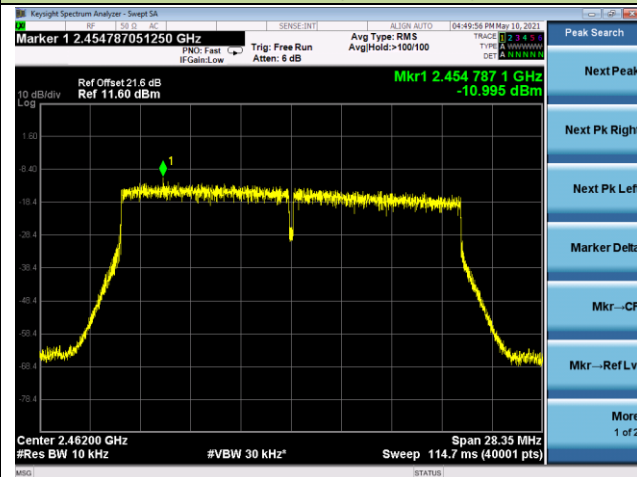
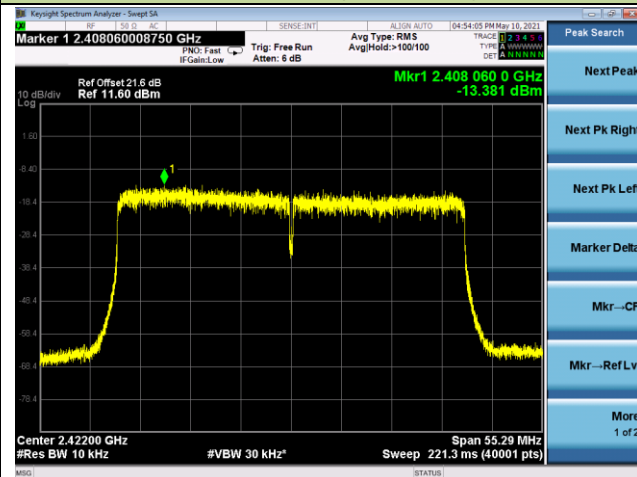


### Channel 11 (2462MHz)

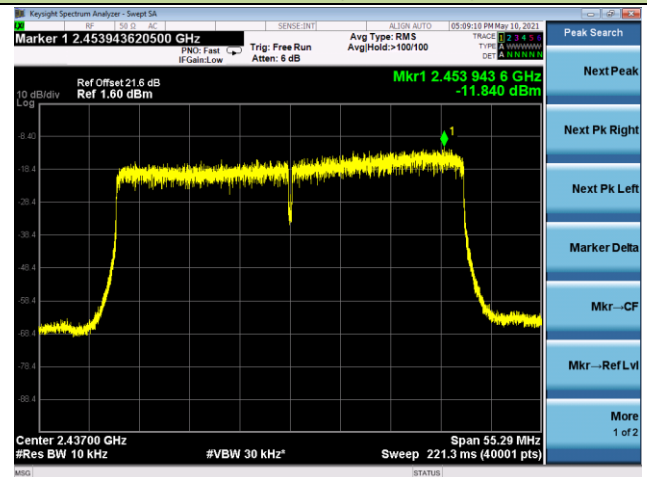


### 802.11ax-HE40 - AVGPSD -Ant 1

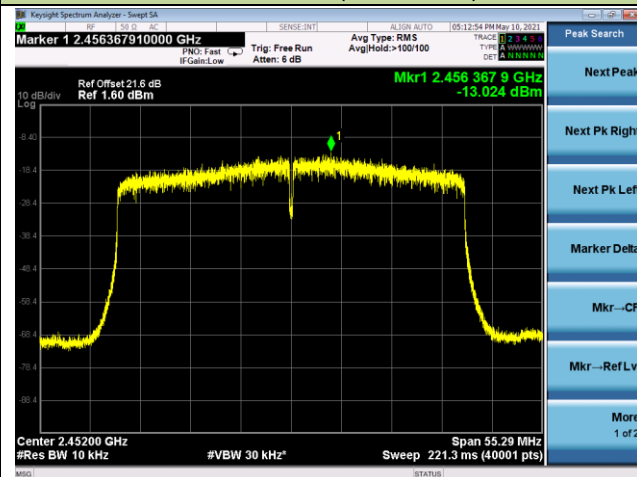
### Channel 03 (2422MHz)



### Channel 06 (2437MHz)



### Channel 09 (2452MHz)



## 802.11b - AVGPDS - Ant 2

## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

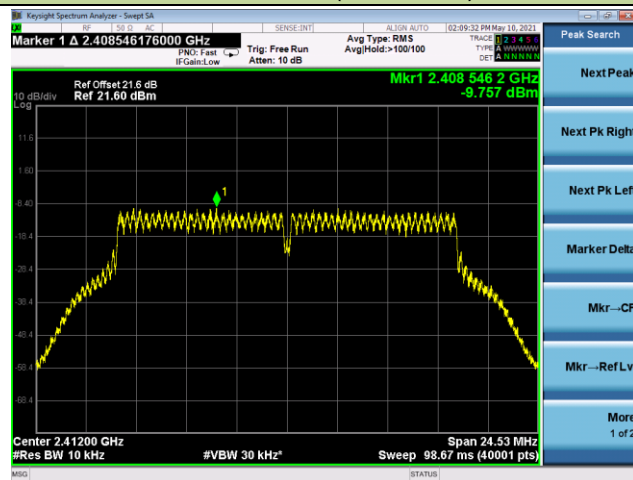


## Channel 11 (2462MHz)

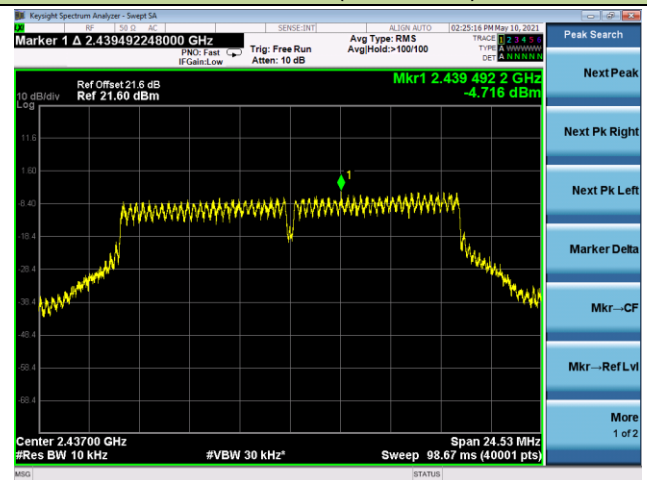


## 802.11g - AVGPDS - Ant 2

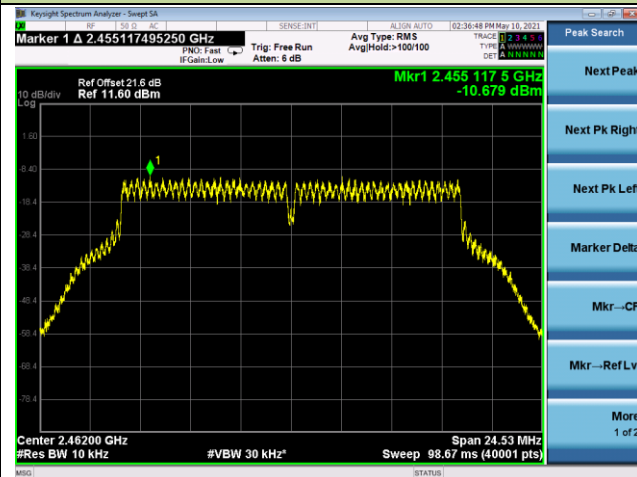
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

