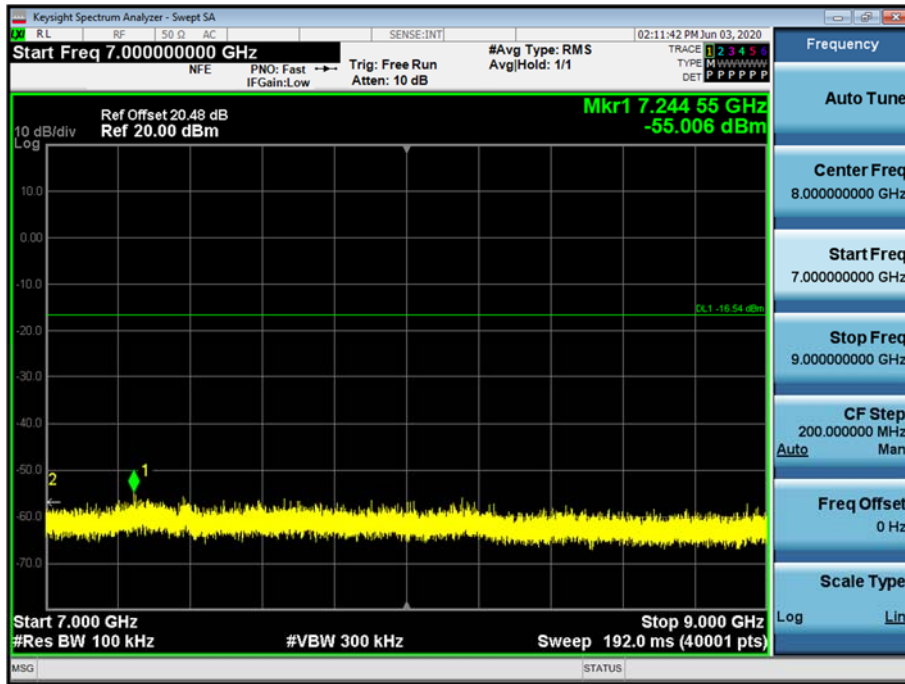


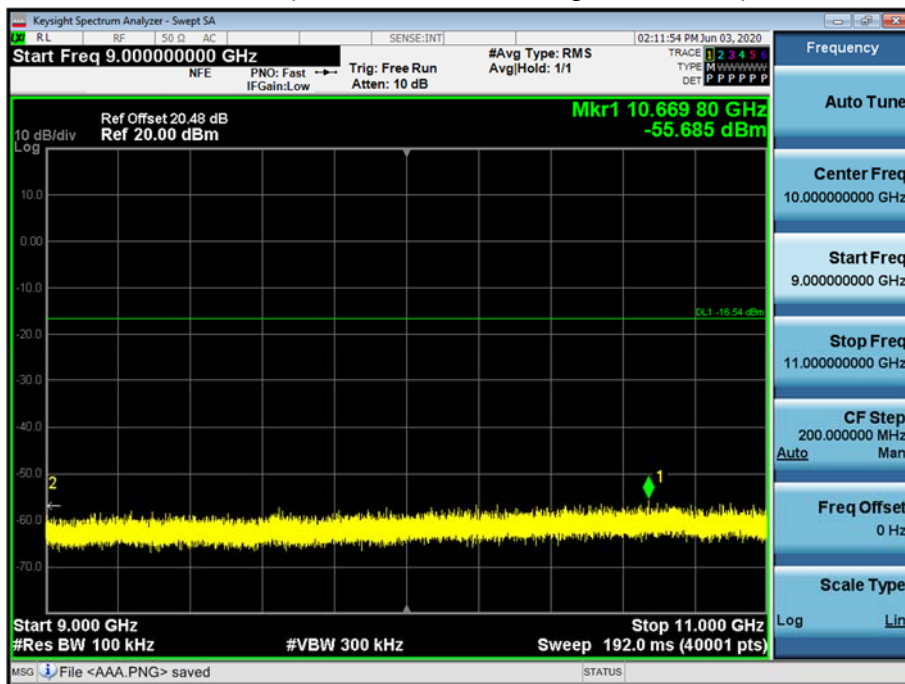
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



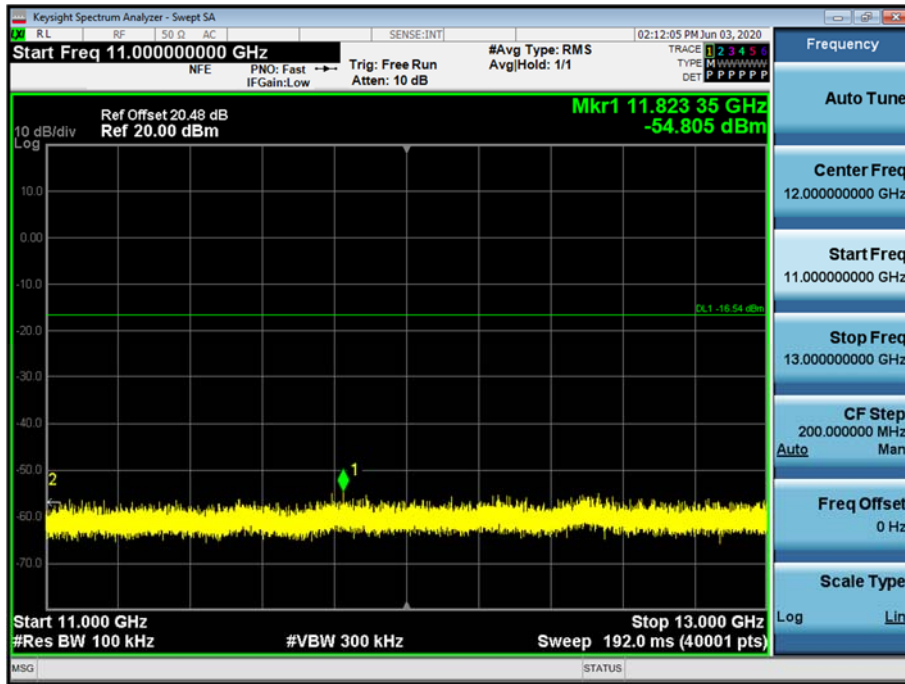
9 GHz ~ 11 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



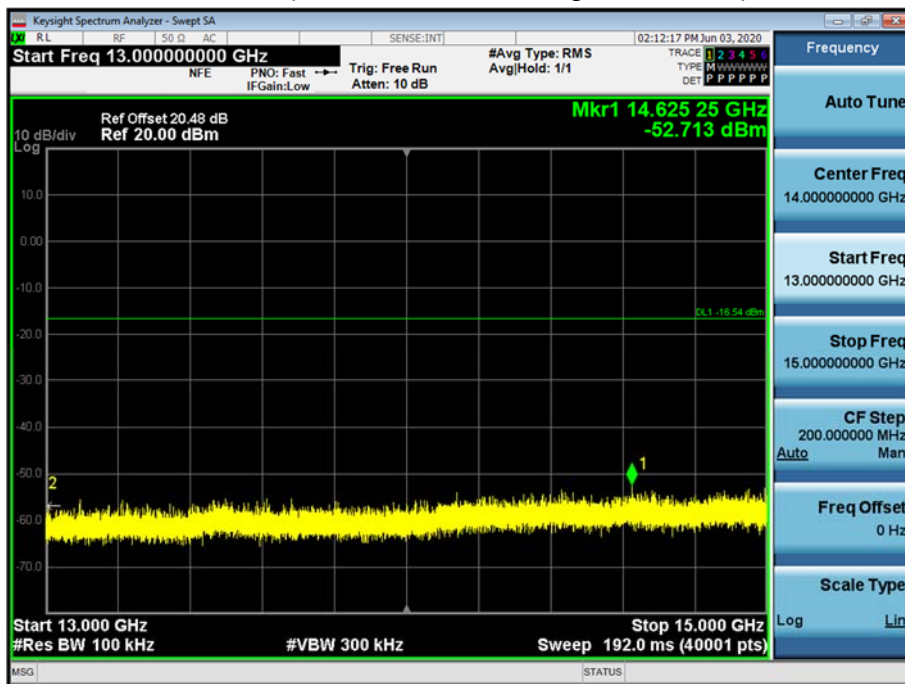
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



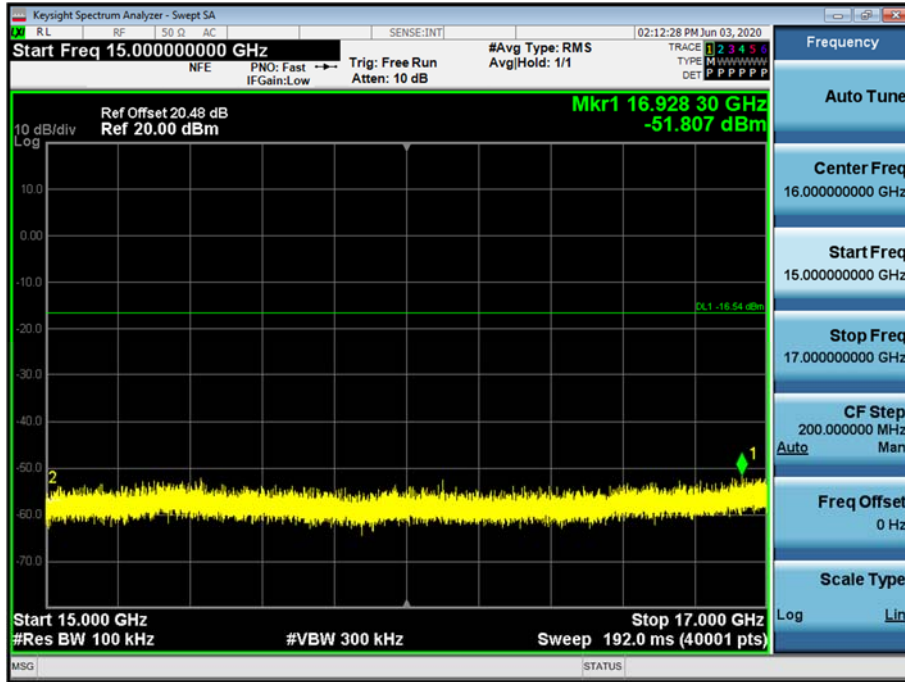
13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



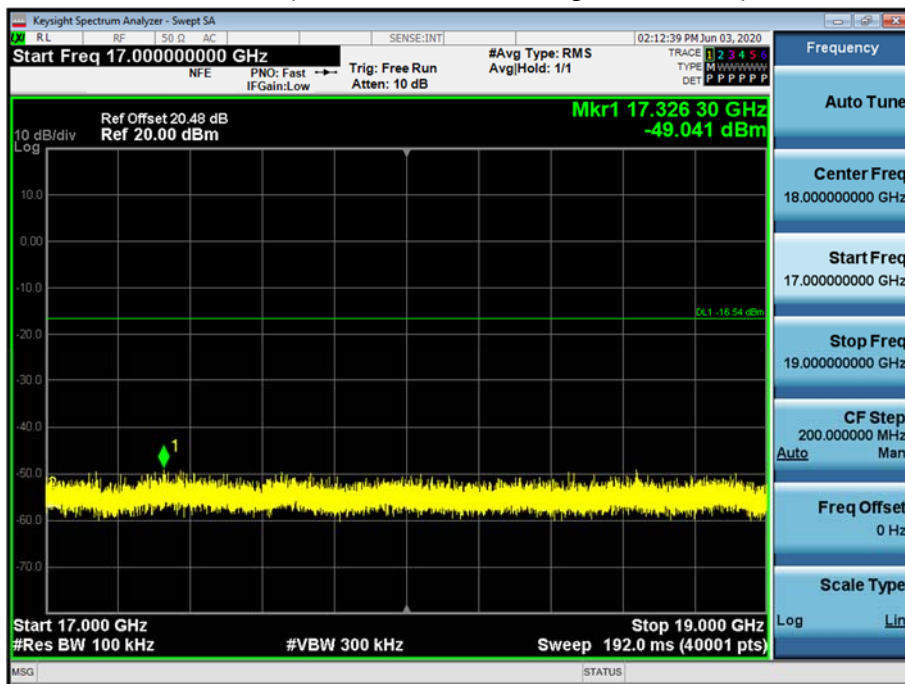
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



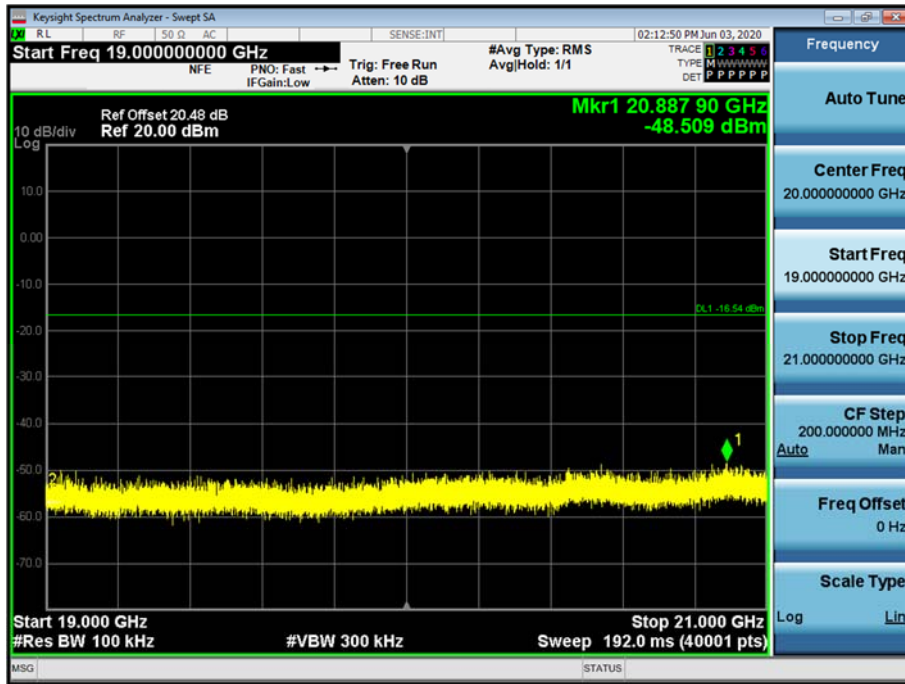
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



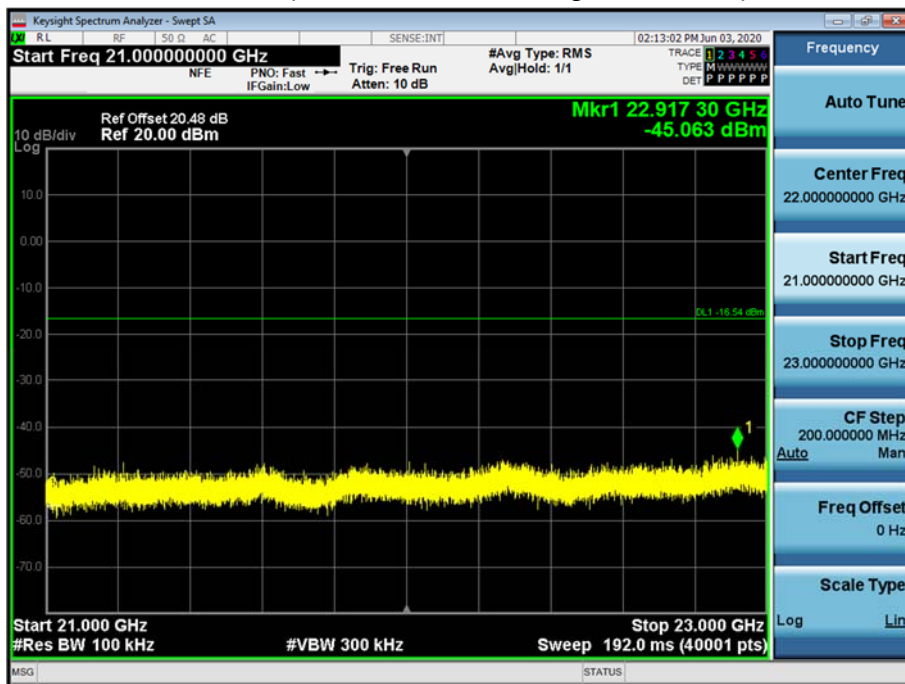
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



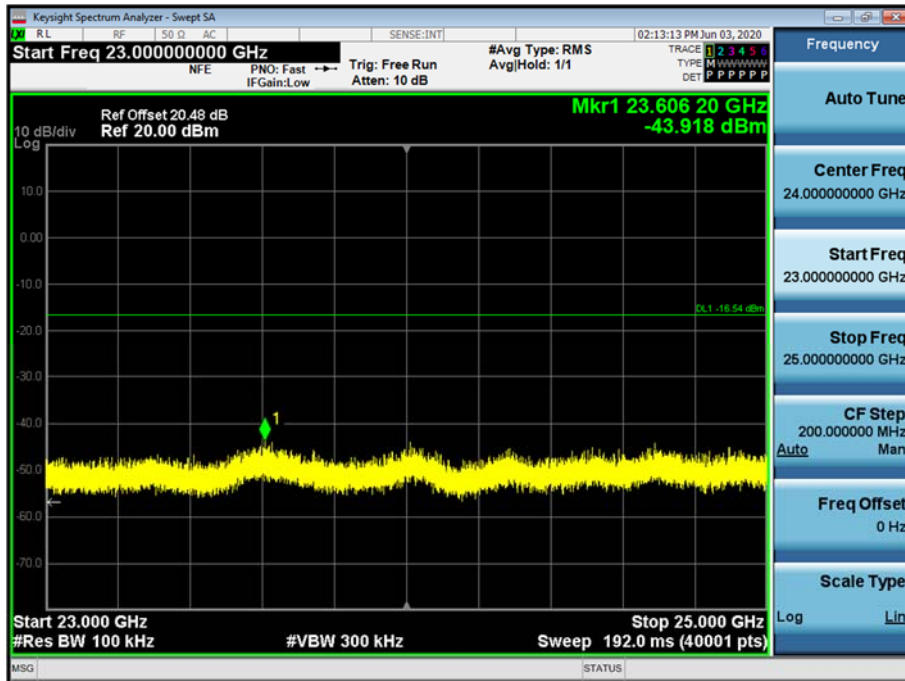
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



