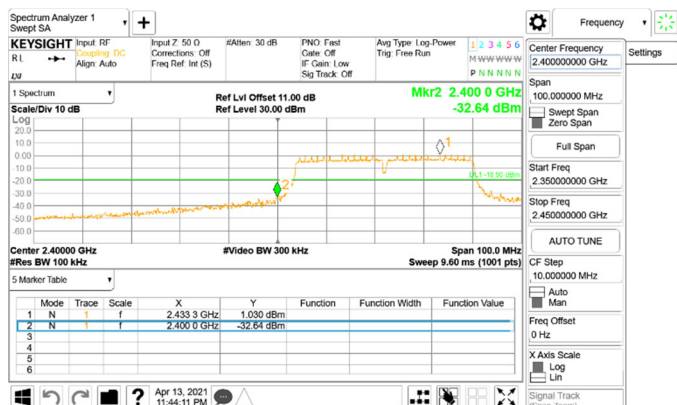
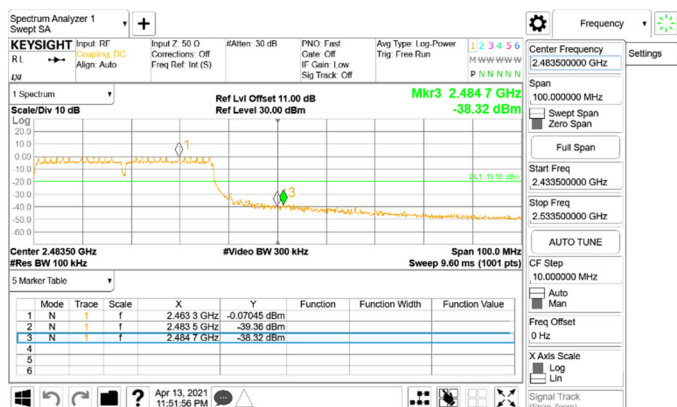


## Bandedge\_802.11n\_40MHz\_Chain0\_2422MHz



## Bandedge\_802.11n\_40MHz\_Chain0\_2452MHz



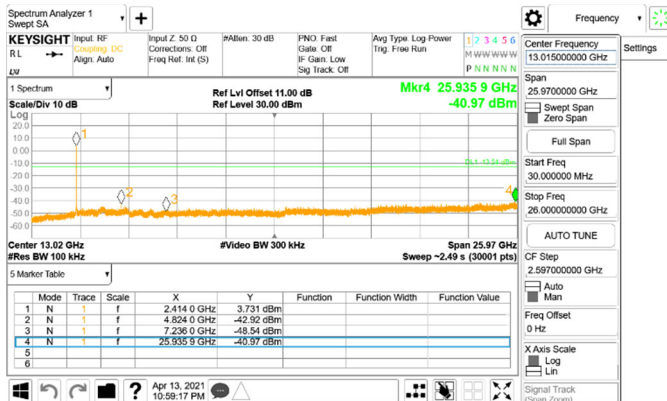
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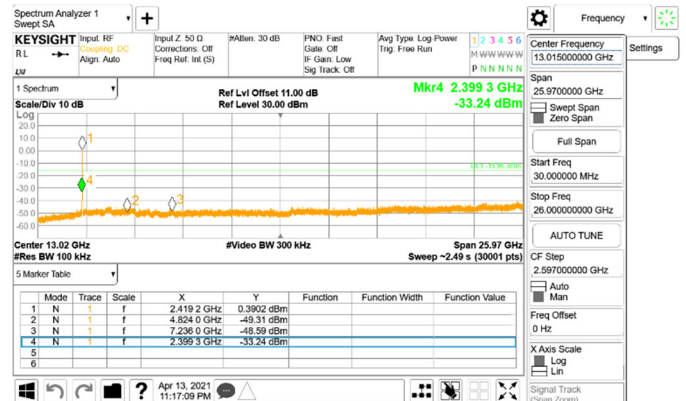
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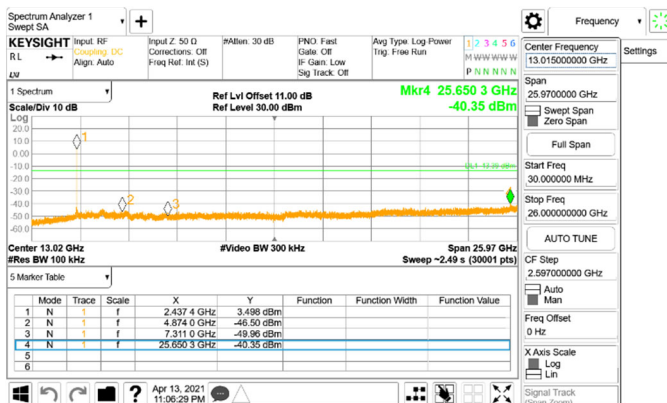
## Spurious Emission\_802.11b\_20MHz\_Chain0\_2412MHz



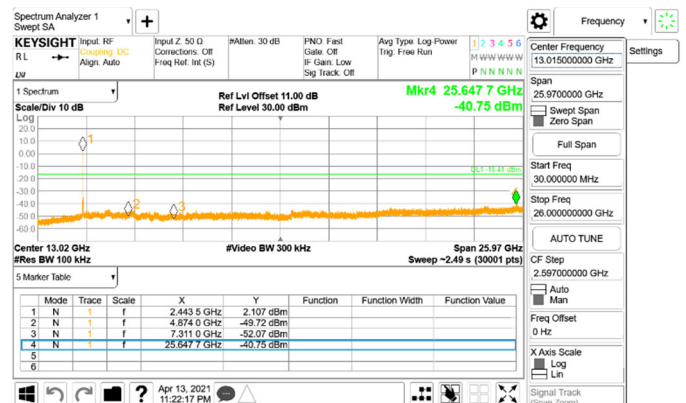
## Spurious Emission\_802.11g\_20MHz\_Chain0\_2412MHz



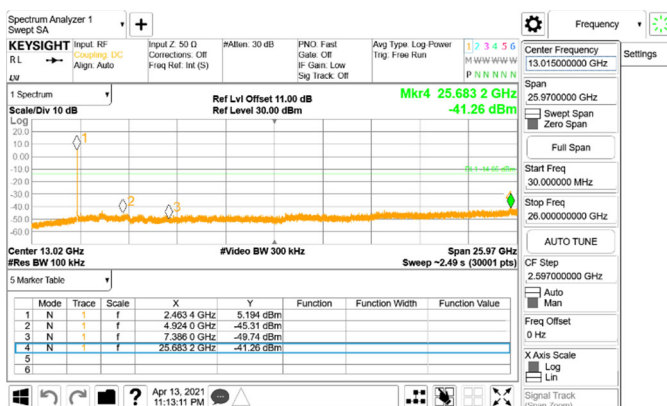
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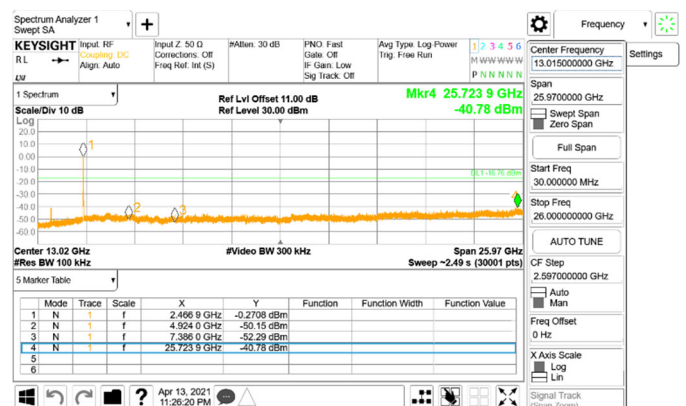
## Spurious Emission\_802.11g\_20MHz\_Chain0\_2437MHz



## Spurious Emission\_802.11b\_20MHz\_Chain0\_2462MHz



## Spurious Emission\_802.11g\_20MHz\_Chain0\_2462MHz



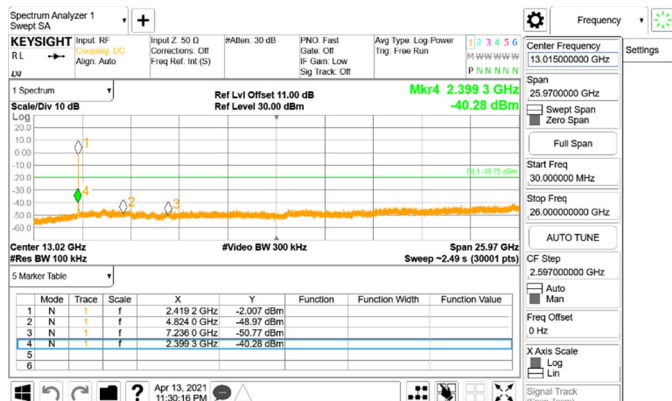
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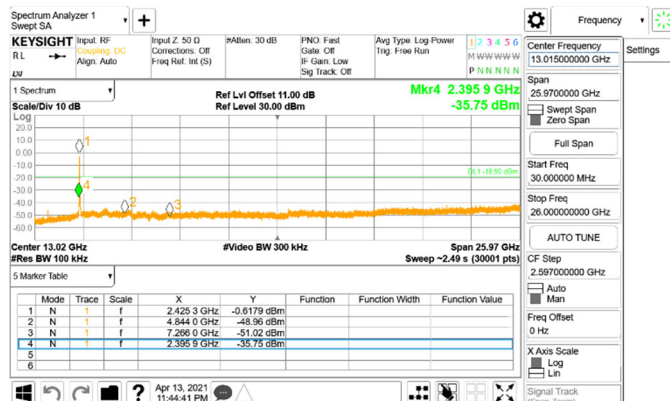
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## Spurious Emission\_802.11n\_20MHz\_Chain0\_2412MHz



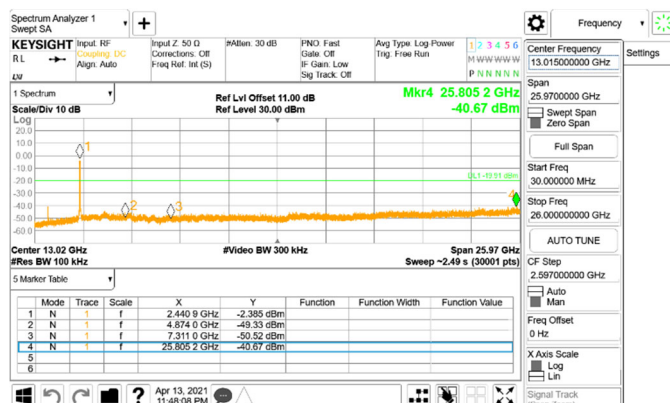
## Spurious Emission\_802.11n\_40MHz\_Chain0\_2422MHz



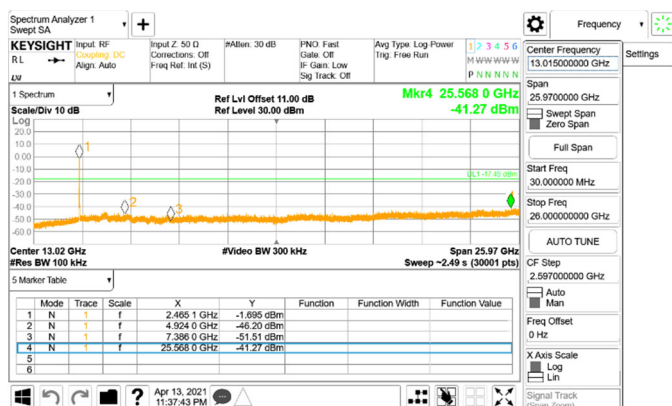
## Spurious Emission\_802.11n\_20MHz\_Chain0\_2437MHz



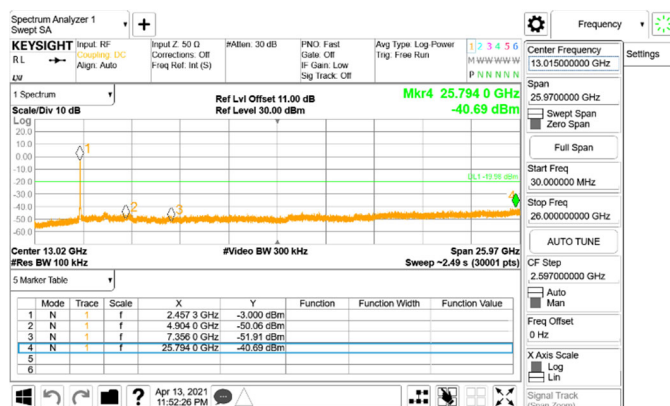
## Spurious Emission\_802.11n\_40MHz\_Chain0\_2437MHz



## Spurious Emission\_802.11n\_20MHz\_Chain0\_2462MHz



## Spurious Emission\_802.11n\_40MHz\_Chain0\_2452MHz



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## 11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 11.1 Standard Applicable

Radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300               |
| 0.490-1.705     | 24000/F(kHz)                      | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m)

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## 11.2 Measurement Equipment Used:

| Radiated Emission Test Site: SAC 3 |                 |                  |                    |            |            |
|------------------------------------|-----------------|------------------|--------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR             | MODEL NUMBER     | SERIAL NUMBER      | LAST CAL.  | CAL DUE.   |
| Horn Antenna                       | Schwarzbeck     | BBHA9170         | 184                | 12/11/2020 | 12/10/2021 |
| Horn Antenna                       | Schwarzbeck     | BBHA9120D        | 1441               | 10/16/2020 | 10/15/2021 |
| Bi-log Antenna                     | SCHWAZBECK      | VULB9168         | 378                | 08/06/2020 | 08/05/2021 |
| Loop Antenna                       | ETS.LIND-GREN   | 6502             | 148045             | 10/19/2020 | 10/18/2021 |
| EXA Spectrum Analyzer              | KEYSIGHT        | N9010B           | MY60240503         | 12/11/2020 | 12/10/2021 |
| EMI Test Receiver                  | R&S             | ESCI 7           | 100759             | 07/13/2020 | 07/12/2021 |
| Pre-Amplifier                      | HP              | 8449B            | 3008A00578         | 12/16/2020 | 12/15/2021 |
| Pre-Amplifier                      | EMC Instruments | EMC184045B       | 980135             | 12/16/2020 | 12/15/2021 |
| Pre-Amplifier                      | HP              | 8447D            | 2944A07676         | 12/16/2020 | 12/15/2021 |
| Attenuator                         | Mini-Circuit    | BW-S10W2+        | 4                  | 12/16/2020 | 12/15/2021 |
| Filter 2400-2483.5 MHz             | EWT             | EWT-14-0166      | M1                 | 12/16/2020 | 12/15/2021 |
| High Pass Filter                   | WI              | WHKX4.0/18G-10SS | 22                 | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102     | MY2636/2           | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 104     | 340057/4           | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 104PEA  | 800052/2           | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102     | MY2621/2           | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102     | MY2617/2           | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102     | MY2630/2           | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102     | MY22962/2          | 12/16/2020 | 12/15/2021 |
| Site Cal                           | SGS             | SAC III chamber  | N/A                | 01/01/2021 | 12/31/2021 |
| Test Software                      | audix           | e3               | Ver. 6.11-20180413 | N.C.R      | N.C.R      |

NOTE: N.C.R refers to Not Calibrated Required.