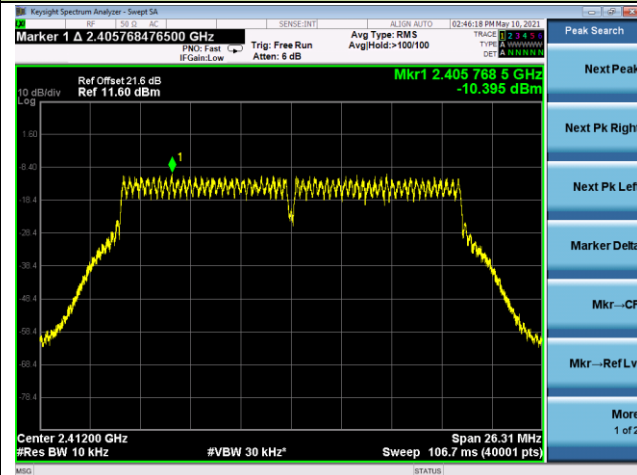


### Channel 11 (2462MHz)

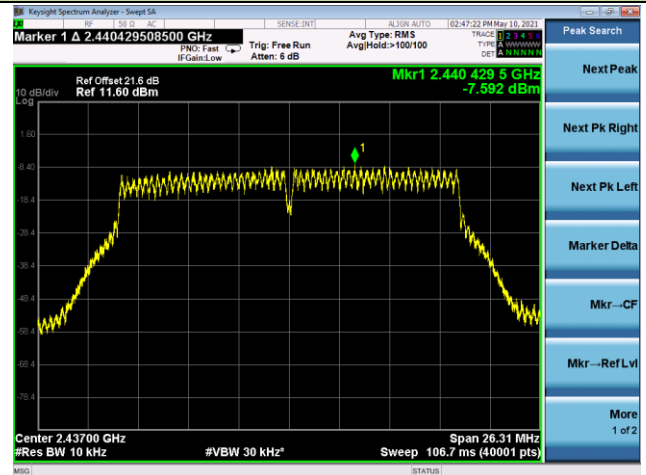


### 802.11n-HT20 - AVGPSD - Ant 2

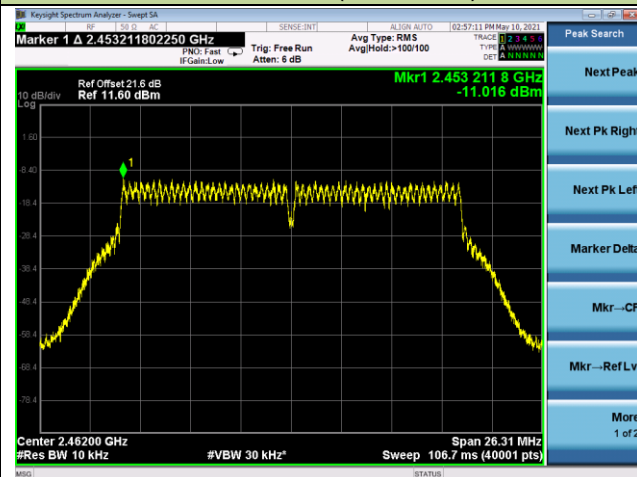
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)

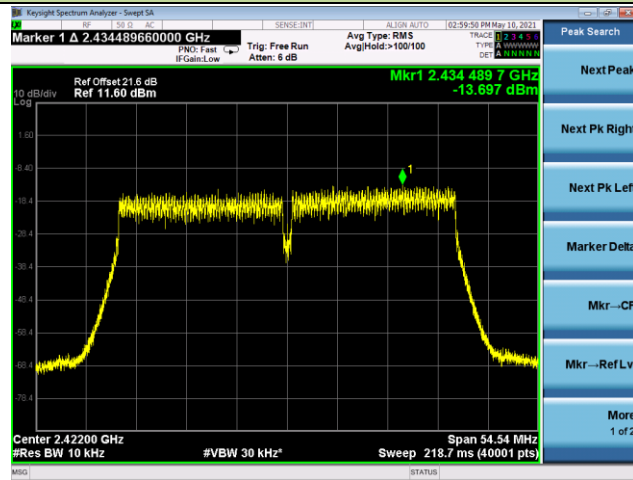


### Channel 11 (2462MHz)

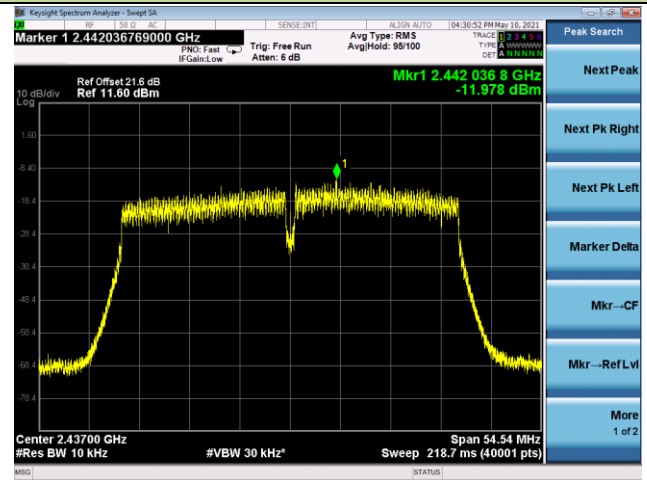


## 802.11n-HT40 - AVGPSD - Ant 2

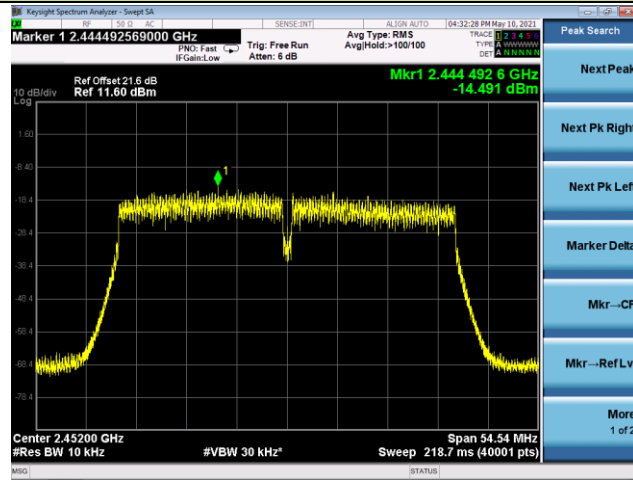
## Channel 03 (2422MHz)