23 GHz ~ 25 GHz

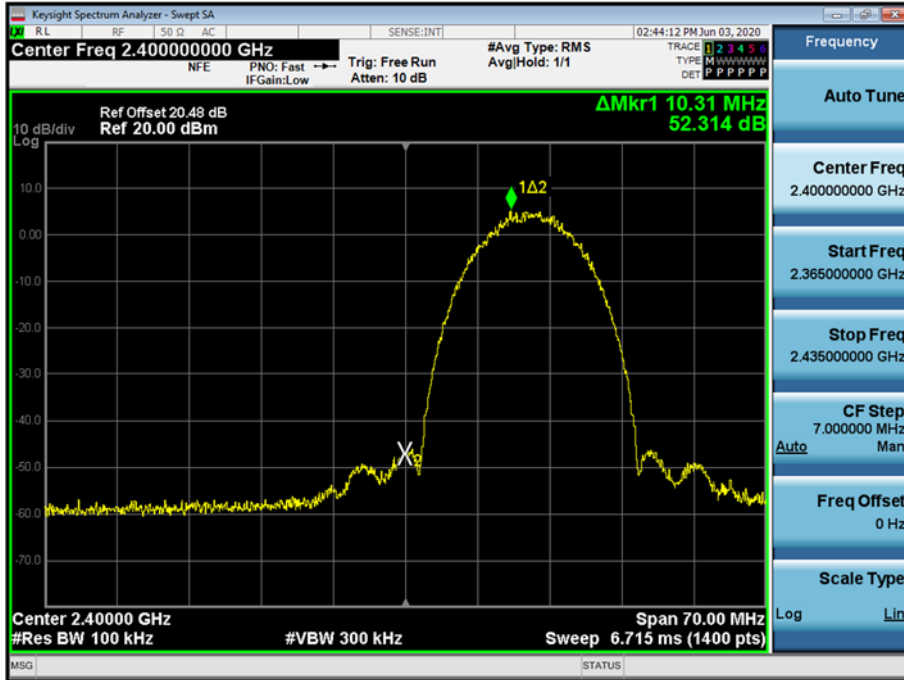
Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



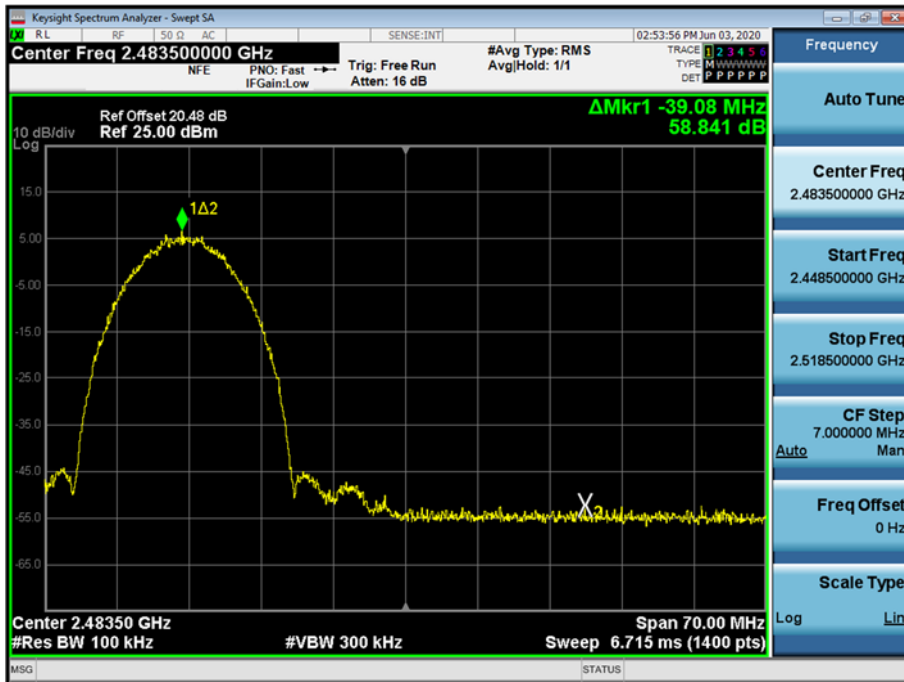
[ANT2]

☐ Test Plots(BandEdge)

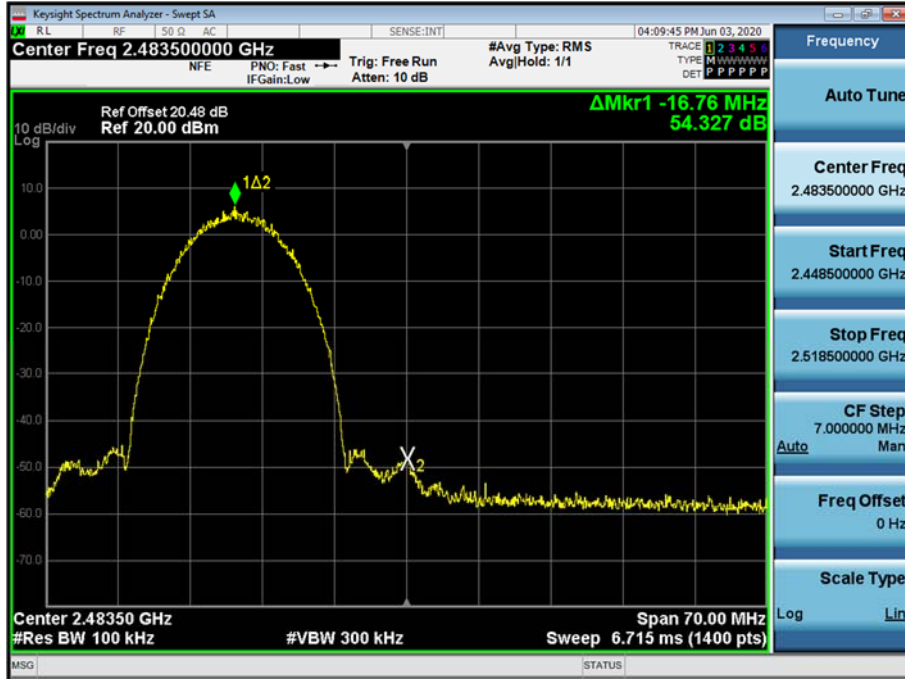
Band Edge (802.11b-CH1)



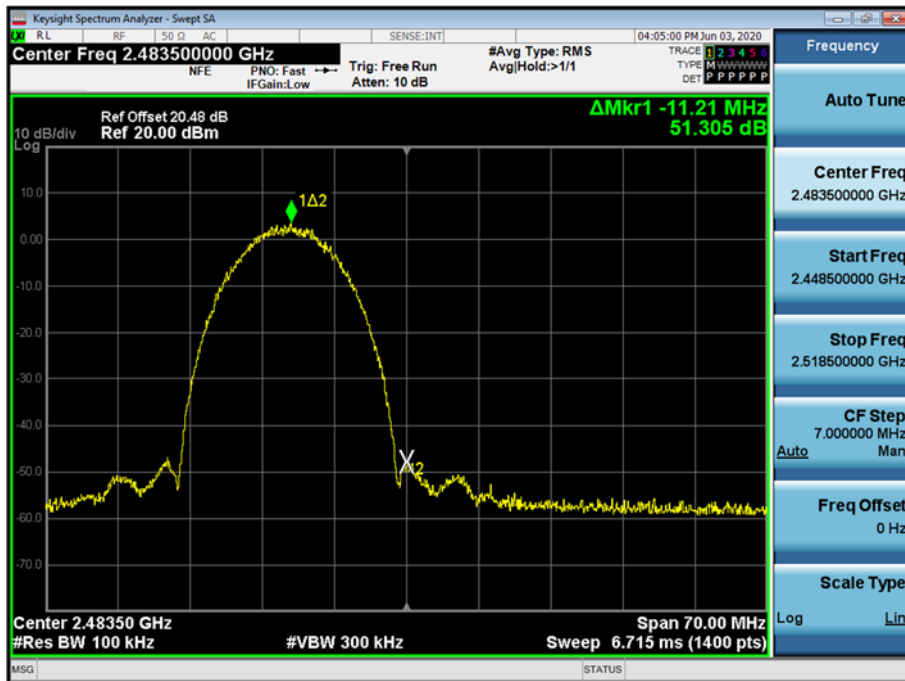
Band Edge (802.11b-CH11)



Band Edge (802.11b-CH12)

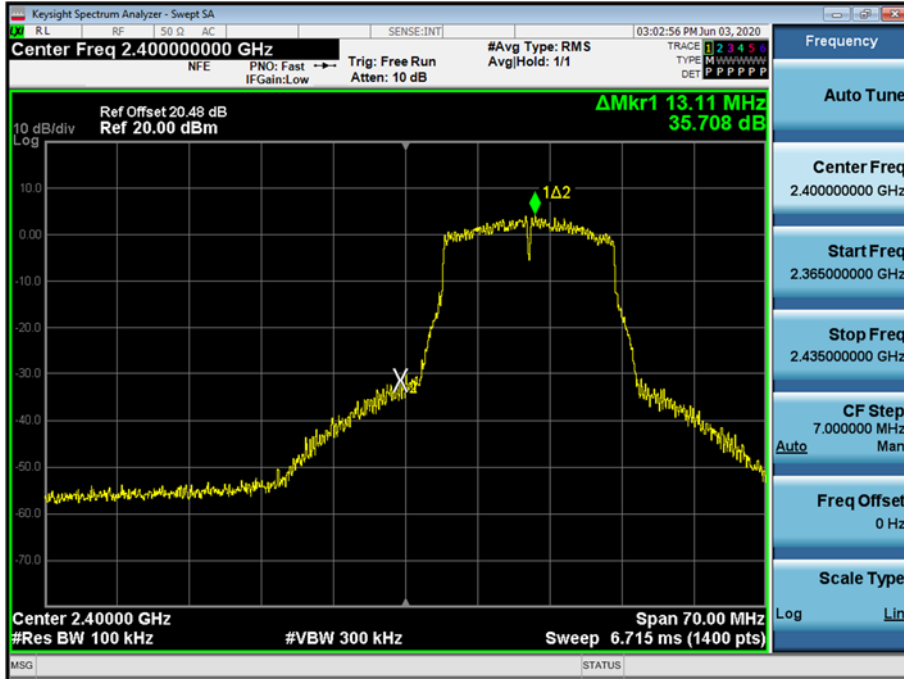


Band Edge (802.11b-CH13)

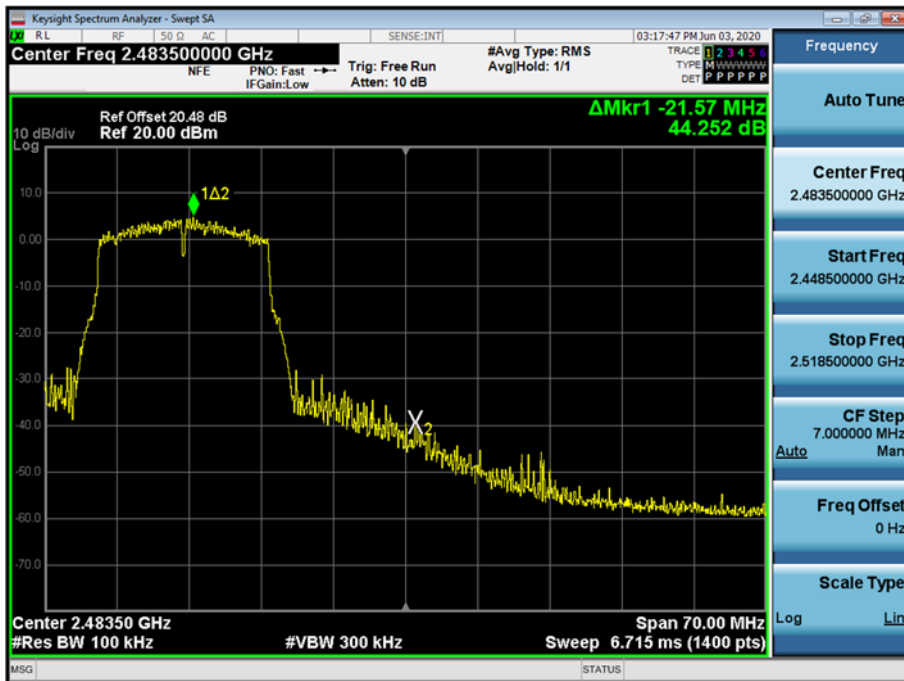




Band Edge (802.11g-CH1)

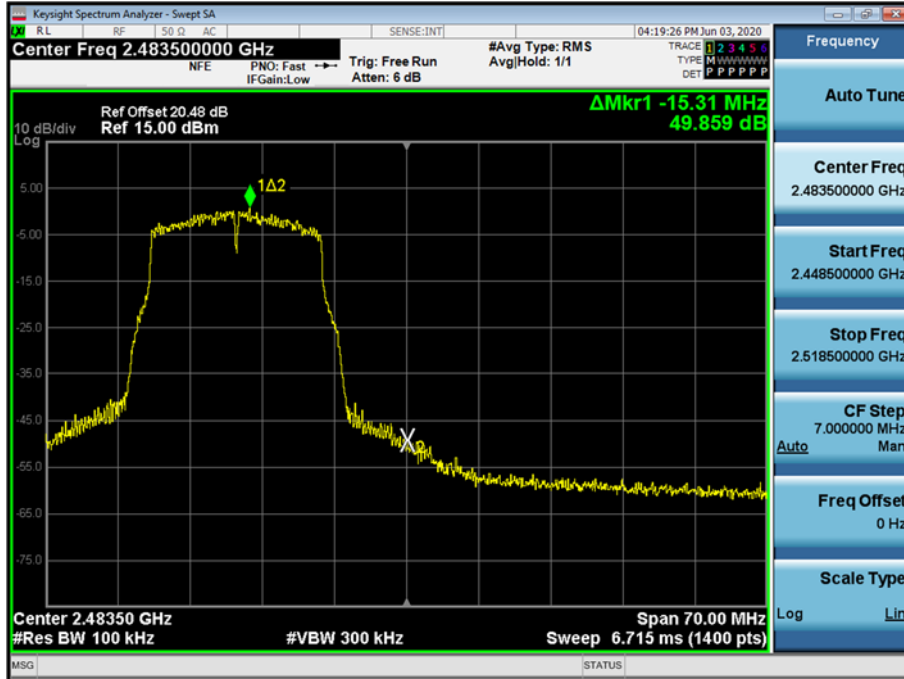


Band Edge (802.11g-CH11)

