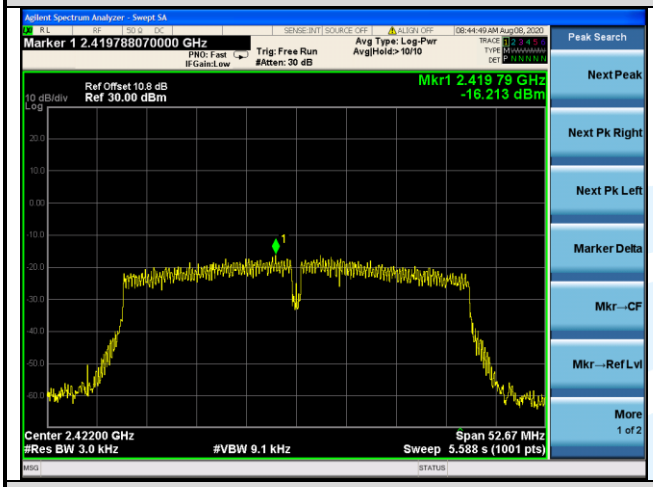
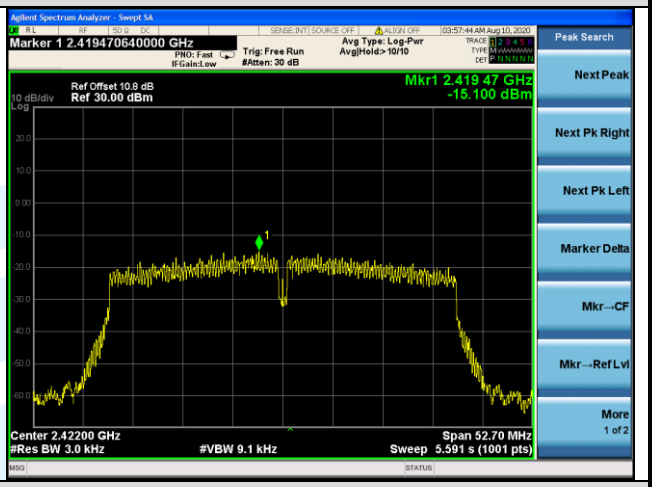
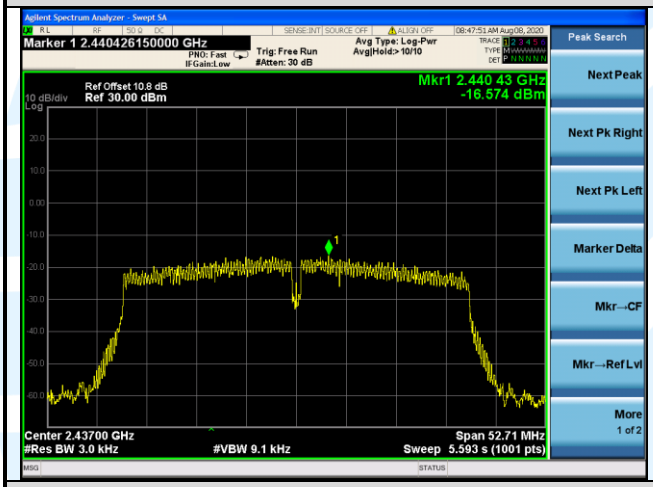
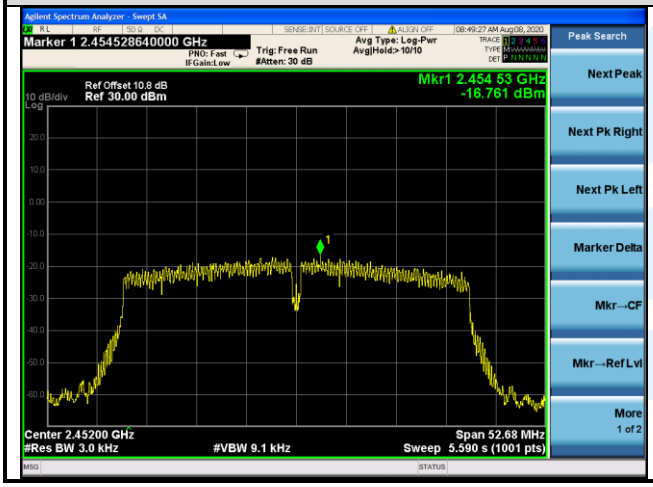
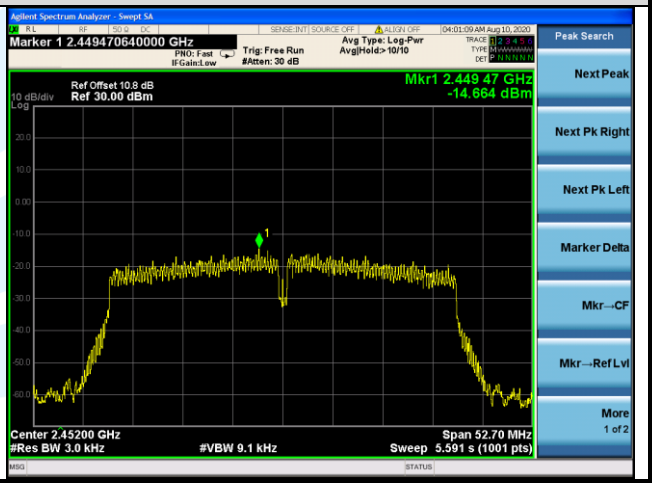
IEEE 802.11n-HT40	
MIMO_ Chain 0	MIMO_ Chain 1
Channel 3	
	
Channel 6	
	
Channel 9	
	

5.6 CONDUCTED OUT OF BAND EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(d)

Test Method: ANSI C63.10-2013 Clause 11.11

Limit: In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

Step 1:Measurement Procedure REF

a) Set instrument center frequency to DTS channel center frequency.
b) Set the span to ≥ 1.5 times the DTS bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ≥ 3 x 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 PSD level.
j) Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Step 2:Measurement Procedure OOBE

a) Set RBW = 100 kHz.
b) Set VBW ≥ 300 kHz.
c) Detector = peak.
d) Sweep = auto couple.
e) Trace Mode = max hold.
f) Allow trace to fully stabilize.
g) Use the peak marker function to determine the maximum amplitude level.

