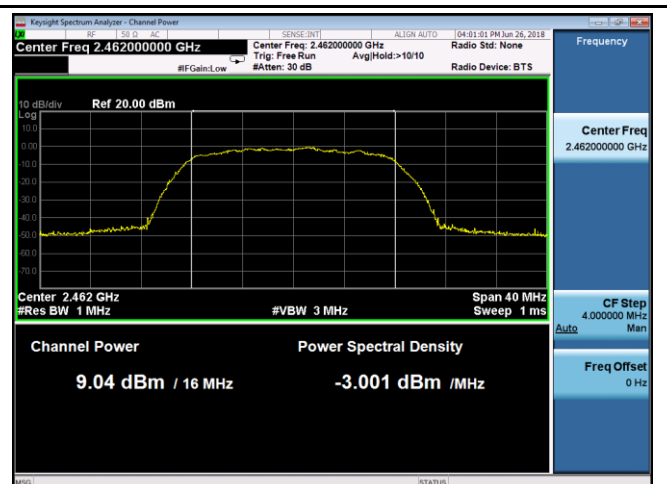
802.11b - PK Output power - High CH 2462



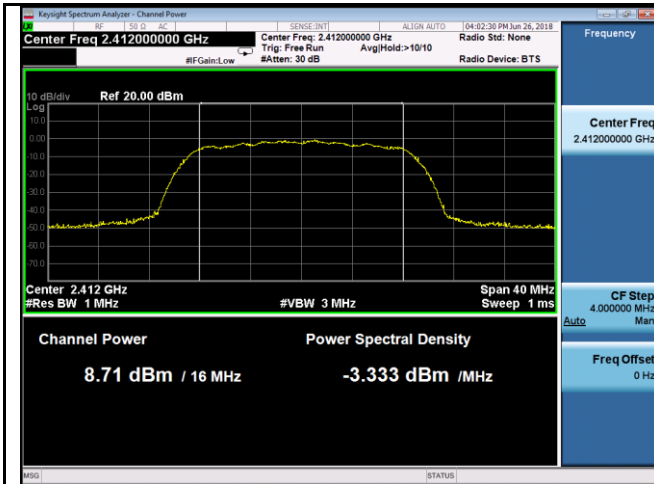
802.11g - PK Output power - Low CH 2412



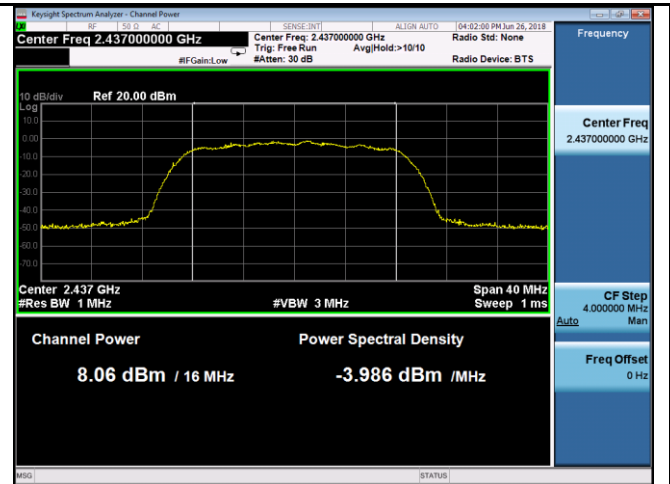
802.11g - PK Output power - Mid CH 2437



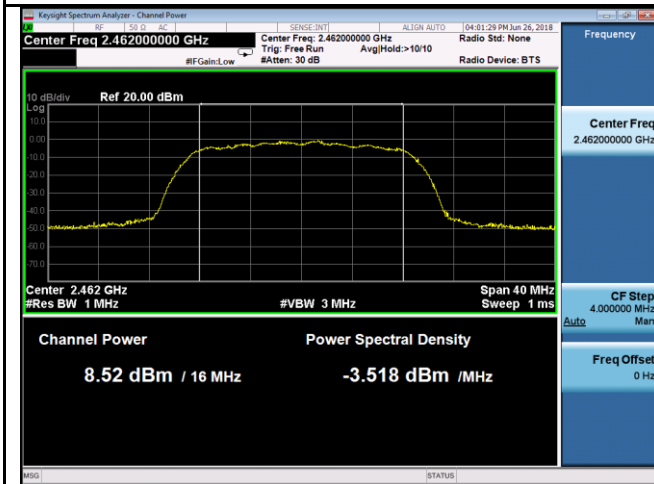