## Channel 06 (2437MHz)

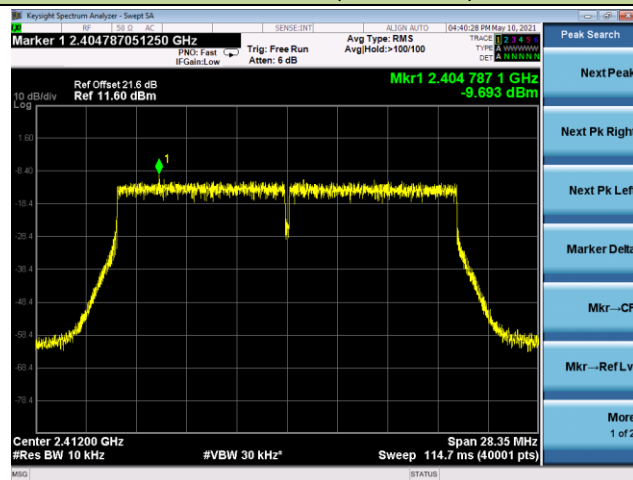


## Channel 09 (2452MHz)

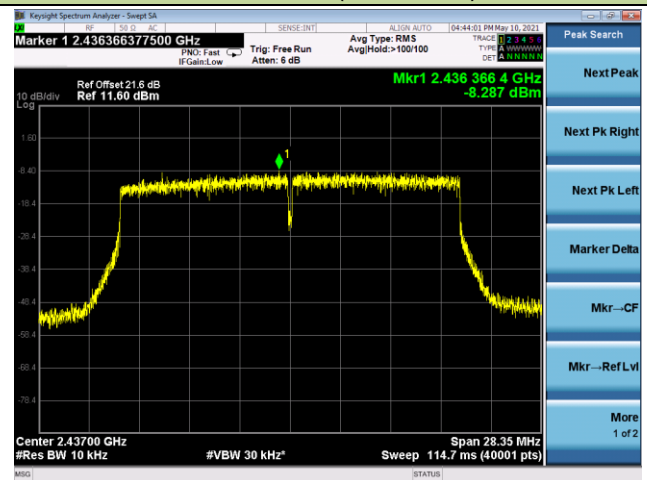


## 802.11ax-HE20 - AVGPSD - Ant 2

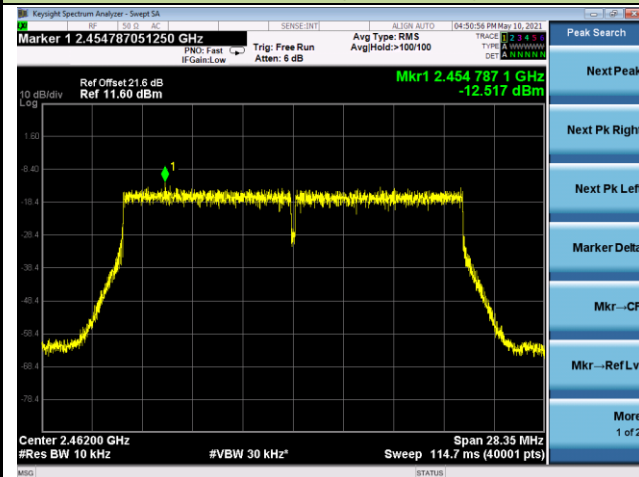
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

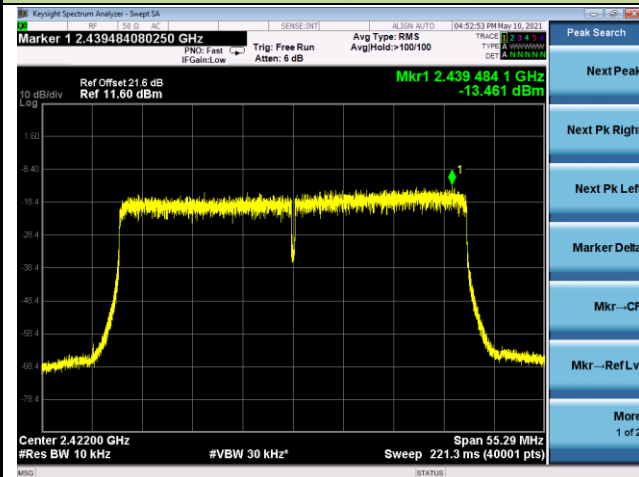


### Channel 11 (2462MHz)

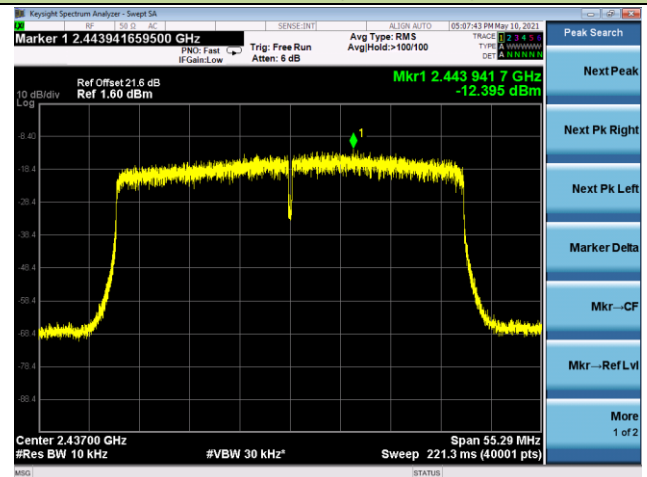


### 802.11ax-HE40 - AVGPSD - Ant 2

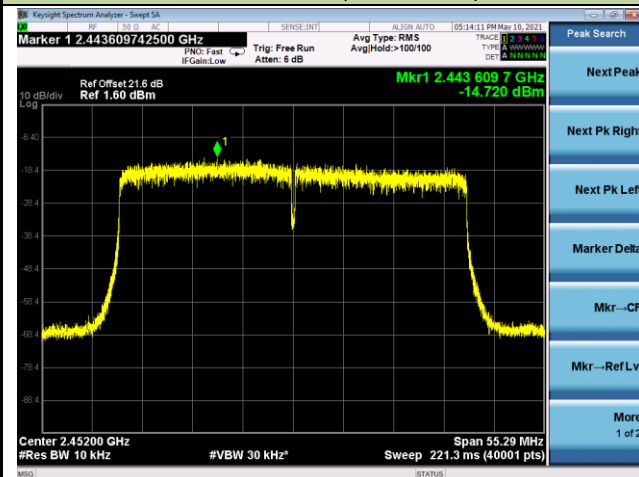
### Channel 03 (2422MHz)



### Channel 06 (2437MHz)



### Channel 09 (2452MHz)



## **5.5. Conducted Band Edge and Out-of-Band Emission Measurement**

### **5.5.1. Test Limit**

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

### **5.5.2. Test Procedure**

ANSI C63.10-2013 - Section 11.11

### **5.5.3. Test Setting**

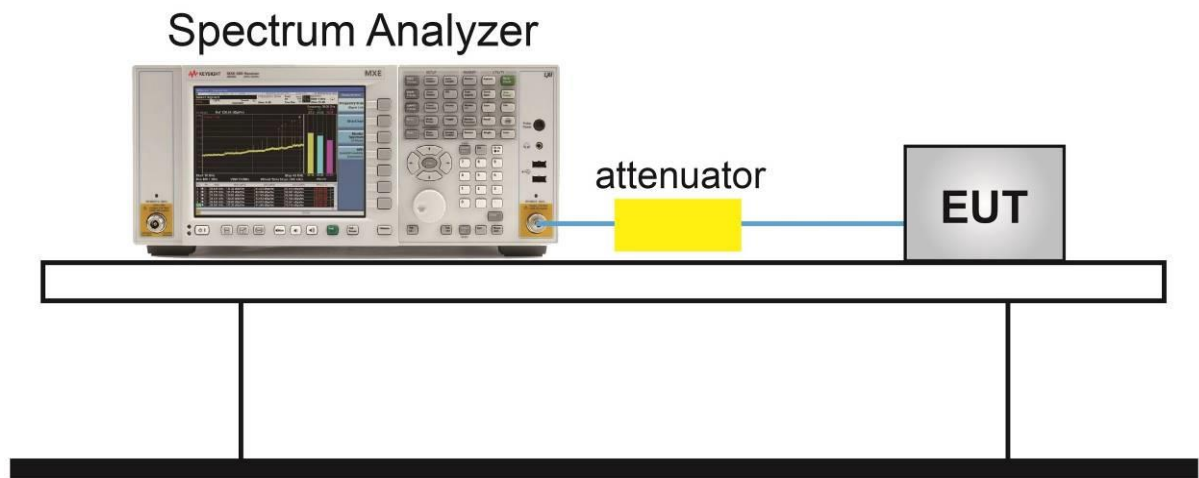
#### **Reference level measurement**

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to  $\geq 1.5$  times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW  $\geq 3 \times$  RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

