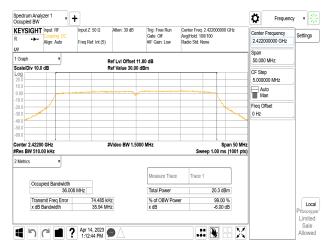
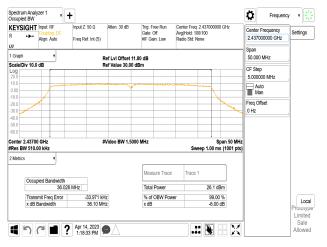


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#### 802.11n\_40MHz\_Chain0\_2422MHz



802.11n 40MHz Chain0 2437MHz



802.11n\_40MHz\_Chain0\_2452MHz



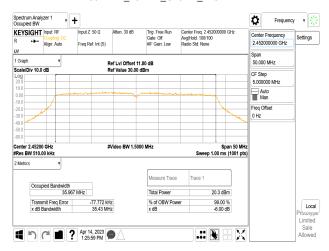
802.11n 40MHz Chain1 2422MHz



802.11n\_40MHz\_Chain1\_2437MHz



802.11n\_40MHz\_Chain1\_2452MHz



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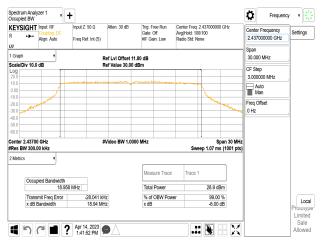


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#### 802.11ax 20MHz Chain0 2412MHz



802.11ax 20MHz Chain0 2437MHz



802.11ax\_20MHz\_Chain0\_2462MHz



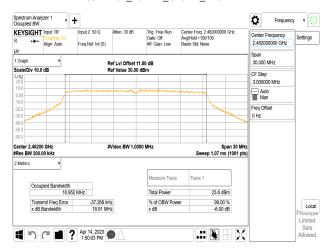
802.11ax 20MHz Chain1 2412MHz



802.11ax\_20MHz\_Chain1\_2437MHz



802.11ax\_20MHz\_Chain1\_2462MHz



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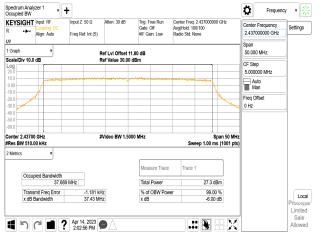


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#### 802.11ax 40MHz Chain0 2422MHz



802.11ax 40MHz Chain0 2437MHz



802.11ax\_40MHz\_Chain0\_2452MHz



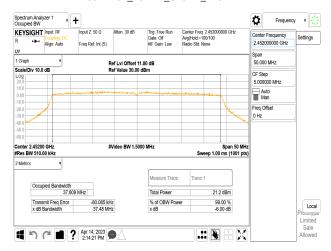
802.11ax 40MHz Chain1 2422MHz



802.11ax\_40MHz\_Chain1\_2437MHz



802.11ax\_40MHz\_Chain1\_2452MHz



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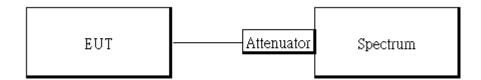
# 10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

#### 10.1 **Standard Applicable**

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

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

#### 10.2 **Test Setup**



#### 10.3 **Measurement Procedure**

#### 10.3.1 **Reference Level of Emission Limit:**

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss +  $10 \log (N)$ , where N is number of transmitting antenna.

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#### **Conducted Band Edge:** 10.3.2

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker of reference level measurement 20dBm
- Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
- 10. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss +  $10 \log (N)$ , where N is number of transmitting antenna.

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# **Conducted Spurious Emission:**

- 1. To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 3. Set RBW = 100 kHz & VBW= 300 kHz, Detector = Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.
- 7. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

#### Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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### 10.4 Measurement Result

### 802.11b Ch0 802.11b Ch1

Reference Level of Limit			Reference Level of Limit		
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	10.32	-9.68	2412	9.24	-10.76
2437	11.13	-8.87	2437	10.80	-9.20
2462	10.87	-9.13	2462	9.08	-10.92

# 802.11g Ch0 802.11g Ch1

· · · · · · · · · · · · · · · · · · ·					
Reference Level of Limit 802.11g mode			Reference Level of Limit 802.11g mode		
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	5.51	-14.49	2412	4.76	-15.24
2437	10.74	-9.26	2437	10.37	-9.63
2462	5.50	-14.50	2462	4.45	-15.55

## 802.11n\_HT\_20M Ch0

## 802.11n\_HT\_20M Ch1

Reference Level of Limit 802.11n20 MODE			Reference Level of Limit 802.11ac20 MODE		
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	5.35	-14.65	2412	4.88	-15.12
2437	11.22	-8.78	2437	10.84	-9.16
2462	6.40	-13.60	2462	5.47	-14.53