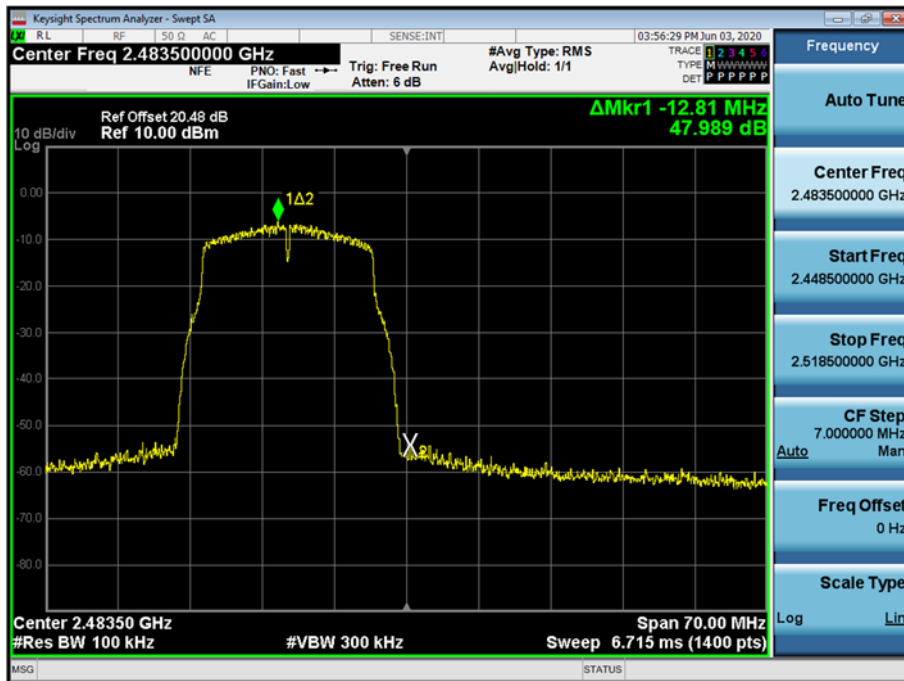




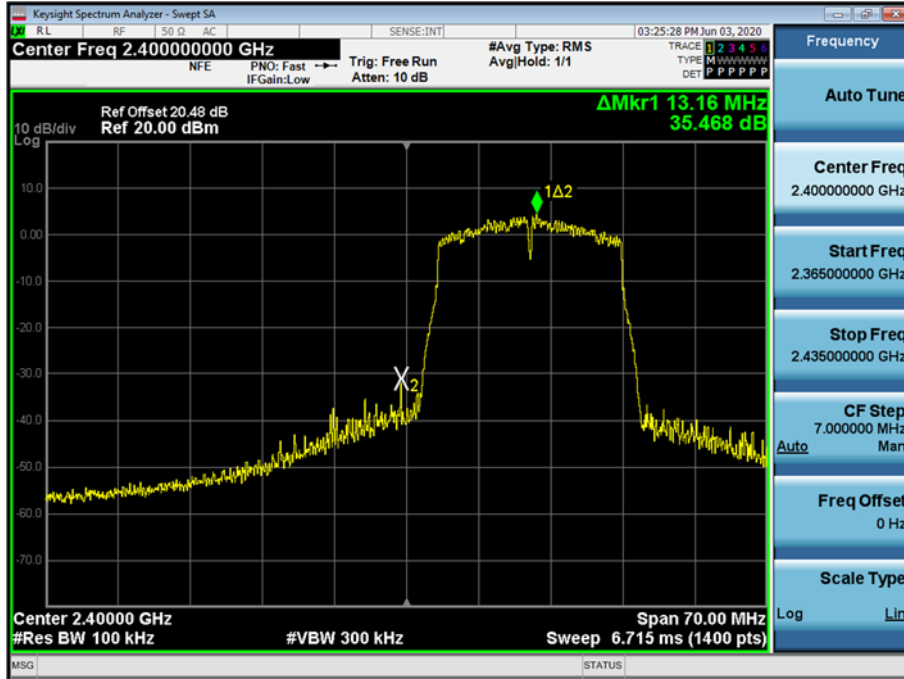
Band Edge (802.11g-CH12)



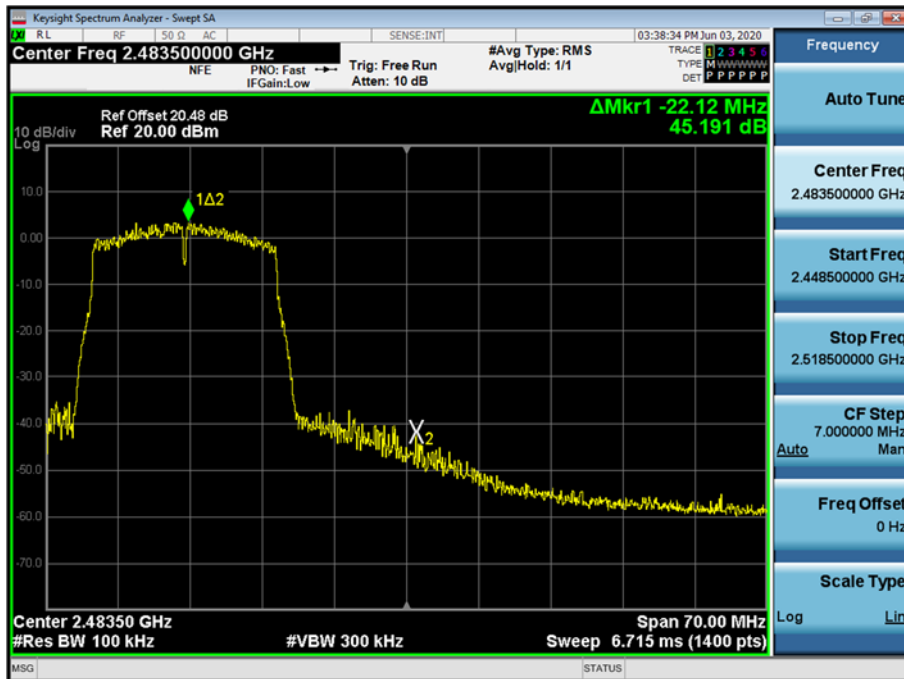
Band Edge (802.11g-CH13)



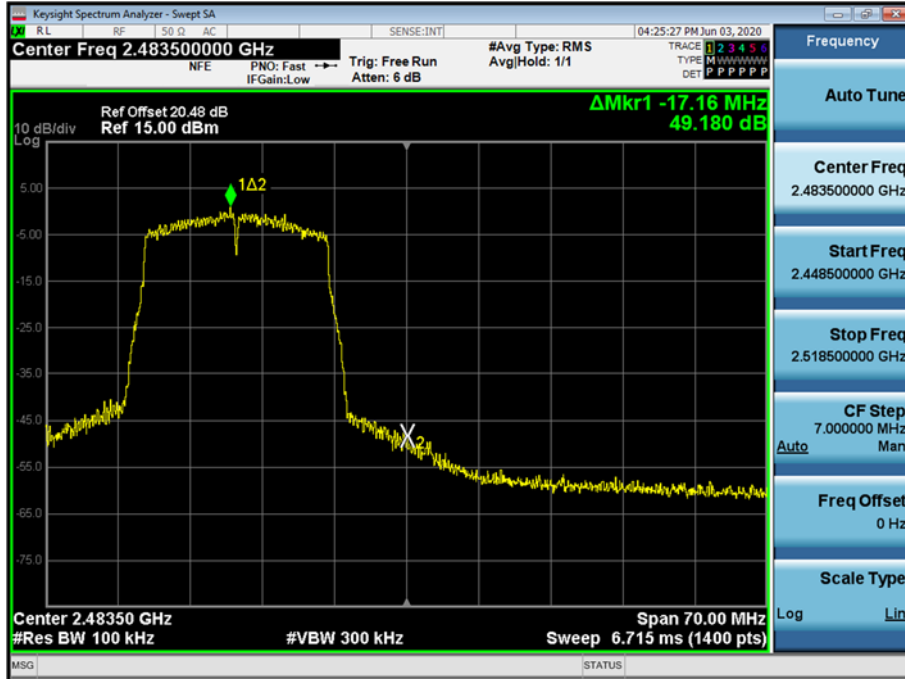
Band Edge (802.11n\_HT20 -CH1)



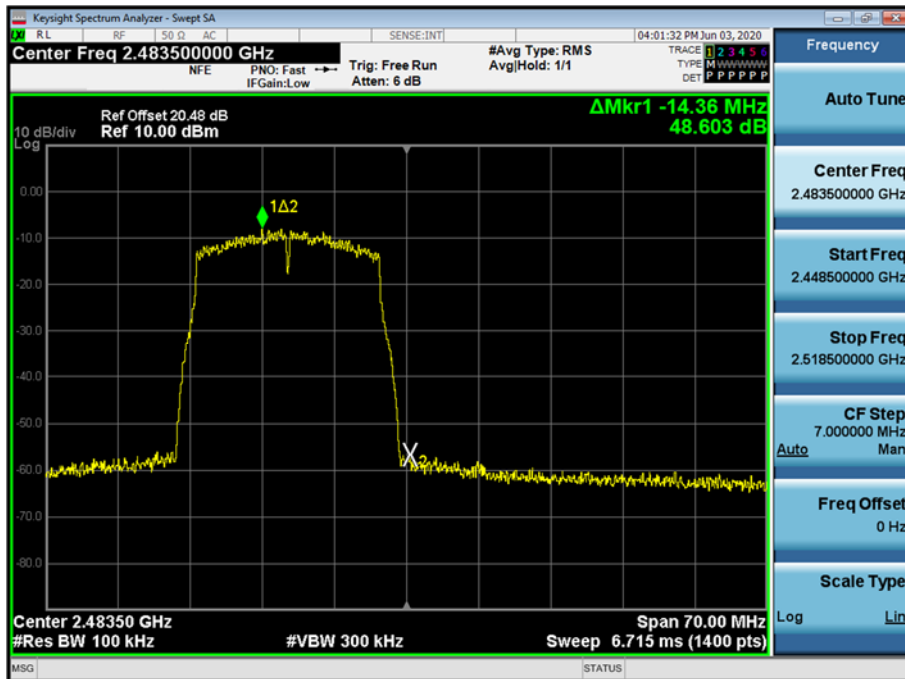
Band Edge (802.11n\_HT20 -CH11)



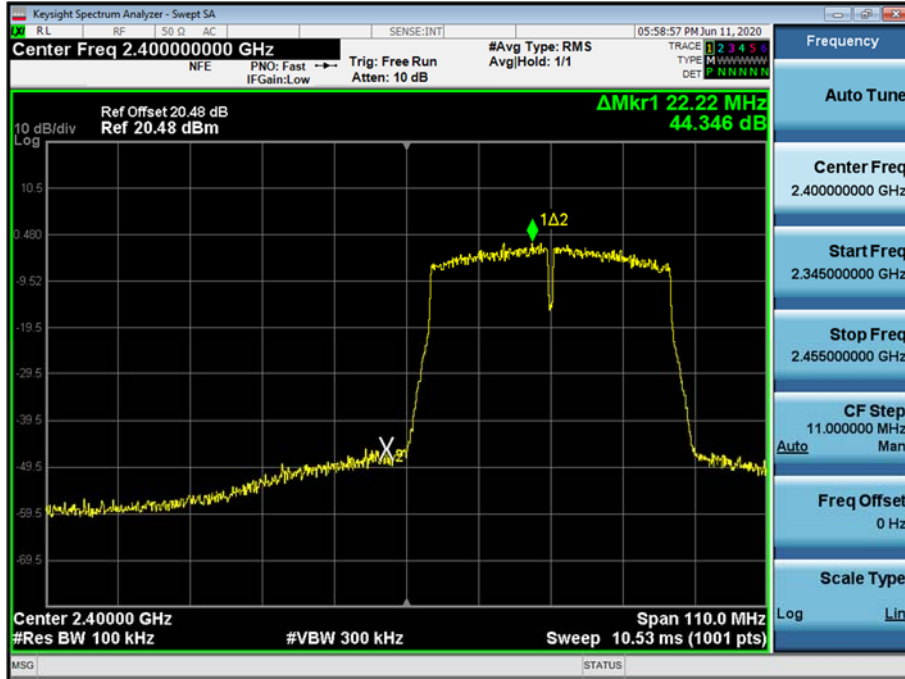
Band Edge (802.11n\_HT20 -CH12)



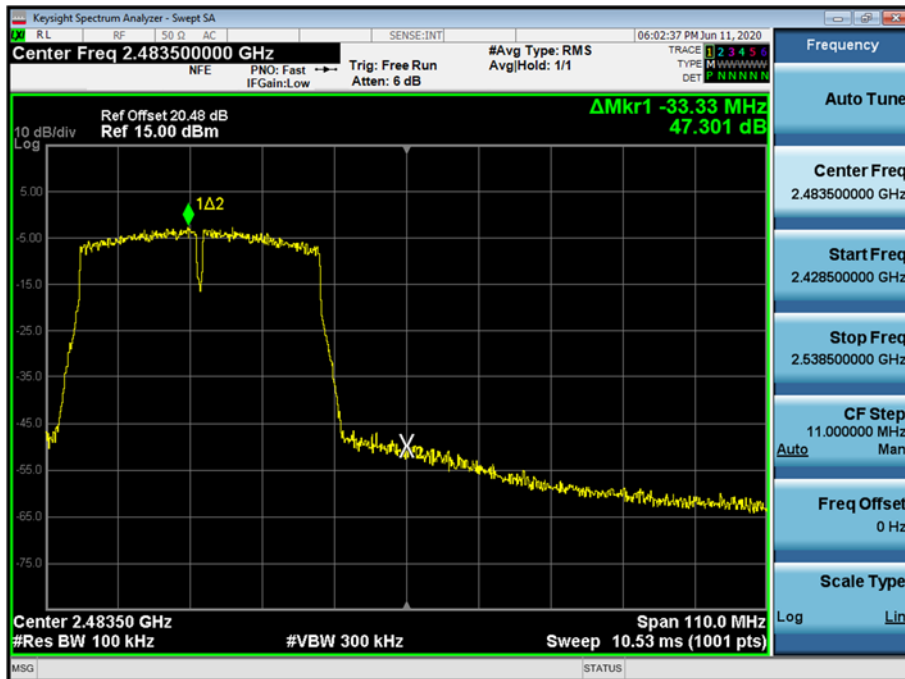
Band Edge (802.11n\_HT20 -CH13)



Band Edge (802.11n\_HT40 -CH3)



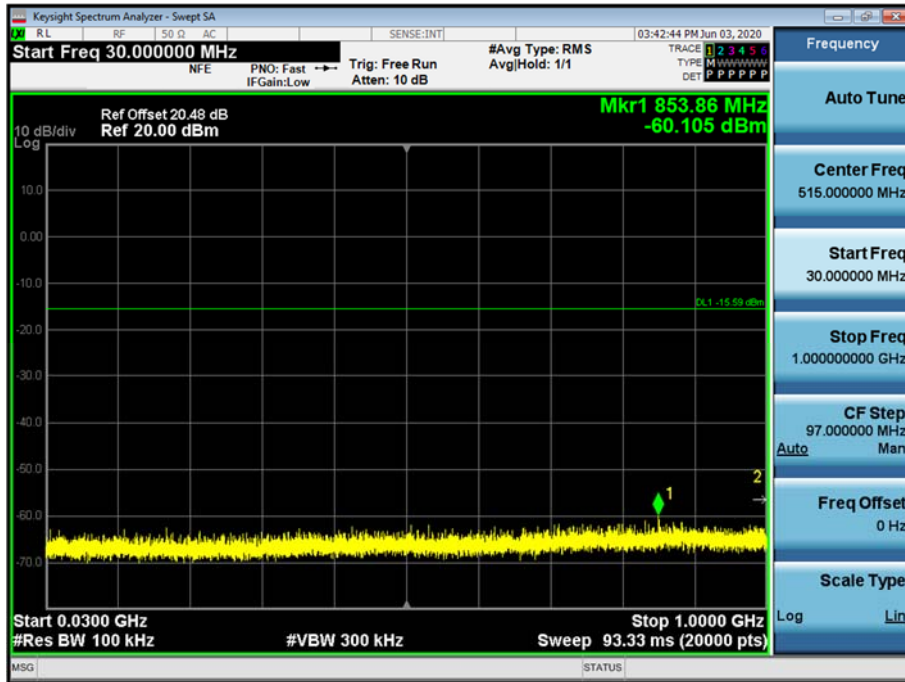
Band Edge (802.11n\_HT40 -CH9)



▣ Test Plots(Conducted Spurious Emission)

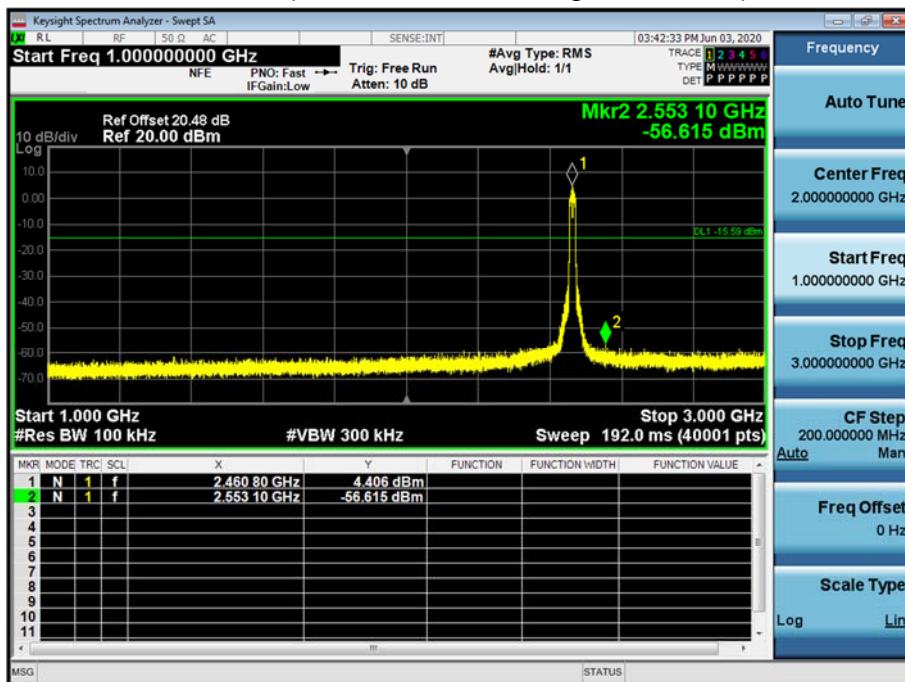
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