#### **Emission level measurement**

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

#### 5.5.4.Test Setup



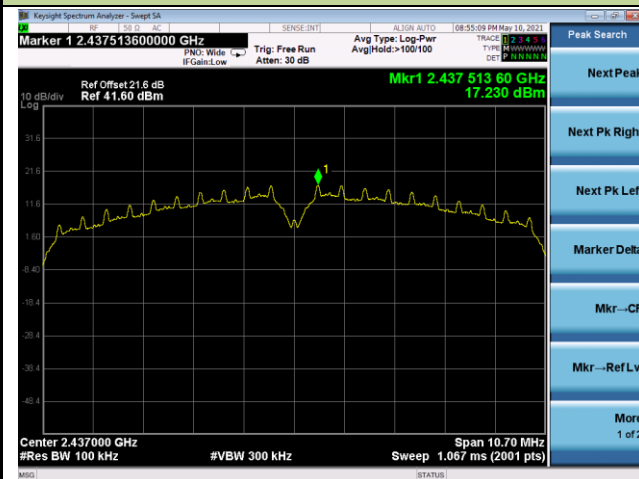
### 5.5.5.Test Result

Product	Kinetic VoIP Modem	Test Engineer	Yuri Li
Test Site	WZ-TR3	Test Date	2021/05/10~05/11

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit	Result
802.11b	1Mbps	01	2412	30dBc	Pass
802.11b	1Mbps	06	2437	30dBc	Pass
802.11b	1Mbps	11	2462	30dBc	Pass
802.11g	6Mbps	01	2412	30dBc	Pass
802.11g	6Mbps	06	2437	30dBc	Pass
802.11g	6Mbps	11	2462	30dBc	Pass
802.11n-HT20	MCS0	01	2412	30dBc	Pass
802.11n-HT20	MCS0	06	2437	30dBc	Pass
802.11n-HT20	MCS0	11	2462	30dBc	Pass
802.11n-HT40	MCS0	03	2422	30dBc	Pass
802.11n-HT40	MCS0	06	2437	30dBc	Pass
802.11n-HT40	MCS0	09	2452	30dBc	Pass
802.11ax-HE20	MCS0	01	2412	30dBc	Pass
802.11ax-HE20	MCS0	06	2437	30dBc	Pass
802.11ax-HE20	MCS0	11	2462	30dBc	Pass
802.11ax-HE40	MCS0	03	2422	30dBc	Pass
802.11ax-HE40	MCS0	06	2437	30dBc	Pass
802.11ax-HE40	MCS0	09	2452	30dBc	Pass



## 100kHz PSD Reference Level - Ant 0 - Channel 06 (2437MHz)



## 802.11b Out-of-Band Emissions - Ant 0

## Channel 01 (2412MHz)

## Low Band Edge

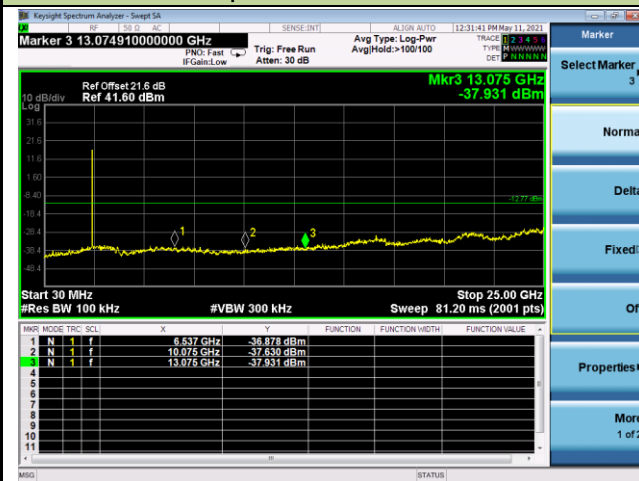


## Spurious Emission



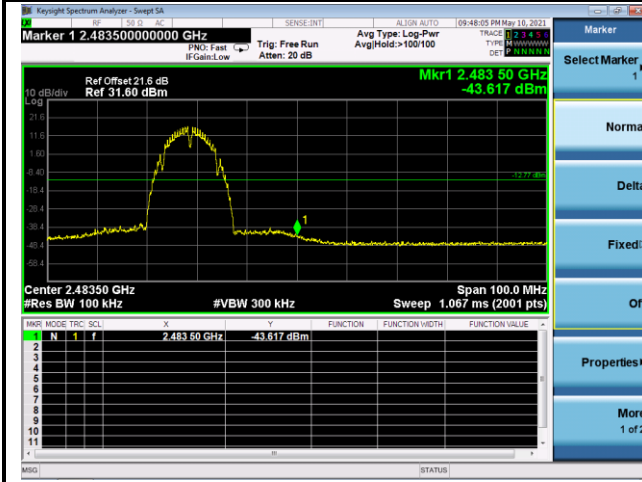
## Channel 06 (2437MHz)