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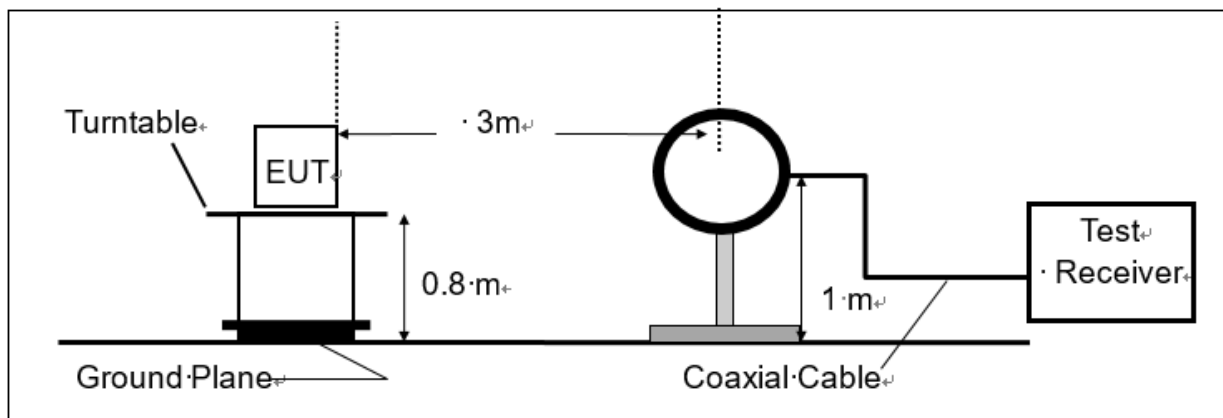
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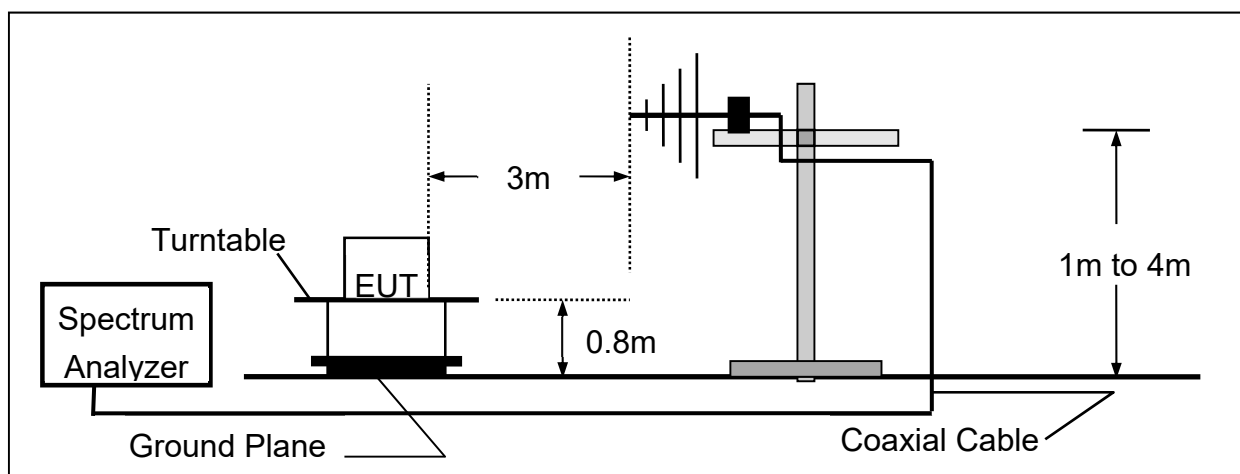
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## 11.3 Test SET-UP

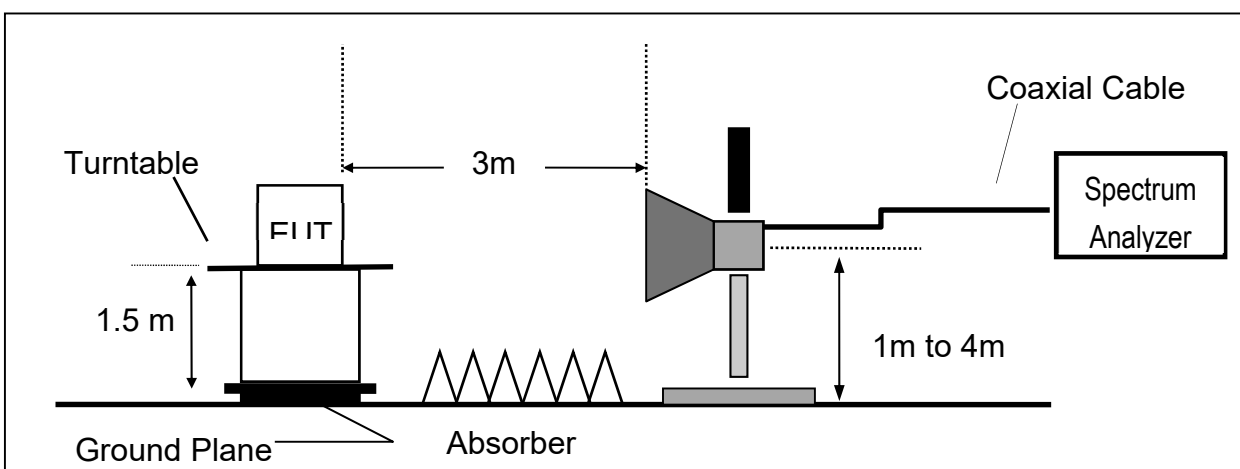
### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



### (B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



### (C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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## 11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

*The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$*

*Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

## 11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

## 11.7 Measurement Result

### Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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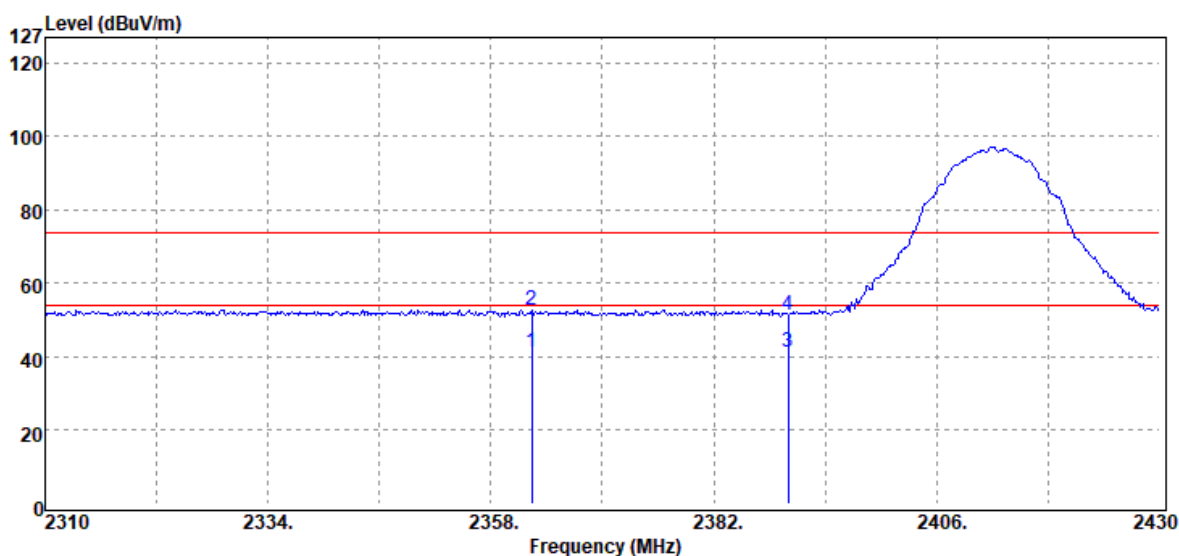
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### 11.7.1 Radiated Band Edge Measurement Result

|                |                  |              |                  |
|----------------|------------------|--------------|------------------|
| Report Number  | :ER-2021-40041   | Test Site    | :SAC III Chamber |
| Operation Mode | :802.11b         | Test Date    | :2021-04-15      |
| Test Frequency | :2412 MHz        | Temp./Humi.  | :22.7/63         |
| Test Mode      | :Bandedge CH Low | Antenna Pol. | :VERTICAL        |
| EUT Pol        | :H Plane         | Engineer     | :Ricky           |



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2362.44 | Average  | 40.57         | 0.83   | 41.40  | 54.00  | -12.60 |
| 2362.44 | Peak     | 52.05         | 0.83   | 52.88  | 74.00  | -21.12 |
| 2390.00 | Average  | 40.63         | 0.76   | 41.39  | 54.00  | -12.61 |
| 2390.00 | Peak     | 50.85         | 0.76   | 51.61  | 74.00  | -22.39 |

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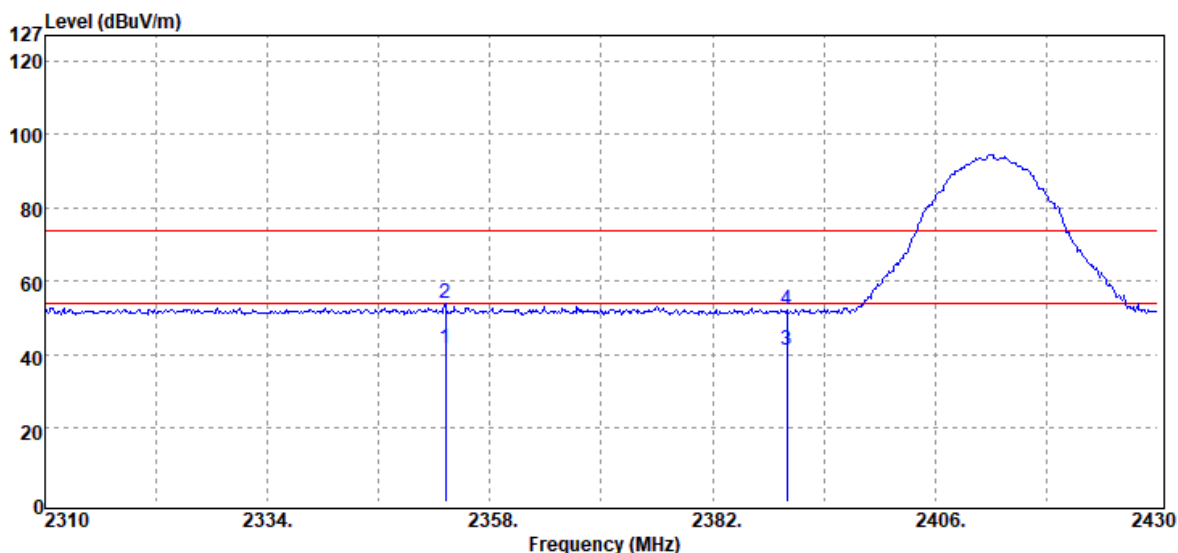
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Report Number :ER-2021-40041  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-15  
 Temp./Humi. :22.7/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2353.20 | Average  | 40.69         | 0.87   | 41.56  | 54.00  | -12.44 |
| 2353.20 | Peak     | 52.97         | 0.87   | 53.84  | 74.00  | -20.16 |
| 2390.00 | Average  | 40.66         | 0.76   | 41.42  | 54.00  | -12.58 |
| 2390.00 | Peak     | 51.74         | 0.76   | 52.50  | 74.00  | -21.50 |

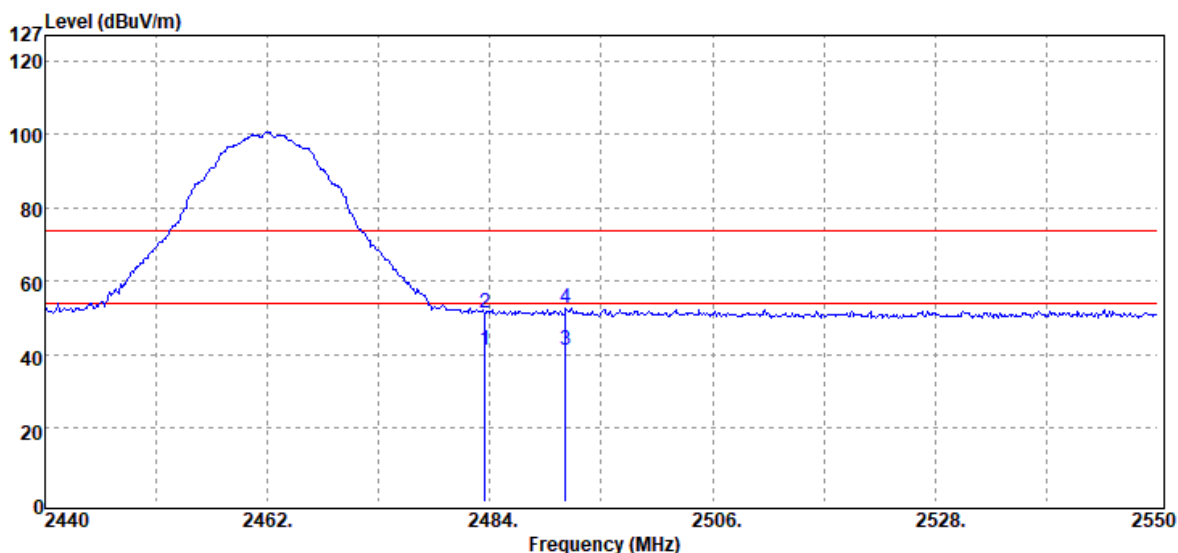
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|                |                   |              |                  |
|----------------|-------------------|--------------|------------------|
| Report Number  | :ER-2021-40041    | Test Site    | :SAC III Chamber |
| Operation Mode | :802.11b          | Test Date    | :2021-04-15      |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :22.7/63         |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :VERTICAL        |
| EUT Pol        | :H Plane          | Engineer     | :Ricky           |



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
|         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2483.50 | Average  | 40.76         | 0.54   | 41.30        | 54.00        | -12.70 |
| 2483.50 | Peak     | 50.83         | 0.54   | 51.37        | 74.00        | -22.63 |
| 2491.48 | Average  | 40.60         | 0.52   | 41.12        | 54.00        | -12.88 |
| 2491.48 | Peak     | 52.34         | 0.52   | 52.86        | 74.00        | -21.14 |

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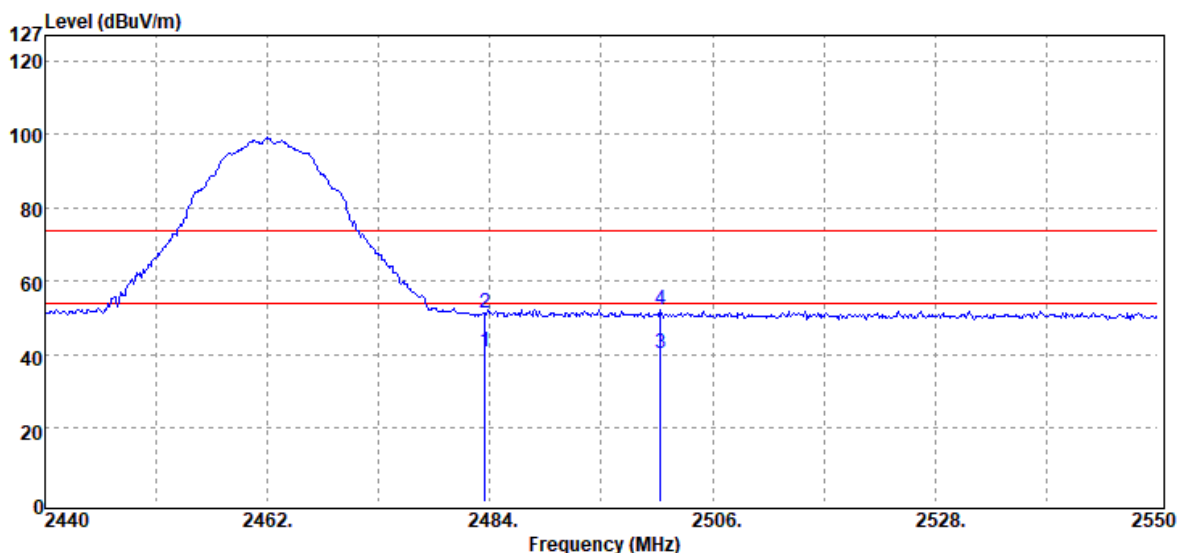
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Report Number :ER-2021-40041  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-15  
 Temp./Humi. :22.7/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| Mode    |          | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2483.50 | Average  | 40.39         | 0.54   | 40.93        | 54.00        | -13.07 |
| 2483.50 | Peak     | 50.78         | 0.54   | 51.32        | 74.00        | -22.68 |
| 2500.83 | Average  | 40.13         | 0.50   | 40.63        | 54.00        | -13.37 |
| 2500.83 | Peak     | 51.79         | 0.50   | 52.29        | 74.00        | -21.71 |

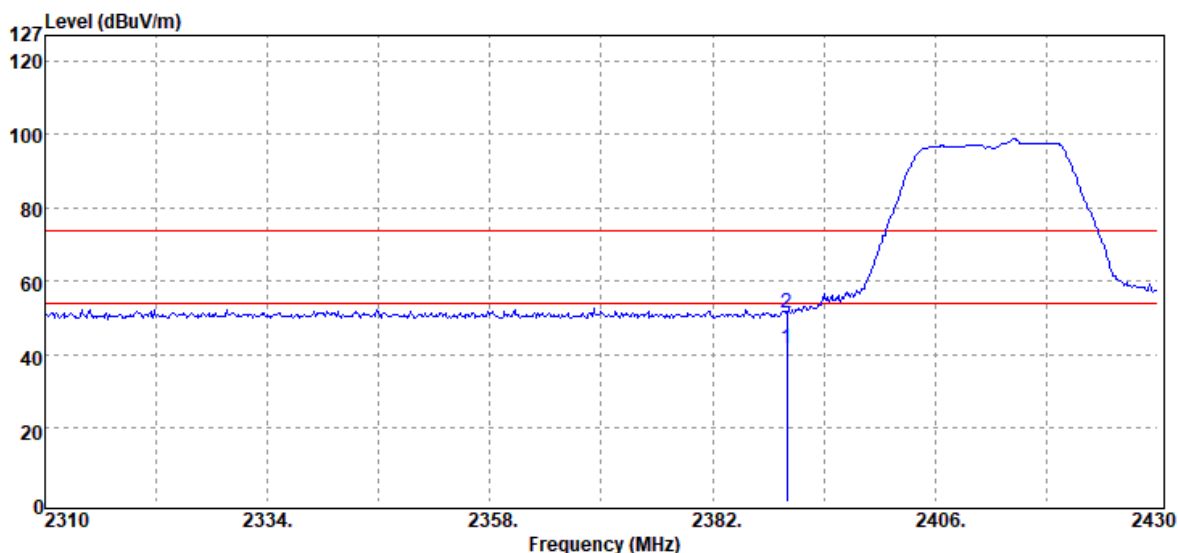
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|                |                  |              |                  |
|----------------|------------------|--------------|------------------|
| Report Number  | :ER-2021-40041   | Test Site    | :SAC III Chamber |
| Operation Mode | :802.11g         | Test Date    | :2021-04-15      |
| Test Frequency | :2412 MHz        | Temp./Humi.  | :22.7/63         |
| Test Mode      | :Bandedge CH Low | Antenna Pol. | :VERTICAL        |
| EUT Pol        | :H Plane         | Engineer     | :Ricky           |



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2390.00 | Average  | 40.92         | 0.76   | 41.68        | 54.00        | -12.32 |
| 2390.00 | Peak     | 50.69         | 0.76   | 51.45        | 74.00        | -22.55 |