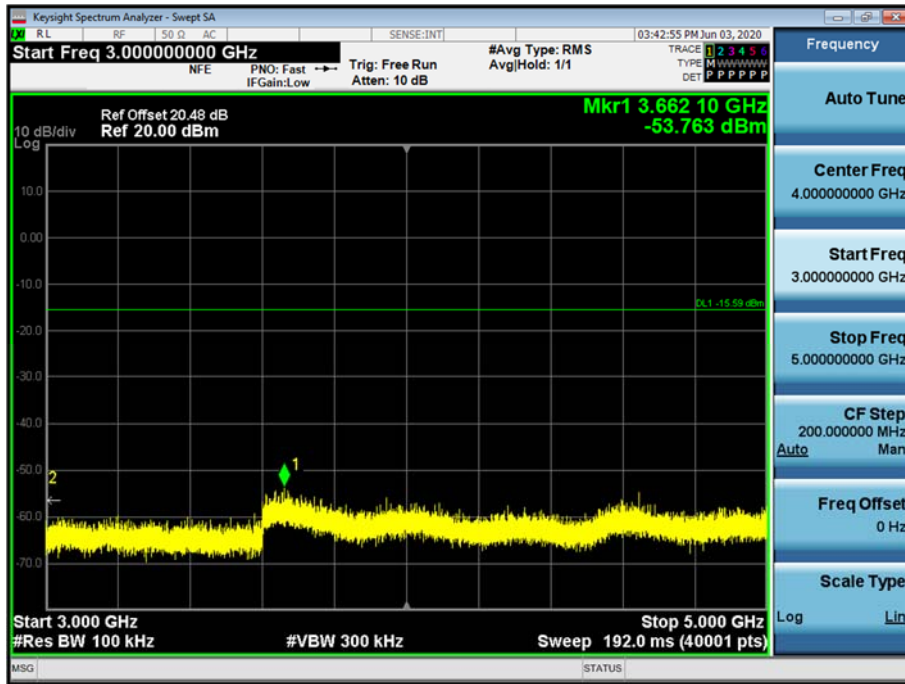
1 GHz ~ 3 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



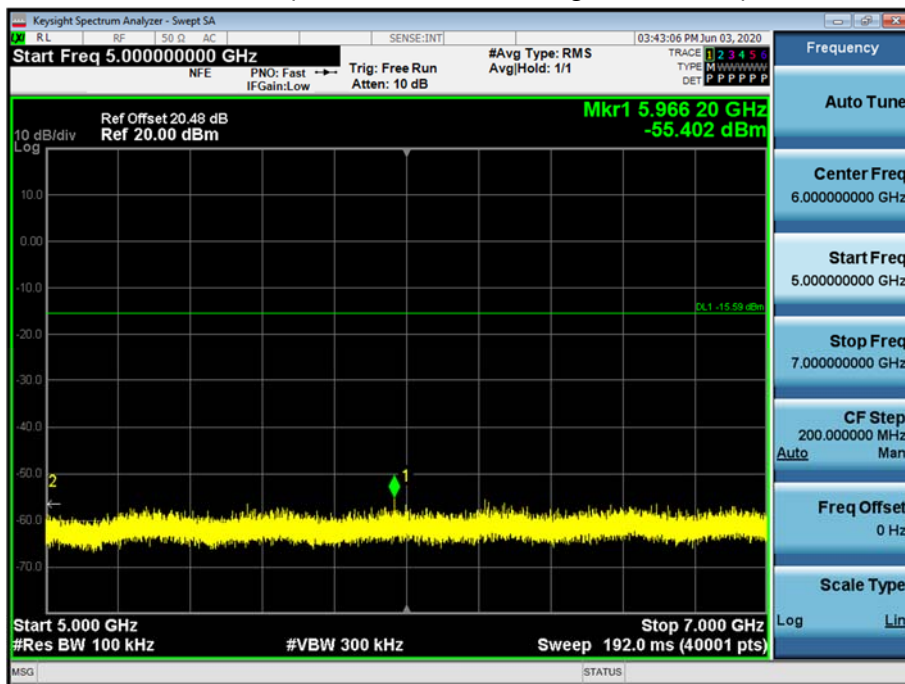
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



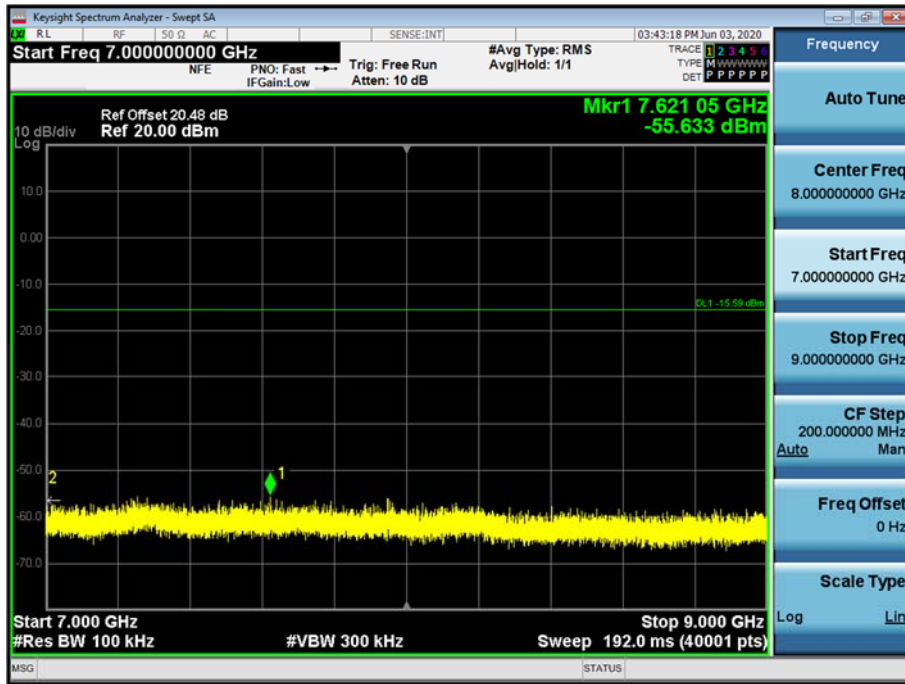
5 GHz ~ 7 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



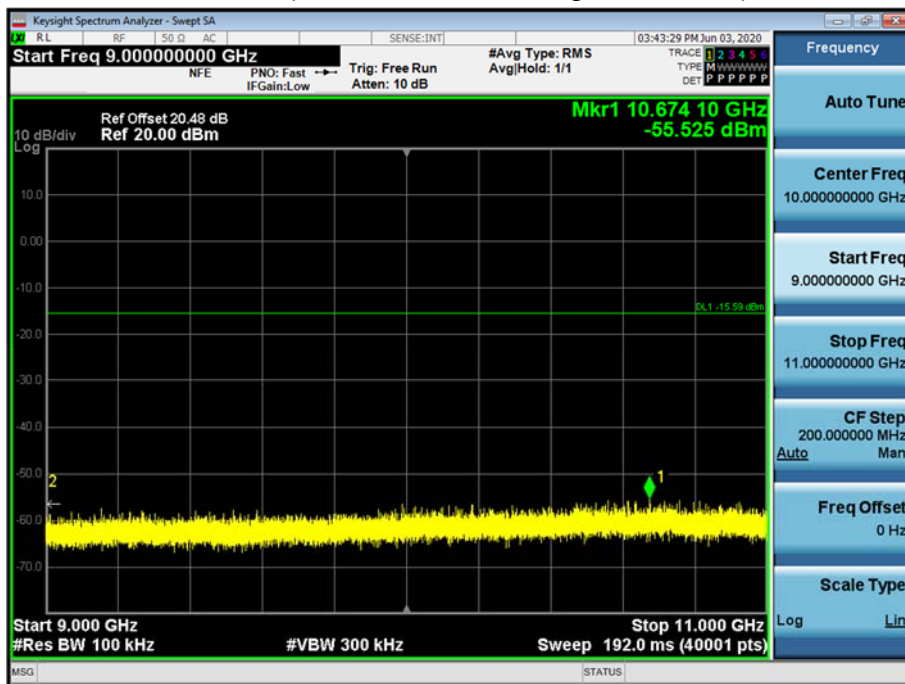
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



9 GHz ~ 11 GHz

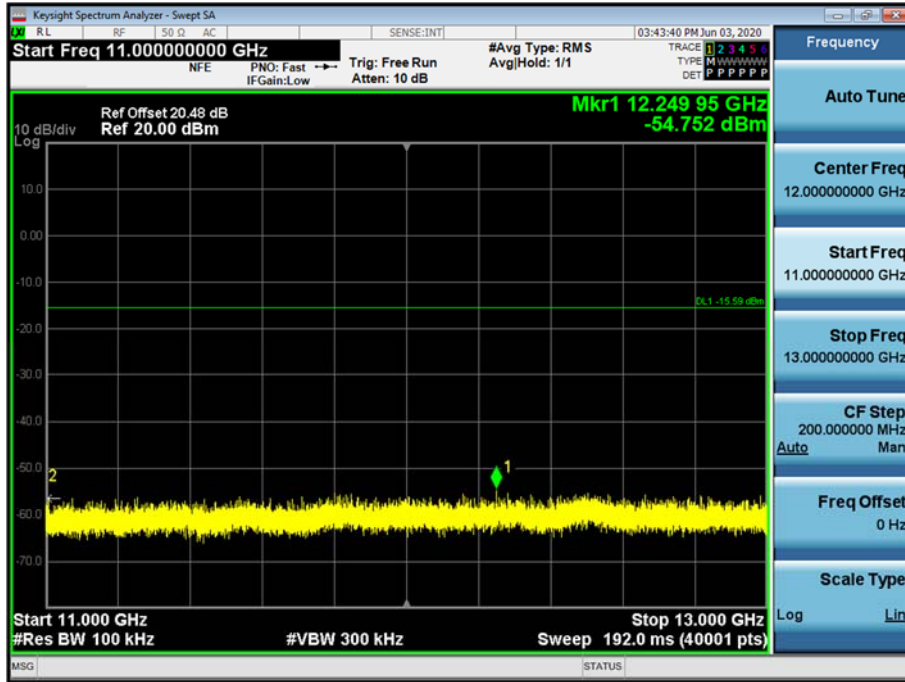
Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)





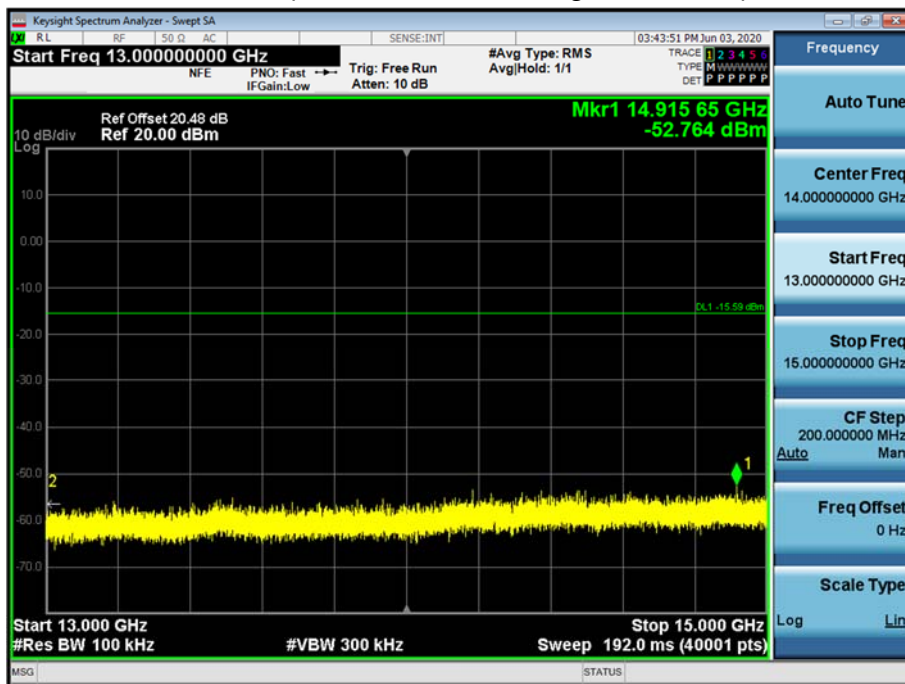
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



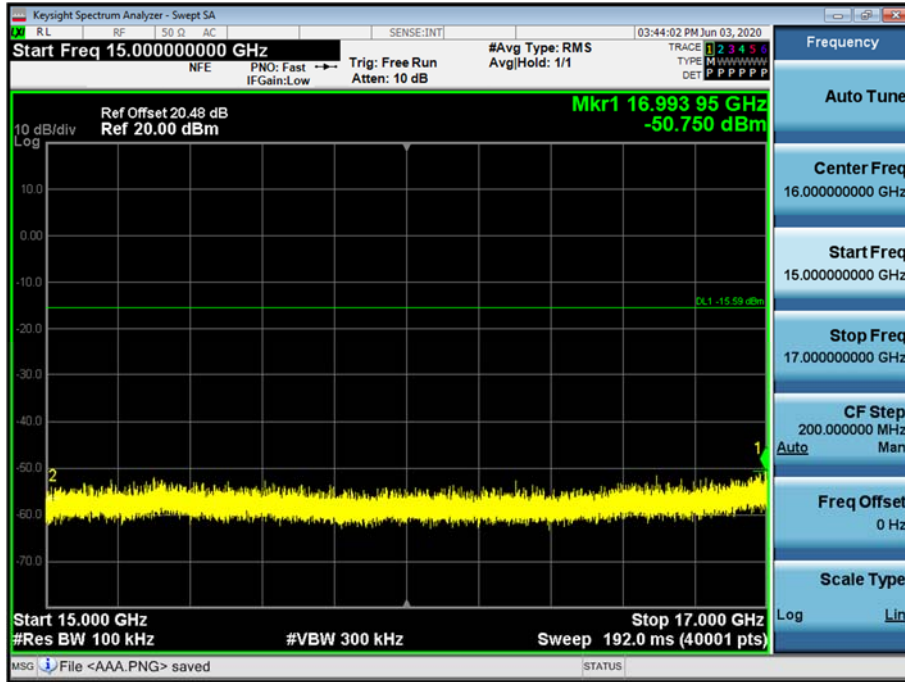
13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



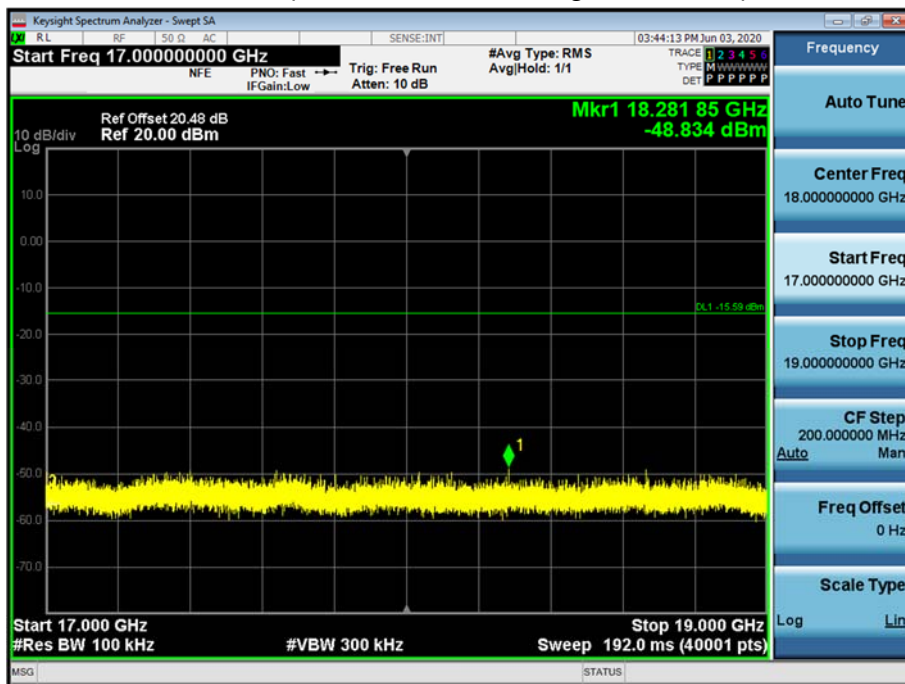
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



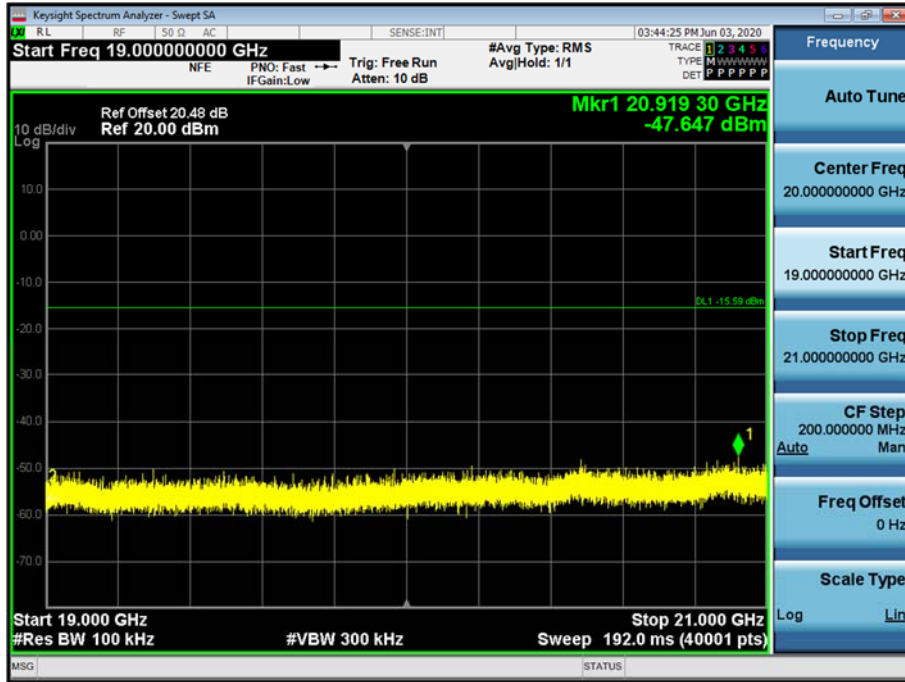
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