802.11g - PK Output power - High CH 2462



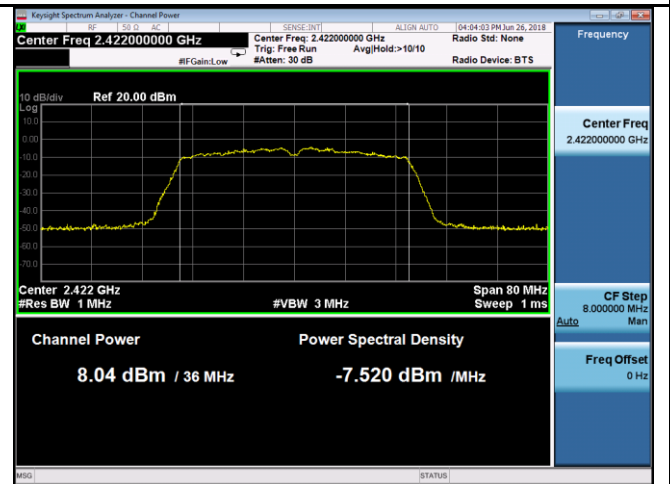
802.11n20 - PK Output power - Low CH 2412



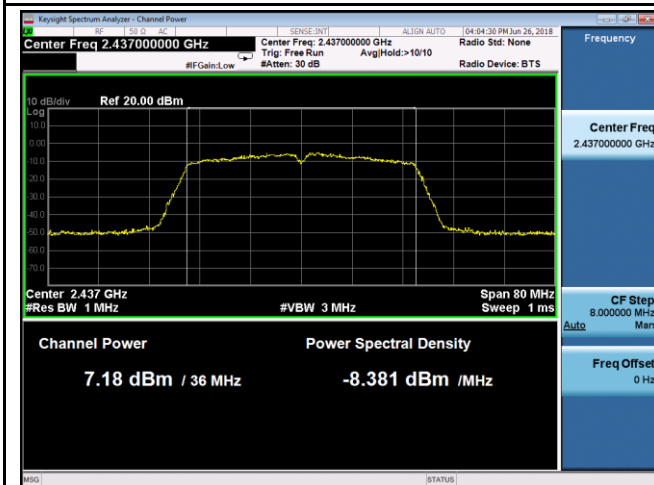
802.11n20 - PK Output power - Mid CH 2437



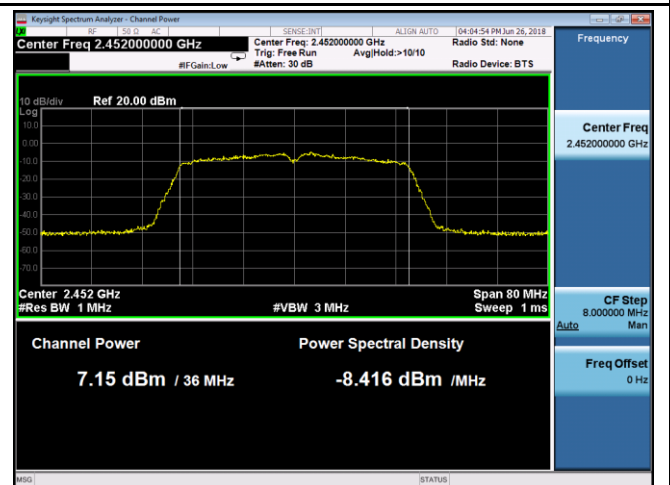
802.11n20 - PK Output power - High CH 2462