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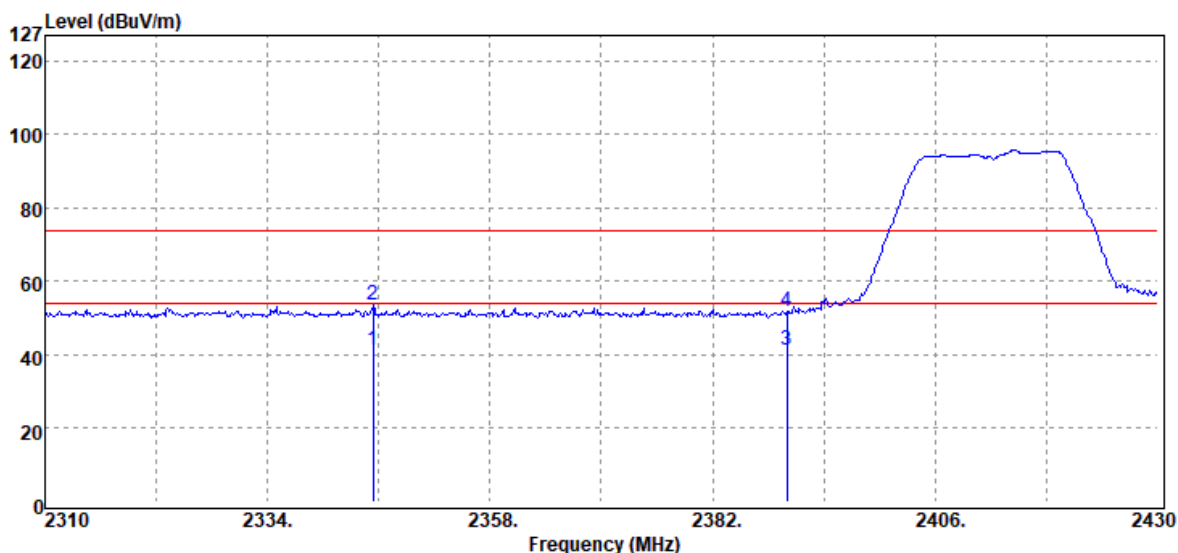
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-15  
 Temp./Humi. :22.7/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2345.40 | Average  | 40.51         | 0.86   | 41.37  | 54.00  | -12.63 |
| 2345.40 | Peak     | 52.62         | 0.86   | 53.48  | 74.00  | -20.52 |
| 2390.00 | Average  | 40.69         | 0.76   | 41.45  | 54.00  | -12.55 |
| 2390.00 | Peak     | 50.91         | 0.76   | 51.67  | 74.00  | -22.33 |

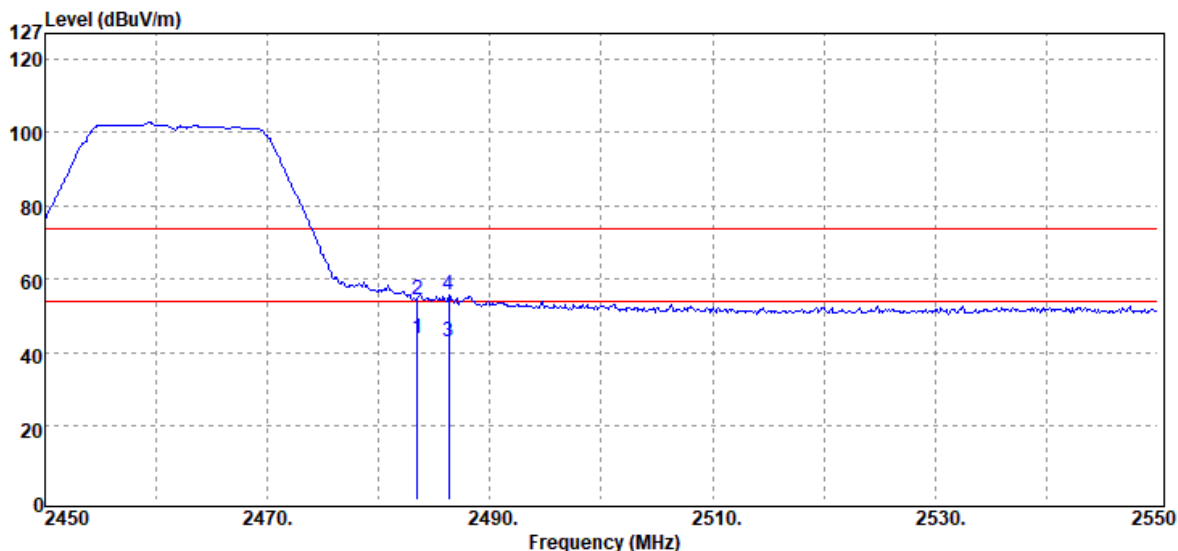
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|                |                   |              |                  |
|----------------|-------------------|--------------|------------------|
| Report Number  | :ER-2021-40041    | Test Site    | :SAC III Chamber |
| Operation Mode | :802.11g          | Test Date    | :2021-04-15      |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :22.7/63         |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :VERTICAL        |
| EUT Pol        | :H Plane          | Engineer     | :Ricky           |



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| Mode    | Mode     | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2483.50 | Average  | 43.49         | 0.54   | 44.03        | 54.00        | -9.97  |
| 2483.50 | Peak     | 54.12         | 0.54   | 54.66        | 74.00        | -19.34 |
| 2486.30 | Average  | 42.66         | 0.54   | 43.20        | 54.00        | -10.80 |
| 2486.30 | Peak     | 55.39         | 0.54   | 55.93        | 74.00        | -18.07 |

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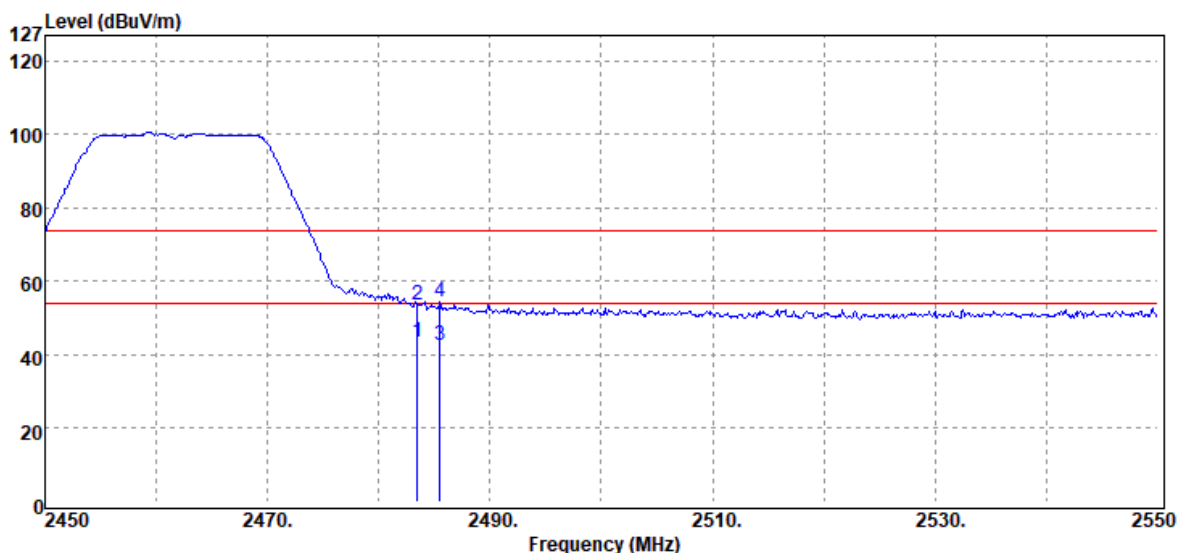
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-15  
 Temp./Humi. :22.7/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2483.50 | Average  | 42.87         | 0.54   | 43.41  | 54.00  | -10.59 |
| 2483.50 | Peak     | 53.27         | 0.54   | 53.81  | 74.00  | -20.19 |
| 2485.50 | Average  | 42.27         | 0.54   | 42.81  | 54.00  | -11.19 |
| 2485.50 | Peak     | 53.83         | 0.54   | 54.37  | 74.00  | -19.63 |

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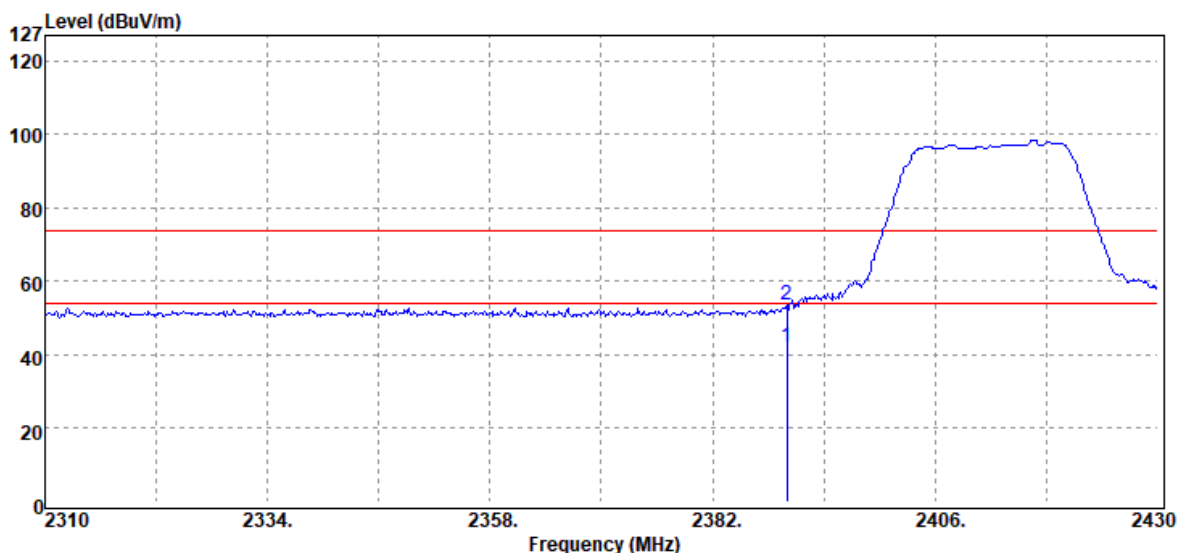
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Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-15  
 Temp./Humi. :22.7/63  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| Mode    |          | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2390.00 | Average  | 41.39         | 0.76   | 42.15        | 54.00        | -11.85 |
| 2390.00 | Peak     | 52.74         | 0.76   | 53.50        | 74.00        | -20.50 |

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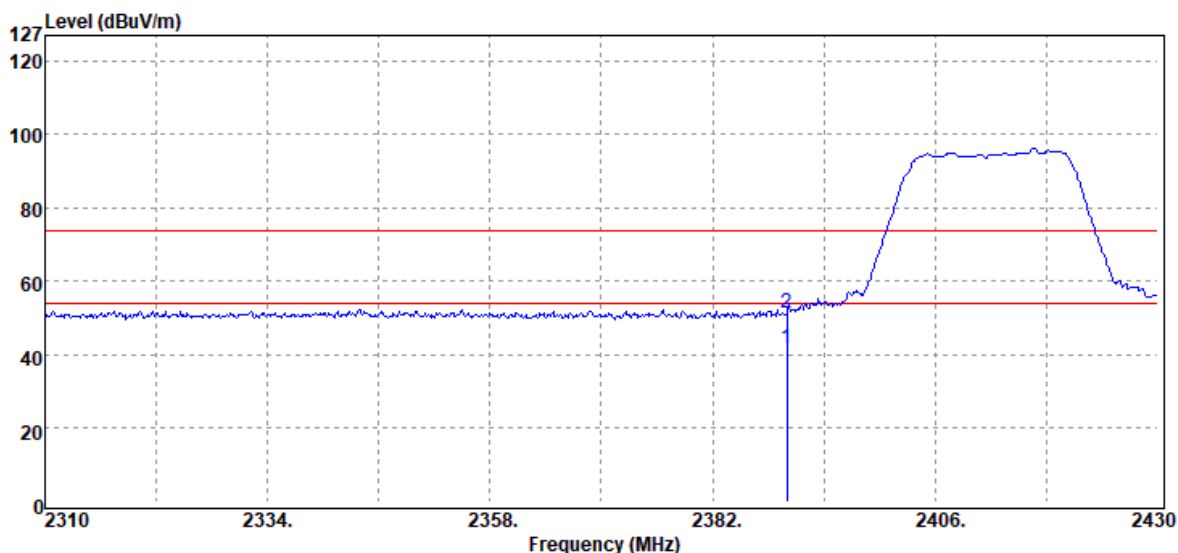
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Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-15  
 Temp./Humi. :22.7/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
|         | Mode     | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2390.00 | Average  | 40.93         | 0.76   | 41.69        | 54.00        | -12.31 |
| 2390.00 | Peak     | 50.61         | 0.76   | 51.37        | 74.00        | -22.63 |

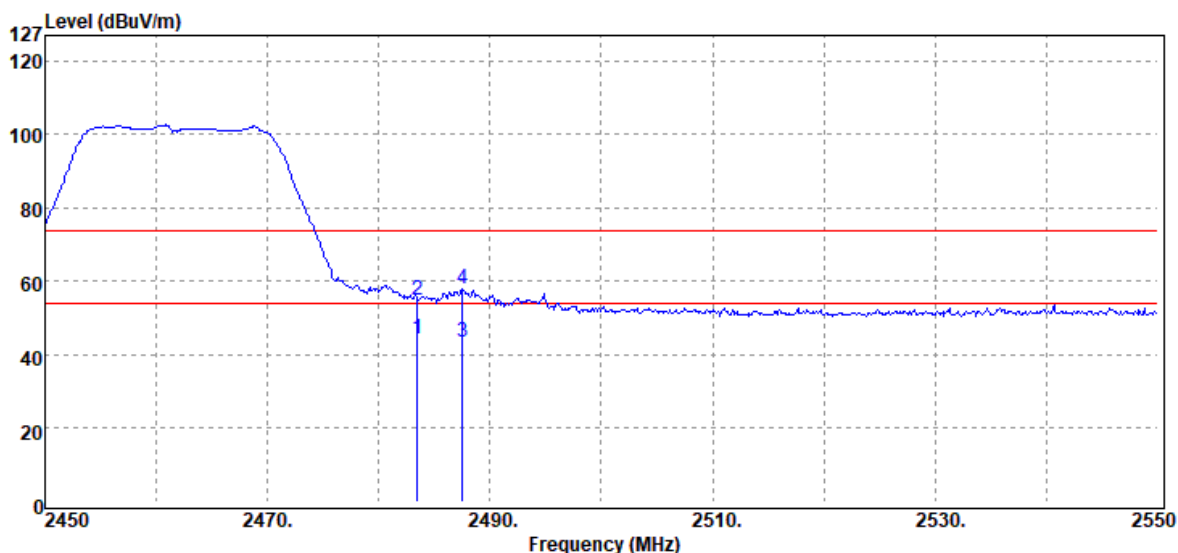
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|                |                   |              |                  |
|----------------|-------------------|--------------|------------------|
| Report Number  | :ER-2021-40041    | Test Site    | :SAC III Chamber |
| Operation Mode | :802.11n20        | Test Date    | :2021-04-15      |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :22.7/63         |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :VERTICAL        |
| EUT Pol        | :H Plane          | Engineer     | :Ricky           |



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
|         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2483.50 | Average  | 43.93         | 0.54   | 44.47        | 54.00        | -9.53  |
| 2483.50 | Peak     | 54.30         | 0.54   | 54.84        | 74.00        | -19.16 |
| 2487.50 | Average  | 42.76         | 0.53   | 43.29        | 54.00        | -10.71 |
| 2487.50 | Peak     | 57.61         | 0.53   | 58.14        | 74.00        | -15.86 |

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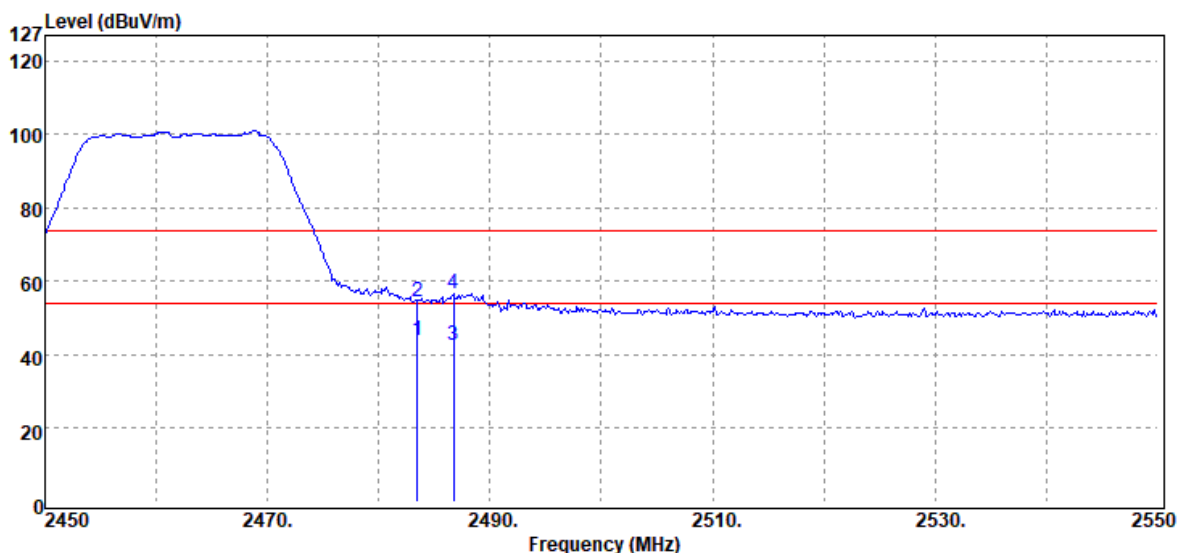
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Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-15  
 Temp./Humi. :22.7/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2483.50 | Average  | 43.59         | 0.54   | 44.13  | 54.00  | -9.87  |
| 2483.50 | Peak     | 54.14         | 0.54   | 54.68  | 74.00  | -19.32 |
| 2486.70 | Average  | 42.21         | 0.54   | 42.75  | 54.00  | -11.25 |
| 2486.70 | Peak     | 56.06         | 0.54   | 56.60  | 74.00  | -17.40 |