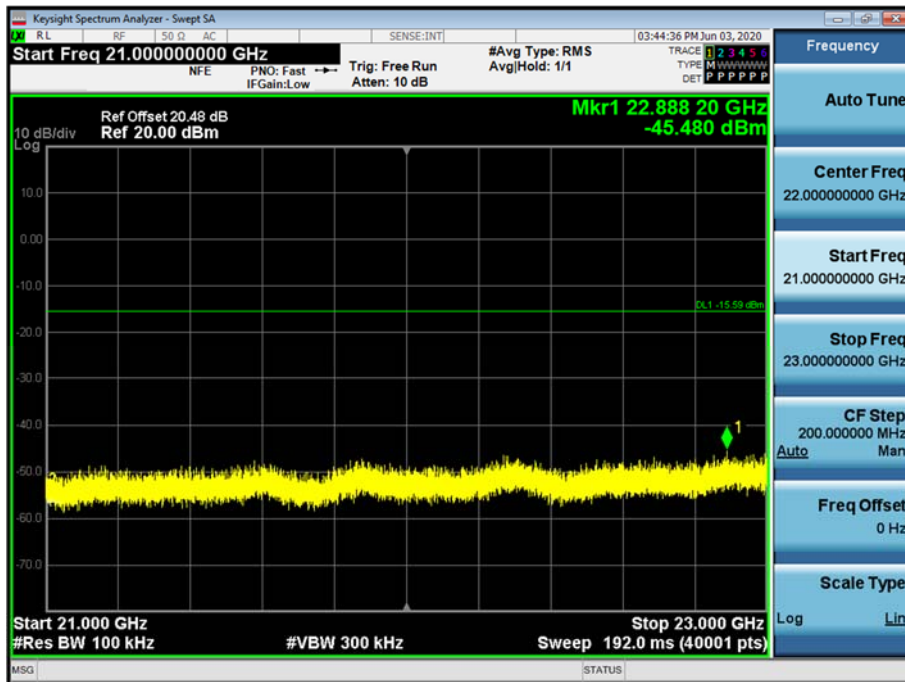
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



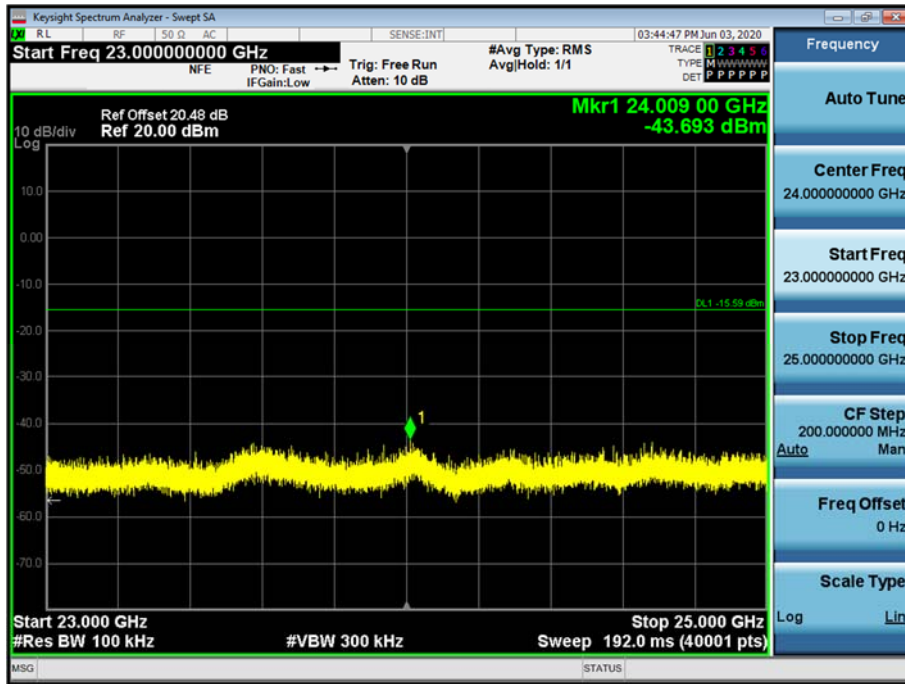
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11g\_Ch.11\_36 Mbps)



### 9.6 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

| Frequency               | Reading | Ant. factor | Cable loss | Ant. POL | Total  | Limit  | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz                     | dBuV/m  | dBm/m       | dBm        | (H/V)    | dBuV/m | dBuV/m | dB     |
| No Critical peaks found |         |             |            |          |        |        |        |

**Note:**

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

| Frequency               | Reading | Ant. factor | Cable loss | Ant. POL | Total  | Limit  | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz                     | dBuV/m  | dBm/m       | dBm        | (H/V)    | dBuV/m | dBuV/m | dB     |
| No Critical peaks found |         |             |            |          |        |        |        |

**Note:**

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

**[Only MIMO]**
**Frequency Range : Above 1 GHz**

|                     |         |
|---------------------|---------|
| Operation Mode:     | 802.11b |
| Transfer Rate:      | 1 Mbps  |
| Operating Frequency | 2412    |
| Channel No.         | 01 Ch   |

| Frequency [MHz] | Reading [dBuV] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4824            | 44.20          | 2.92              | V              | 47.12          | 73.98          | 26.86       | PK               |
| 4824            | 35.80          | 2.92              | V              | 38.72          | 53.98          | 15.26       | AV               |
| 7236            | 43.13          | 8.51              | V              | 51.64          | 73.98          | 22.34       | PK               |
| 7236            | 33.41          | 8.51              | V              | 41.92          | 53.98          | 12.06       | AV               |
| 4824            | 44.01          | 2.92              | H              | 46.93          | 73.98          | 27.05       | PK               |
| 4824            | 35.76          | 2.92              | H              | 38.68          | 53.98          | 15.30       | AV               |
| 7236            | 42.11          | 8.51              | H              | 50.62          | 73.98          | 23.36       | PK               |
| 7236            | 32.52          | 8.51              | H              | 41.03          | 53.98          | 12.95       | AV               |

|                     |         |
|---------------------|---------|
| Operation Mode:     | 802.11g |
| Transfer Rate:      | 6 Mbps  |
| Operating Frequency | 2412    |
| Channel No.         | 01 Ch   |

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4824            | 48.62          | 0.00                   | 2.92              | V              | 51.54          | 73.98          | 22.44       | PK               |
| 4824            | 32.55          | 0.00                   | 2.92              | V              | 35.47          | 53.98          | 18.51       | AV               |
| 7236            | 48.29          | 0.00                   | 8.51              | V              | 56.80          | 73.98          | 17.18       | PK               |
| 7236            | 31.51          | 0.00                   | 8.51              | V              | 40.02          | 53.98          | 13.96       | AV               |
| 4824            | 49.38          | 0.00                   | 2.92              | H              | 52.30          | 73.98          | 21.68       | PK               |
| 4824            | 35.58          | 0.00                   | 2.92              | H              | 38.50          | 53.98          | 15.48       | AV               |
| 7236            | 47.69          | 0.00                   | 8.51              | H              | 56.20          | 73.98          | 17.78       | PK               |
| 7236            | 31.28          | 0.00                   | 8.51              | H              | 39.79          | 53.98          | 14.19       | AV               |

Operation Mode: 802.11n (HT20)  
 Transfer MCS Index: 0  
 Operating Frequency 2412  
 Channel No. 01 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4824            | 46.63          | 0.00                   | 2.92              | V              | 49.55          | 73.98          | 24.43       | PK               |
| 4824            | 32.15          | 0.00                   | 2.92              | V              | 35.07          | 53.98          | 18.91       | AV               |
| 7236            | 45.68          | 0.00                   | 8.51              | V              | 54.19          | 73.98          | 19.79       | PK               |
| 7236            | 30.74          | 0.00                   | 8.51              | V              | 39.25          | 53.98          | 14.73       | AV               |
| 4824            | 48.32          | 0.00                   | 2.92              | H              | 51.24          | 73.98          | 22.74       | PK               |
| 4824            | 34.54          | 0.00                   | 2.92              | H              | 37.46          | 53.98          | 16.52       | AV               |
| 7236            | 44.69          | 0.00                   | 8.51              | H              | 53.20          | 73.98          | 20.78       | PK               |
| 7236            | 30.14          | 0.00                   | 8.51              | H              | 38.65          | 53.98          | 15.33       | AV               |

Operation Mode: 802.11n (HT40)  
 Transfer MCS Index: 0  
 Operating Frequency 2422  
 Channel No. 03 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4844            | 42.09          | 0.00                   | 3.33              | V              | 45.42          | 73.98          | 28.56       | PK               |
| 4844            | 30.48          | 0.00                   | 3.33              | V              | 33.81          | 53.98          | 20.17       | AV               |
| 7266            | 40.11          | 0.00                   | 8.65              | V              | 48.76          | 73.98          | 25.22       | PK               |
| 7266            | 28.23          | 0.00                   | 8.65              | V              | 36.88          | 53.98          | 17.10       | AV               |
| 4844            | 44.60          | 0.00                   | 3.33              | H              | 47.93          | 73.98          | 26.05       | PK               |
| 4844            | 31.62          | 0.00                   | 3.33              | H              | 34.95          | 53.98          | 19.03       | AV               |
| 7266            | 40.21          | 0.00                   | 8.65              | H              | 48.86          | 73.98          | 25.12       | PK               |
| 7266            | 28.58          | 0.00                   | 8.65              | H              | 37.23          | 53.98          | 16.75       | AV               |



Operation Mode: 802.11b  
 Transfer Rate: 1 Mbps  
 Operating Frequency 2437  
 Channel No. 06 Ch

| Frequency<br>[MHz] | Reading<br>[dBuV] | AN.+CL-AMP G<br>[dB] | ANT. POL<br>[H/V] | Total<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Measurement<br>Type |
|--------------------|-------------------|----------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 4874               | 42.81             | 2.97                 | V                 | 45.78             | 73.98             | 28.20          | PK                  |
| 4874               | 32.13             | 2.97                 | V                 | 35.10             | 53.98             | 18.88          | AV                  |
| 7311               | 41.92             | 9.23                 | V                 | 51.15             | 73.98             | 22.83          | PK                  |
| 7311               | 32.18             | 9.23                 | V                 | 41.41             | 53.98             | 12.57          | AV                  |
| 4874               | 43.95             | 2.97                 | H                 | 46.92             | 73.98             | 27.06          | PK                  |
| 4874               | 34.63             | 2.97                 | H                 | 37.60             | 53.98             | 16.38          | AV                  |
| 7311               | 40.21             | 9.23                 | H                 | 49.44             | 73.98             | 24.54          | PK                  |
| 7311               | 27.69             | 9.23                 | H                 | 36.92             | 53.98             | 17.06          | AV                  |

Operation Mode: 802.11g  
 Transfer Rate: 6 Mbps  
 Operating Frequency 2437  
 Channel No. 06 Ch

| Frequency<br>[MHz] | Reading<br>[dBuV] | Duty<br>Cycle<br>Factor<br>[dB] | AN.+CL-<br>AMP G<br>[dB] | ANT.<br>POL<br>[H/V] | Total<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Measure<br>ment<br>Type |
|--------------------|-------------------|---------------------------------|--------------------------|----------------------|-------------------|-------------------|----------------|-------------------------|
| 4874               | 45.60             | 0.00                            | 2.97                     | V                    | 48.57             | 73.98             | 25.41          | PK                      |
| 4874               | 32.22             | 0.00                            | 2.97                     | V                    | 35.19             | 53.98             | 18.79          | AV                      |
| 7311               | 45.89             | 0.00                            | 9.23                     | V                    | 55.12             | 73.98             | 18.86          | PK                      |
| 7311               | 30.07             | 0.00                            | 9.23                     | V                    | 39.30             | 53.98             | 14.68          | AV                      |
| 4874               | 48.25             | 0.00                            | 2.97                     | H                    | 51.22             | 73.98             | 22.76          | PK                      |
| 4874               | 33.45             | 0.00                            | 2.97                     | H                    | 36.42             | 53.98             | 17.56          | AV                      |
| 7311               | 44.98             | 0.00                            | 9.23                     | H                    | 54.21             | 73.98             | 19.77          | PK                      |
| 7311               | 29.65             | 0.00                            | 9.23                     | H                    | 38.88             | 53.98             | 15.10          | AV                      |

Operation Mode: 802.11n (HT20)  
 Transfer MCS Index: 0  
 Operating Frequency: 2437  
 Channel No.: 06 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4874            | 43.80          | 0.00                   | 2.97              | V              | 46.77          | 73.98          | 27.21       | PK               |
| 4874            | 31.32          | 0.00                   | 2.97              | V              | 34.29          | 53.98          | 19.69       | AV               |
| 7311            | 42.97          | 0.00                   | 9.23              | V              | 52.20          | 73.98          | 21.78       | PK               |
| 7311            | 29.06          | 0.00                   | 9.23              | V              | 38.29          | 53.98          | 15.69       | AV               |
| 4874            | 45.07          | 0.00                   | 2.97              | H              | 48.04          | 73.98          | 25.94       | PK               |
| 4874            | 32.46          | 0.00                   | 2.97              | H              | 35.43          | 53.98          | 18.55       | AV               |
| 7311            | 41.69          | 0.00                   | 9.23              | H              | 50.92          | 73.98          | 23.06       | PK               |
| 7311            | 29.00          | 0.00                   | 9.23              | H              | 38.23          | 53.98          | 15.75       | AV               |

Operation Mode: 802.11n (HT40)  
 Transfer MCS Index: 0  
 Operating Frequency: 2437  
 Channel No.: 06 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4874            | 43.08          | 0.00                   | 2.97              | V              | 46.05          | 73.98          | 27.93       | PK               |
| 4874            | 30.01          | 0.00                   | 2.97              | V              | 32.98          | 53.98          | 21.00       | AV               |
| 7311            | 40.29          | 0.00                   | 9.23              | V              | 49.52          | 73.98          | 24.46       | PK               |
| 7311            | 28.11          | 0.00                   | 9.23              | V              | 37.34          | 53.98          | 16.64       | AV               |
| 4874            | 44.36          | 0.00                   | 2.97              | H              | 47.33          | 73.98          | 26.65       | PK               |
| 4874            | 30.76          | 0.00                   | 2.97              | H              | 33.73          | 53.98          | 20.25       | AV               |
| 7311            | 40.60          | 0.00                   | 9.23              | H              | 49.83          | 73.98          | 24.15       | PK               |
| 7311            | 28.26          | 0.00                   | 9.23              | H              | 37.49          | 53.98          | 16.49       | AV               |

Operation Mode: 802.11b  
 Transfer Rate: 1 Mbps  
 Operating Frequency: 2462  
 Channel No.: 11 Ch

| Frequency [MHz] | Reading [dBuV] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4924            | 44.19          | 2.57              | V              | 46.76          | 73.98          | 27.22       | PK               |
| 4924            | 36.23          | 2.57              | V              | 38.80          | 53.98          | 15.18       | AV               |
| 7386            | 40.30          | 10.03             | V              | 50.33          | 73.98          | 23.65       | PK               |
| 7386            | 27.82          | 10.03             | V              | 37.85          | 53.98          | 16.13       | AV               |
| 4924            | 45.92          | 2.57              | H              | 48.49          | 73.98          | 25.49       | PK               |
| 4924            | 38.58          | 2.57              | H              | 41.15          | 53.98          | 12.83       | AV               |
| 7386            | 40.19          | 10.03             | H              | 50.22          | 73.98          | 23.76       | PK               |
| 7386            | 27.33          | 10.03             | H              | 37.36          | 53.98          | 16.62       | AV               |

Operation Mode: 802.11g  
 Transfer Rate: 6 Mbps  
 Operating Frequency: 2462  
 Channel No.: 11 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4924            | 49.37          | 0.00                   | 2.57              | V              | 51.94          | 73.98          | 22.04       | PK               |
| 4924            | 34.32          | 0.00                   | 2.57              | V              | 36.89          | 53.98          | 17.09       | AV               |
| 7386            | 41.09          | 0.00                   | 10.03             | V              | 51.12          | 73.98          | 22.86       | PK               |
| 7386            | 28.17          | 0.00                   | 10.03             | V              | 38.20          | 53.98          | 15.78       | AV               |
| 4924            | 50.63          | 0.00                   | 2.57              | H              | 53.20          | 73.98          | 20.78       | PK               |
| 4924            | 35.46          | 0.00                   | 2.57              | H              | 38.03          | 53.98          | 15.95       | AV               |
| 7386            | 40.78          | 0.00                   | 10.03             | H              | 50.81          | 73.98          | 23.17       | PK               |
| 7386            | 28.11          | 0.00                   | 10.03             | H              | 38.14          | 53.98          | 15.84       | AV               |