802.11n40 - PK Output power - Low CH 2422



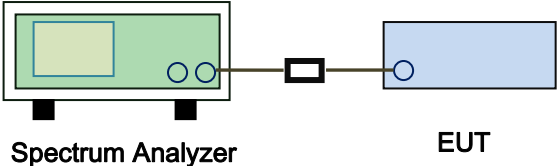
802.11n40 - PK Output power - Mid CH 2437



802.11n40 - PK Output power - High CH 2452

6.4 Power Spectral Density

Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1017mbar
Test date :	June 13, 2018
Tested By :	Aaron Liang

Spec	Item	Requirement	Applicable
§15.247(e)	a)	The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	☒
Test Setup	 Spectrum Analyzer EUT		
Test Procedure	558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power spectral density measurement procedure - a) Set analyzer center frequency to DTS channel center frequency. - b) Set the span to 1.5 times the DTS bandwidth. - c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. - d) Set the VBW $\geq 3 \times \text{RBW}$. - e) Detector = peak. - f) Sweep time = auto couple. - g) Trace mode = max hold. - h) Allow trace to fully stabilize. - i) Use the peak marker function to determine the maximum amplitude level within the RBW. - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.		
Remark			
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A
 Test Plot ☒ Yes (See below) ☐ N/A

Power Spectral Density measurement result

Type	Modulation	CH	Freq.(MHz)	An.0	An.1	Total	Limit(dBm)	Result
				PSD(dBm)	PSD(dBm)			
PSD	802.11b	Low	2412	-9.866	-9.203	/	8	Pass
		Mid	2437	-11.450	-11.108	/	8	Pass
		High	2462	-9.203	-8.376	/	8	Pass
	802.11g	Low	2412	-11.714	-10.39	/	8	Pass
		Mid	2437	-11.678	-13.616	/	8	Pass
		High	2462	-12.266	-9.913	/	8	Pass
	802.11n(20M)	Low	2412	-16.375	-10.268	-9.32	6	Pass
		Mid	2437	-11.512	-13.174	-9.25	6	Pass
		High	2462	-11.621	-11.374	-8.49	6	Pass
	802.11n(40M)	Low	2422	-11.486	-12.469	-8.94	6	Pass
		Mid	2437	-13.659	-16.825	-11.95	6	Pass
		High	2452	-12.765	-15.676	-10.97	6	Pass