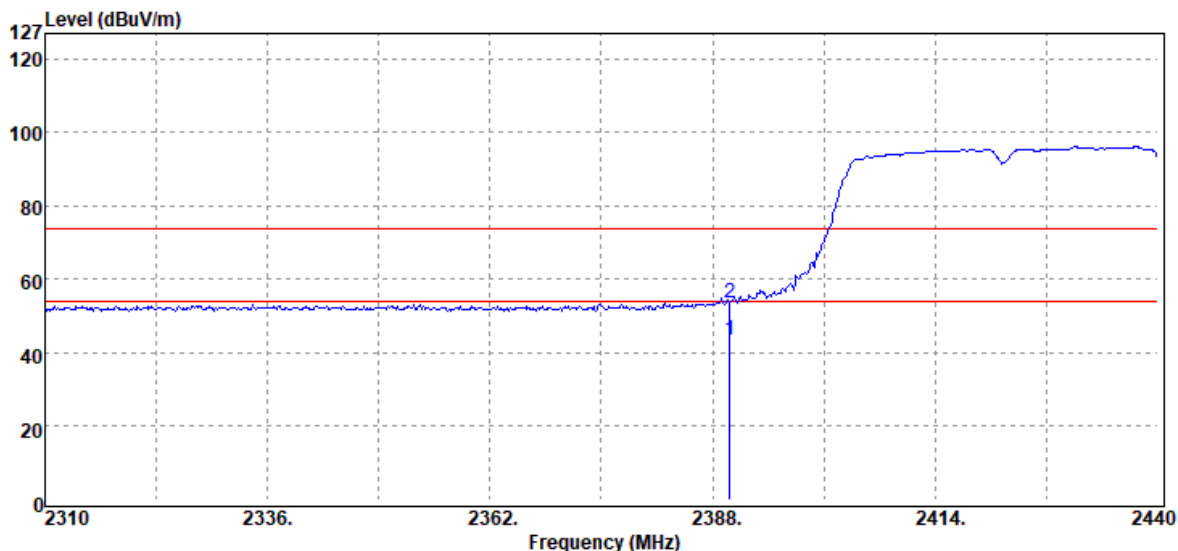
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|                |                  |              |                  |
|----------------|------------------|--------------|------------------|
| Report Number  | :ER-2021-40041   | Test Site    | :SAC III Chamber |
| Operation Mode | :802.11n40       | Test Date    | :2021-04-15      |
| Test Frequency | :2422 MHz        | Temp./Humi.  | :22.7/63         |
| Test Mode      | :Bandedge CH Low | Antenna Pol. | :VERTICAL        |
| EUT Pol        | :H Plane         | Engineer     | :Ricky           |



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
|         | Mode     | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2390.00 | Average  | 42.65         | 0.76   | 43.41        | 54.00        | -10.59 |
| 2390.00 | Peak     | 52.79         | 0.76   | 53.55        | 74.00        | -20.45 |

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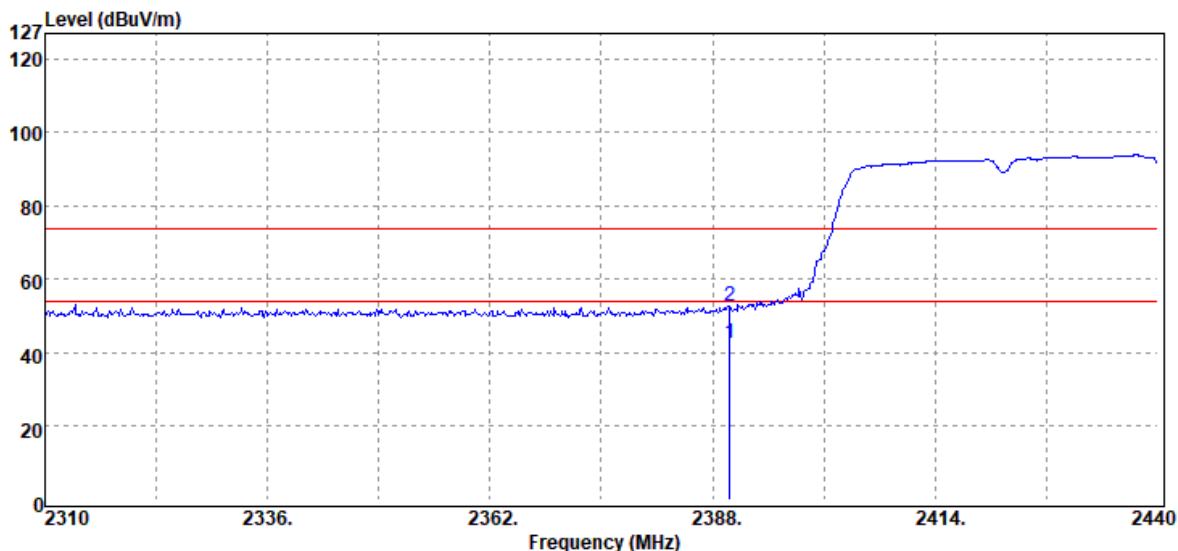
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Report Number :ER-2021-40041  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-15  
 Temp./Humi. :22.7/63  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| Mode    |          | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2390.00 | Average  | 41.72         | 0.76   | 42.48        | 54.00        | -11.52 |
| 2390.00 | Peak     | 51.76         | 0.76   | 52.52        | 74.00        | -21.48 |

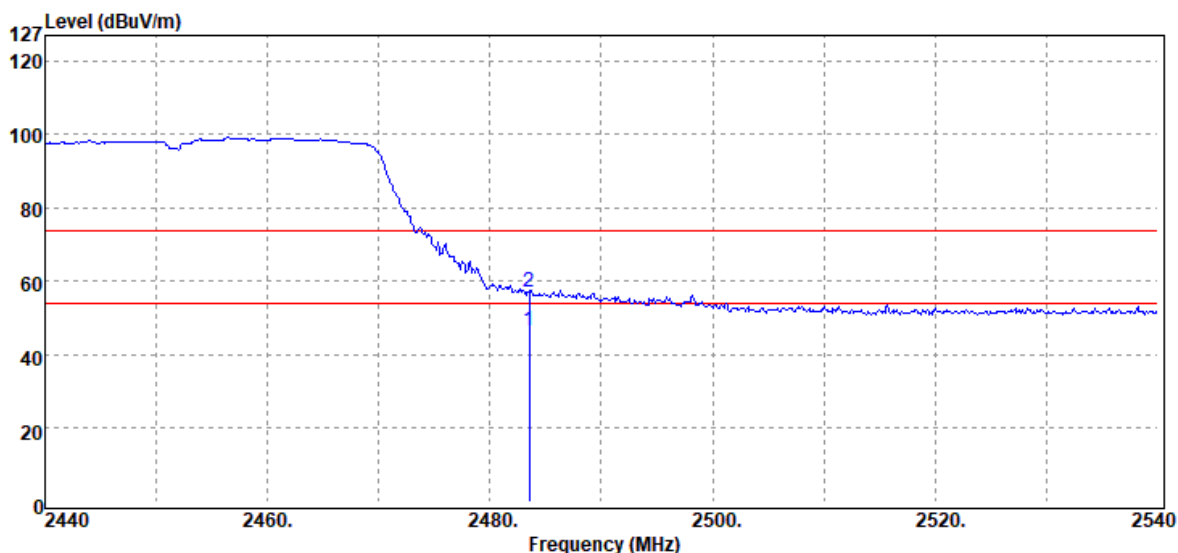
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|                |                   |              |                  |
|----------------|-------------------|--------------|------------------|
| Report Number  | :ER-2021-40041    | Test Site    | :SAC III Chamber |
| Operation Mode | :802.11n40        | Test Date    | :2021-04-15      |
| Test Frequency | :2452 MHz         | Temp./Humi.  | :22.7/63         |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :VERTICAL        |
| EUT Pol        | :H Plane          | Engineer     | :Ricky           |



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
|         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2483.50 | Average  | 46.19         | 0.54   | 46.73        | 54.00        | -7.27  |
| 2483.50 | Peak     | 56.79         | 0.54   | 57.33        | 74.00        | -16.67 |

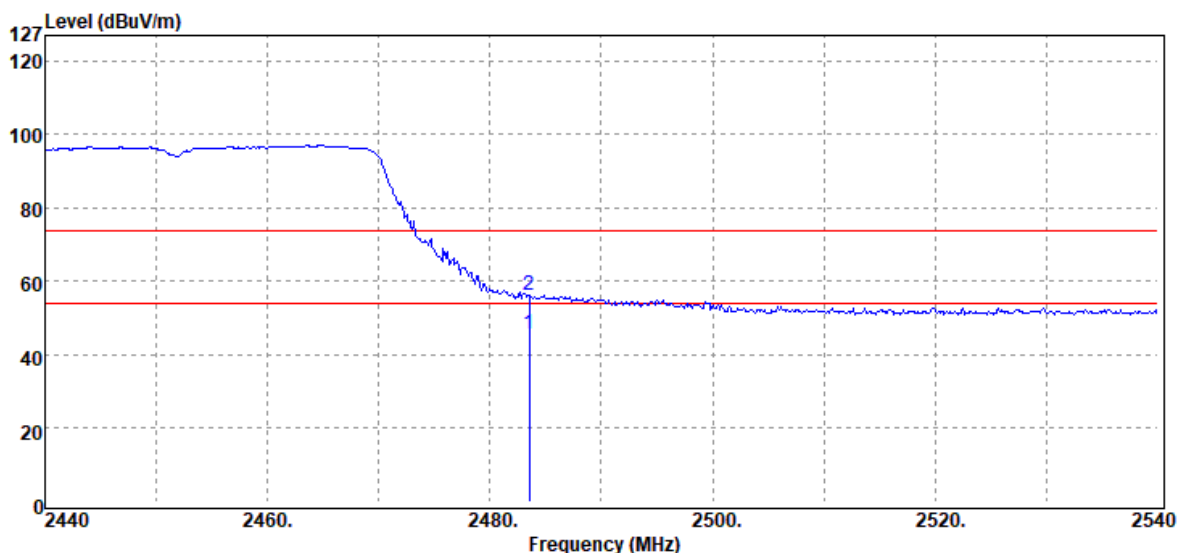
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|                |                   |              |                  |
|----------------|-------------------|--------------|------------------|
| Report Number  | :ER-2021-40041    | Test Site    | :SAC III Chamber |
| Operation Mode | :802.11n40        | Test Date    | :2021-04-15      |
| Test Frequency | :2452 MHz         | Temp./Humi.  | :22.7/63         |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :HORIZONTAL      |
| EUT Pol        | :H Plane          | Engineer     | :Ricky           |



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
|         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 2483.50 | Average  | 45.22         | 0.54   | 45.76        | 54.00        | -8.24  |
| 2483.50 | Peak     | 55.78         | 0.54   | 56.32        | 74.00        | -17.68 |

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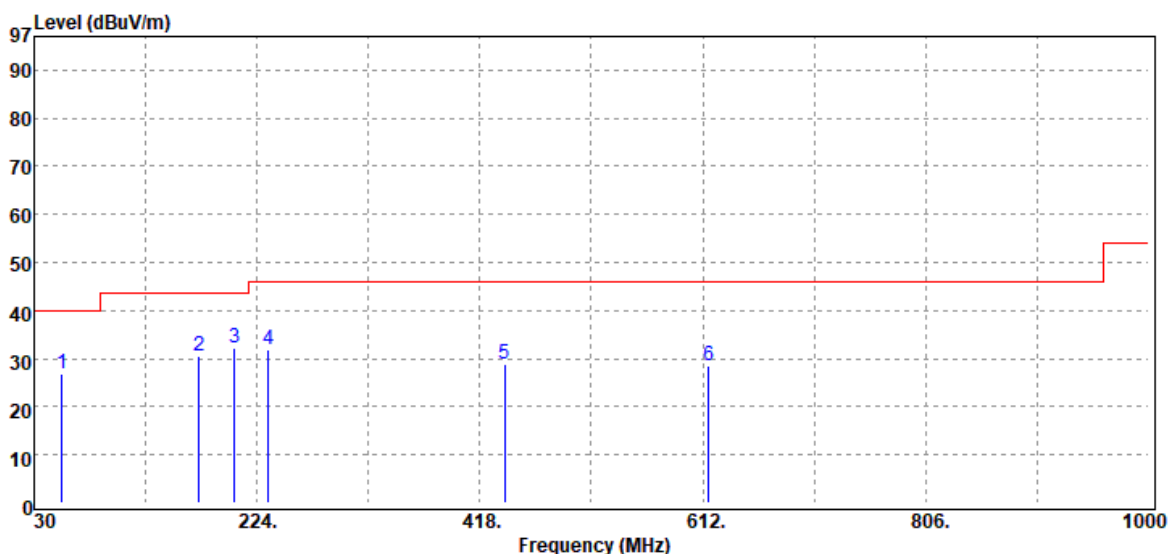
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### 11.7.2 Below 1GHz Worst-Case Emission:

Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 54.25        | Peak                         | 35.83                             | -9.03        | 26.80                  | 40.00                  | -13.20       |
| 173.56       | Peak                         | 39.15                             | -8.61        | 30.54                  | 43.50                  | -12.96       |
| 204.60       | Peak                         | 43.07                             | -10.83       | 32.24                  | 43.50                  | -11.26       |
| 233.70       | Peak                         | 41.31                             | -9.42        | 31.89                  | 46.00                  | -14.11       |
| 439.34       | Peak                         | 32.26                             | -3.47        | 28.79                  | 46.00                  | -17.21       |
| 616.85       | Peak                         | 28.58                             | -0.13        | 28.45                  | 46.00                  | -17.55       |

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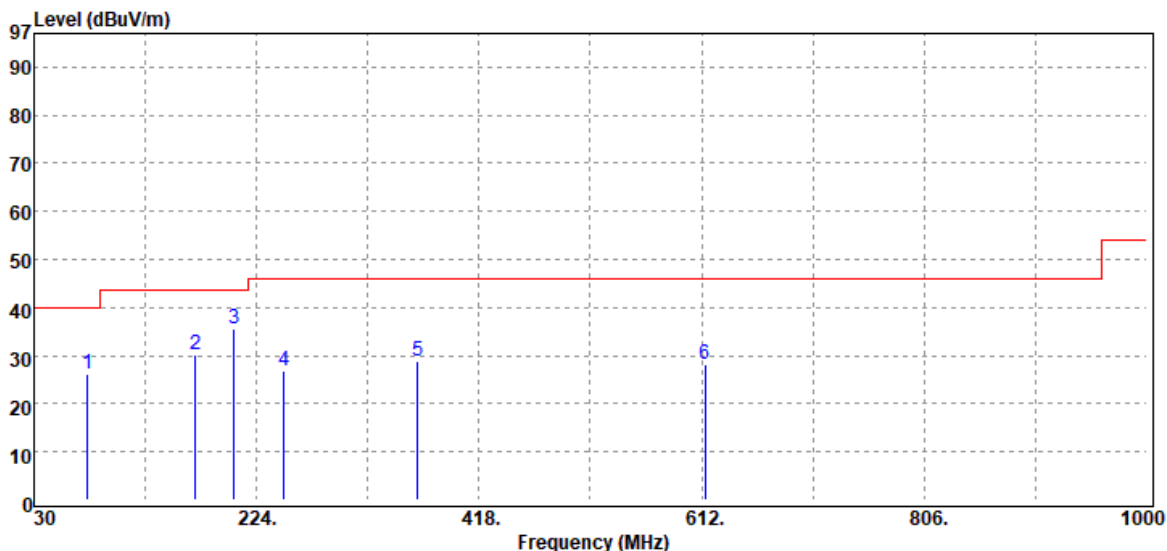
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.  | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|--------|----------|---------------|--------|--------|--------|--------|
| MHz    | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz    | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 76.56  | Peak     | 38.01         | -11.79 | 26.22  | 40.00  | -13.78 |
| 170.65 | Peak     | 38.60         | -8.42  | 30.18  | 43.50  | -13.32 |
| 204.60 | Peak     | 46.33         | -10.83 | 35.50  | 43.50  | -8.00  |
| 248.25 | Peak     | 35.65         | -8.86  | 26.79  | 46.00  | -19.21 |
| 364.65 | Peak     | 34.50         | -5.47  | 29.03  | 46.00  | -16.97 |
| 614.91 | Peak     | 28.30         | -0.05  | 28.25  | 46.00  | -17.75 |

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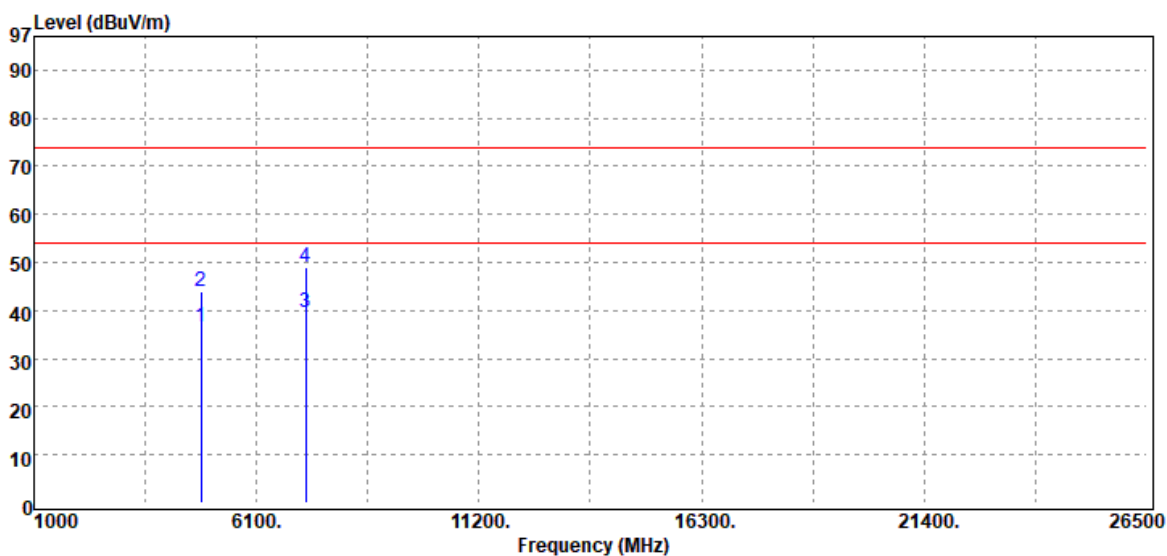
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### 11.7.3 Above 1GHz Emission:

Report Number :ER-2021-40041  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4824.00 | Average  | 29.18         | 7.38   | 36.56  | 54.00  | -17.44 |
| 4824.00 | Peak     | 36.47         | 7.38   | 43.85  | 74.00  | -30.15 |
| 7236.00 | Average  | 25.31         | 14.35  | 39.66  | 54.00  | -14.34 |
| 7236.00 | Peak     | 34.63         | 14.35  | 48.98  | 74.00  | -25.02 |

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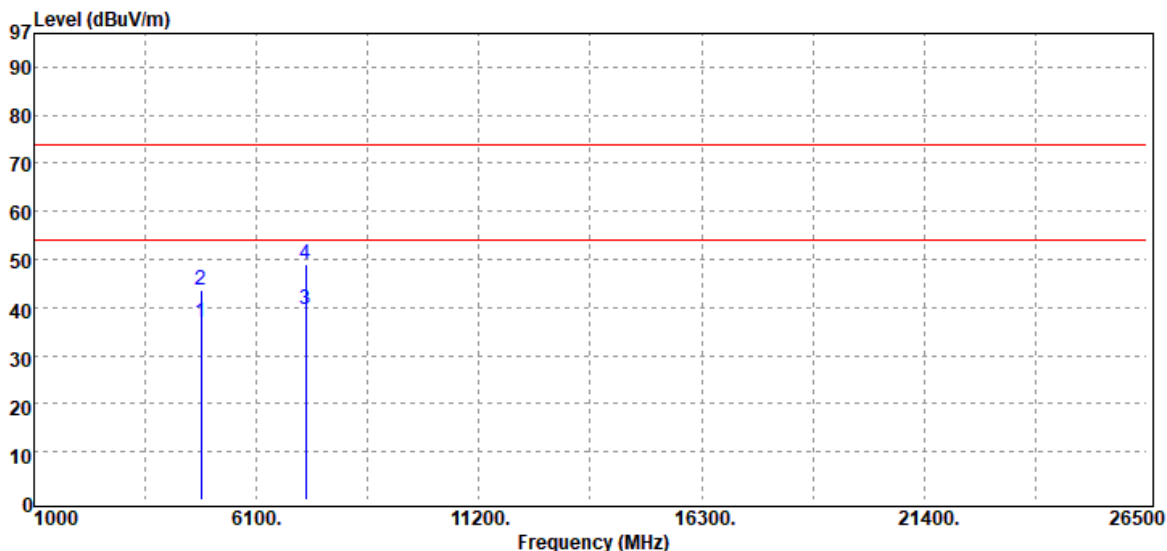
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Report Number :ER-2021-40041  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4824.00 | Average  | 29.41         | 7.38   | 36.79  | 54.00  | -17.21 |
| 4824.00 | Peak     | 36.19         | 7.38   | 43.57  | 74.00  | -30.43 |
| 7236.00 | Average  | 25.36         | 14.35  | 39.71  | 54.00  | -14.29 |
| 7236.00 | Peak     | 34.64         | 14.35  | 48.99  | 74.00  | -25.01 |

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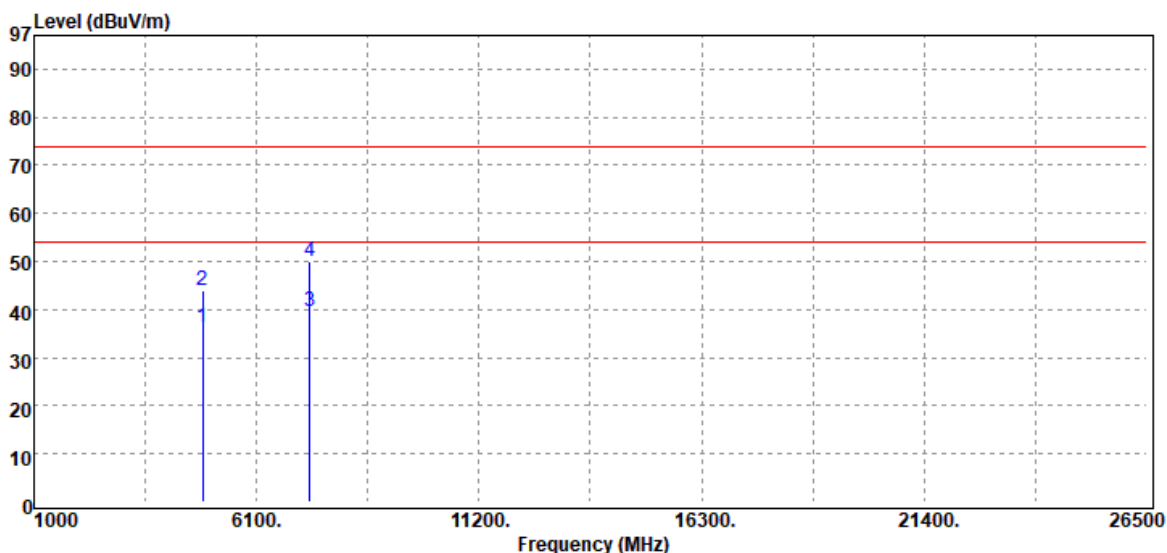
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Report Number :ER-2021-40041  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4874.00 | Average  | 29.09         | 7.09   | 36.18  | 54.00  | -17.82 |
| 4874.00 | Peak     | 36.79         | 7.09   | 43.88  | 74.00  | -30.12 |
| 7311.00 | Average  | 25.13         | 14.63  | 39.76  | 54.00  | -14.24 |
| 7311.00 | Peak     | 35.29         | 14.63  | 49.92  | 74.00  | -24.08 |

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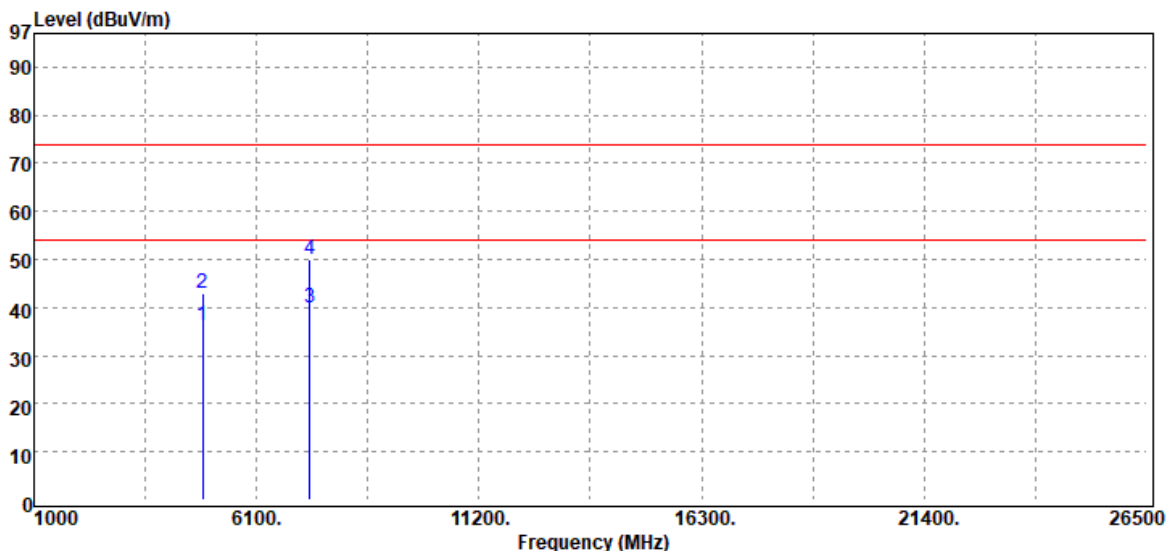
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Report Number :ER-2021-40041  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4874.00 | Average  | 29.13         | 7.09   | 36.22  | 54.00  | -17.78 |
| 4874.00 | Peak     | 35.93         | 7.09   | 43.02  | 74.00  | -30.98 |
| 7311.00 | Average  | 25.15         | 14.63  | 39.78  | 54.00  | -14.22 |
| 7311.00 | Peak     | 35.45         | 14.63  | 50.08  | 74.00  | -23.92 |

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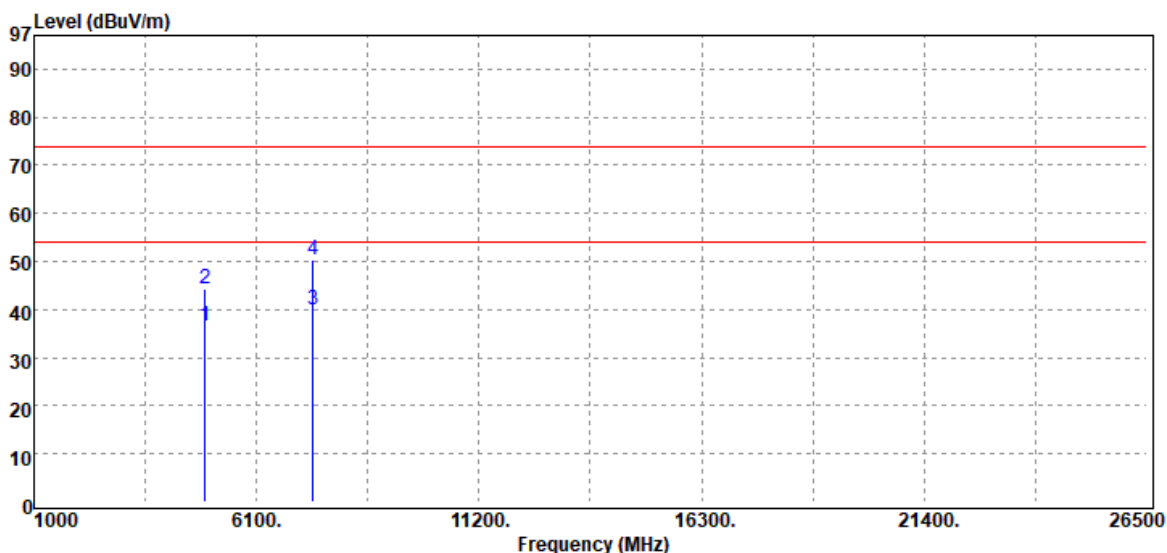
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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路

Report Number :ER-2021-40041  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4924.00 | Average  | 29.45         | 7.06   | 36.51  | 54.00  | -17.49 |
| 4924.00 | Peak     | 37.36         | 7.06   | 44.42  | 74.00  | -29.58 |
| 7386.00 | Average  | 25.46         | 14.43  | 39.89  | 54.00  | -14.11 |
| 7386.00 | Peak     | 35.99         | 14.43  | 50.42  | 74.00  | -23.58 |

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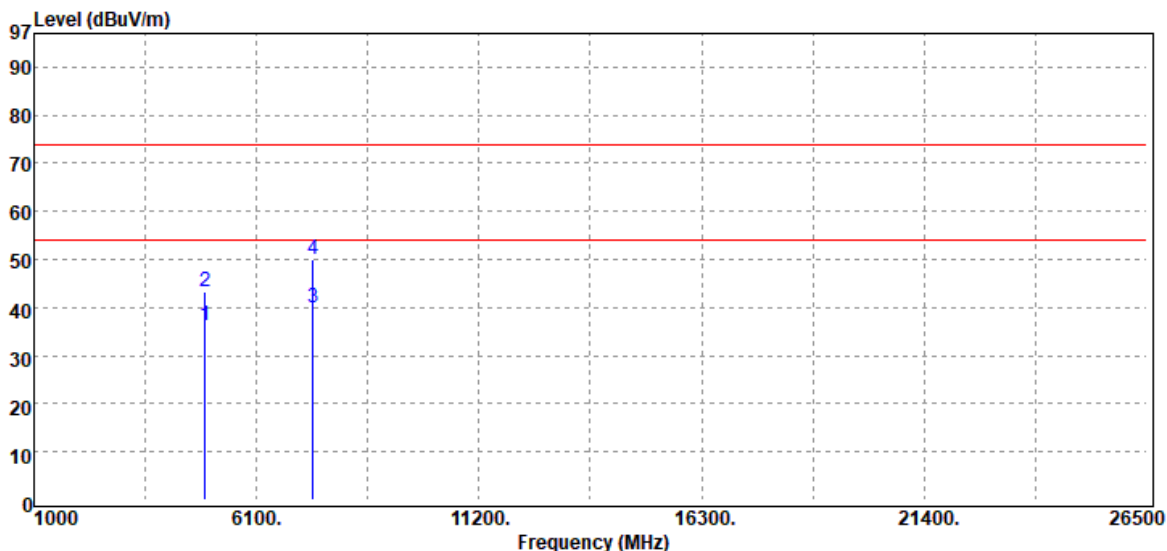
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Report Number :ER-2021-40041  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4924.00 | Average  | 29.07         | 7.06   | 36.13  | 54.00  | -17.87 |
| 4924.00 | Peak     | 36.28         | 7.06   | 43.34  | 74.00  | -30.66 |
| 7386.00 | Average  | 25.56         | 14.43  | 39.99  | 54.00  | -14.01 |
| 7386.00 | Peak     | 35.51         | 14.43  | 49.94  | 74.00  | -24.06 |

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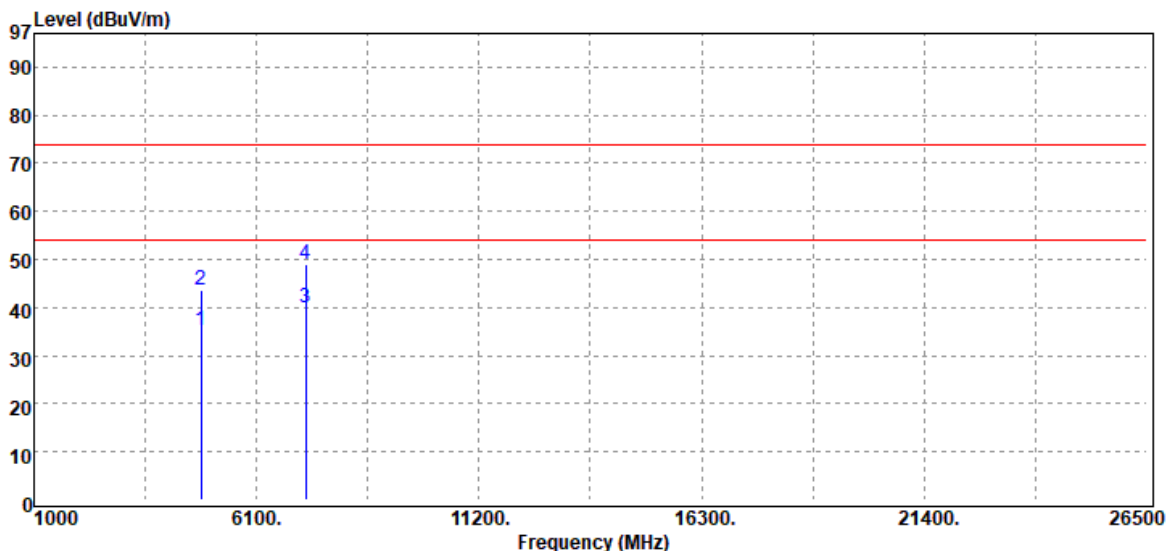
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4824.00 | Average  | 27.79         | 7.38   | 35.17  | 54.00  | -18.83 |
| 4824.00 | Peak     | 36.27         | 7.38   | 43.65  | 74.00  | -30.35 |
| 7236.00 | Average  | 25.72         | 14.35  | 40.07  | 54.00  | -13.93 |
| 7236.00 | Peak     | 34.70         | 14.35  | 49.05  | 74.00  | -24.95 |

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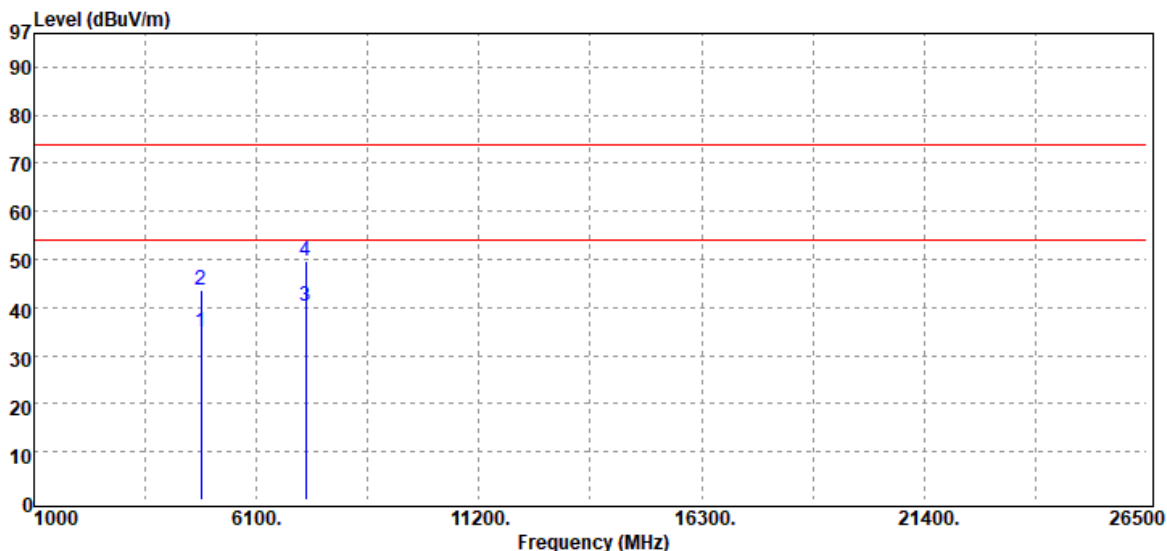
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4824.00 | Average  | 27.39         | 7.38   | 34.77  | 54.00  | -19.23 |
| 4824.00 | Peak     | 36.33         | 7.38   | 43.71  | 74.00  | -30.29 |
| 7236.00 | Average  | 25.85         | 14.35  | 40.20  | 54.00  | -13.80 |
| 7236.00 | Peak     | 35.19         | 14.35  | 49.54  | 74.00  | -24.46 |