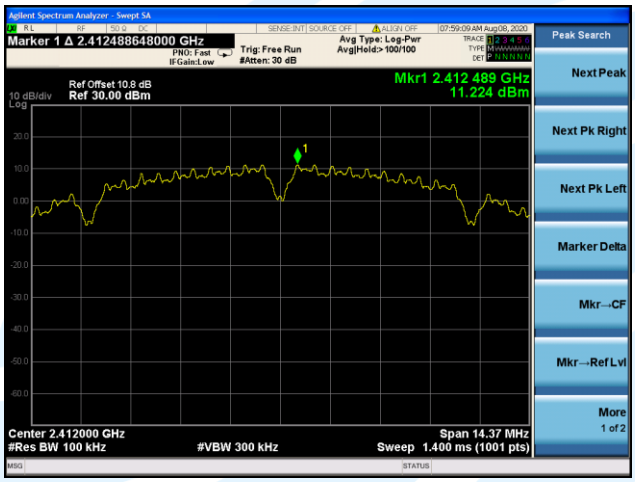
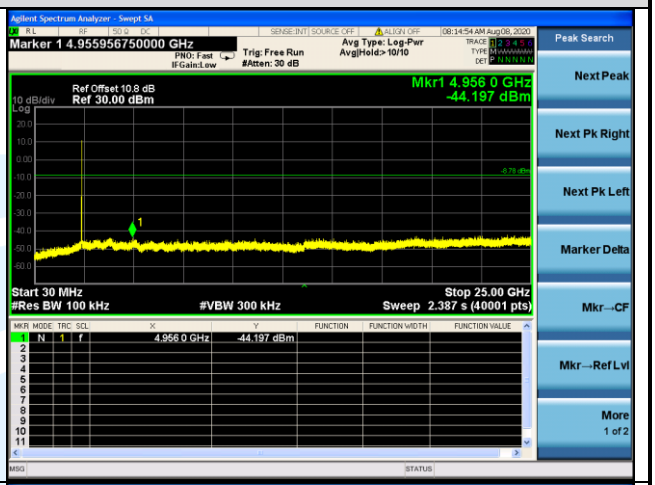
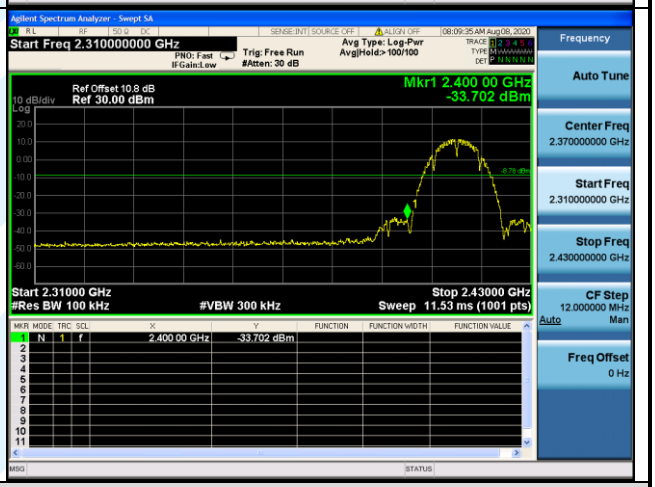
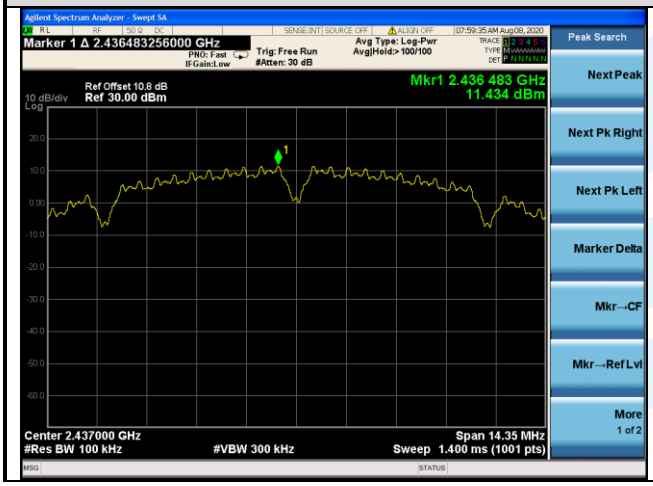
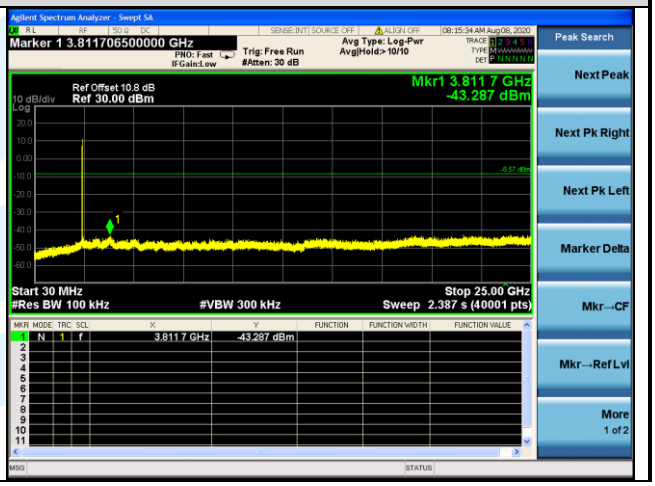
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

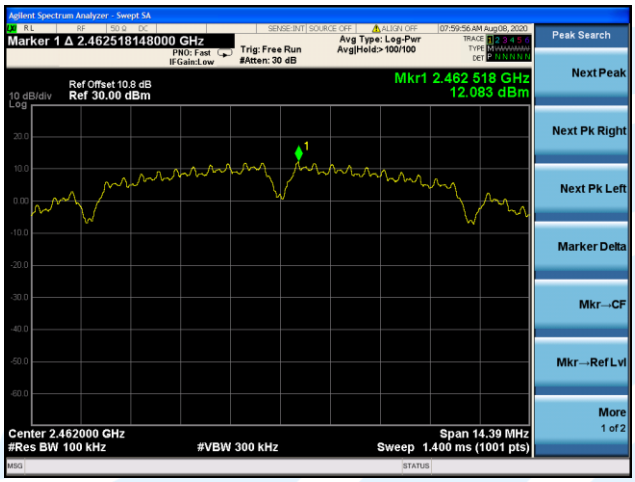
Instruments Used: Refer to section 3 for details