Test Plots

Power Spectral Density measurement result

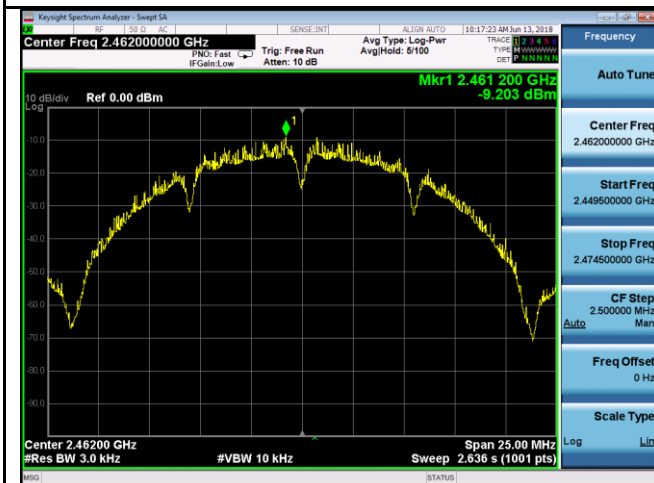
Ant.0



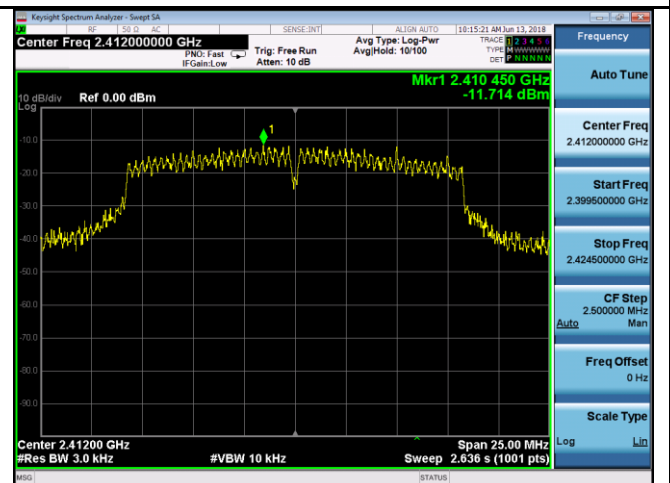
PSD - Low CH 2412 - 802.11b



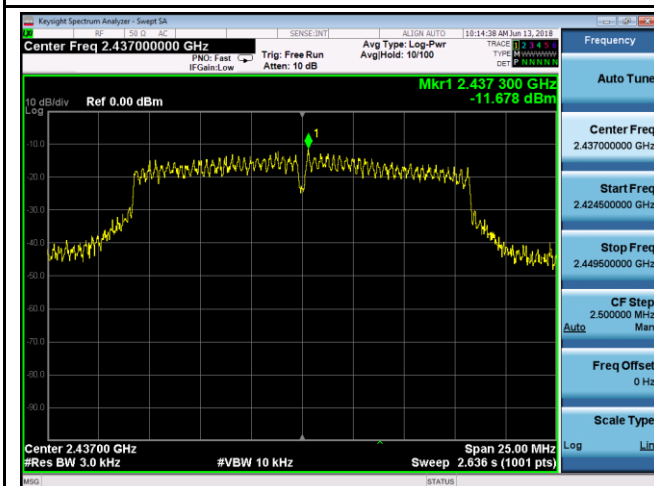
PSD - Mid CH 2437 - 802.11b



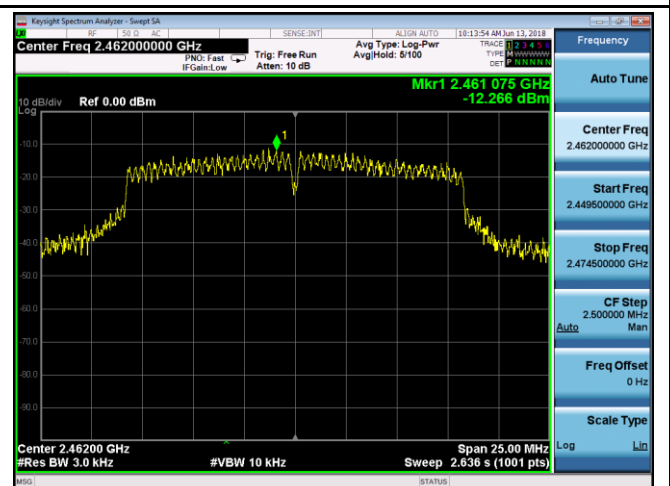
PSD - High CH 2462 - 802.11b



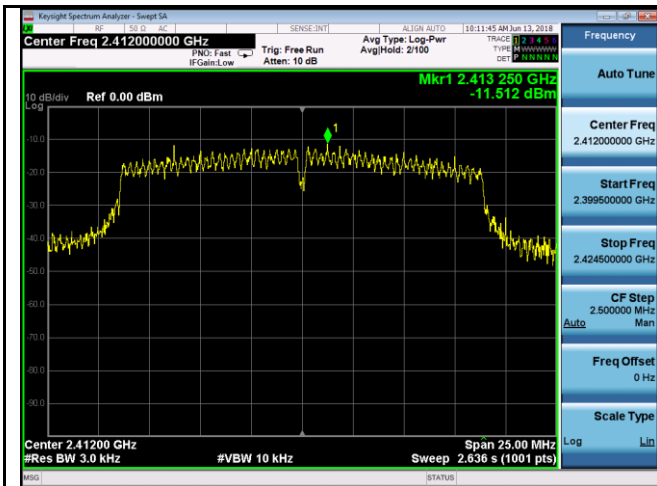
PSD - Low CH 2412 - 802.11g