Operation Mode: 802.11n (HT20)  
 Transfer MCS Index: 0  
 Operating Frequency: 2462  
 Channel No.: 11 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4924            | 45.26          | 0.00                   | 2.57              | V              | 47.83          | 73.98          | 26.15       | PK               |
| 4924            | 32.14          | 0.00                   | 2.57              | V              | 34.71          | 53.98          | 19.27       | AV               |
| 7386            | 40.13          | 0.00                   | 10.03             | V              | 50.16          | 73.98          | 23.82       | PK               |
| 7386            | 27.96          | 0.00                   | 10.03             | V              | 37.99          | 53.98          | 15.99       | AV               |
| 4924            | 46.19          | 0.00                   | 2.57              | H              | 48.76          | 73.98          | 25.22       | PK               |
| 4924            | 33.19          | 0.00                   | 2.57              | H              | 35.76          | 53.98          | 18.22       | AV               |
| 7386            | 39.83          | 0.00                   | 10.03             | H              | 49.86          | 73.98          | 24.12       | PK               |
| 7386            | 27.85          | 0.00                   | 10.03             | H              | 37.88          | 53.98          | 16.10       | AV               |

Operation Mode: 802.11n (HT40)  
 Transfer MCS Index: 0  
 Operating Frequency: 2452  
 Channel No.: 9 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4904            | 43.05          | 0.00                   | 2.76              | V              | 45.81          | 73.98          | 28.17       | PK               |
| 4904            | 30.21          | 0.00                   | 2.76              | V              | 32.97          | 53.98          | 21.01       | AV               |
| 7356            | 40.01          | 0.00                   | 9.84              | V              | 49.85          | 73.98          | 24.13       | PK               |
| 7356            | 28.14          | 0.00                   | 9.84              | V              | 37.98          | 53.98          | 16.00       | AV               |
| 4904            | 43.33          | 0.00                   | 2.76              | H              | 46.09          | 73.98          | 27.89       | PK               |
| 4904            | 30.61          | 0.00                   | 2.76              | H              | 33.37          | 53.98          | 20.61       | AV               |
| 7356            | 40.09          | 0.00                   | 9.84              | H              | 49.93          | 73.98          | 24.05       | PK               |
| 7356            | 28.20          | 0.00                   | 9.84              | H              | 38.04          | 53.98          | 15.94       | AV               |

Operation Mode: 802.11b  
 Transfer Rate: 1 Mbps  
 Operating Frequency: 2467  
 Channel No.: 12 Ch

| Frequency [MHz] | Reading [dBuV] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4934            | 45.32          | 2.42              | H              | 47.74          | 73.98          | 26.24       | PK               |
| 4934            | 38.79          | 2.42              | H              | 41.21          | 53.98          | 12.77       | AV               |
| 7401            | 40.41          | 10.24             | H              | 50.65          | 73.98          | 23.33       | PK               |
| 7401            | 28.14          | 10.24             | H              | 38.38          | 53.98          | 15.60       | AV               |

Operation Mode: 802.11g  
 Transfer Rate: 6 Mbps  
 Operating Frequency: 2467  
 Channel No.: 12 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4934            | 44.05          | 0.00                   | 2.42              | H              | 46.47          | 73.98          | 27.51       | PK               |
| 4934            | 30.85          | 0.00                   | 2.42              | H              | 33.27          | 53.98          | 20.71       | AV               |
| 7401            | 39.86          | 0.00                   | 10.24             | H              | 50.10          | 73.98          | 23.88       | PK               |
| 7401            | 27.96          | 0.00                   | 10.24             | H              | 38.20          | 53.98          | 15.78       | AV               |

Operation Mode: 802.11n (HT20)  
Transfer MCS Index: 0  
Operating Frequency: 2467  
Channel No.: 12 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4934            | 42.69          | 0.00                   | 2.42              | H              | 45.11          | 73.98          | 28.87       | PK               |
| 4934            | 30.47          | 0.00                   | 2.42              | H              | 32.89          | 53.98          | 21.09       | AV               |
| 7401            | 40.44          | 0.00                   | 10.24             | H              | 50.68          | 73.98          | 23.30       | PK               |
| 7401            | 27.92          | 0.00                   | 10.24             | H              | 38.16          | 53.98          | 15.82       | AV               |

|                     |         |
|---------------------|---------|
| Operation Mode:     | 802.11b |
| Transfer Rate:      | 1 Mbps  |
| Operating Frequency | 2472    |
| Channel No.         | 13 Ch   |

| Frequency [MHz] | Reading [dBuV] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4944            | 42.58          | 2.57              | V              | 45.15          | 73.98          | 28.83       | PK               |
| 4944            | 34.75          | 2.57              | V              | 37.32          | 53.98          | 16.66       | AV               |
| 7416            | 39.58          | 10.03             | V              | 49.61          | 73.98          | 24.37       | PK               |
| 7416            | 27.17          | 10.03             | V              | 37.20          | 53.98          | 16.78       | AV               |
| 4944            | 43.66          | 2.57              | H              | 46.23          | 73.98          | 27.75       | PK               |
| 4944            | 35.91          | 2.57              | H              | 38.48          | 53.98          | 15.50       | AV               |
| 7416            | 39.69          | 10.03             | H              | 49.72          | 73.98          | 24.26       | PK               |
| 7416            | 27.80          | 10.03             | H              | 37.83          | 53.98          | 16.15       | AV               |

|                     |         |
|---------------------|---------|
| Operation Mode:     | 802.11g |
| Transfer Rate:      | 6 Mbps  |
| Operating Frequency | 2472    |
| Channel No.         | 13 Ch   |

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4944            | 41.69          | 0.00                   | 2.57              | V              | 44.26          | 73.98          | 29.72       | PK               |
| 4944            | 29.68          | 0.00                   | 2.57              | V              | 32.25          | 53.98          | 21.73       | AV               |
| 7416            | 37.68          | 0.00                   | 10.03             | V              | 47.71          | 73.98          | 26.27       | PK               |
| 7416            | 27.49          | 0.00                   | 10.03             | V              | 37.52          | 53.98          | 16.46       | AV               |
| 4944            | 41.78          | 0.00                   | 2.57              | H              | 44.35          | 73.98          | 29.63       | PK               |
| 4944            | 29.71          | 0.00                   | 2.57              | H              | 32.28          | 53.98          | 21.70       | AV               |
| 7416            | 39.75          | 0.00                   | 10.03             | H              | 49.78          | 73.98          | 24.20       | PK               |
| 7416            | 27.79          | 0.00                   | 10.03             | H              | 37.82          | 53.98          | 16.16       | AV               |

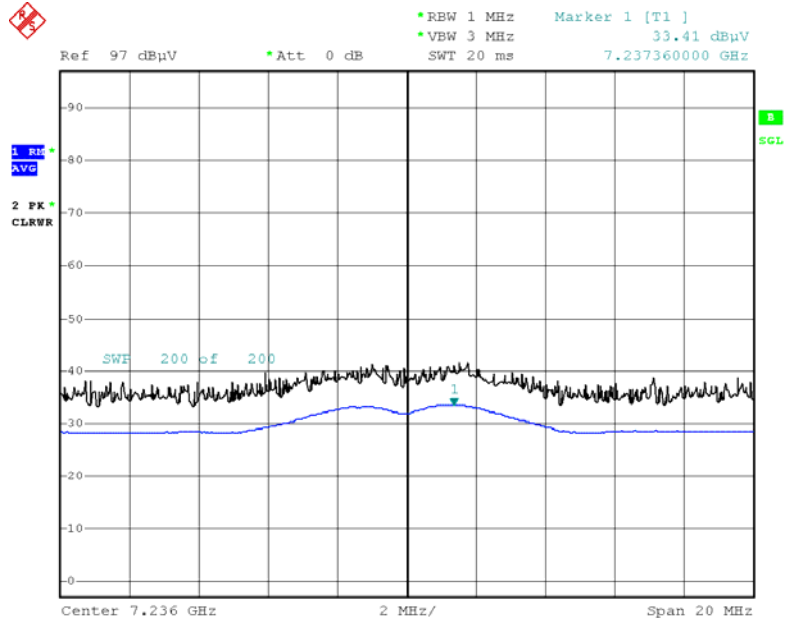


Operation Mode: 802.11n (HT20)  
 Transfer MCS Index: 0  
 Operating Frequency: 2472  
 Channel No.: 13 Ch

| Frequency [MHz] | Reading [dBuV] | Duty Cycle Factor [dB] | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------|-------------------|----------------|----------------|----------------|-------------|------------------|
| 4924            | 41.27          | 0.00                   | 2.57              | V              | 43.84          | 73.98          | 30.14       | PK               |
| 4924            | 29.66          | 0.00                   | 2.57              | V              | 32.23          | 53.98          | 21.75       | AV               |
| 7386            | 40.09          | 0.00                   | 10.03             | V              | 50.12          | 73.98          | 23.86       | PK               |
| 7386            | 27.39          | 0.00                   | 10.03             | V              | 37.42          | 53.98          | 16.56       | AV               |
| 4924            | 41.66          | 0.00                   | 2.57              | H              | 44.23          | 73.98          | 29.75       | PK               |
| 4924            | 29.69          | 0.00                   | 2.57              | H              | 32.26          | 53.98          | 21.72       | AV               |
| 7386            | 40.13          | 0.00                   | 10.03             | H              | 50.16          | 73.98          | 23.82       | PK               |
| 7386            | 27.76          | 0.00                   | 10.03             | H              | 37.79          | 53.98          | 16.19       | AV               |

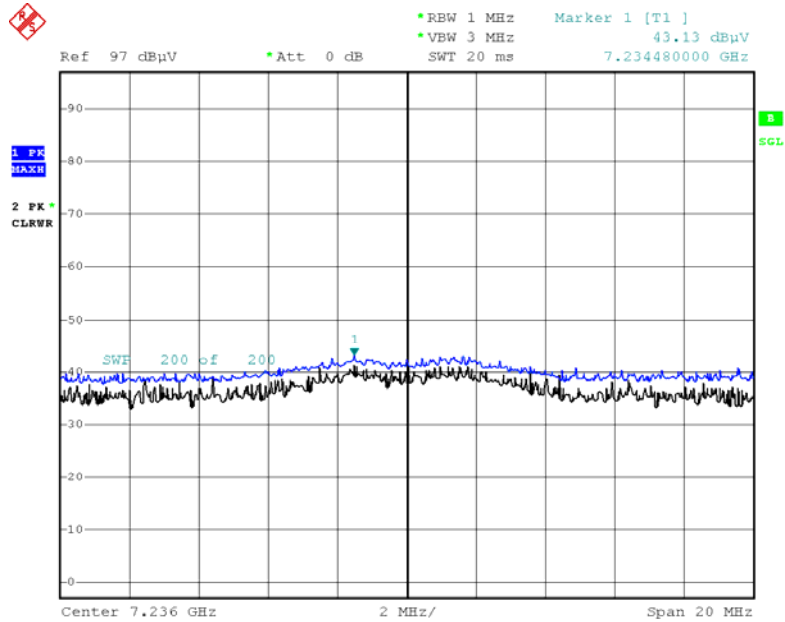
▣ Test Plots (Worst case : Y-V)

Radiated Spurious Emissions plot – Average Reading (802.11b, Ch.1 3rd Harmonic)



Date: 29.MAY.2020 03:43:44

Radiated Spurious Emissions plot – Peak Reading (802.11b, Ch.1 3rd Harmonic)



Date: 29.MAY.2020 03:43:58

**Note:**

Plot of worst case are only reported.

### 9.7 RADIATED RESTRICTED BAND EDGES

|                     |                    |
|---------------------|--------------------|
| Operation Mode:     | 802.11b            |
| Transfer Rate:      | 1 Mbps             |
| Operating Frequency | 2412 MHz, 2462 MHz |
| Channel No.         | 01 Ch, 11 Ch       |

| Frequency [MHz] | Reading [dBuV] | ※ A.F.+CL [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|----------------|----------------|----------------|----------------|-------------|------------------|
| 2390.0          | 50.29          | 0.56           | H              | 50.85          | 73.98          | 23.13       | PK               |
| 2390.0          | 39.23          | 0.56           | H              | 39.79          | 53.98          | 14.19       | AV               |
| 2390.0          | 49.12          | 0.56           | V              | 49.68          | 73.98          | 24.30       | PK               |
| 2390.0          | 37.25          | 0.56           | V              | 37.81          | 53.98          | 16.17       | AV               |
| 2483.5          | 48.09          | 1.24           | H              | 49.33          | 73.98          | 24.65       | PK               |
| 2483.5          | 37.14          | 1.24           | H              | 38.38          | 53.98          | 15.60       | AV               |
| 2483.5          | 47.89          | 1.24           | V              | 49.13          | 73.98          | 24.85       | PK               |
| 2483.5          | 36.28          | 1.24           | V              | 37.52          | 53.98          | 16.46       | AV               |

|                     |                    |
|---------------------|--------------------|
| Operation Mode:     | 802.11b            |
| Transfer Rate:      | 1 Mbps             |
| Operating Frequency | 2467 MHz, 2472 MHz |
| Channel No.         | 12 Ch, 13 Ch       |

| Frequency [MHz] | Reading [dBuV] | ※ A.F.+CL [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|----------------|----------------|----------------|----------------|-------------|------------------|
| 12 ch / 2483.5  | 49.51          | 1.24           | H              | 50.75          | 73.98          | 23.23       | PK               |
| 12 ch / 2483.5  | 39.83          | 1.24           | H              | 41.07          | 53.98          | 12.91       | AV               |
| 13 ch / 2483.5  | 50.69          | 1.24           | H              | 51.93          | 73.98          | 22.05       | PK               |
| 13 ch / 2483.5  | 41.52          | 1.24           | H              | 42.76          | 53.98          | 11.22       | AV               |
| 13 ch / 2483.5  | 46.88          | 1.24           | V              | 48.12          | 73.98          | 25.86       | PK               |
| 13 ch / 2483.5  | 35.54          | 1.24           | V              | 36.78          | 53.98          | 17.20       | AV               |

Operation Mode: 802.11g  
 Transfer Rate: 6 Mbps  
 Operating Frequency: 2412 MHz, 2462 MHz  
 Channel No.: 01 Ch, 11 Ch

| Frequency<br>[MHz] | Reading<br>[dBuV] | Duty<br>Cycle<br>Factor<br>[dB] | ※ A.F.+CL<br>[dB] | ANT. POL<br>[H/V] | Total<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Measurement<br>Type |
|--------------------|-------------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 2390.0             | 67.77             | 0.00                            | 0.56              | H                 | 68.33             | 73.98             | 5.65           | PK                  |
| 2390.0             | 49.59             | 0.00                            | 0.56              | H                 | 50.15             | 53.98             | 3.83           | AV                  |
| 2390.0             | 66.24             | 0.00                            | 0.56              | V                 | 66.80             | 73.98             | 7.18           | PK                  |
| 2390.0             | 47.69             | 0.00                            | 0.56              | V                 | 48.25             | 53.98             | 5.73           | AV                  |
| 2483.5             | 67.36             | 0.00                            | 1.24              | H                 | 68.60             | 73.98             | 5.38           | PK                  |
| 2483.5             | 48.79             | 0.00                            | 1.24              | H                 | 50.03             | 53.98             | 3.95           | AV                  |
| 2483.5             | 65.51             | 0.00                            | 1.24              | V                 | 66.75             | 73.98             | 7.23           | PK                  |
| 2483.5             | 47.22             | 0.00                            | 1.24              | V                 | 48.46             | 53.98             | 5.52           | AV                  |

Operation Mode: 802.11g  
 Transfer Rate: 6 Mbps  
 Operating Frequency: 2467 MHz, 2472 MHz  
 Channel No.: 12 Ch, 13 Ch

| Frequency<br>[MHz] | Reading<br>[dBuV] | Duty<br>Cycle<br>Factor<br>[dB] | ※ A.F.+CL<br>[dB] | ANT. POL<br>[H/V] | Total<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Measurement<br>Type |
|--------------------|-------------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 12 ch / 2483.5     | 58.50             | 0.00                            | 1.24              | H                 | 59.74             | 73.98             | 14.24          | PK                  |
| 12 ch / 2483.5     | 42.60             | 0.00                            | 1.24              | H                 | 43.84             | 53.98             | 10.14          | AV                  |
| 13 ch / 2483.5     | 54.08             | 0.00                            | 1.24              | H                 | 55.32             | 73.98             | 18.66          | PK                  |
| 13 ch / 2483.5     | 40.42             | 0.00                            | 1.24              | H                 | 41.66             | 53.98             | 12.32          | AV                  |
| 13 ch / 2483.5     | 46.14             | 0.00                            | 1.24              | V                 | 47.38             | 73.98             | 26.60          | PK                  |
| 13 ch / 2483.5     | 35.28             | 0.00                            | 1.24              | V                 | 36.52             | 53.98             | 17.46          | AV                  |