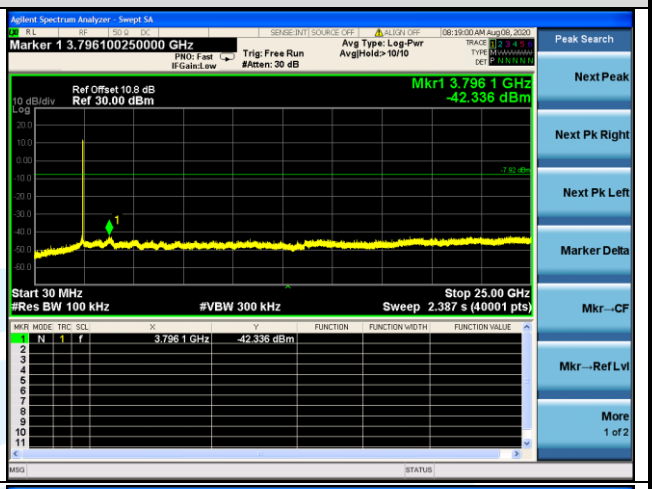
Test Results: Pass

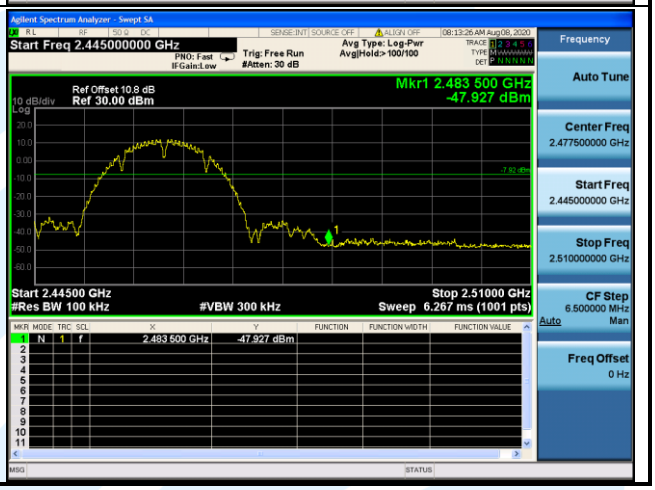
The test plots as follows:

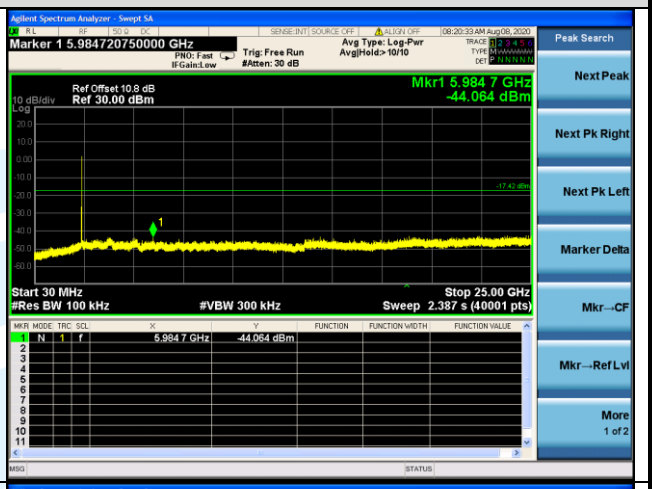
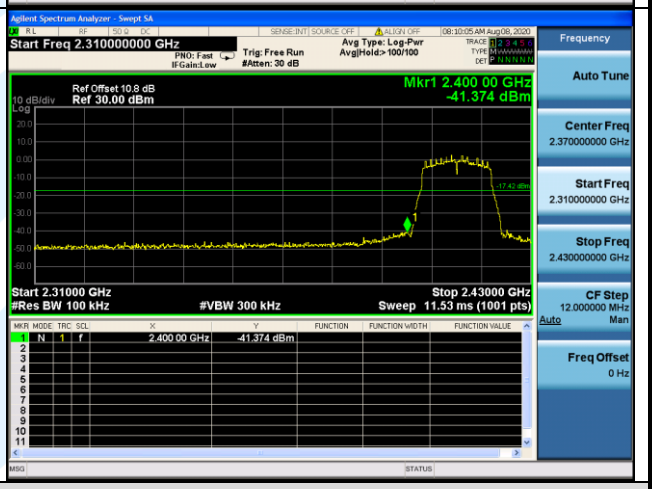
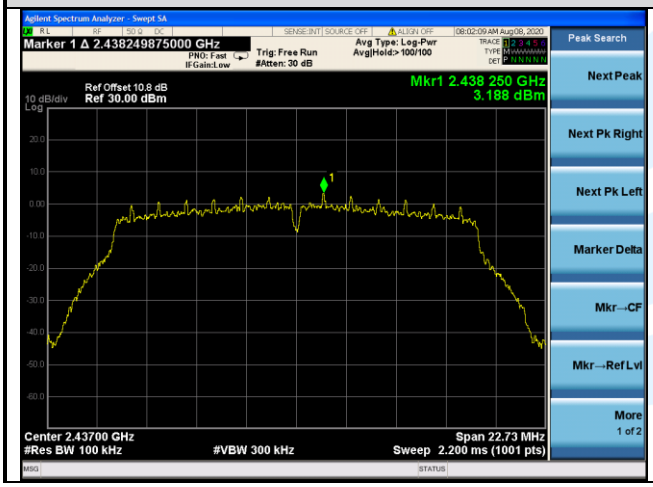
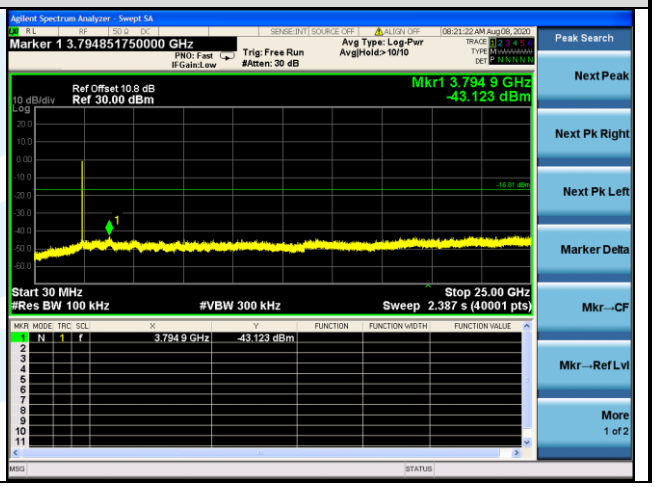
SISO_ Chain 0_ IEEE 802.11b	
In-Band Reference Level	**Out of Band Emission**
Lowest Channel	
	 