## Spurious Emission

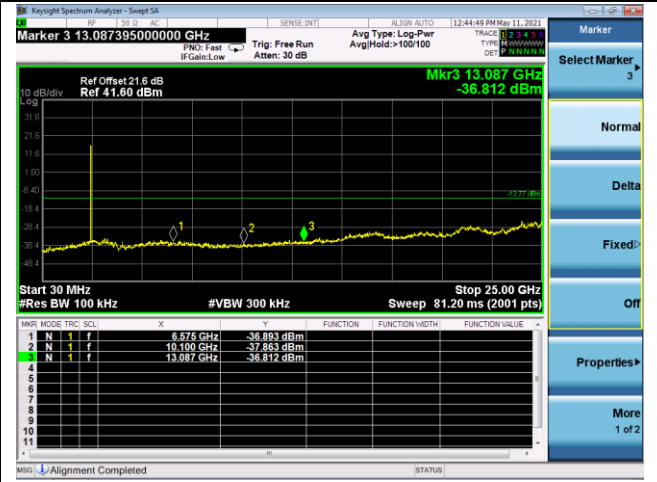


## Channel 11 (2462MHz)

## High Band Edge



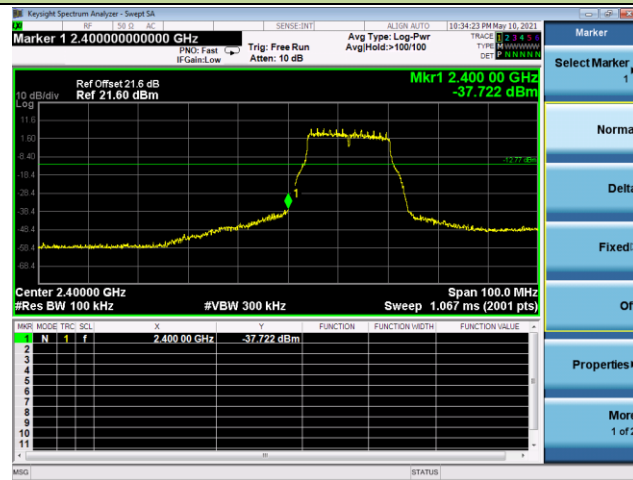
## Spurious Emission



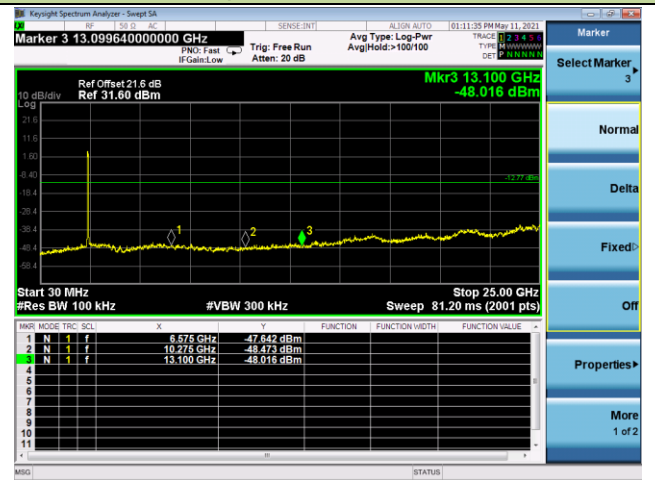
## 802.11g Out-of-Band Emissions - Ant 0

## Channel 01 (2412MHz)

## Low Band Edge

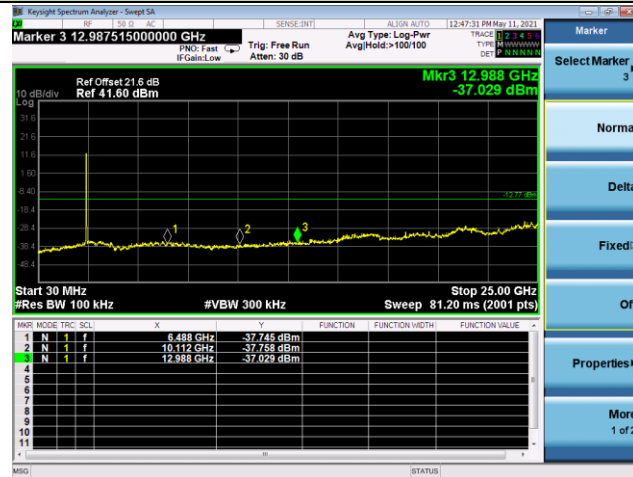


## Spurious Emission



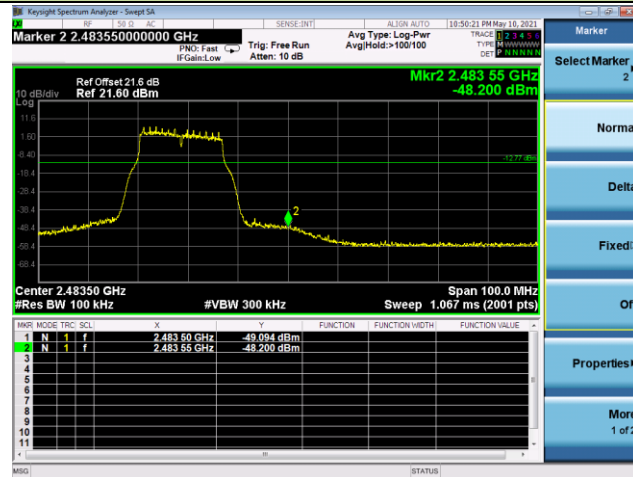
## Channel 06 (2437MHz)

## Spurious Emission

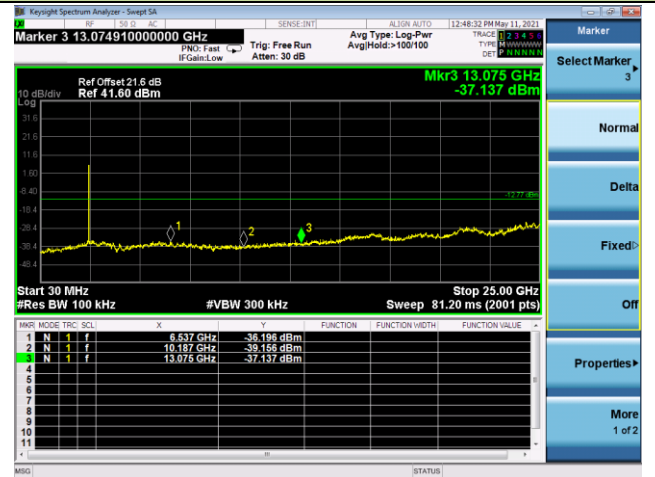


## Channel 11 (2462MHz)

## High Band Edge



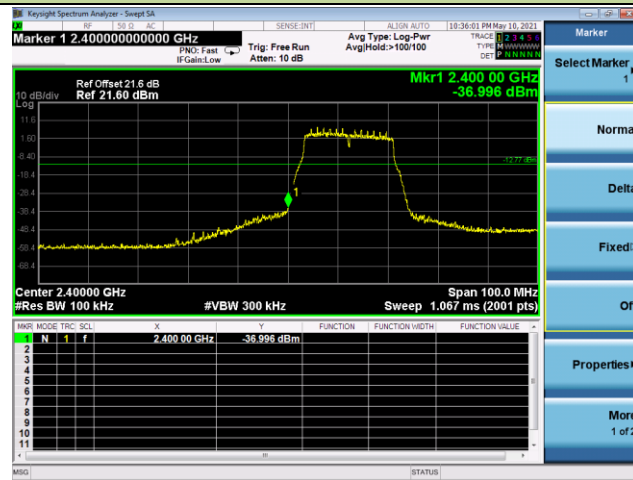
## Spurious Emission



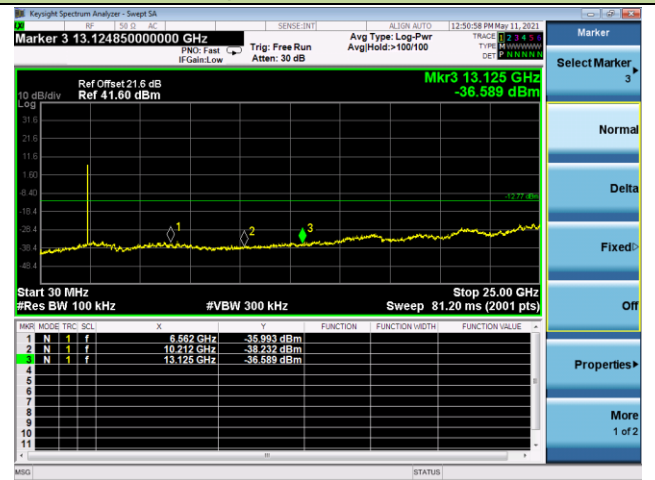
## 802.11n-HT20 Out-of-Band Emissions - Ant 0