Operation Mode: 802.11n (HT20)  
 Transfer Rate: 0  
 Operating Frequency: 2412 MHz, 2462 MHz  
 Channel No.: 01 Ch, 11 Ch

| Frequency<br>[MHz] | Reading<br>[dBuV] | Duty<br>Cycle<br>Factor<br>[dB] | ※ A.F.+CL<br>[dB] | ANT. POL<br>[H/V] | Total<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Measurement<br>Type |
|--------------------|-------------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 2390.0             | 68.38             | 0.00                            | 0.56              | H                 | 68.94             | 73.98             | 5.04           | PK                  |
| 2390.0             | 49.31             | 0.00                            | 0.56              | H                 | 49.87             | 53.98             | 4.11           | AV                  |
| 2390.0             | 62.64             | 0.00                            | 0.56              | V                 | 63.20             | 73.98             | 10.78          | PK                  |
| 2390.0             | 45.22             | 0.00                            | 0.56              | V                 | 45.78             | 53.98             | 8.20           | AV                  |
| 2483.5             | 62.06             | 0.00                            | 1.24              | H                 | 63.30             | 73.98             | 10.68          | PK                  |
| 2483.5             | 45.36             | 0.00                            | 1.24              | H                 | 46.60             | 53.98             | 7.38           | AV                  |
| 2483.5             | 61.42             | 0.00                            | 1.24              | V                 | 62.66             | 73.98             | 11.32          | PK                  |
| 2483.5             | 43.59             | 0.00                            | 1.24              | V                 | 44.83             | 53.98             | 9.15           | AV                  |

Operation Mode: 802.11n (HT20)  
 Transfer Rate: 0  
 Operating Frequency: 2467 MHz, 2472 MHz  
 Channel No.: 12 Ch, 13 Ch

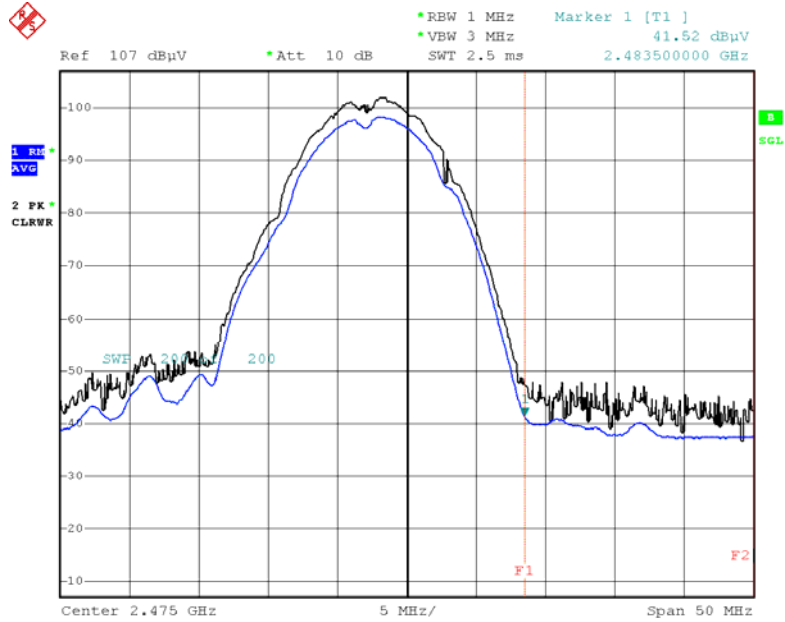
| Frequency<br>[MHz] | Reading<br>[dBuV] | Duty<br>Cycle<br>Factor<br>[dB] | ※ A.F.+CL<br>[dB] | ANT. POL<br>[H/V] | Total<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Measurement<br>Type |
|--------------------|-------------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 12 ch / 2483.5     | 59.26             | 0.00                            | 1.24              | H                 | 60.50             | 73.98             | 13.48          | PK                  |
| 12 ch / 2483.5     | 43.74             | 0.00                            | 1.24              | H                 | 44.98             | 53.98             | 9.00           | AV                  |
| 13 ch / 2483.5     | 58.10             | 0.00                            | 1.24              | H                 | 59.34             | 73.98             | 14.64          | PK                  |
| 13 ch / 2483.5     | 44.62             | 0.00                            | 1.24              | H                 | 45.86             | 53.98             | 8.12           | AV                  |
| 13 ch / 2483.5     | 46.91             | 0.00                            | 1.24              | V                 | 48.15             | 73.98             | 25.83          | PK                  |
| 13 ch / 2483.5     | 35.88             | 0.00                            | 1.24              | V                 | 37.12             | 53.98             | 16.86          | AV                  |

Operation Mode: 802.11n (HT40)  
 Transfer Rate: 0  
 Operating Frequency: 2422 MHz, 2452 MHz  
 Channel No.: 03 Ch, 09 Ch

| Frequency<br>[MHz] | Reading<br>[dBuV] | Duty<br>Cycle<br>Factor<br>[dB] | ※ A.F.+CL<br>[dB] | ANT. POL<br>[H/V] | Total<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Measurement<br>Type |
|--------------------|-------------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 2390.0             | 66.07             | 0.00                            | 0.56              | H                 | 66.63             | 73.98             | 7.35           | PK                  |
| 2390.0             | 50.05             | 0.00                            | 0.56              | H                 | 50.61             | 53.98             | 3.37           | AV                  |
| 2390.0             | 65.22             | 0.00                            | 0.56              | V                 | 65.78             | 73.98             | 8.20           | PK                  |
| 2390.0             | 49.64             | 0.00                            | 0.56              | V                 | 50.20             | 53.98             | 3.78           | AV                  |
| 2483.5             | 64.80             | 0.00                            | 1.24              | H                 | 66.04             | 73.98             | 7.94           | PK                  |
| 2483.5             | 49.14             | 0.00                            | 1.24              | H                 | 50.38             | 53.98             | 3.60           | AV                  |
| 2483.5             | 62.99             | 0.00                            | 1.24              | V                 | 64.23             | 73.98             | 9.75           | PK                  |
| 2483.5             | 46.21             | 0.00                            | 1.24              | V                 | 47.45             | 53.98             | 6.53           | AV                  |

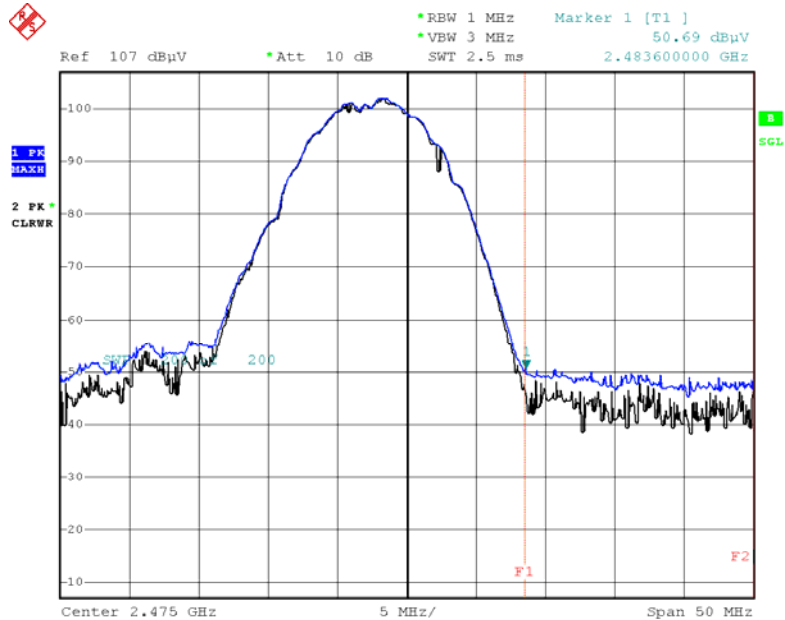
▣ Test Plots

Radiated Restricted Band Edges plot – Average Reading (802.11b Ch.13)



Date: 28.MAY.2020 13:07:48

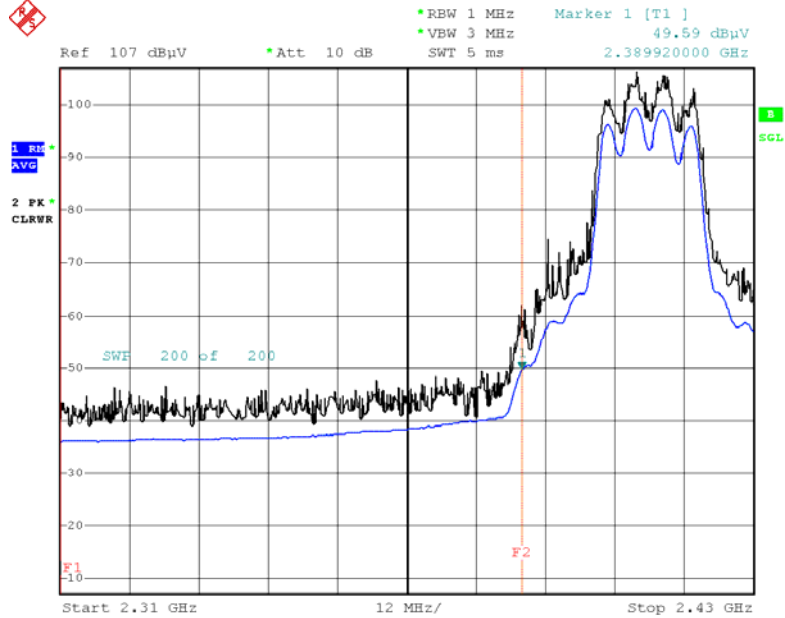
Radiated Restricted Band Edges plot – Peak Reading (802.11b Ch.13)



Date: 28.MAY.2020 13:08:00

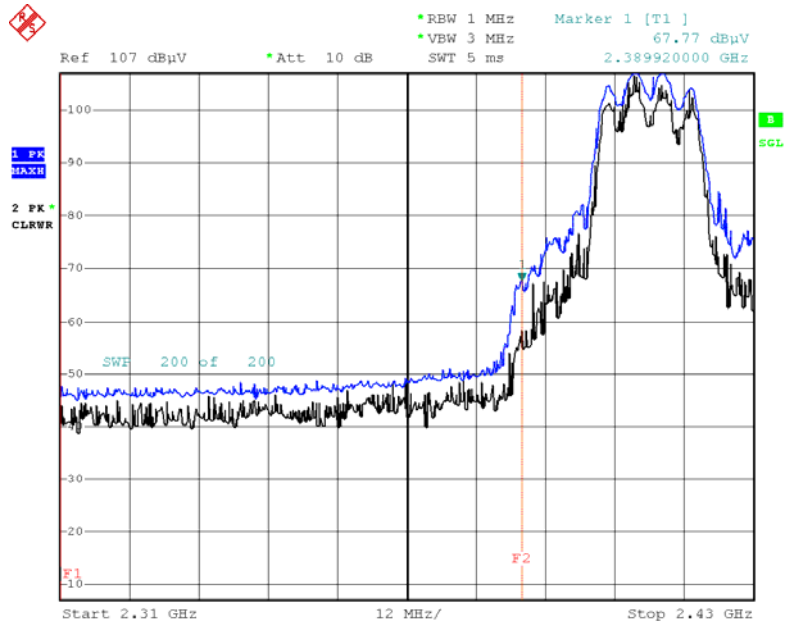


### Radiated Restricted Band Edges plot – Average Reading (802.11g Ch.1)



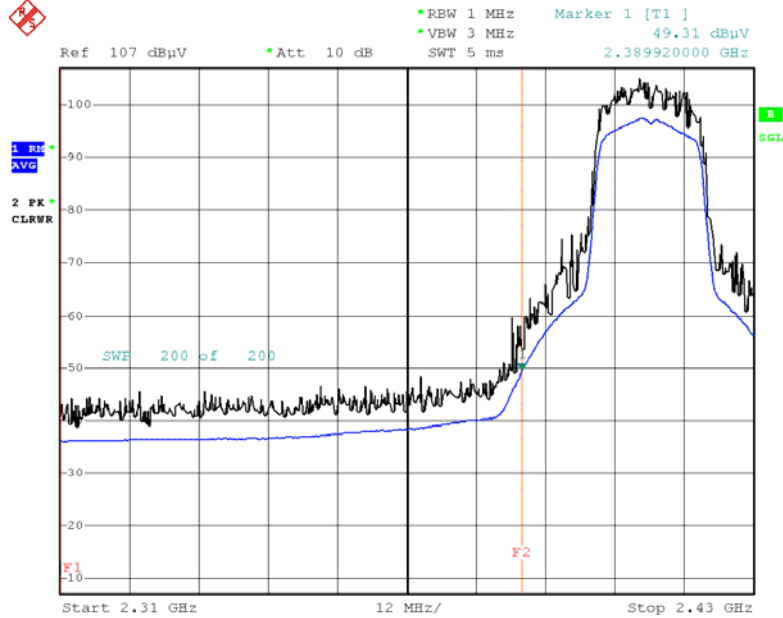
Date: 28.MAY.2020 10:48:49

### Radiated Restricted Band Edges plot – Peak Reading (802.11g Ch.1)



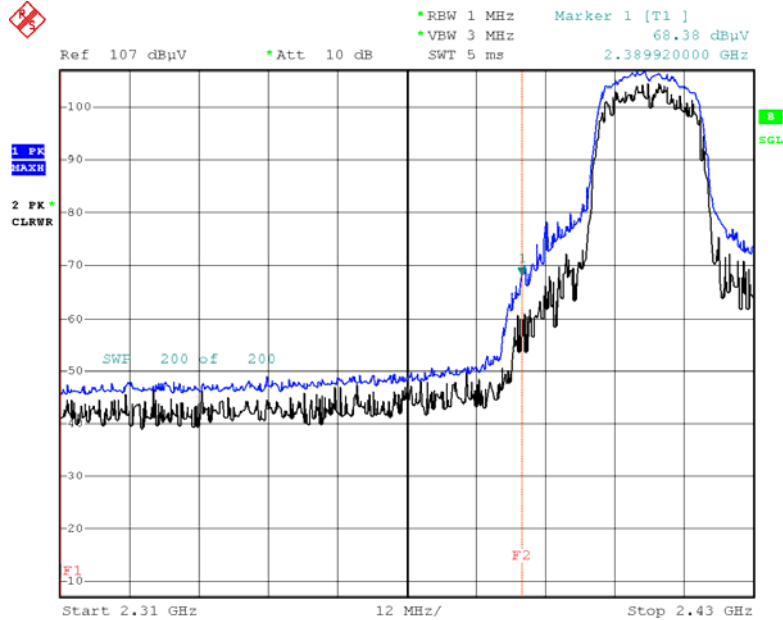
Date: 28.MAY.2020 10:49:06

### Radiated Restricted Band Edges plot – Average Reading (802.11n(HT20), Ch.1)



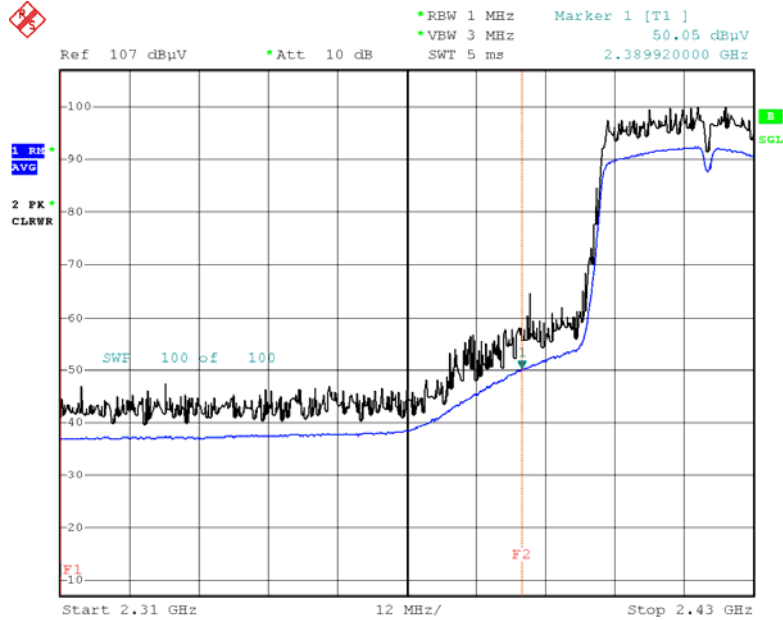
Date: 28.MAY.2020 11:37:57

### Radiated Restricted Band Edges plot – Peak Reading (802.11n(HT20), Ch.1)



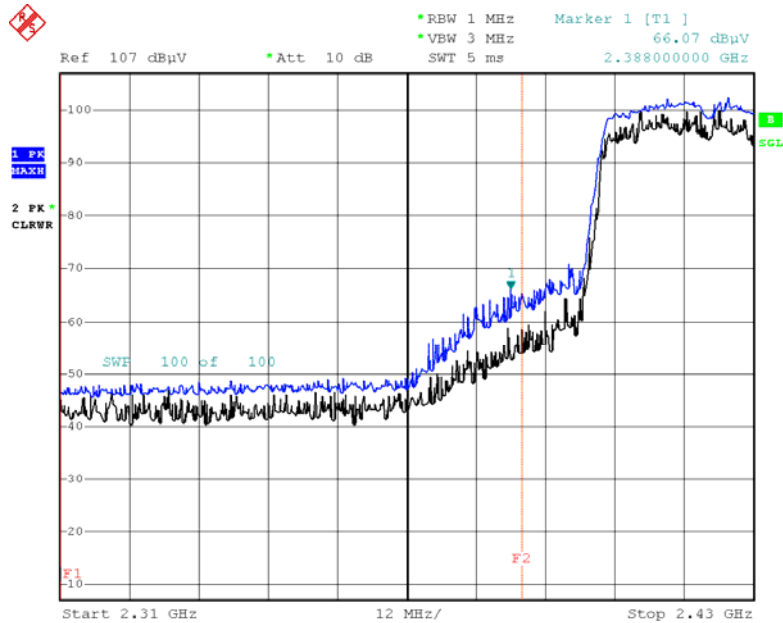
Date: 28.MAY.2020 11:38:18

Radiated Restricted Band Edges plot – Average Reading (802.11n(HT40), Ch.3)



Date: 5.JUN.2020 01:35:50

Radiated Restricted Band Edges plot – Peak Reading (802.11n(HT40), Ch.3)



Date: 5.JUN.2020 01:35:59

**Note:**

Plot of worst case are only reported.