Middle Channel	
	

Highest Channel

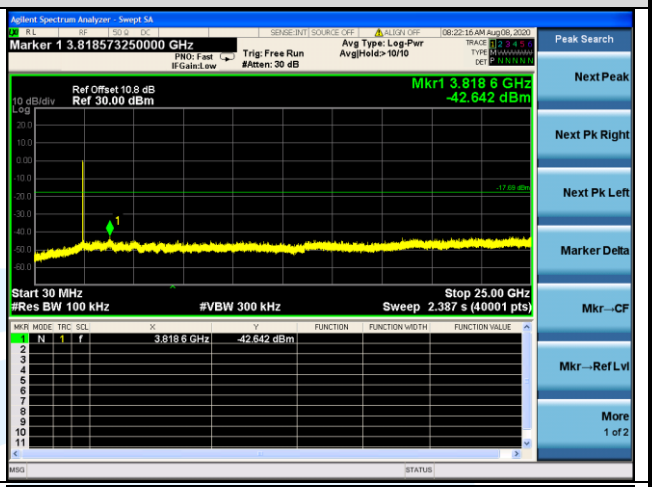


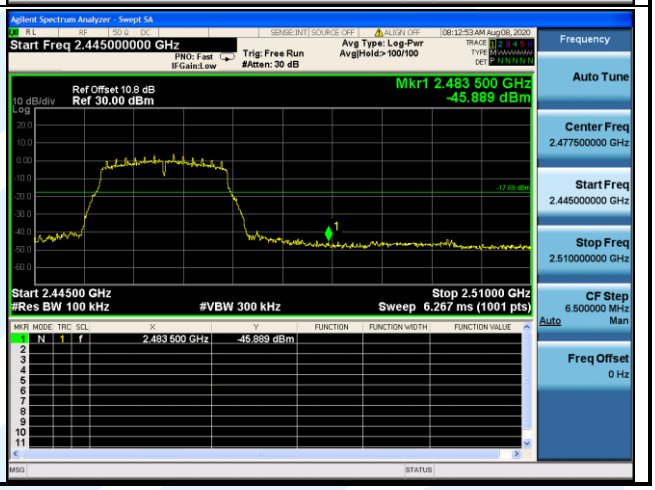


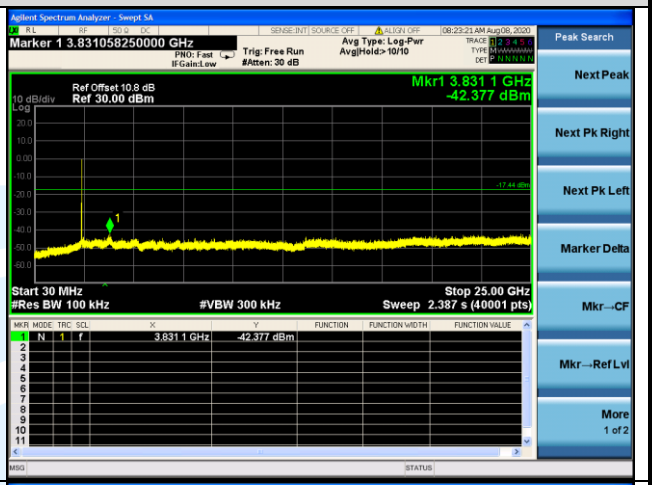
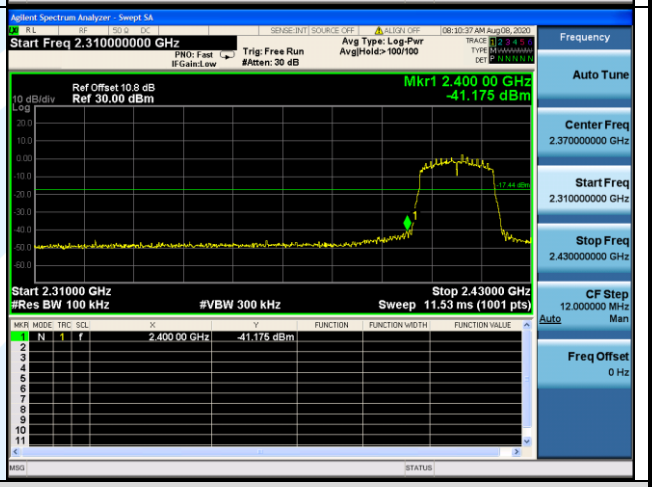
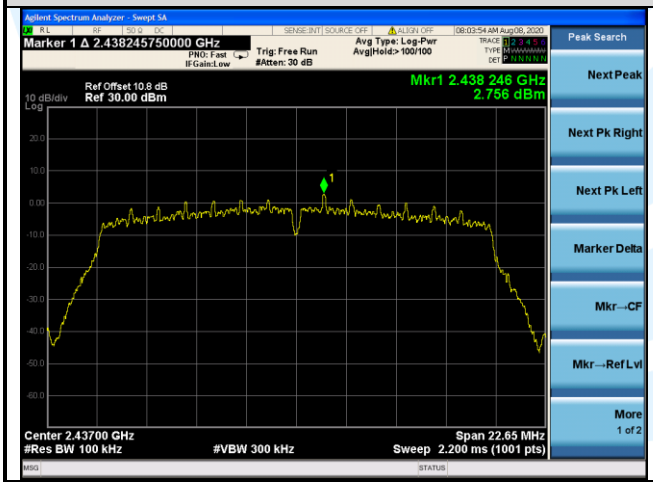
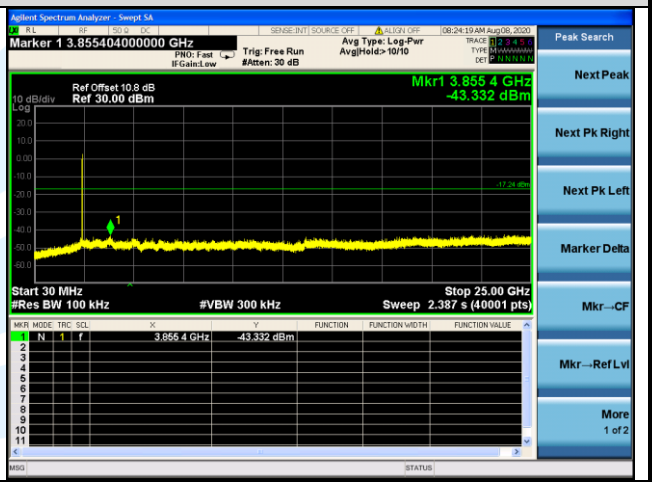


SISO_ Chain 0_ IEEE 802.11g	
In-Band Reference Level	**Out of Band Emission**
Lowest Channel	
	 