## Channel 01 (2412MHz)

## Low Band Edge

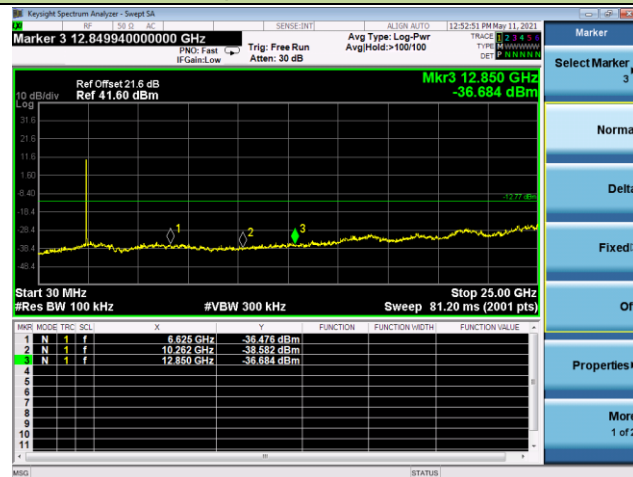


## Spurious Emission



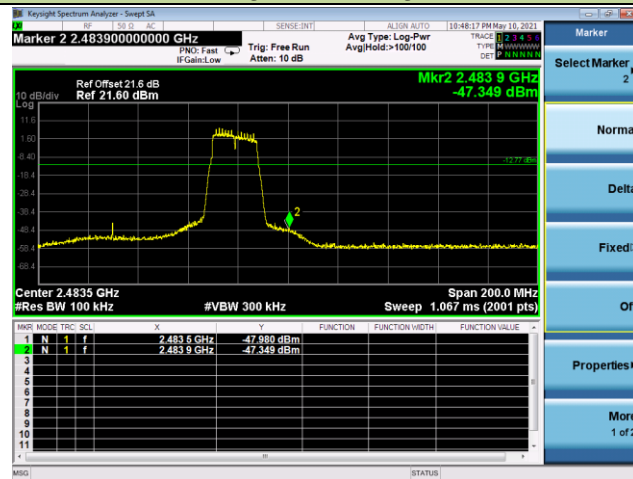
## Channel 06 (2437MHz)

## Spurious Emission

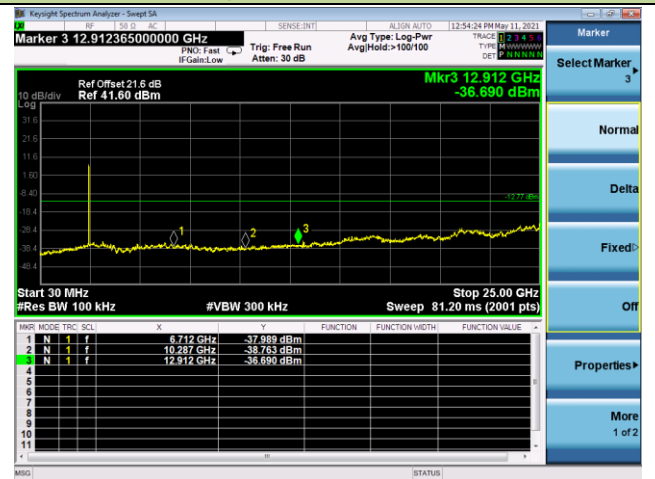


## Channel 11 (2462MHz)

## High Band Edge



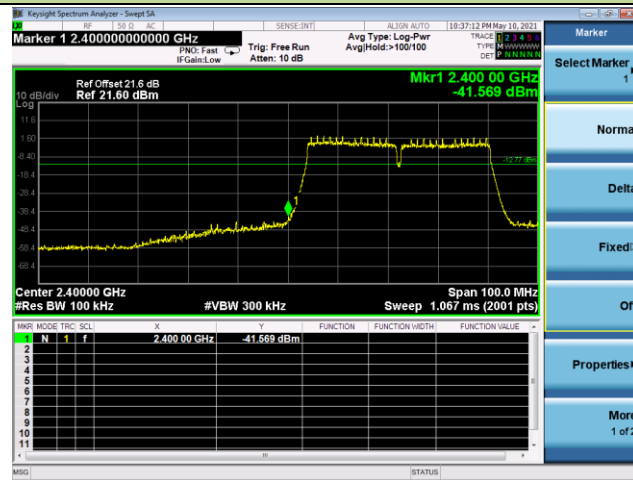
## Spurious Emission



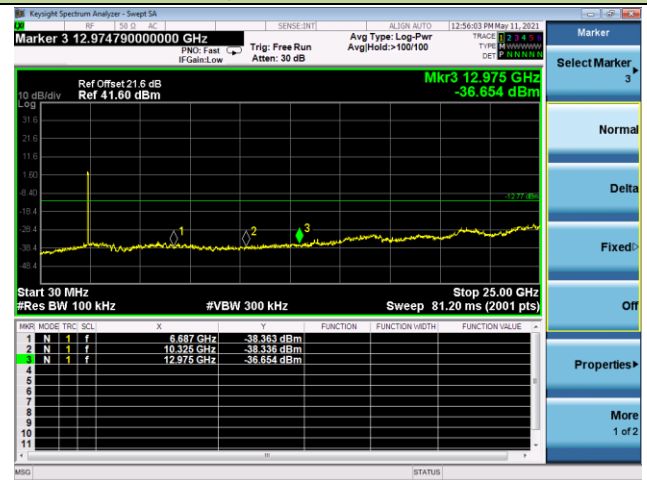
## 802.11n-HT40 Out-of-Band Emissions - Ant 0

## Channel 03 (2422MHz)

## Low Band Edge

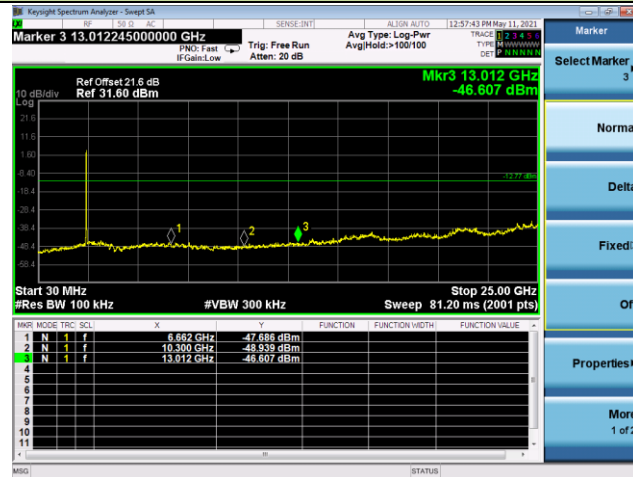


## Spurious Emission



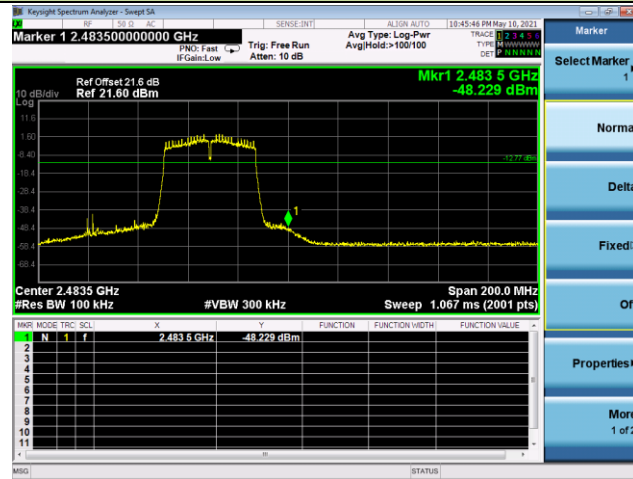
## Channel 06 (2437MHz)