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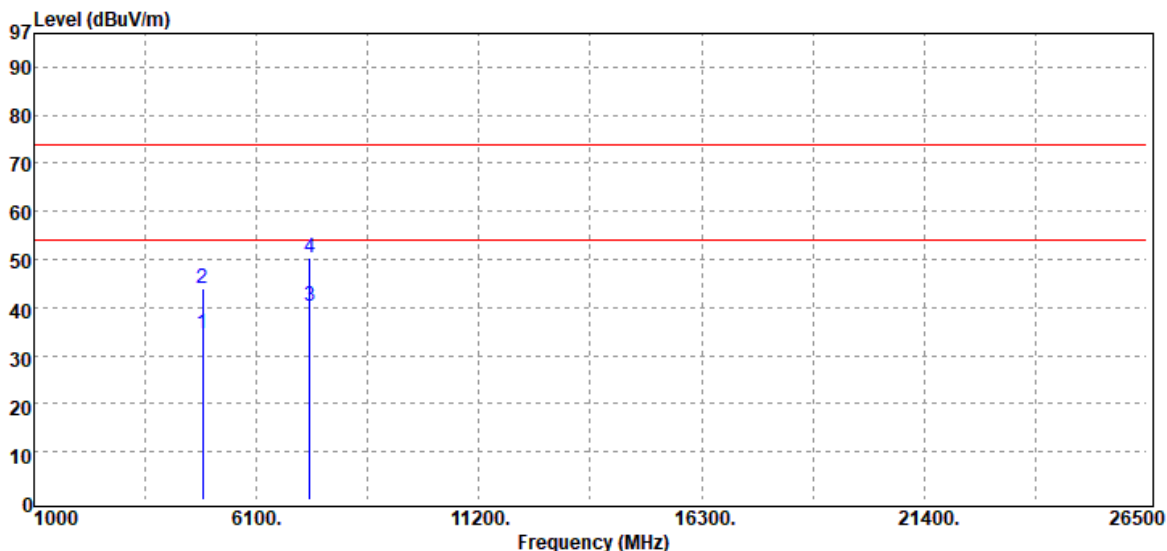
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4874.00 | Average  | 27.32         | 7.09   | 34.41  | 54.00  | -19.59 |
| 4874.00 | Peak     | 37.04         | 7.09   | 44.13  | 74.00  | -29.87 |
| 7311.00 | Average  | 25.69         | 14.63  | 40.32  | 54.00  | -13.68 |
| 7311.00 | Peak     | 35.75         | 14.63  | 50.38  | 74.00  | -23.62 |

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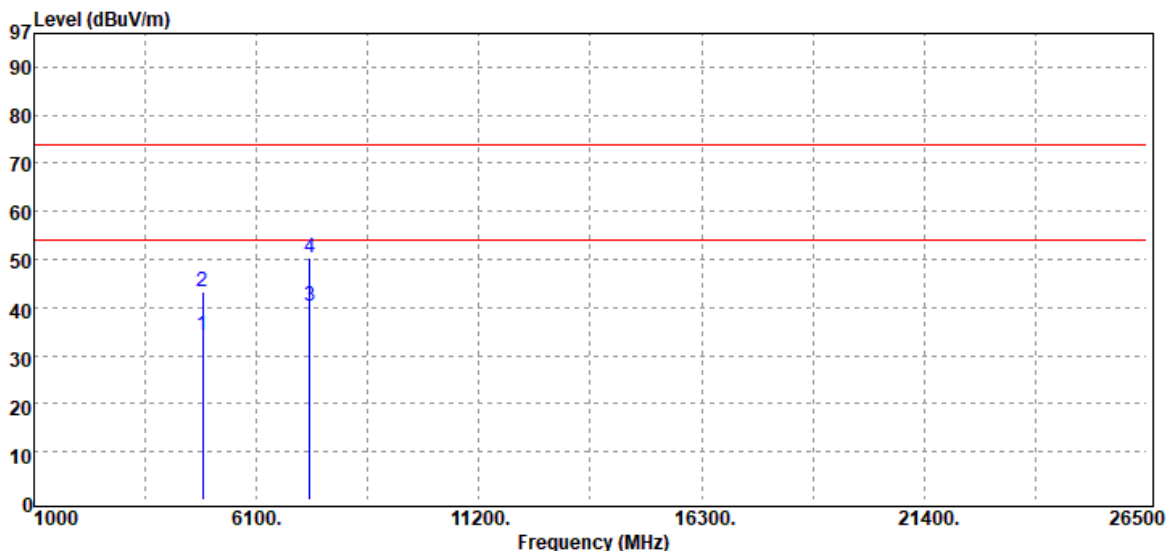
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
|         | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4874.00 | Average  | 27.26         | 7.09   | 34.35  | 54.00  | -19.65 |
| 4874.00 | Peak     | 36.26         | 7.09   | 43.35  | 74.00  | -30.65 |
| 7311.00 | Average  | 25.79         | 14.63  | 40.42  | 54.00  | -13.58 |
| 7311.00 | Peak     | 35.81         | 14.63  | 50.44  | 74.00  | -23.56 |

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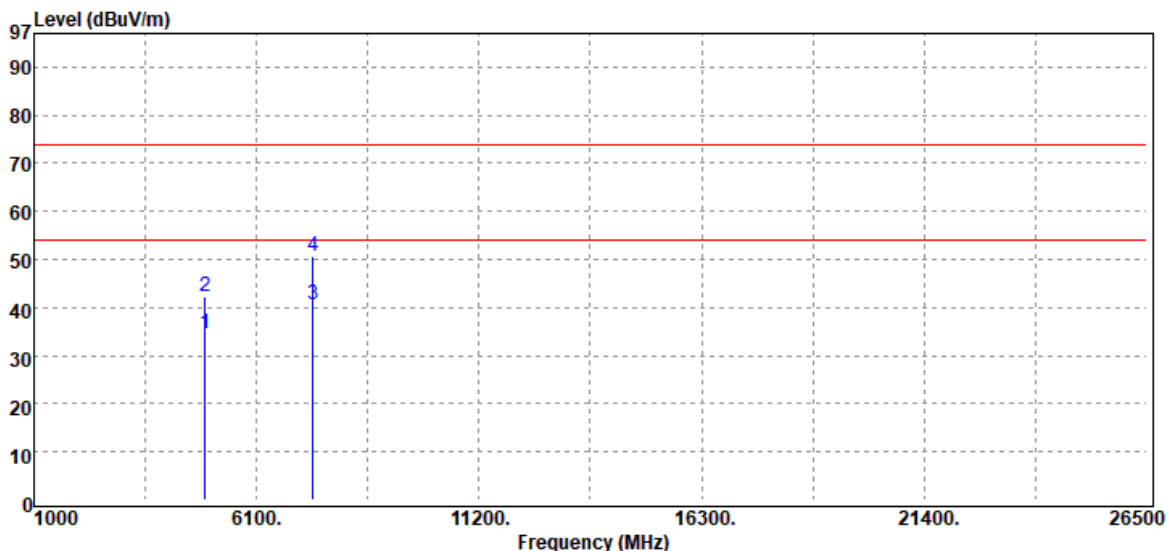
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4924.00 | Average  | 27.46         | 7.06   | 34.52  | 54.00  | -19.48 |
| 4924.00 | Peak     | 35.37         | 7.06   | 42.43  | 74.00  | -31.57 |
| 7386.00 | Average  | 26.12         | 14.43  | 40.55  | 54.00  | -13.45 |
| 7386.00 | Peak     | 36.31         | 14.43  | 50.74  | 74.00  | -23.26 |

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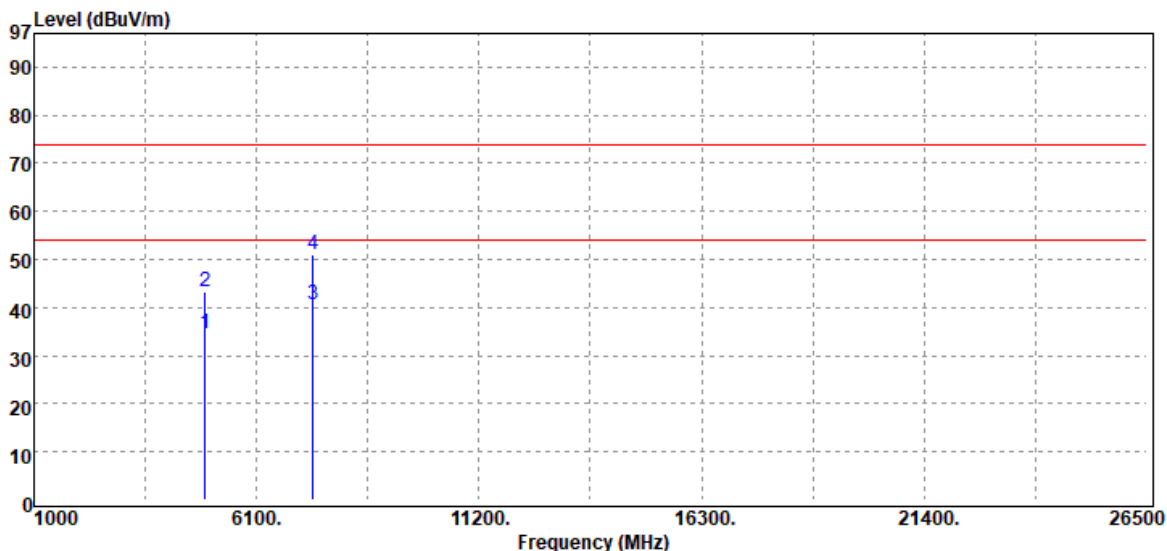
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Report Number :ER-2021-40041  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4924.00 | Average  | 27.46         | 7.06   | 34.52  | 54.00  | -19.48 |
| 4924.00 | Peak     | 36.40         | 7.06   | 43.46  | 74.00  | -30.54 |
| 7386.00 | Average  | 26.16         | 14.43  | 40.59  | 54.00  | -13.41 |
| 7386.00 | Peak     | 36.56         | 14.43  | 50.99  | 74.00  | -23.01 |

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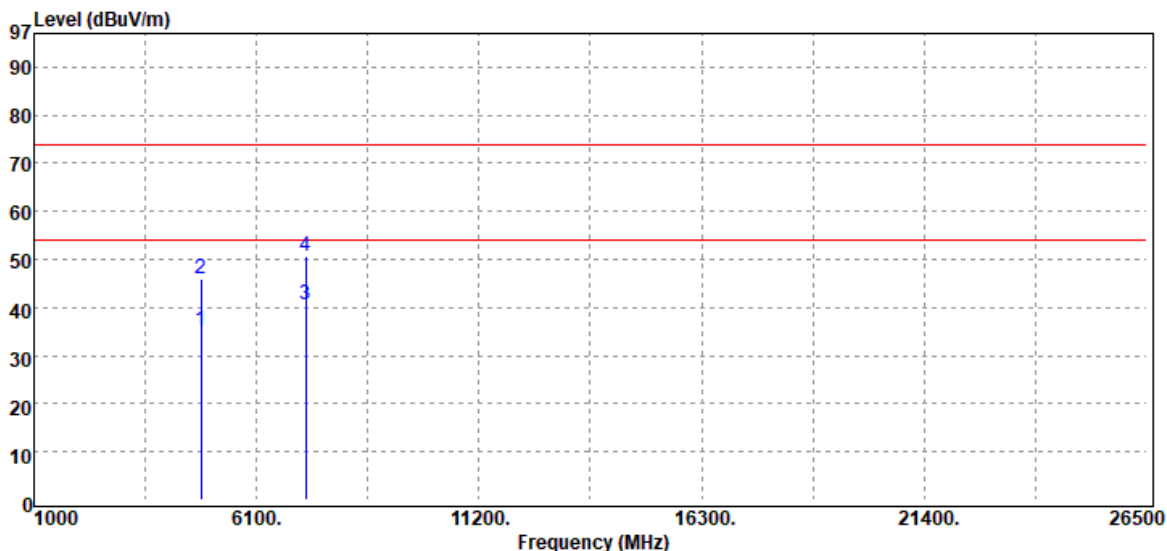
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Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4824.00 | Average  | 27.83         | 7.38   | 35.21  | 54.00  | -18.79 |
| 4824.00 | Peak     | 38.51         | 7.38   | 45.89  | 74.00  | -28.11 |
| 7236.00 | Average  | 26.32         | 14.35  | 40.67  | 54.00  | -13.33 |
| 7236.00 | Peak     | 36.25         | 14.35  | 50.60  | 74.00  | -23.40 |

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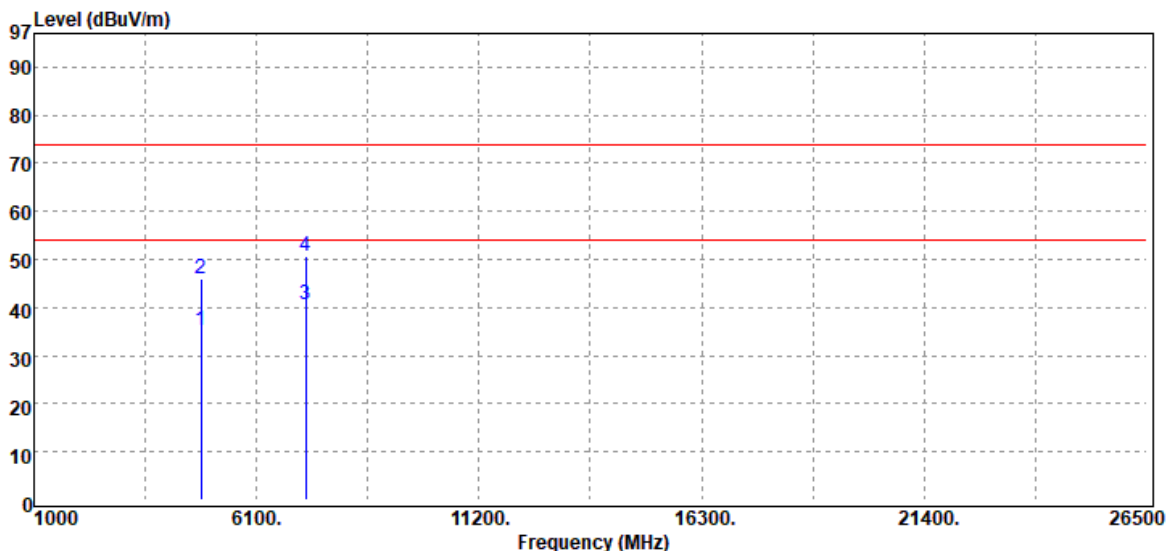
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Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4824.00 | Average  | 27.82         | 7.38   | 35.20  | 54.00  | -18.80 |
| 4824.00 | Peak     | 38.63         | 7.38   | 46.01  | 74.00  | -27.99 |
| 7236.00 | Average  | 26.26         | 14.35  | 40.61  | 54.00  | -13.39 |
| 7236.00 | Peak     | 36.17         | 14.35  | 50.52  | 74.00  | -23.48 |

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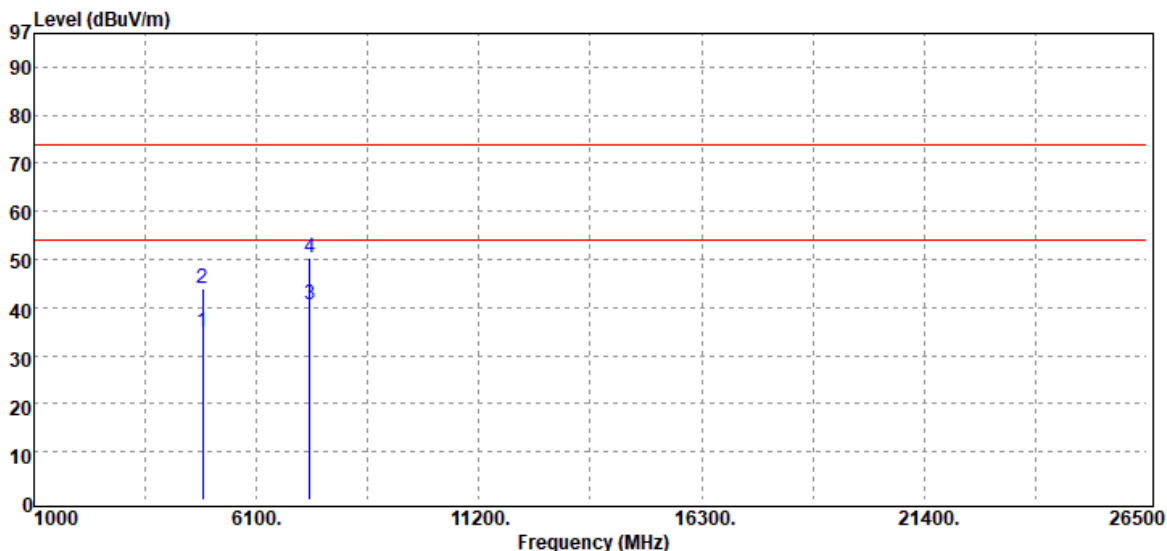
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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路

Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| Mode    |          | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 4874.00 | Average  | 27.81         | 7.09   | 34.90        | 54.00        | -19.10 |
| 4874.00 | Peak     | 36.84         | 7.09   | 43.93        | 74.00        | -30.07 |
| 7311.00 | Average  | 26.08         | 14.63  | 40.71        | 54.00        | -13.29 |
| 7311.00 | Peak     | 35.55         | 14.63  | 50.18        | 74.00        | -23.82 |