Middle Channel	
	

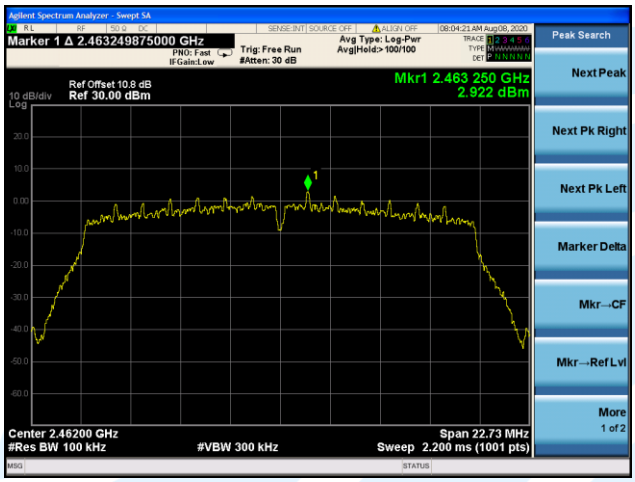
Highest Channel

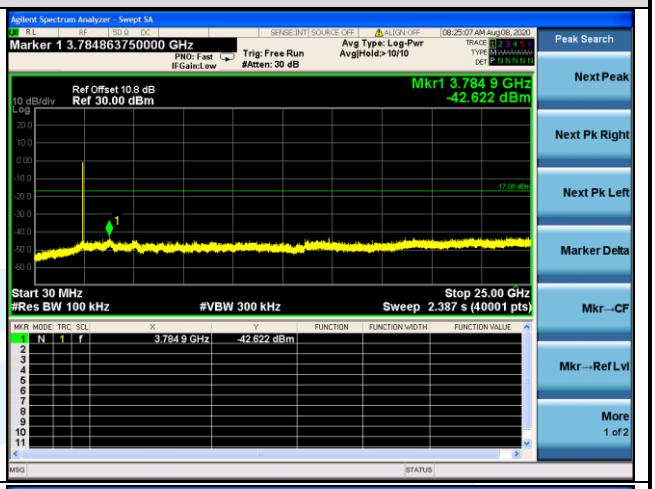


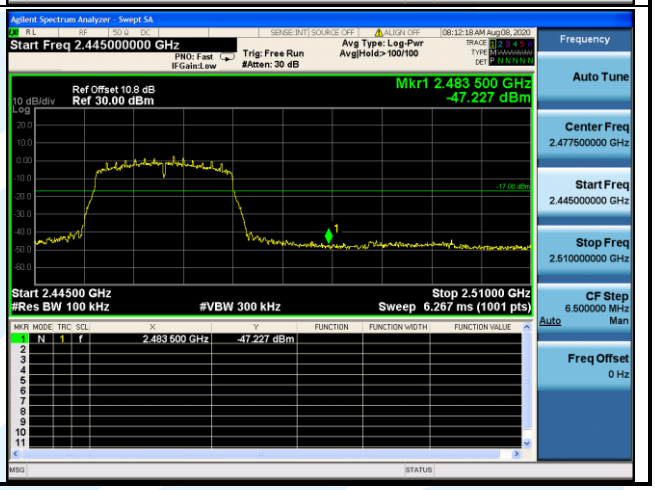


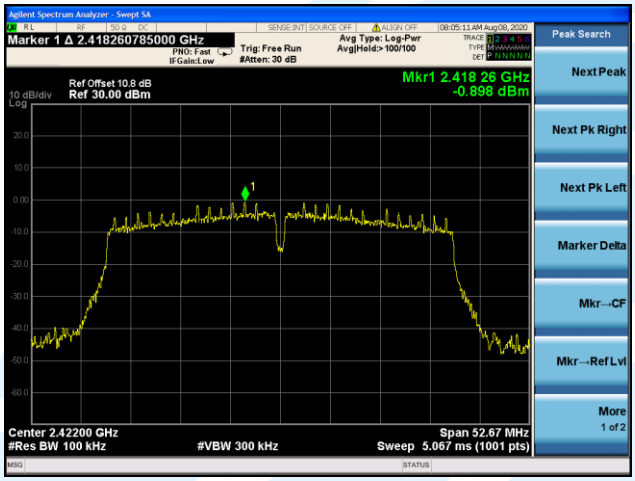
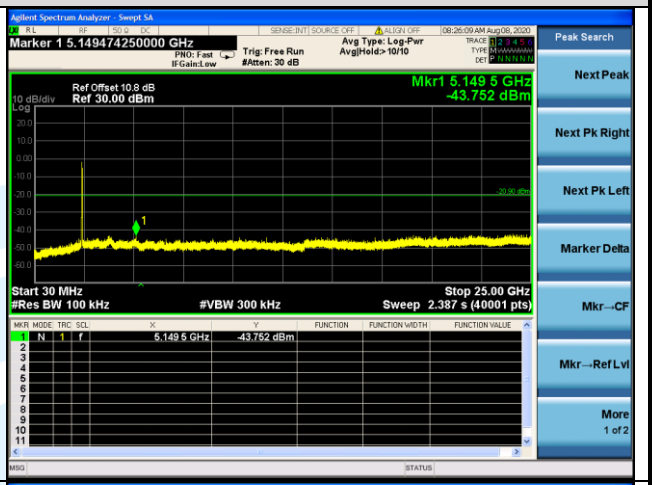
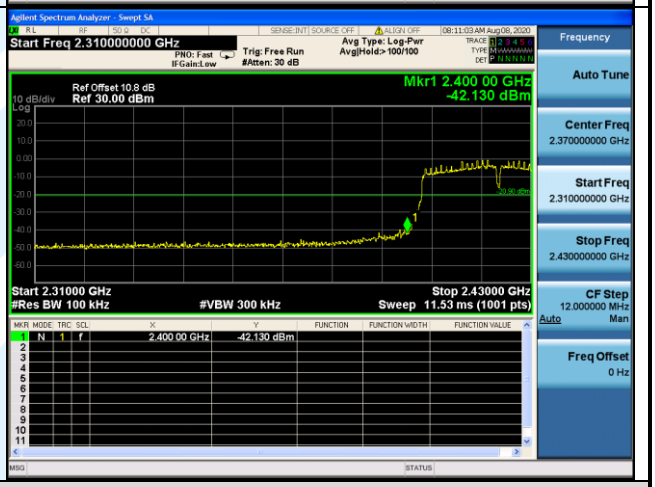
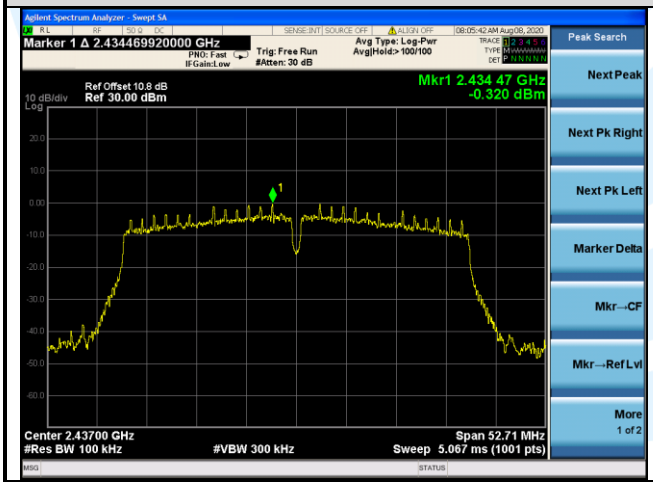
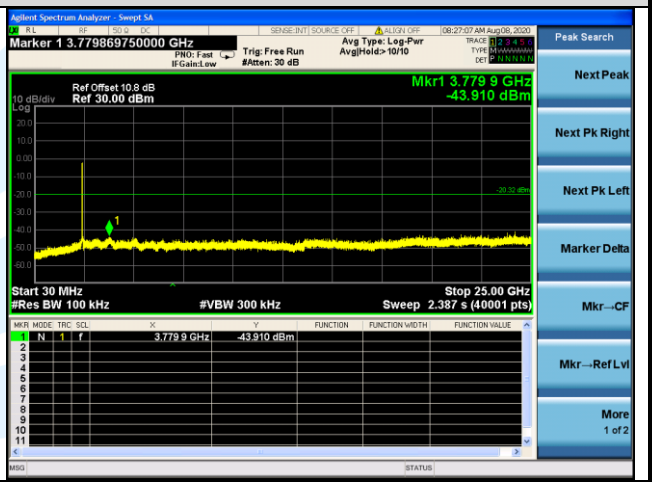
SISO_ Chain 0_ IEEE 802.11n-HT20	
In-Band Reference Level	**Out of Band Emission**
Lowest Channel	
	 