## Spurious Emission

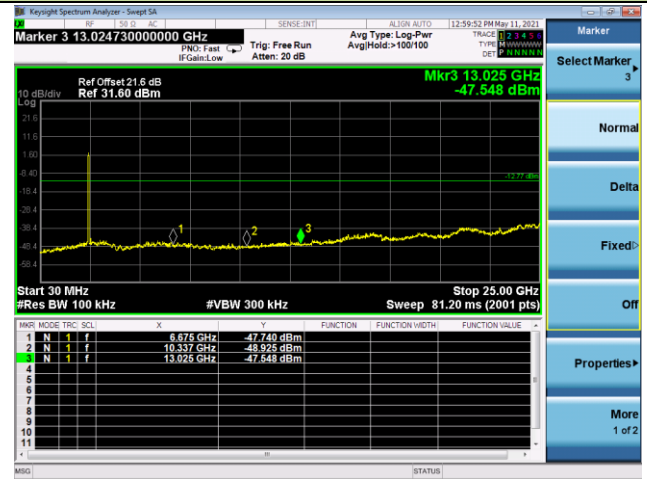


## Channel 09 (2452MHz)

## High Band Edge



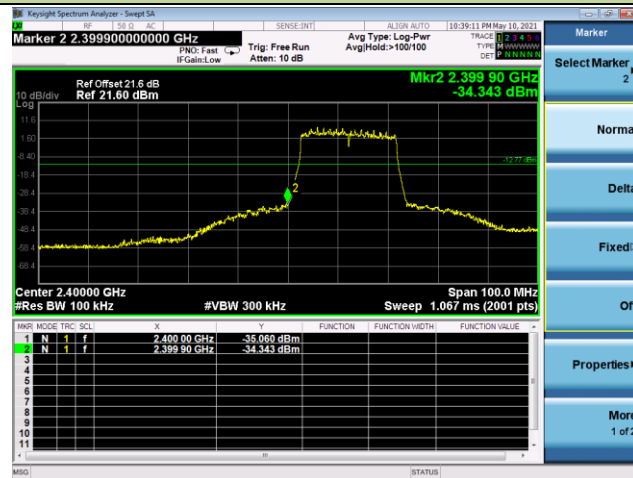
## Spurious Emission



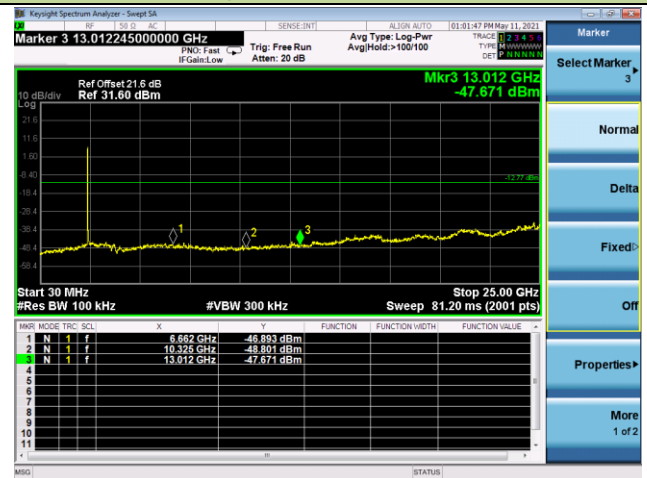
## 802.11ax-HE20 Out-of-Band Emissions - Ant 0

## Channel 01 (2412MHz)

## Low Band Edge

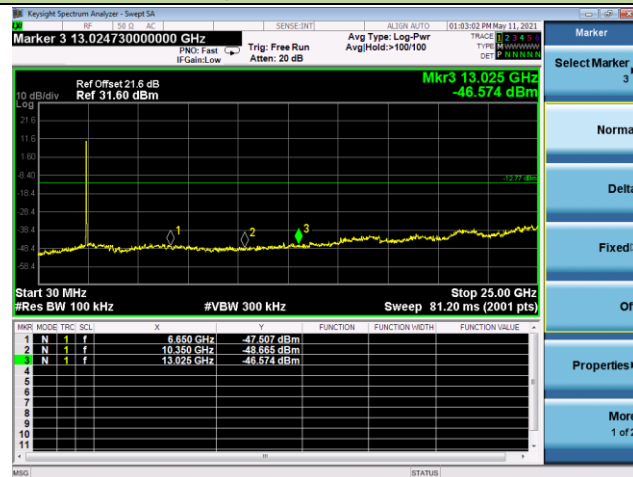


## Spurious Emission



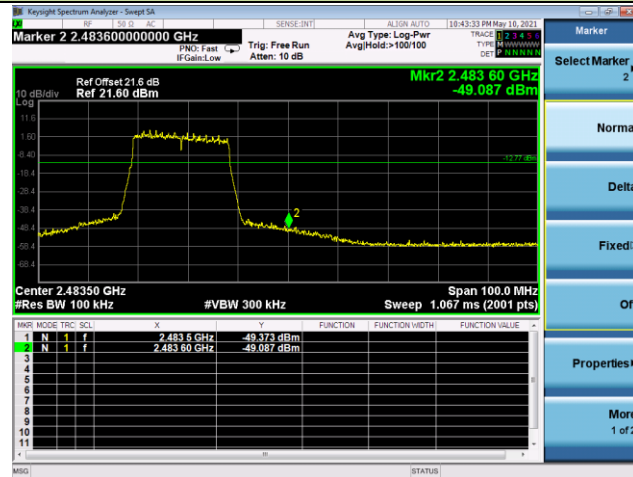
## Channel 06 (2437MHz)