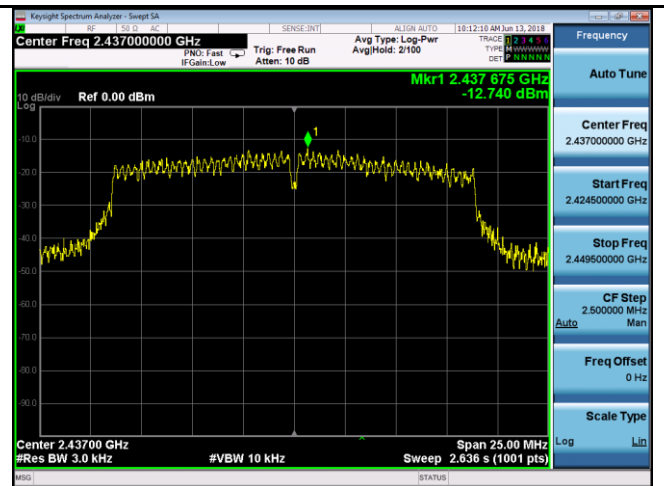
PSD - Mid CH 2437 - 802.11g



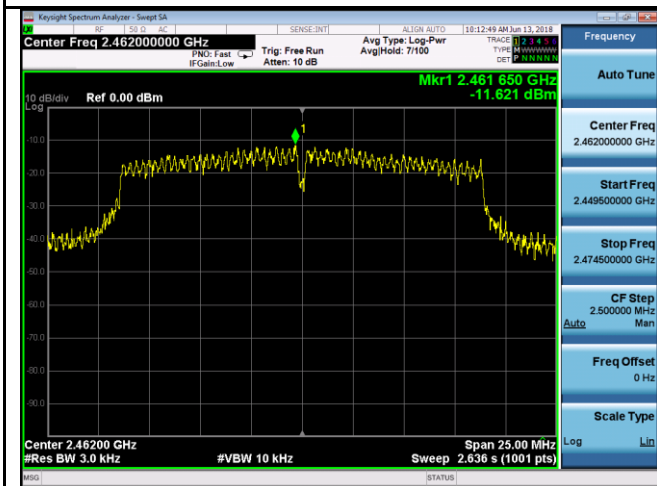
PSD - High CH 2462 - 802.11g



PSD - Low CH 2412 - 802.11n20



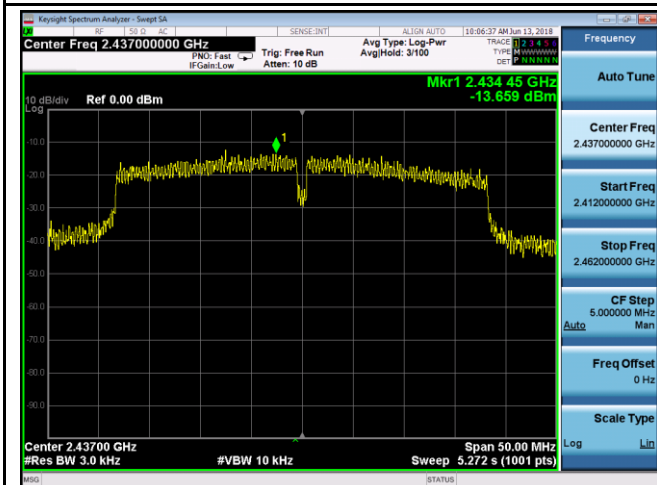
PSD - Mid CH 2437 - 802.11n20



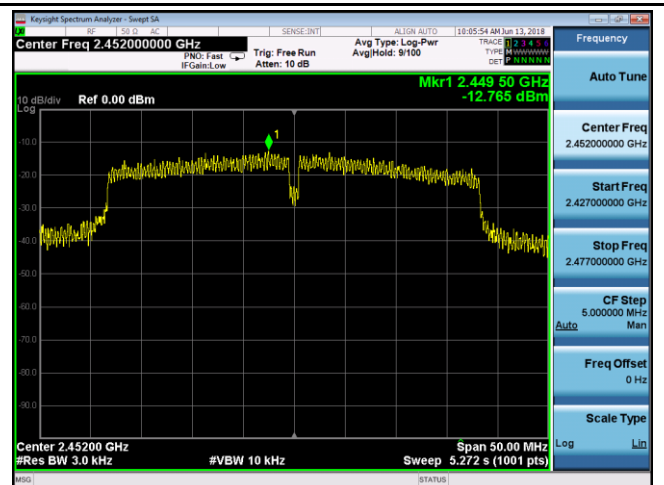
PSD - High CH 2472 - 802.11n20



PSD - Low CH 2422 - 802.11n40



PSD - Mid CH 2437 - 802.11n40