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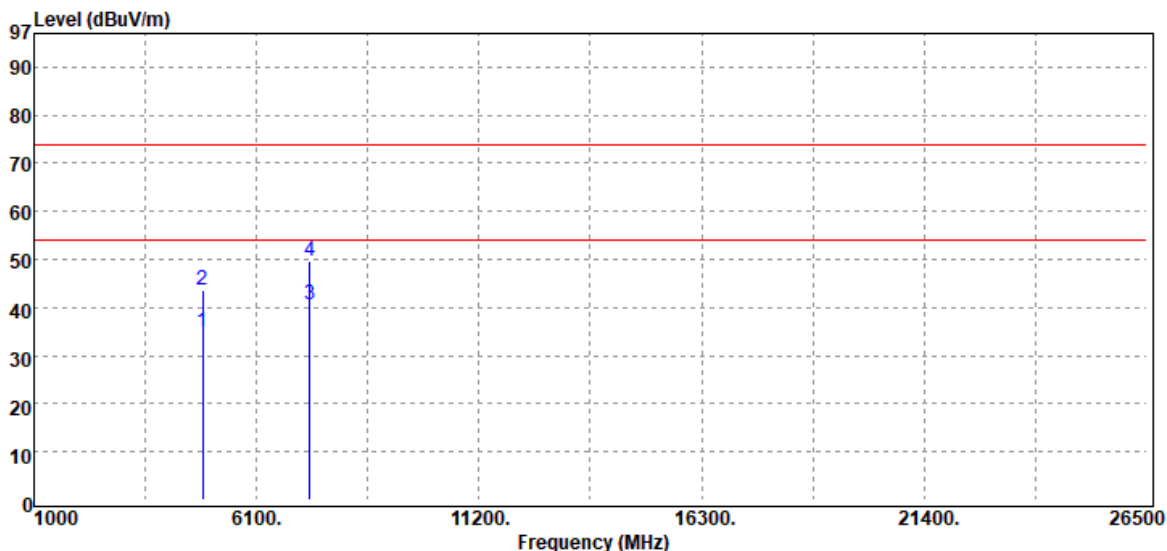
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Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
|         | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4874.00 | Average  | 27.76         | 7.09   | 34.85  | 54.00  | -19.15 |
| 4874.00 | Peak     | 36.60         | 7.09   | 43.69  | 74.00  | -30.31 |
| 7311.00 | Average  | 25.99         | 14.63  | 40.62  | 54.00  | -13.38 |
| 7311.00 | Peak     | 34.99         | 14.63  | 49.62  | 74.00  | -24.38 |

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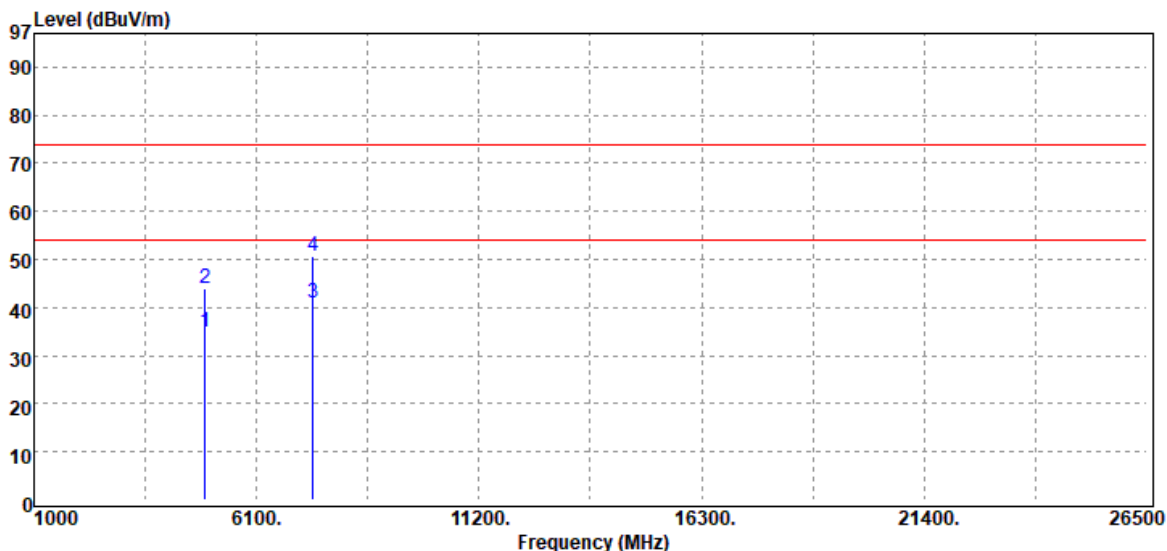
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Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4924.00 | Average  | 27.81         | 7.06   | 34.87  | 54.00  | -19.13 |
| 4924.00 | Peak     | 36.77         | 7.06   | 43.83  | 74.00  | -30.17 |
| 7386.00 | Average  | 26.37         | 14.43  | 40.80  | 54.00  | -13.20 |
| 7386.00 | Peak     | 36.13         | 14.43  | 50.56  | 74.00  | -23.44 |

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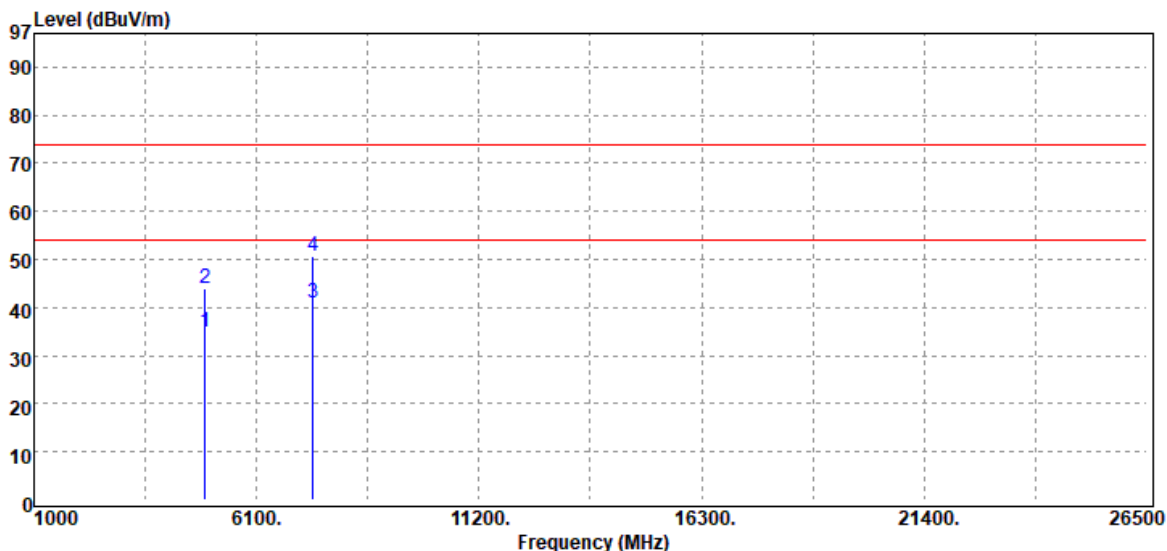
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Report Number :ER-2021-40041  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4924.00 | Average  | 27.86         | 7.06   | 34.92  | 54.00  | -19.08 |
| 4924.00 | Peak     | 36.80         | 7.06   | 43.86  | 74.00  | -30.14 |
| 7386.00 | Average  | 26.38         | 14.43  | 40.81  | 54.00  | -13.19 |
| 7386.00 | Peak     | 36.18         | 14.43  | 50.61  | 74.00  | -23.39 |

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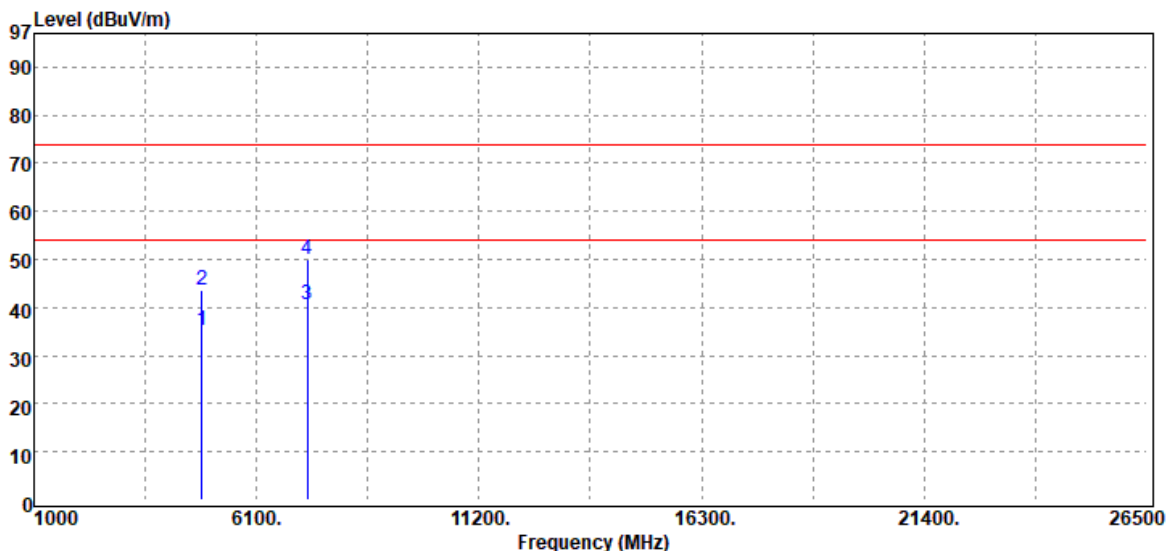
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Report Number :ER-2021-40041  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4844.00 | Average  | 27.84         | 7.29   | 35.13  | 54.00  | -18.87 |
| 4844.00 | Peak     | 36.41         | 7.29   | 43.70  | 74.00  | -30.30 |
| 7266.00 | Average  | 26.12         | 14.50  | 40.62  | 54.00  | -13.38 |
| 7266.00 | Peak     | 35.44         | 14.50  | 49.94  | 74.00  | -24.06 |

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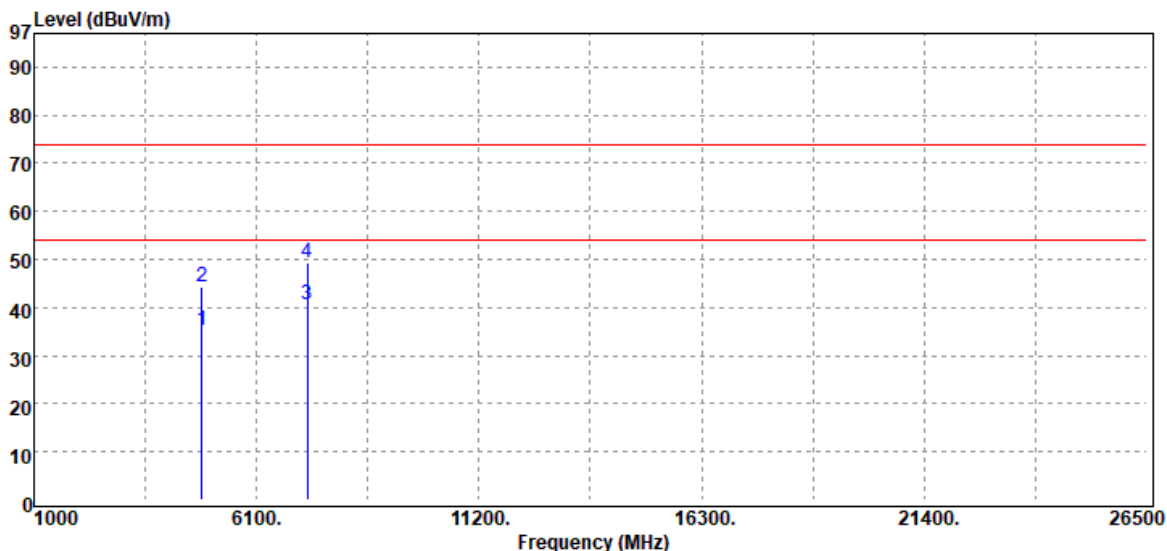
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Report Number :ER-2021-40041  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4844.00 | Average  | 27.79         | 7.29   | 35.08  | 54.00  | -18.92 |
| 4844.00 | Peak     | 36.86         | 7.29   | 44.15  | 74.00  | -29.85 |
| 7266.00 | Average  | 26.08         | 14.50  | 40.58  | 54.00  | -13.42 |
| 7266.00 | Peak     | 34.71         | 14.50  | 49.21  | 74.00  | -24.79 |

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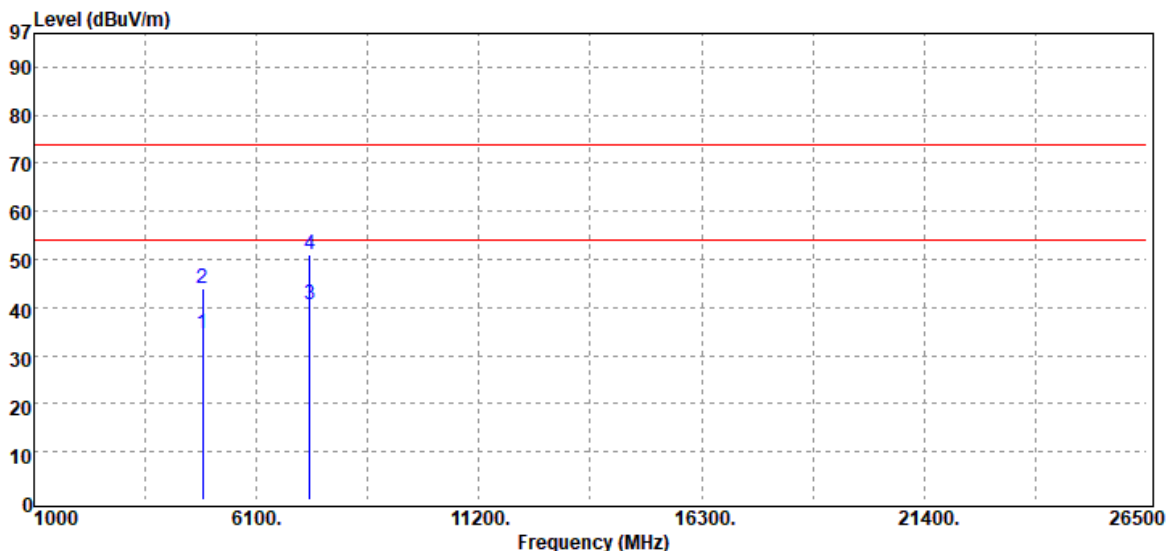
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Report Number :ER-2021-40041  
 Operation Mode :802.11n40  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| Mode    |          | Reading Level |        | FS           | @3m          |        |
| MHz     | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 4874.00 | Average  | 27.58         | 7.09   | 34.67        | 54.00        | -19.33 |
| 4874.00 | Peak     | 36.99         | 7.09   | 44.08        | 74.00        | -29.92 |
| 7311.00 | Average  | 25.91         | 14.63  | 40.54        | 54.00        | -13.46 |
| 7311.00 | Peak     | 36.42         | 14.63  | 51.05        | 74.00        | -22.95 |

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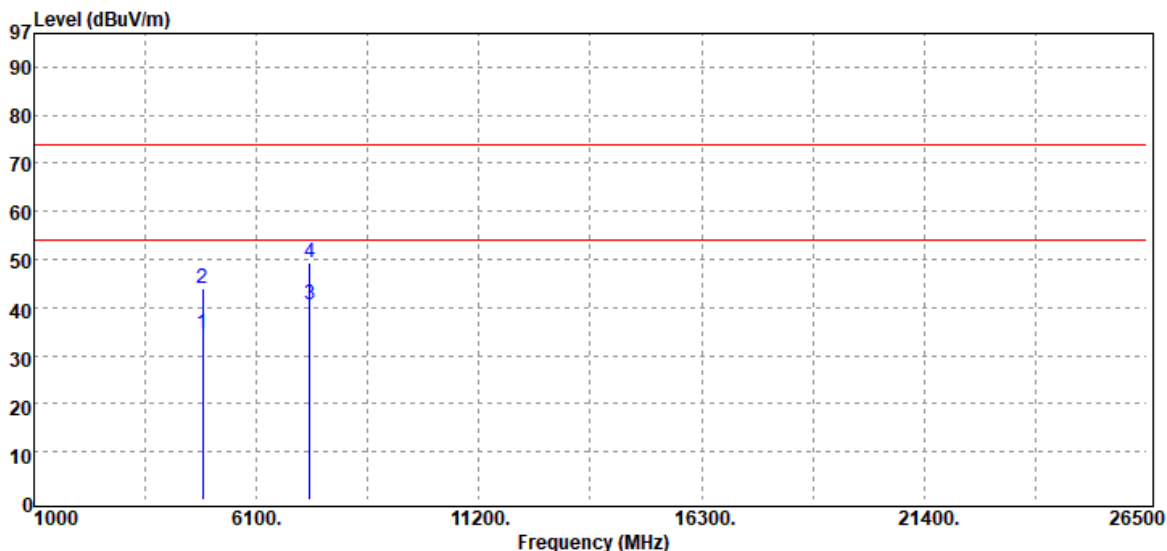
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Report Number :ER-2021-40041  
 Operation Mode :802.11n40  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4874.00 | Average  | 27.39         | 7.09   | 34.48  | 54.00  | -19.52 |
| 4874.00 | Peak     | 36.78         | 7.09   | 43.87  | 74.00  | -30.13 |
| 7311.00 | Average  | 25.95         | 14.63  | 40.58  | 54.00  | -13.42 |
| 7311.00 | Peak     | 34.85         | 14.63  | 49.48  | 74.00  | -24.52 |