## Spurious Emission

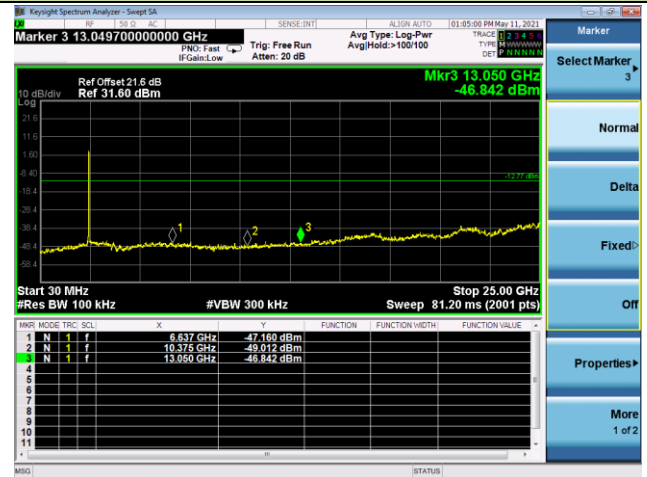


## Channel 11 (2462MHz)

## High Band Edge



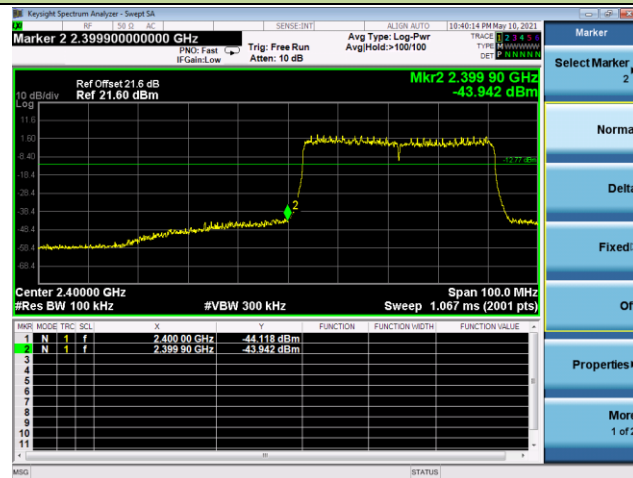
## Spurious Emission



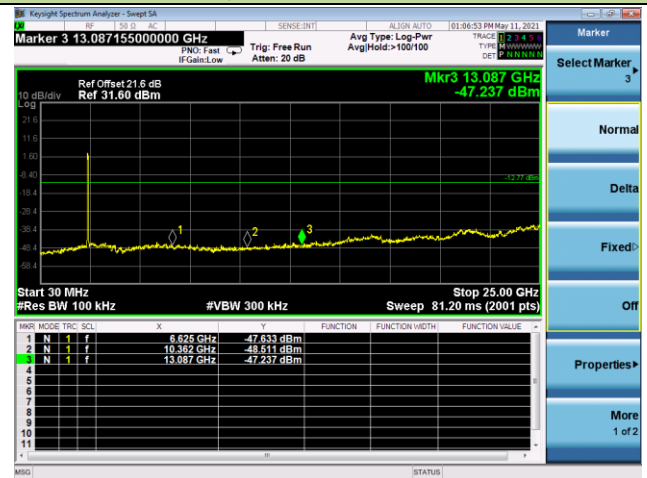
## 802.11ax-HE40 Out-of-Band Emissions - Ant 0

## Channel 03 (2422MHz)

## Low Band Edge

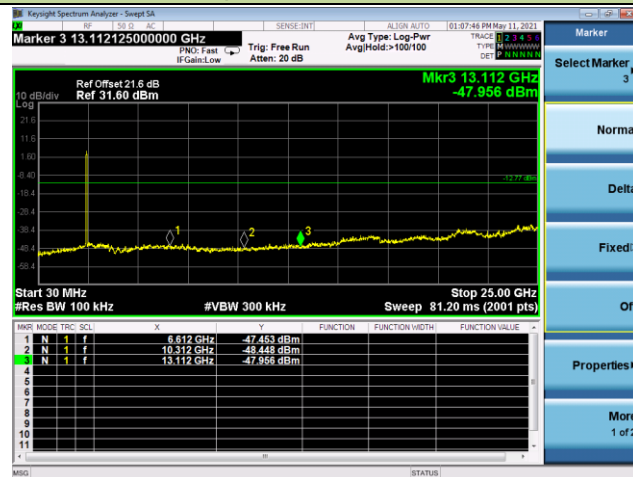


## Spurious Emission



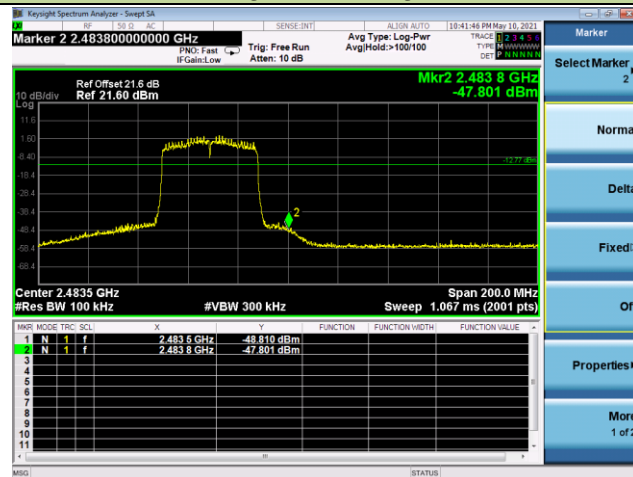
## Channel 06 (2437MHz)

## Spurious Emission

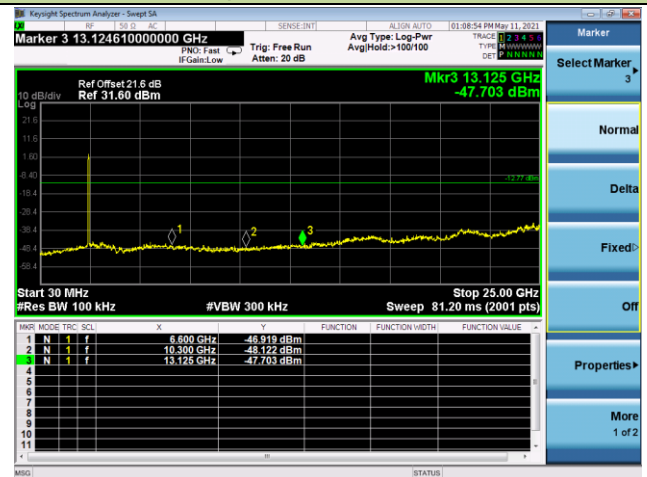


## Channel 09 (2452MHz)

## High Band Edge

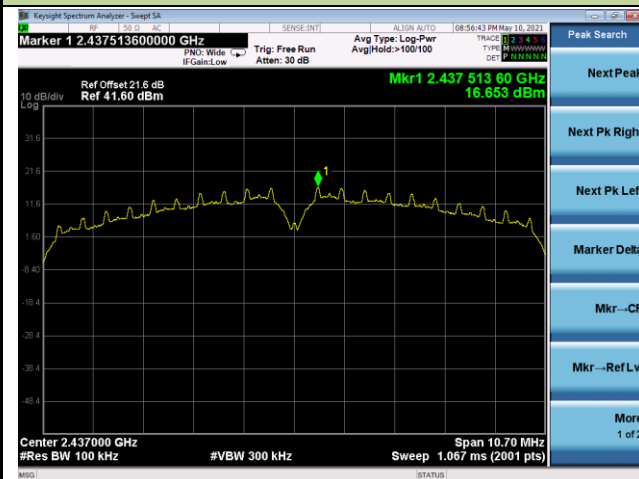


## Spurious Emission





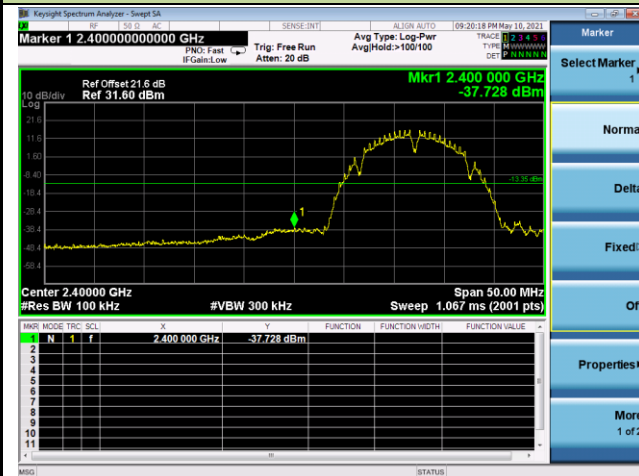
### 100kHz PSD Reference Level - Ant 1 - Channel 06 (2437MHz)



### 802.11b Out-of-Band Emissions - Ant 1

#### Channel 01 (2412MHz)

#### Low Band Edge



#### Spurious Emission



#### Channel 06 (2437MHz)

#### Spurious Emission