Middle Channel	
	

Highest Channel

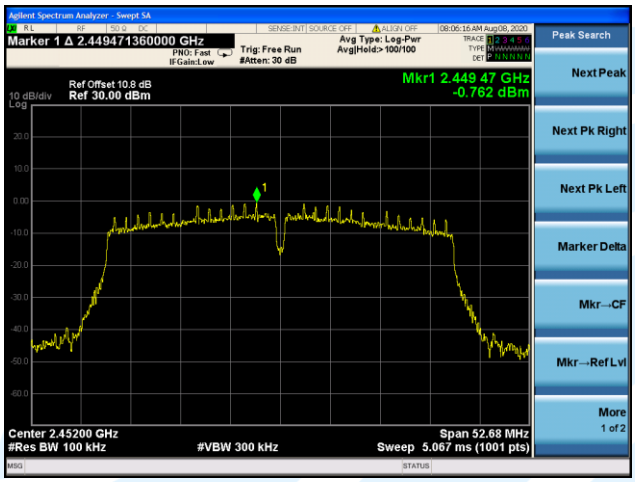


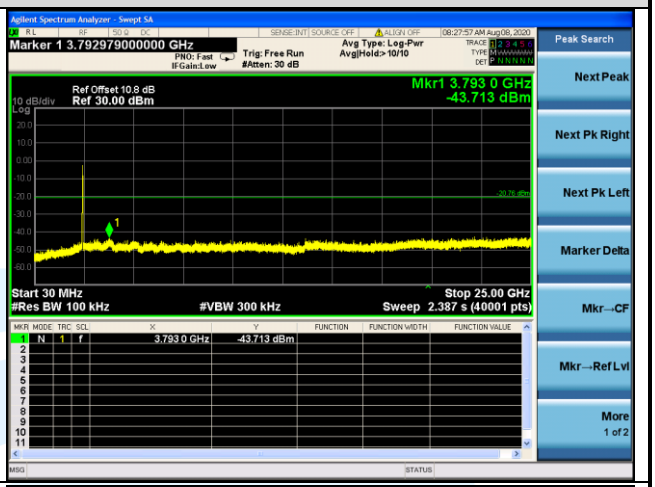


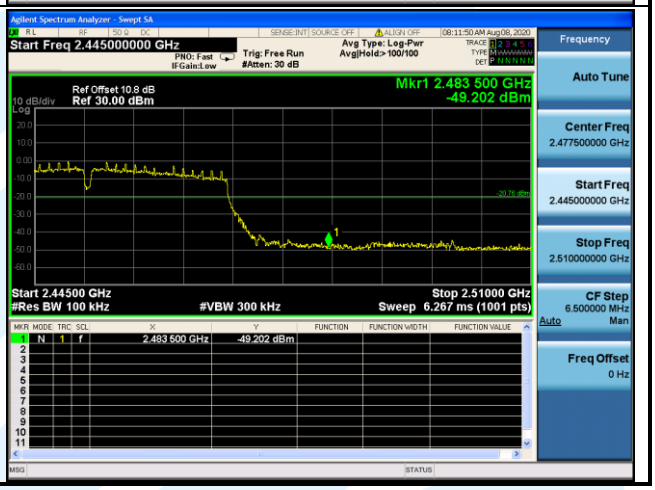


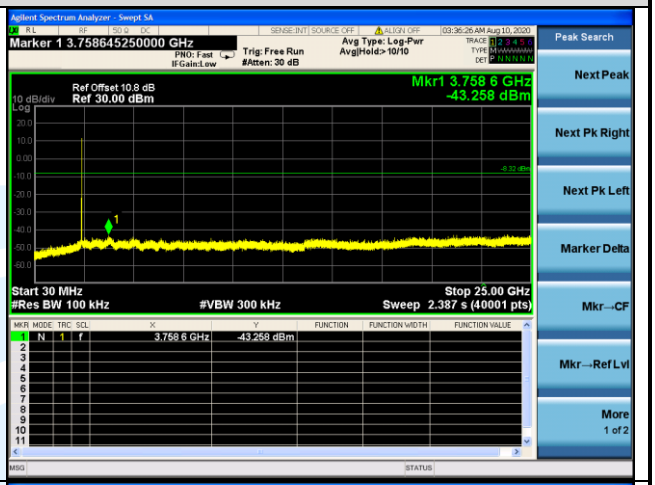
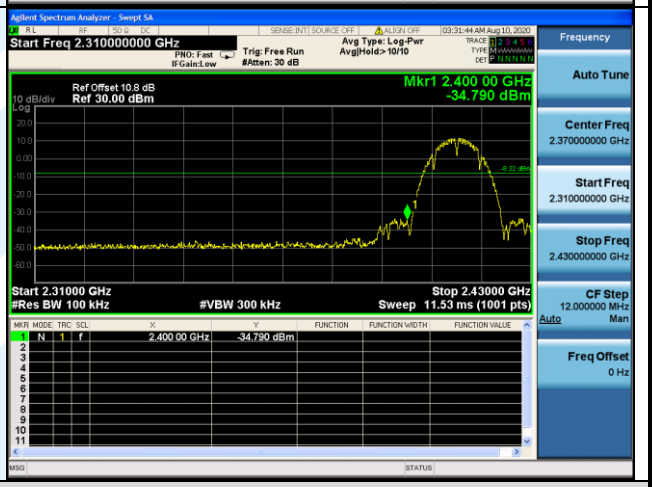
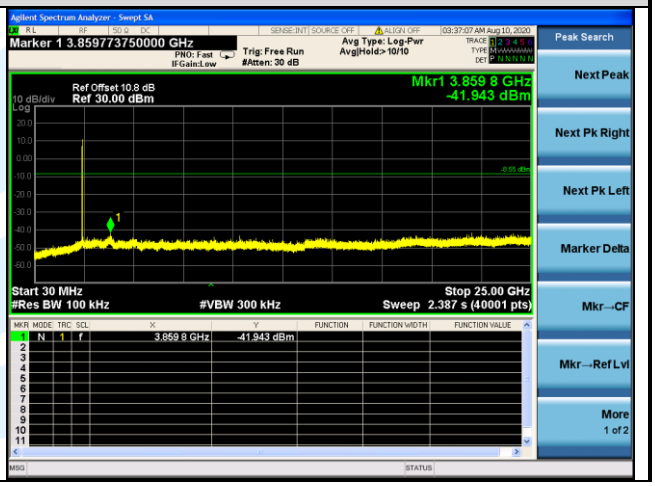
SISO_ Chain 0_ IEEE 802.11n-HT40	
In-Band Reference Level	**Out of Band Emission**
Lowest Channel	
	 