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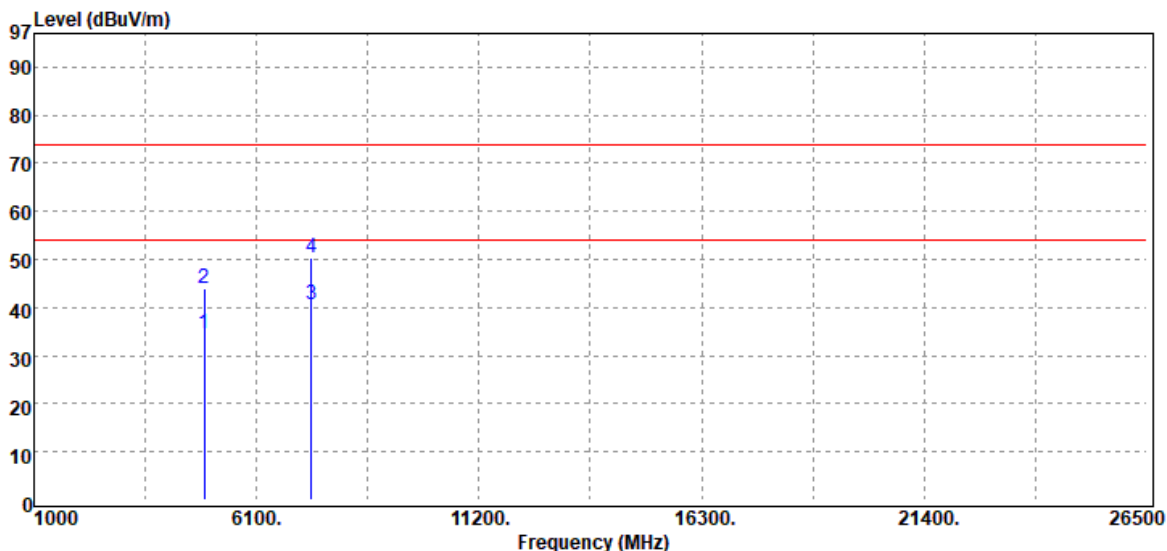
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Report Number :ER-2021-40041  
 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4904.00 | Average  | 27.52         | 6.93   | 34.45  | 54.00  | -19.55 |
| 4904.00 | Peak     | 36.97         | 6.93   | 43.90  | 74.00  | -30.10 |
| 7356.00 | Average  | 26.21         | 14.45  | 40.66  | 54.00  | -13.34 |
| 7356.00 | Peak     | 35.90         | 14.45  | 50.35  | 74.00  | -23.65 |

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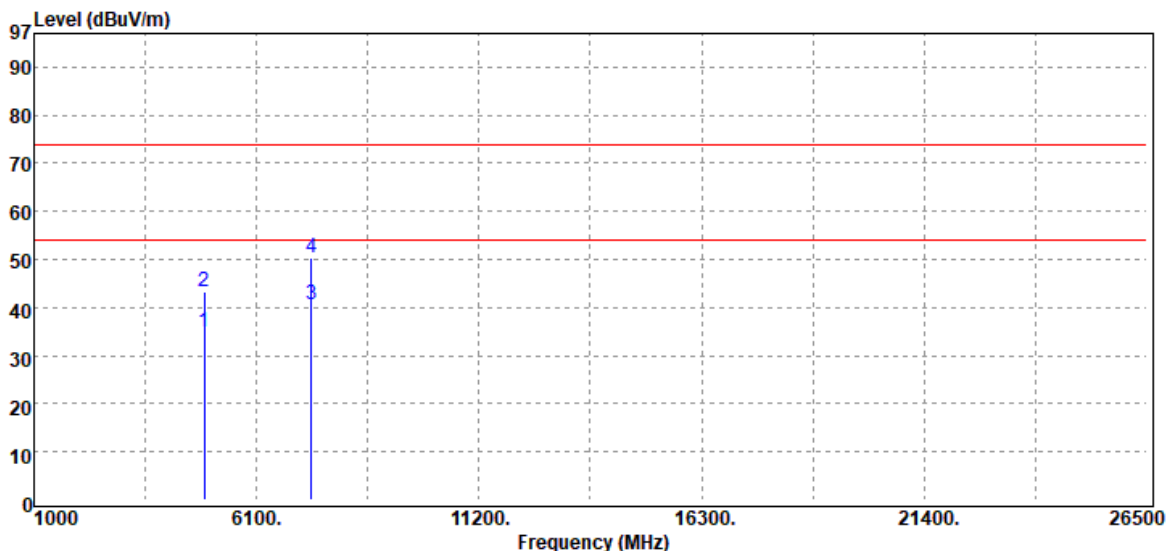
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 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC III Chamber  
 Test Date :2021-04-16  
 Temp./Humi. :23.1/62  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4904.00 | Average  | 27.81         | 6.93   | 34.74  | 54.00  | -19.26 |
| 4904.00 | Peak     | 36.48         | 6.93   | 43.41  | 74.00  | -30.59 |
| 7356.00 | Average  | 26.25         | 14.45  | 40.70  | 54.00  | -13.30 |
| 7356.00 | Peak     | 35.83         | 14.45  | 50.28  | 74.00  | -23.72 |

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## 12 POWER SPECTRAL DENSITY

### 12.1 Standard Applicable

Per Part 15.247 (e)

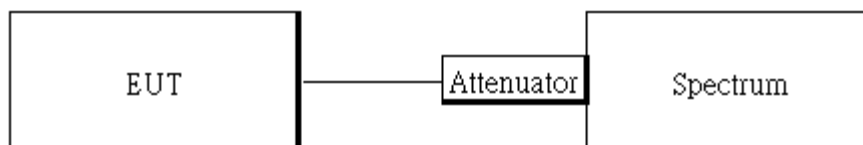
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 12.2 Measurement Equipment Used

| Conducted Emission Test Site: Conducted 1 |               |              |               |            |            |
|-------------------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B       | MY59071571    | 06/27/2020 | 06/26/2021 |
| DC Block                                  | Mini-Circuits | BLK-18-S+    | 1             | 12/16/2020 | 12/15/2021 |

### 12.3 Test Set-up



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## 12.4 Measurement Procedure

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 = 3 kHz & VBW = 10 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.

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## 12.5 Power spectral density

| POWER DENSITY 802.11b |            |                   |                     |        |
|-----------------------|------------|-------------------|---------------------|--------|
| Freq.<br>(MHz)        | Ch0<br>PSD | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Result |
| 2412                  | -10.15     | -10.15            | 8.00                | PASS   |
| 2437                  | -11.62     | -11.62            | 8.00                | PASS   |
| 2462                  | -11.16     | -11.16            | 8.00                | PASS   |

| POWER DENSITY 802.11g |            |                   |                     |        |
|-----------------------|------------|-------------------|---------------------|--------|
| Freq.<br>(MHz)        | Ch0<br>PSD | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Result |
| 2412                  | -13.68     | -13.68            | 8.00                | PASS   |
| 2437                  | -13.66     | -13.66            | 8.00                | PASS   |
| 2462                  | -13.79     | -13.79            | 8.00                | PASS   |

| POWER DENSITY 802.11n HT20 |            |                   |                     |        |
|----------------------------|------------|-------------------|---------------------|--------|
| Freq.<br>(MHz)             | Ch0<br>PSD | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Result |
| 2412                       | -14.56     | -14.56            | 8.00                | PASS   |
| 2437                       | -14.39     | -14.39            | 8.00                | PASS   |
| 2462                       | -13.69     | -13.69            | 8.00                | PASS   |

| POWER DENSITY 802.11n HT40 |            |                   |                     |        |
|----------------------------|------------|-------------------|---------------------|--------|
| Freq.<br>(MHz)             | Ch0<br>PSD | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Result |
| 2422                       | -17.11     | -17.11            | 8.00                | PASS   |
| 2437                       | -17.68     | -17.68            | 8.00                | PASS   |
| 2452                       | -15.11     | -15.11            | 8.00                | PASS   |

*\*Refer to next page for plots*

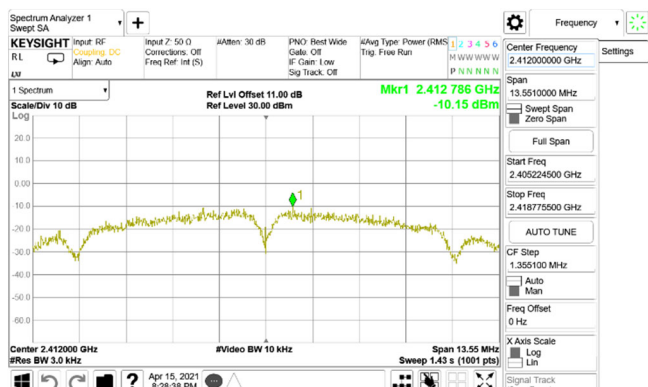
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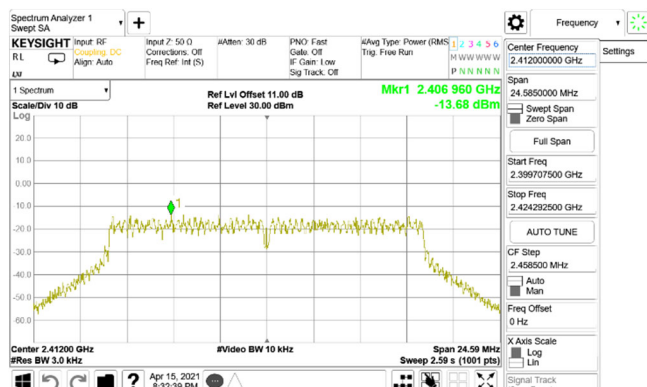
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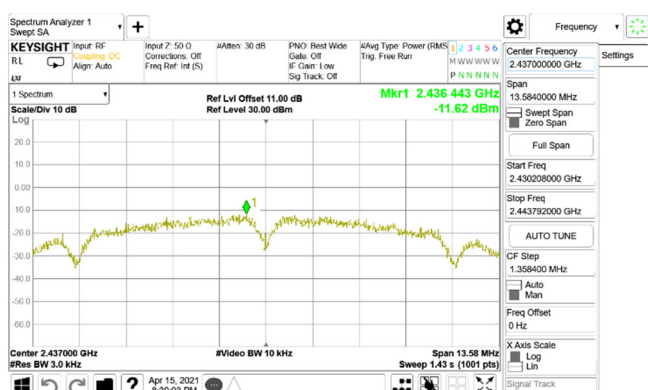
802.11b\_20MHz\_Chain0\_2412MHz



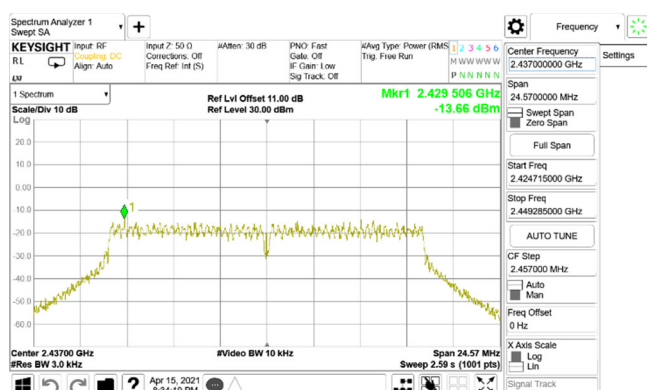
802.11g\_20MHz\_Chain0\_2412MHz



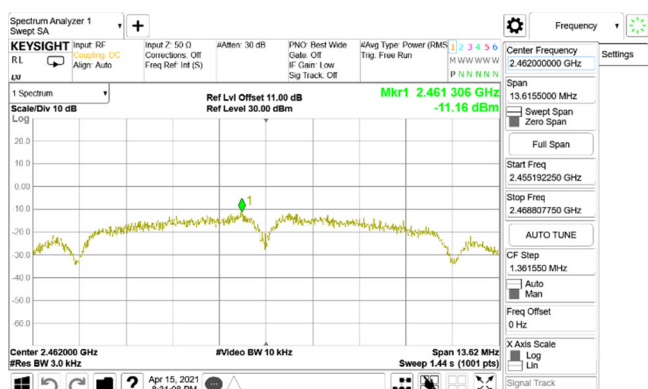
802.11b\_20MHz\_Chain0\_2437MHz



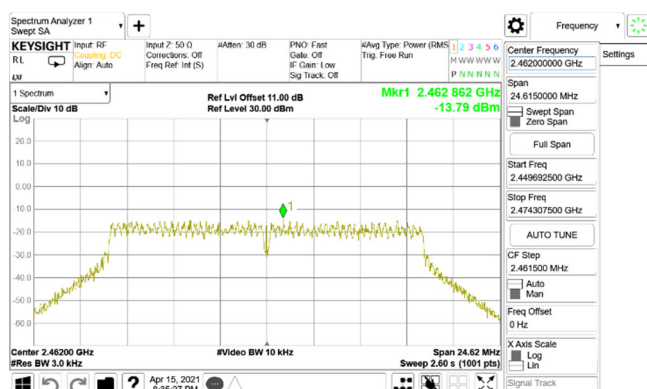
802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz



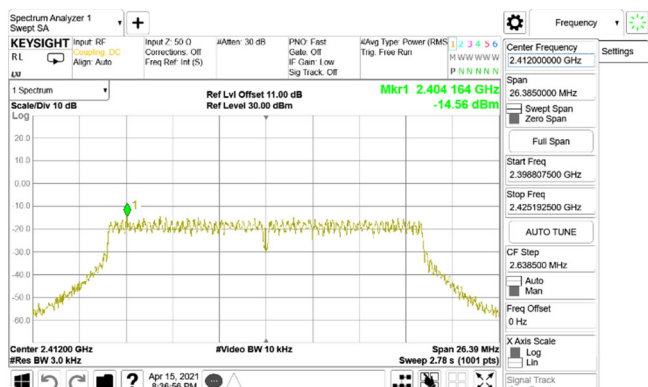
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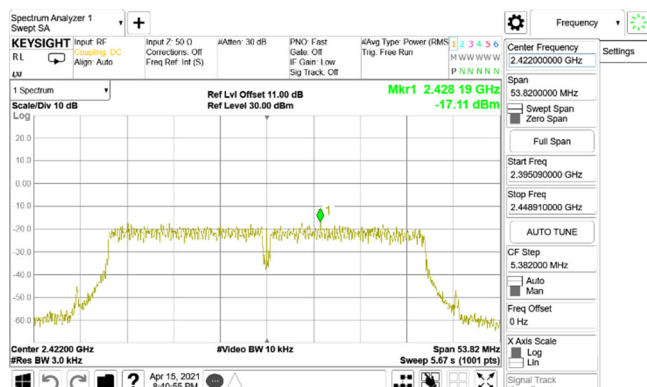
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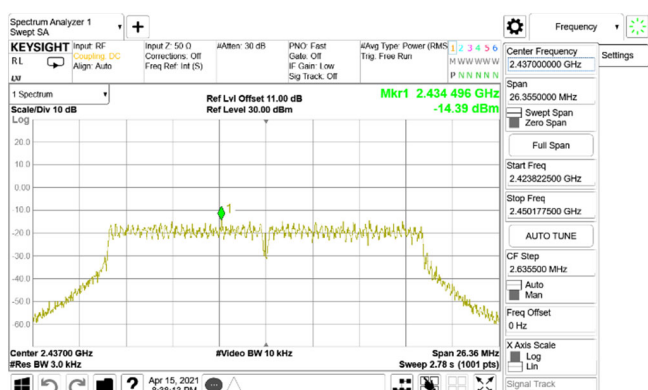
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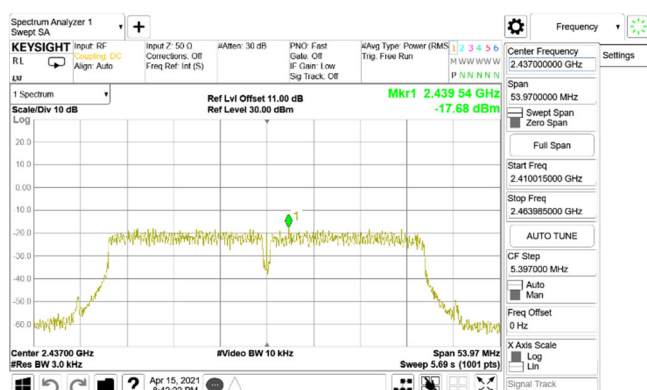
802.11n\_40MHz\_Chain0\_2422MHz



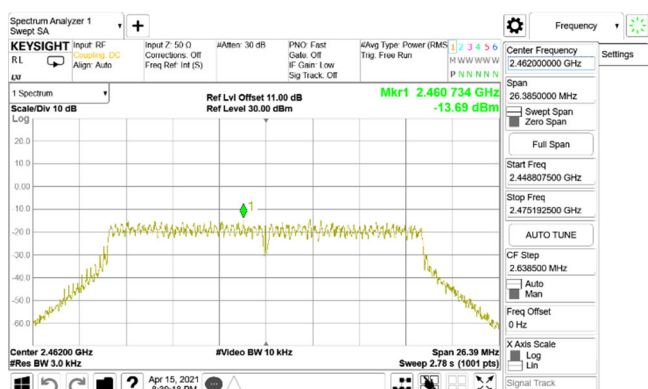
802.11n\_20MHz\_Chain0\_2437MHz



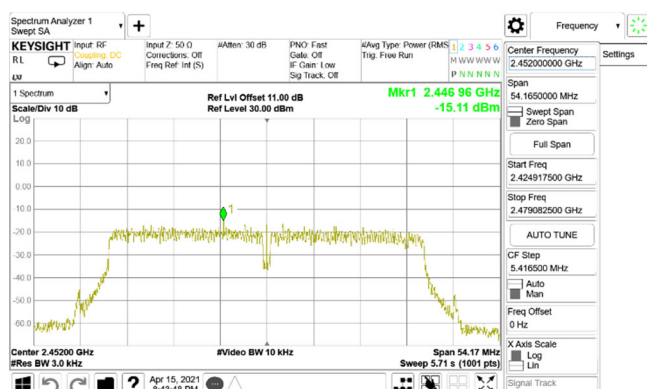
802.11n\_40MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



802.11n\_40MHz\_Chain0\_2452MHz



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## 13 ANTENNA REQUIREMENT

### 13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

### 13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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