PSD - High CH 2452 - 802.11n40

Ant.1



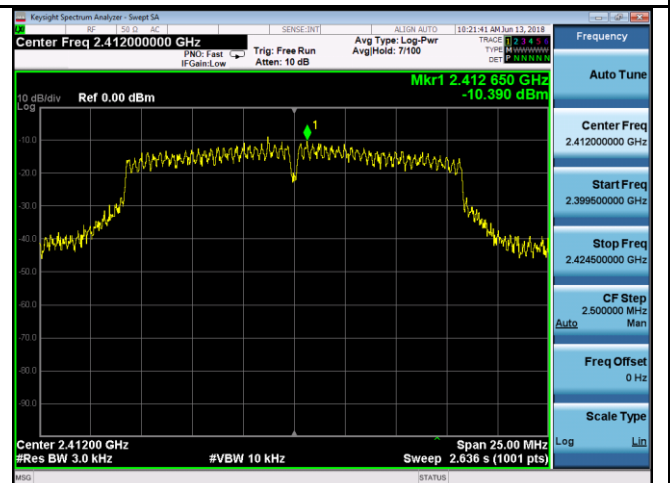
PSD - Low CH 2412 - 802.11b



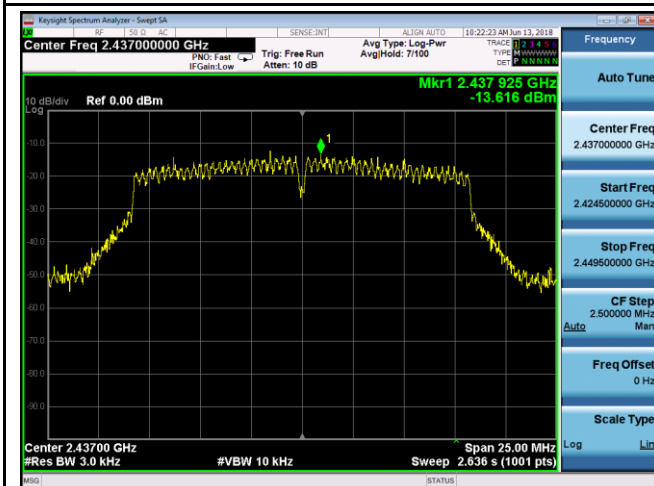
PSD - Mid CH 2437 - 802.11b



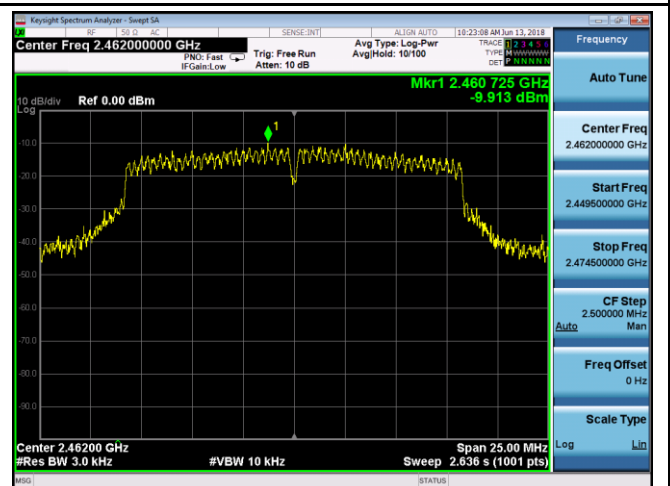
PSD - High CH 2462 - 802.11b



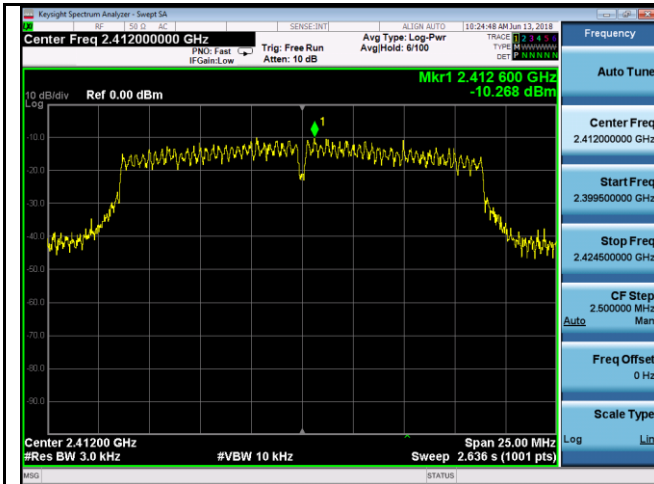
PSD - Low CH 2412 - 802.11g



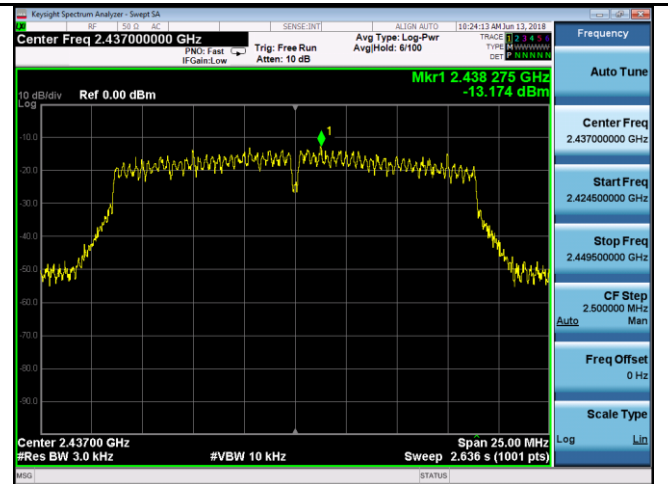
PSD - Mid CH 2437 - 802.11g