Middle Channel	
	

Highest Channel

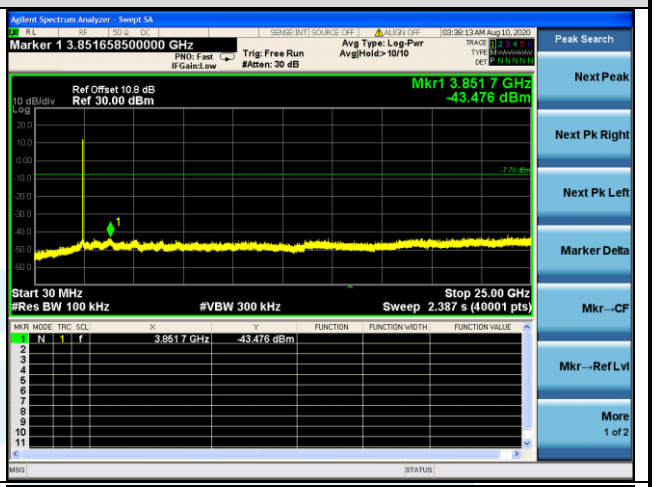


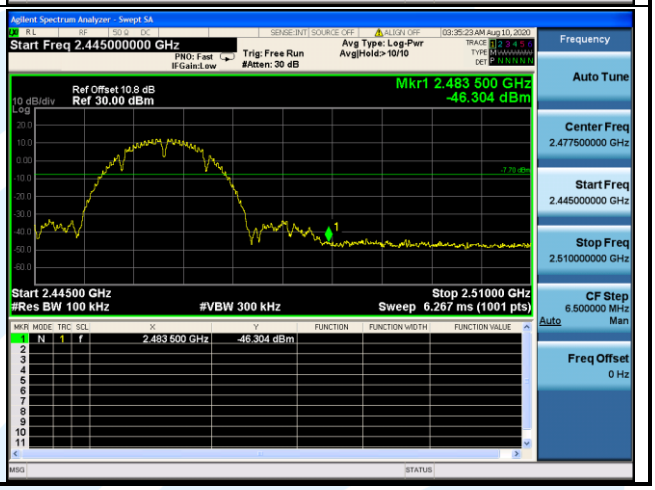


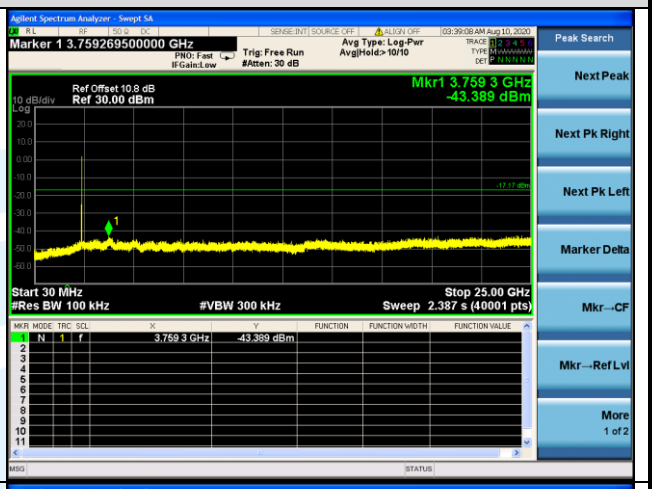
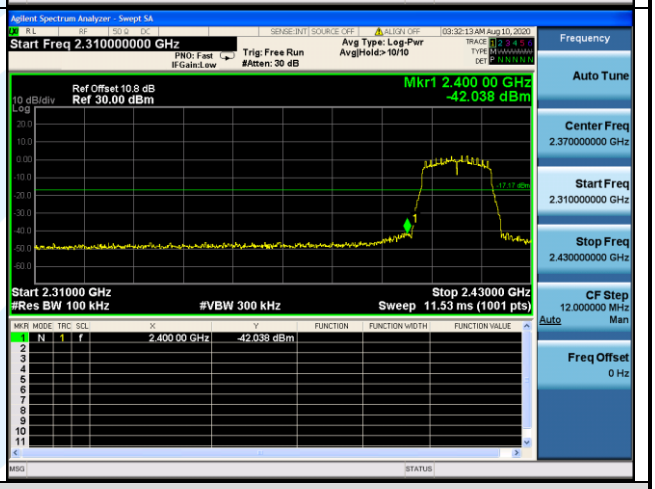
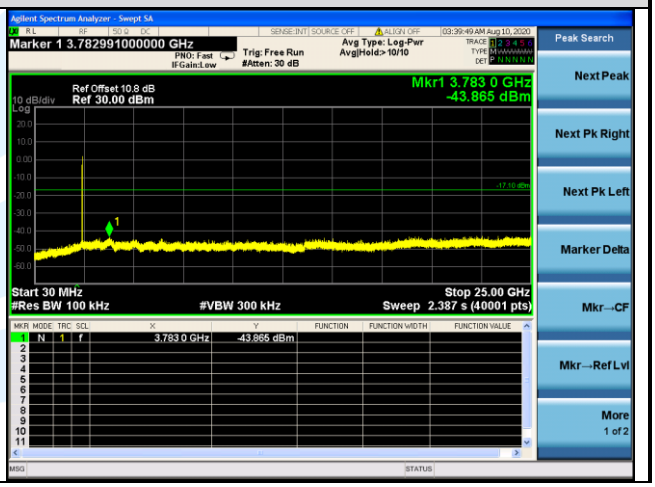


SISO_ Chain 1_ IEEE 802.11b	
In-Band Reference Level	**Out of Band Emission**
Lowest Channel	
	 