## 9.8 RECEIVER SPURIOUS EMISSIONS

### Frequency Range : Below 1 GHz

| Frequency               | Reading | Ant. factor | Cable loss | Ant. POL | Total  | Limit  | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz                     | dBuV/m  | dBm/m       | dBm        | (H/V)    | dBuV/m | dBuV/m | dB     |
| No Critical peaks found |         |             |            |          |        |        |        |

**Note:**

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

### Frequency Range : Above 1 GHz

| Frequency               | Reading | Ant. factor | Cable loss | Ant. POL | Total  | Limit  | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz                     | dBuV/m  | dBm/m       | dBm        | (H/V)    | dBuV/m | dBuV/m | dB     |
| No Critical peaks found |         |             |            |          |        |        |        |

### 9.9 POWERLINE CONDUCTED EMISSIONS

#### Conducted Emissions (Line 1)

Test

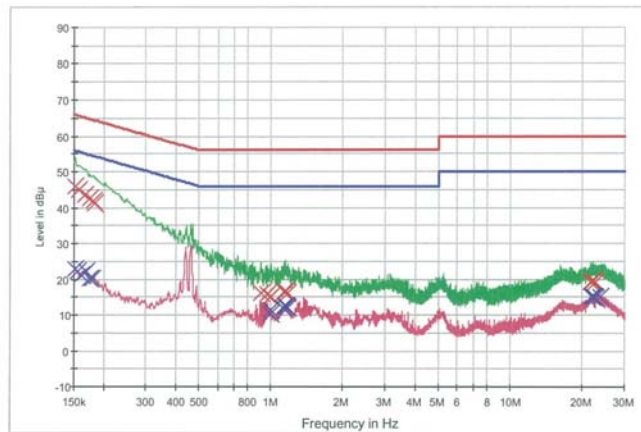
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## HCT TEST Report

### Common Information

EUT: LGSBWAC95  
 Manufacturer: LG  
 Test Site: SHIELD ROOM  
 Operating Conditions: 2.4G\_WLAN\_N

FCC CLASS B



— FCC CLASS B\_OP    —×— FCC CLASS B\_AV    —×— Preview Result 1-PK+  
 Preview Result 2-AVG    Final Result 1-QPK    Final Result 2-CAV

### Final Result 1

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|--------|------|------------|-------------|--------------|
| 0.152000        | 45.9             | 9.000           | On     | N    | 9.7        | 19.9        | 65.9         |
| 0.158000        | 44.8             | 9.000           | On     | N    | 9.7        | 20.7        | 65.6         |
| 0.166000        | 43.5             | 9.000           | On     | N    | 9.7        | 21.6        | 65.2         |
| 0.174000        | 42.6             | 9.000           | On     | N    | 9.7        | 22.2        | 64.8         |
| 0.180000        | 41.8             | 9.000           | On     | N    | 9.7        | 22.7        | 64.5         |
| 0.184000        | 41.3             | 9.000           | On     | N    | 9.7        | 23.0        | 64.3         |
| 0.904000        | 16.3             | 9.000           | On     | N    | 9.7        | 39.7        | 56.0         |
| 0.966000        | 15.9             | 9.000           | On     | N    | 9.7        | 40.1        | 56.0         |
| 1.002000        | 14.9             | 9.000           | On     | N    | 9.7        | 41.1        | 56.0         |
| 1.140000        | 16.3             | 9.000           | On     | N    | 9.7        | 39.7        | 56.0         |
| 1.146000        | 16.5             | 9.000           | On     | N    | 9.7        | 39.5        | 56.0         |
| 1.172000        | 16.1             | 9.000           | On     | N    | 9.7        | 39.9        | 56.0         |
| 21.708000       | 19.1             | 9.000           | On     | N    | 10.0       | 40.9        | 60.0         |
| 21.878000       | 19.4             | 9.000           | On     | N    | 10.0       | 40.6        | 60.0         |
| 21.978000       | 19.5             | 9.000           | On     | N    | 10.0       | 40.5        | 60.0         |
| 22.048000       | 19.5             | 9.000           | On     | N    | 10.0       | 40.5        | 60.0         |
| 22.130000       | 19.6             | 9.000           | On     | N    | 10.0       | 40.4        | 60.0         |
| 22.700000       | 19.1             | 9.000           | On     | N    | 10.0       | 40.9        | 60.0         |

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**Final Result 2**

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.152000        | 22.8            | 9.000           | On     | N    | 9.7        | 33.1        | 55.9         |
| 0.156000        | 22.2            | 9.000           | On     | N    | 9.7        | 33.4        | 55.7         |
| 0.160000        | 21.2            | 9.000           | On     | N    | 9.7        | 34.3        | 55.5         |
| 0.168000        | 22.0            | 9.000           | On     | N    | 9.7        | 33.0        | 55.1         |
| 0.174000        | 20.3            | 9.000           | On     | N    | 9.7        | 34.5        | 54.8         |
| 0.178000        | 20.1            | 9.000           | On     | N    | 9.7        | 34.5        | 54.6         |
| 0.992000        | 11.3            | 9.000           | On     | N    | 9.7        | 34.7        | 46.0         |
| 1.002000        | 10.2            | 9.000           | On     | N    | 9.7        | 35.8        | 46.0         |
| 1.128000        | 12.1            | 9.000           | On     | N    | 9.7        | 33.9        | 46.0         |
| 1.146000        | 12.3            | 9.000           | On     | N    | 9.7        | 33.7        | 46.0         |
| 1.164000        | 12.2            | 9.000           | On     | N    | 9.7        | 33.8        | 46.0         |
| 1.172000        | 12.0            | 9.000           | On     | N    | 9.7        | 34.0        | 46.0         |
| 21.878000       | 15.0            | 9.000           | On     | N    | 10.0       | 35.0        | 50.0         |
| 22.050000       | 15.1            | 9.000           | On     | N    | 10.0       | 34.9        | 50.0         |
| 22.110000       | 15.2            | 9.000           | On     | N    | 10.0       | 34.8        | 50.0         |
| 22.436000       | 15.0            | 9.000           | On     | N    | 10.0       | 35.0        | 50.0         |
| 22.700000       | 14.9            | 9.000           | On     | N    | 10.0       | 35.1        | 50.0         |
| 23.854000       | 14.9            | 9.000           | On     | N    | 10.0       | 35.1        | 50.0         |

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Conducted Emissions (Line 2)

Test

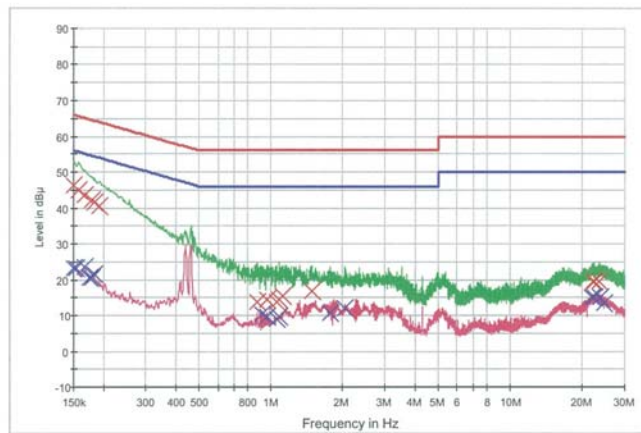
1 / 2

## HCT TEST Report

### Common Information

EUT: LGSBWAC95  
 Manufacturer: LG  
 Test Site: SHIELD ROOM  
 Operating Conditions: 2.4G\_WLAN\_L1

FCC CLASS B



— FCC CLASS B\_QP    — FCC CLASS B\_AV    — Preview Result 1-PK+  
 — Preview Result 2-AVG    x Final Result 1-QPK    x Final Result 2-CAV

### Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 46.2             | 9.000           | On     | L1   | 9.7        | 19.8        | 66.0         |
| 0.158000        | 44.9             | 9.000           | On     | L1   | 9.7        | 20.7        | 65.6         |
| 0.166000        | 43.7             | 9.000           | On     | L1   | 9.7        | 21.5        | 65.2         |
| 0.178000        | 42.1             | 9.000           | On     | L1   | 9.7        | 22.5        | 64.6         |
| 0.184000        | 41.4             | 9.000           | On     | L1   | 9.7        | 22.9        | 64.3         |
| 0.192000        | 40.5             | 9.000           | On     | L1   | 9.7        | 23.4        | 63.9         |
| 0.882000        | 13.9             | 9.000           | On     | L1   | 9.7        | 42.1        | 56.0         |
| 0.968000        | 14.3             | 9.000           | On     | L1   | 9.7        | 41.7        | 56.0         |
| 1.056000        | 13.8             | 9.000           | On     | L1   | 9.7        | 42.2        | 56.0         |
| 1.086000        | 14.4             | 9.000           | On     | L1   | 9.7        | 41.6        | 56.0         |
| 1.128000        | 15.6             | 9.000           | On     | L1   | 9.7        | 40.4        | 56.0         |
| 1.486000        | 16.8             | 9.000           | On     | L1   | 9.8        | 39.2        | 56.0         |
| 22.236000       | 19.5             | 9.000           | On     | L1   | 10.0       | 40.5        | 60.0         |
| 22.284000       | 19.5             | 9.000           | On     | L1   | 10.0       | 40.5        | 60.0         |
| 22.364000       | 19.4             | 9.000           | On     | L1   | 10.0       | 40.6        | 60.0         |
| 22.398000       | 19.5             | 9.000           | On     | L1   | 10.0       | 40.5        | 60.0         |
| 23.452000       | 19.4             | 9.000           | On     | L1   | 10.0       | 40.6        | 60.0         |
| 23.558000       | 19.4             | 9.000           | On     | L1   | 10.0       | 40.6        | 60.0         |

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**Final Result 2**

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 23.1            | 9.000           | On     | L1   | 9.7        | 32.9        | 56.0         |
| 0.154000        | 23.3            | 9.000           | On     | L1   | 9.7        | 32.5        | 55.8         |
| 0.166000        | 23.5            | 9.000           | On     | L1   | 9.7        | 31.6        | 55.2         |
| 0.174000        | 20.7            | 9.000           | On     | L1   | 9.7        | 34.1        | 54.8         |
| 0.178000        | 20.6            | 9.000           | On     | L1   | 9.7        | 34.0        | 54.6         |
| 0.182000        | 21.4            | 9.000           | On     | L1   | 9.7        | 33.0        | 54.4         |
| 0.922000        | 10.3            | 9.000           | On     | L1   | 9.7        | 35.7        | 46.0         |
| 0.968000        | 9.7             | 9.000           | On     | L1   | 9.7        | 36.3        | 46.0         |
| 1.056000        | 9.1             | 9.000           | On     | L1   | 9.7        | 36.9        | 46.0         |
| 1.086000        | 9.7             | 9.000           | On     | L1   | 9.7        | 36.3        | 46.0         |
| 1.772000        | 10.6            | 9.000           | On     | L1   | 9.8        | 35.4        | 46.0         |
| 2.048000        | 12.2            | 9.000           | On     | L1   | 9.8        | 33.8        | 46.0         |
| 21.922000       | 15.2            | 9.000           | On     | L1   | 10.0       | 34.8        | 50.0         |
| 21.978000       | 15.2            | 9.000           | On     | L1   | 10.0       | 34.8        | 50.0         |
| 22.284000       | 15.2            | 9.000           | On     | L1   | 10.0       | 34.8        | 50.0         |
| 23.696000       | 15.1            | 9.000           | On     | L1   | 10.0       | 34.9        | 50.0         |
| 23.856000       | 15.2            | 9.000           | On     | L1   | 10.0       | 34.8        | 50.0         |
| 24.600000       | 13.4            | 9.000           | On     | L1   | 10.0       | 36.6        | 50.0         |

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## 10. LIST OF TEST EQUIPMENT

### Conducted Test

| Manufacturer    | Model / Equipment                            | Calibration Date | Calibration Interval | Serial No. |
|-----------------|--|------------------|----------------------|------------|
| Rohde & Schwarz | ENV216 / LISN                                | 09/11/2019       | Annual               | 102245     |
| Rohde & Schwarz | ESCI / Test Receiver                         | 06/05/2020       | Annual               | 100033     |
| ESPAC           | SU-642 / Temperature Chamber                 | 03/18/2020       | Annual               | 0093008124 |
| Agilent         | N9020A / Signal Analyzer                     | 05/11/2020       | Annual               | MY51110085 |
| Agilent         | N9030A / Signal Analyzer                     | 05/06/2020       | Annual               | MY53310623 |
| Agilent         | N1911A / Power Meter                         | 04/07/2020       | Annual               | MY45101406 |
| Agilent         | N1921A / Power Sensor                        | 03/23/2020       | Annual               | MY55220026 |
| Agilent         | 87300B / Directional Coupler                 | 11/11/2019       | Annual               | 3116A03621 |
| Hewlett Packard | 11667B / Power Splitter                      | 05/25/2020       | Annual               | 05001      |
| Hewlett Packard | E3632A / DC Power Supply                     | 06/12/2020       | Annual               | KR75303960 |
| Weinschel       | 2-20 / Attenuator(20 dB)                     | 07/02/2019       | Annual               | BR0592     |
| Rohde & Schwarz | EMC32 / Software                             | N/A              | N/A                  | N/A        |
| HCT CO., LTD.   | FCC WLAN&BT&BLE Conducted Test Software v3.0 | N/A              | N/A                  | N/A        |
| Rohde & Schwarz | CBT / Bluetooth Tester                       | 05/12/2020       | Annual               | 100422     |

#### Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

**Radiated Test**

| Manufacturer           | Model / Equipment   | Calibration Date | Calibration Interval | Serial No.  |
|------------------------|---|------------------|----------------------|-------------|
| Innco system           | CO3000 / Controller(Antenna mast)   | N/A              | N/A                  | CO3000-4p   |
| Innco system           | MA4640/800-XP-EP / Antenna Position Tower                                 | N/A              | N/A                  | N/A         |
| Emco                   | 2090 / Controller   | N/A              | N/A                  | 060520      |
| Ets                    | Turn Table  | N/A              | N/A                  | N/A         |
| Rohde & Schwarz        | Loop Antenna  | 05/18/2020       | Biennial             | 1513-175    |
| Schwarzbeck            | VULB 9160 / Hybrid Antenna  | 08/09/2018       | Biennial             | 3368        |
| Schwarzbeck            | VULB 9168 / Hybrid Antenna  | 08/31/2018       | Biennial             | 00895       |
| Schwarzbeck            | BBHA 9120D / Horn Antenna   | 11/18/2019       | Biennial             | 9120D-1191  |
| Schwarzbeck            | BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)                                  | 11/29/2019       | Biennial             | BBHA9170541 |
| Rohde & Schwarz        | FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer                                   | 09/11/2019       | Annual               | 836650/016  |
| Rohde & Schwarz        | FSV40-N / Spectrum Analyzer   | 09/26/2019       | Annual               | 101068-SZ   |
| Wainwright Instruments | WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter                   | 01/21/2020       | Annual               | 2           |
| Wainwright Instruments | WRCJV5100/5850-40/50-8EEK / Band Reject Filter                            | 02/10/2020       | Annual               | 1           |
| CERNEX<br>WEINSCHTEL   | CBLU1183540B-01/Broadband Bench Top LNA<br>56-10 / Attenuator(10 dB)      | 12/24/2019       | Annual               | N/A         |
| CERNEX<br>Api tech.    | CBL06185030 / Broadband Low Noise Amplifier<br>18B-03 / Attenuator (3 dB) | 12/24/2019       | Annual               | N/A         |
| Wainwright Instruments | WHKX10-2700-3000-18000-40SS / High Pass Filter                            | 12/24/2019       | Annual               | N/A         |
| Wainwright Instruments | WHKX8-6090-7000-18000-40SS / High Pass Filter                             | 12/24/2019       | Annual               | N/A         |
| T&M SYSTEM             | COAXIAL ATTENUATOR / Thru   | 12/24/2019       | Annual               | N/A         |
| CERNEX                 | CBL18265035 / Power Amplifier   | 12/26/2019       | Annual               | 22966       |
| CERNEX                 | CBL26405040 / Power Amplifier   | 03/23/2020       | Annual               | 25956       |
| TESCOM                 | TC-3000C / Bluetooth Tester   | 03/18/2020       | Annual               | 3000C000276 |

**Note:**

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

### 11. ANNEX A\_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

| No. | Description         |
|-----|---------------------|
| 1   | HCT-RF-2006-FI007-P |