## 802.11n HT 40M Ch0

## 802.11n HT 40M Ch1

Reference Level of Limit 802.11n40 MODE		Reference Level of Limit 802.11ac40 MODE			
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2422	-0.36	-20.36	2422	-0.71	-20.71
2437	5.66	-14.34	2437	4.58	-15.42
2452	-0.75	-20.75	2452	-0.27	-20.27

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## 802.11ax\_HE\_20M Ch0

### 802.11ax\_HE\_20M Ch1

Reference Level of Limit 802.11ax20 mode		Reference Level of Limit 802.11ax20 mode			
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2412	5.39	-14.61	2412	5.14	-14.86
2437	10.61	-9.39	2437	9.76	-10.24
2462	6.14	-13.86	2462	5.08	-14.92

## 802.11ax\_HE\_40M Ch0

## 802.11ax\_HE\_40M Ch1

Reference Level of Limit 802.11ax40 MODE			Reference Level of Limit 802.11ax40 MODE		
Freq.	PSD	Reference Level of Limit	Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)	(MHz)	(dBm)	(dBm)
2422	-0.04	-20.04	2422	-1.07	-21.07
2437	5.64	-14.36	2437	4.59	-15.41
2452	-0.37	-20.37	2452	-1.25	-21.25

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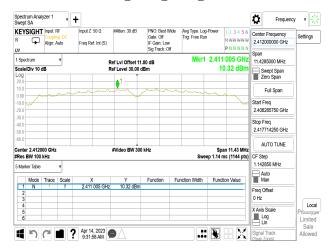
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## 802.11b\_20MHz\_Chain0\_2412MHz



802.11b 20MHz Chain0 2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11b\_20MHz\_Chain1\_2412MHz



802.11b\_20MHz\_Chain1\_2437MHz



802.11b\_20MHz\_Chain1\_2462MHz



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#### 802.11g\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain0\_2437MHz



802.11g\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain1\_2412MHz



802.11g\_20MHz\_Chain1\_2437MHz



802.11g\_20MHz\_Chain1\_2462MHz



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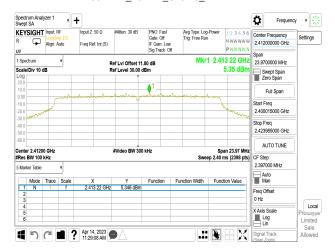
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## 802.11n\_20MHz\_Chain0\_2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



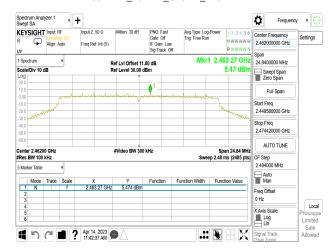
802.11n 20MHz Chain1 2412MHz



802.11n\_20MHz\_Chain1\_2437MHz



802.11n\_20MHz\_Chain1\_2462MHz



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#### 802.11n 40MHz Chain0 2422MHz



802.11n 40MHz Chain0 2437MHz



802.11n\_40MHz\_Chain0\_2452MHz



802.11n\_40MHz\_Chain1\_2422MHz



802.11n\_40MHz\_Chain1\_2437MHz



802.11n\_40MHz\_Chain1\_2452MHz



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#### 802.11ax 20MHz Chain0 2412MHz



802.11ax 20MHz Chain0 2437MHz



802.11ax\_20MHz\_Chain0\_2462MHz



802.11ax\_20MHz\_Chain1\_2412MHz



802.11ax\_20MHz\_Chain1\_2437MHz



802.11ax\_20MHz\_Chain1\_2462MHz



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#### 802.11ax 40MHz Chain0 2422MHz



802.11ax 40MHz Chain0 2437MHz



802.11ax\_40MHz\_Chain0\_2452MHz



802.11ax 40MHz Chain1 2422MHz



802.11ax\_40MHz\_Chain1\_2437MHz



802.11ax\_40MHz\_Chain1\_2452MHz



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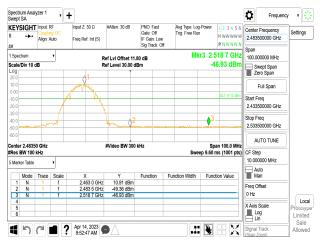


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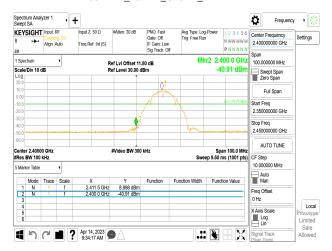
#### 802.11b 20MHz Chain0 2412MHz



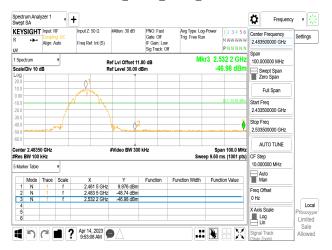
802.11b 20MHz Chain0 2462MHz



802.11b\_20MHz\_Chain1\_2412MHz



802.11b 20MHz Chain1 2462MHz



802.11g 20MHz Chain0 2412MHz



 $802.11g\_20MHz\_Chain0\_2462MHz$ 



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