Middle Channel	
	

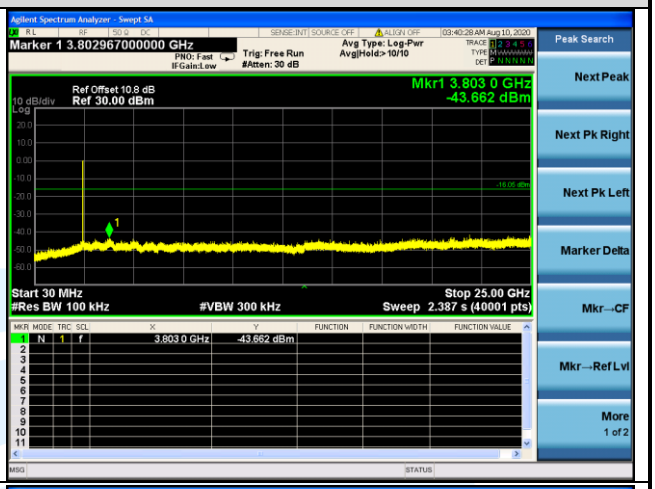
Highest Channel

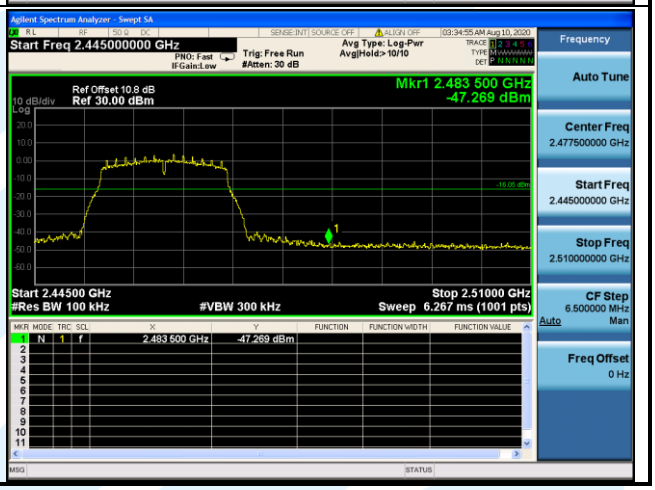


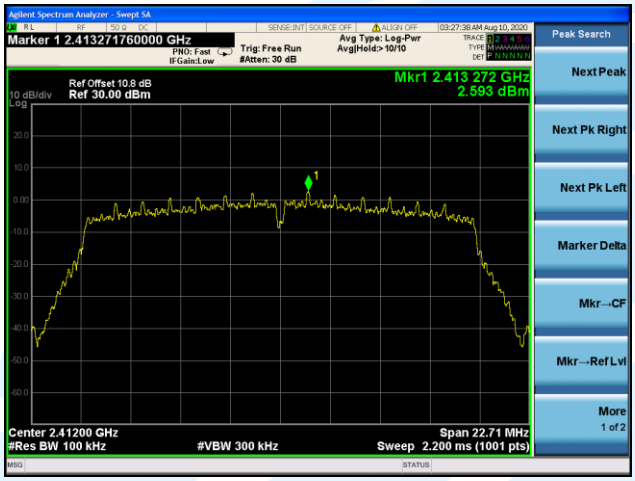
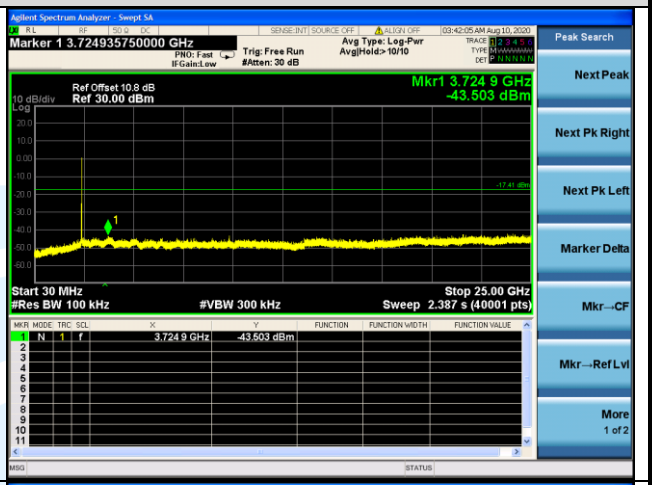
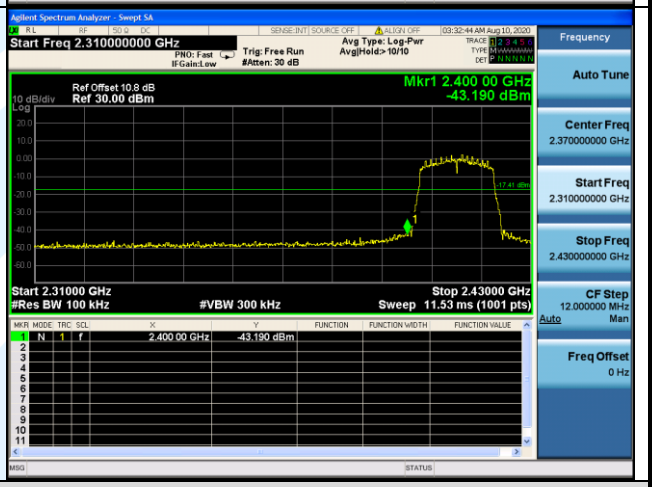
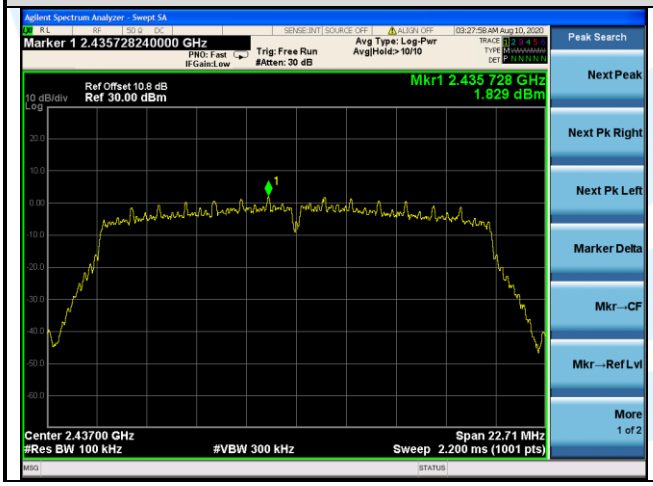
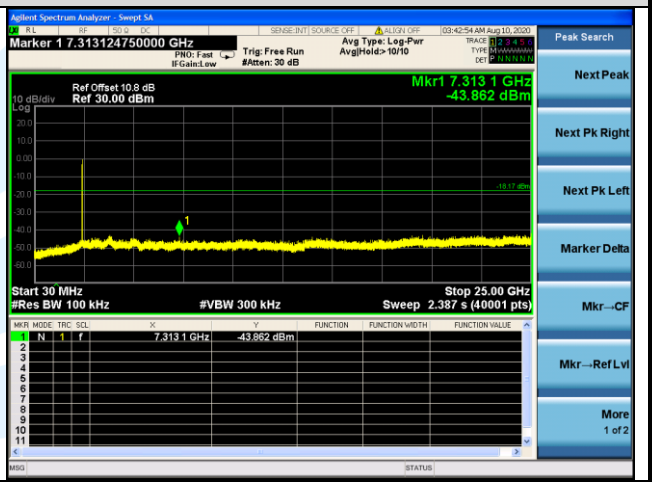


SISO_ Chain 1_IEEE 802.11g	
In-Band Reference Level	**Out of Band Emission**
Lowest Channel	
	 
Middle Channel	
	

Highest Channel





SISO_ Chain 1_IEEE 802.11n-HT20	
In-Band Reference Level	**Out of Band Emission**
Lowest Channel	
	 
Middle Channel