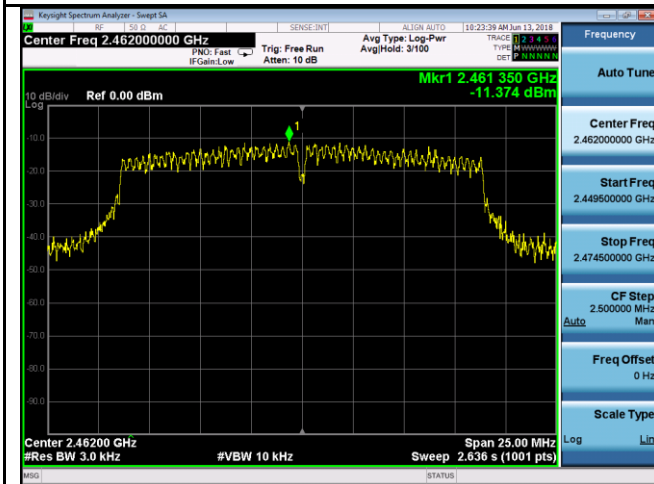
PSD - High CH 2462 - 802.11g



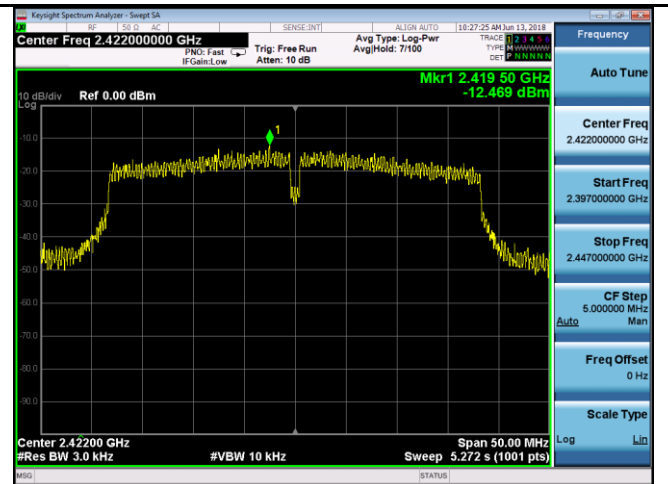
PSD - Low CH 2412 - 802.11n20



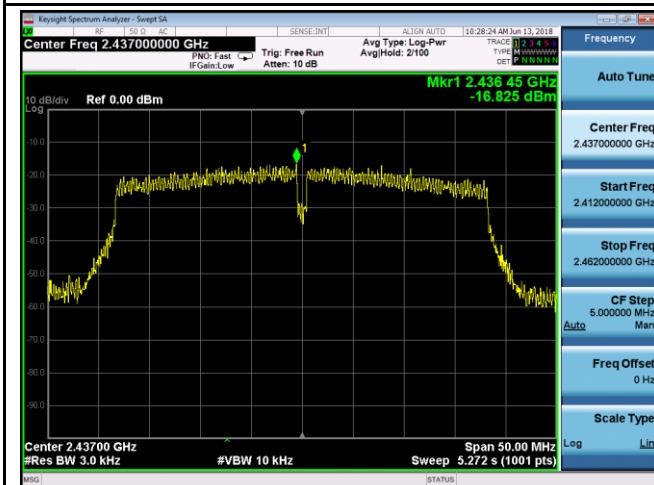
PSD - Mid CH 2437 - 802.11n20



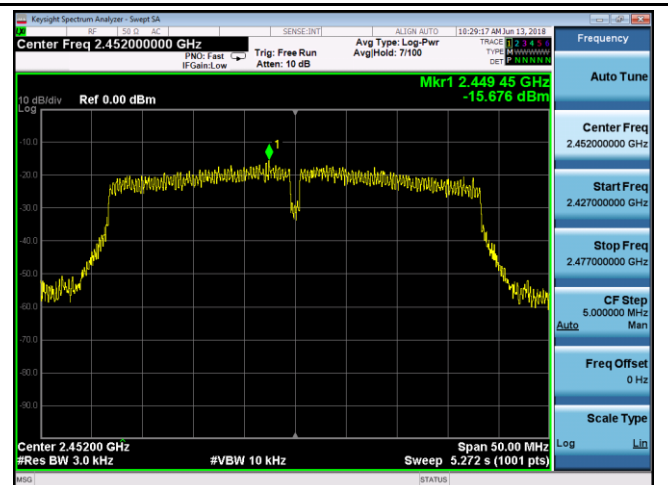
PSD - High CH 2472 - 802.11n20



PSD - Low CH 2422 - 802.11n40



PSD - Mid CH 2437 - 802.11n40



PSD - High CH 2452 - 802.11n40

6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1017mbar
Test date :	June 13, 2018
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(d)	a)	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.	☒

Test Setup	
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Test Procedure	Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
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