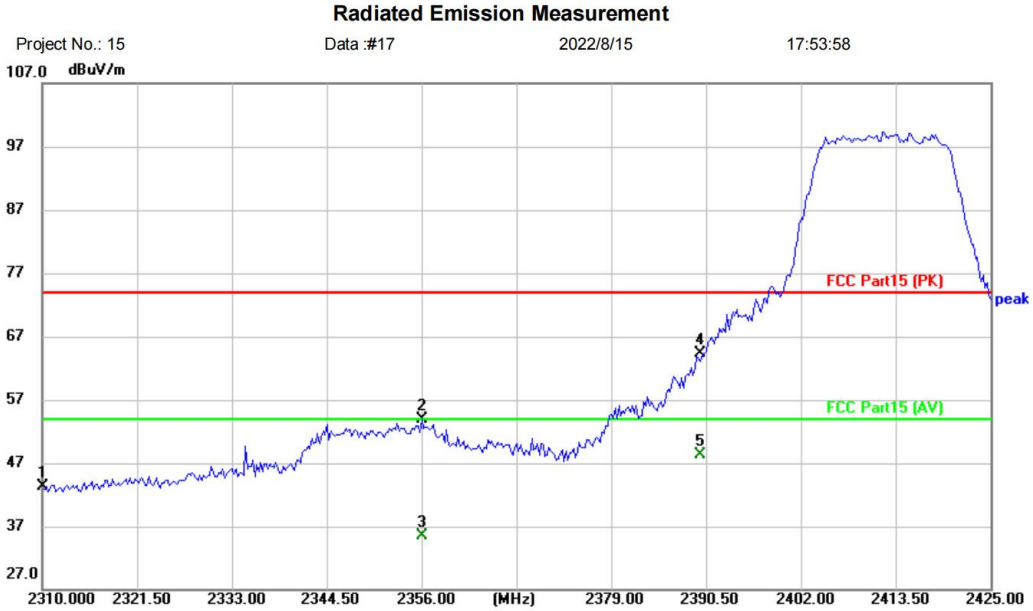
## [TestMode: TX g low channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11GTX-L
Note:

Polarization: ***Horizontal***
Power:

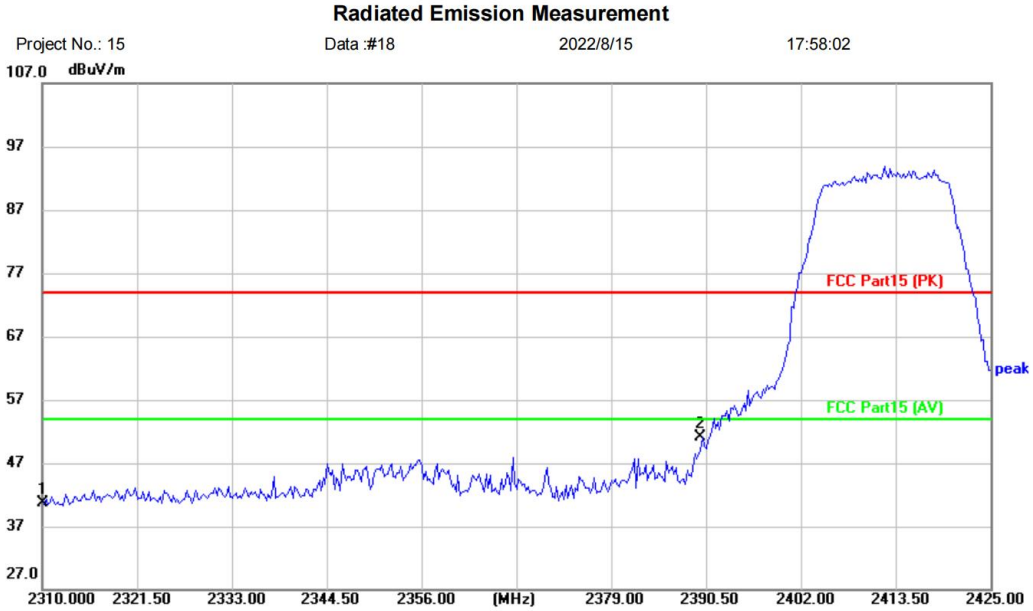
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310.000 | 46.39 | -3.02 | 43.37 | 74.00 | -30.63 | peak | |
| 2 | | 2356.000 | 56.66 | -2.71 | 53.95 | 74.00 | -20.05 | peak | |
| 3 | | 2356.000 | 38.30 | -2.71 | 35.59 | 54.00 | -18.41 | AVG | |
| 4 | | 2390.000 | 66.86 | -2.50 | 64.36 | 74.00 | -9.64 | peak | |
| 5 | * | 2390.000 | 50.89 | -2.50 | 48.39 | 54.00 | -5.61 | AVG | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX g low channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11GTX-L
Note:

Polarization: *Vertical*
Power:

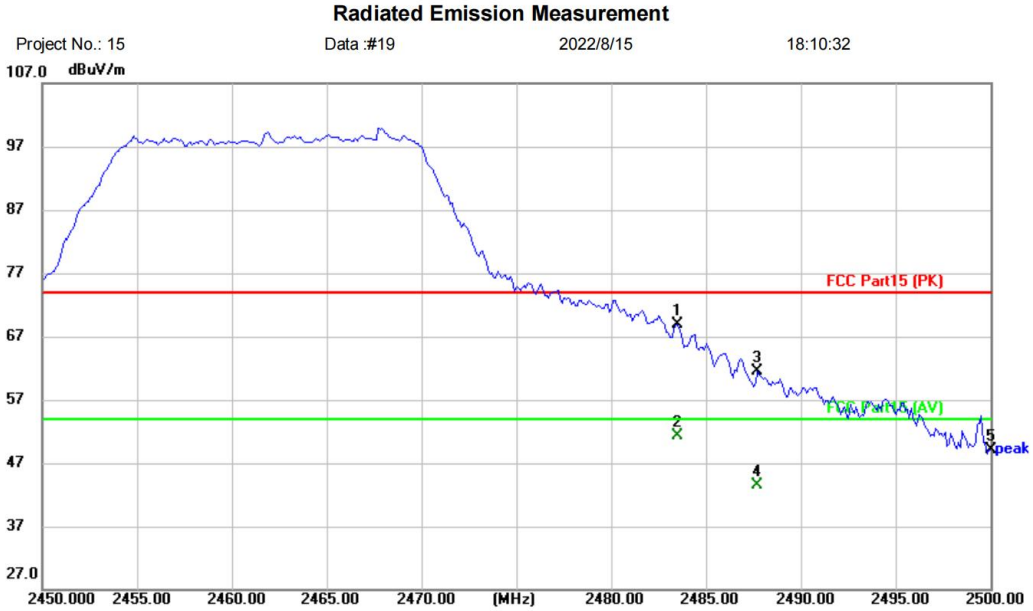
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310.000 | 43.80 | -3.02 | 40.78 | 74.00 | -33.22 | peak | |
| 2 | * | 2390.000 | 53.53 | -2.50 | 51.03 | 74.00 | -22.97 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX g high channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11GTX-H
Note:

Polarization: ***Horizontal***
Power:

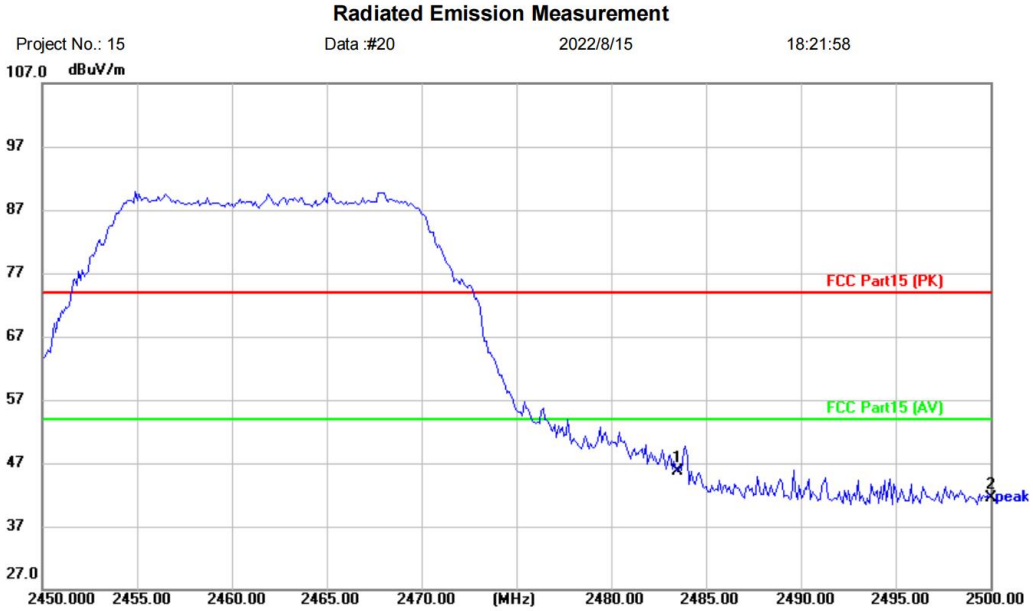
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2483.500 | 71.35 | -2.52 | 68.83 | 74.00 | -5.17 | peak | |
| 2 | * | 2483.500 | 53.85 | -2.52 | 51.33 | 54.00 | -2.67 | AVG | |
| 3 | | 2487.700 | 63.97 | -2.54 | 61.43 | 74.00 | -12.57 | peak | |
| 4 | | 2487.700 | 45.97 | -2.54 | 43.43 | 54.00 | -10.57 | AVG | |
| 5 | | 2500.000 | 51.71 | -2.55 | 49.16 | 74.00 | -24.84 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX g high channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11GTX-H
Note:

Polarization: *Vertical*
Power:

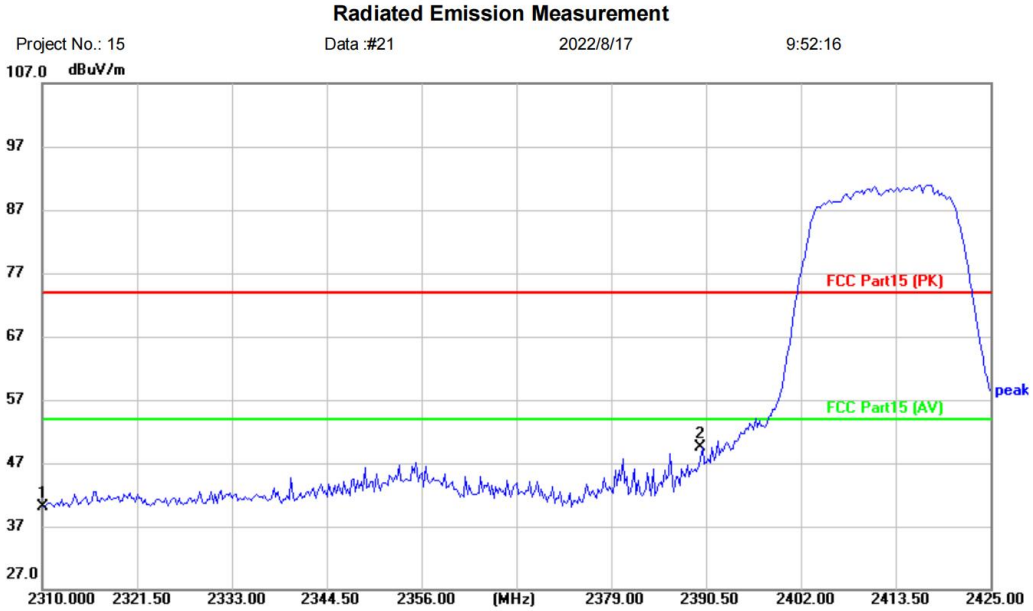
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 2483.500 | 48.19 | -2.52 | 45.67 | 74.00 | -28.33 | peak | |
| 2 | | 2500.000 | 44.06 | -2.55 | 41.51 | 74.00 | -32.49 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX n20 low channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11N20 TX-L
Note:

Polarization: *Vertical*
Power:

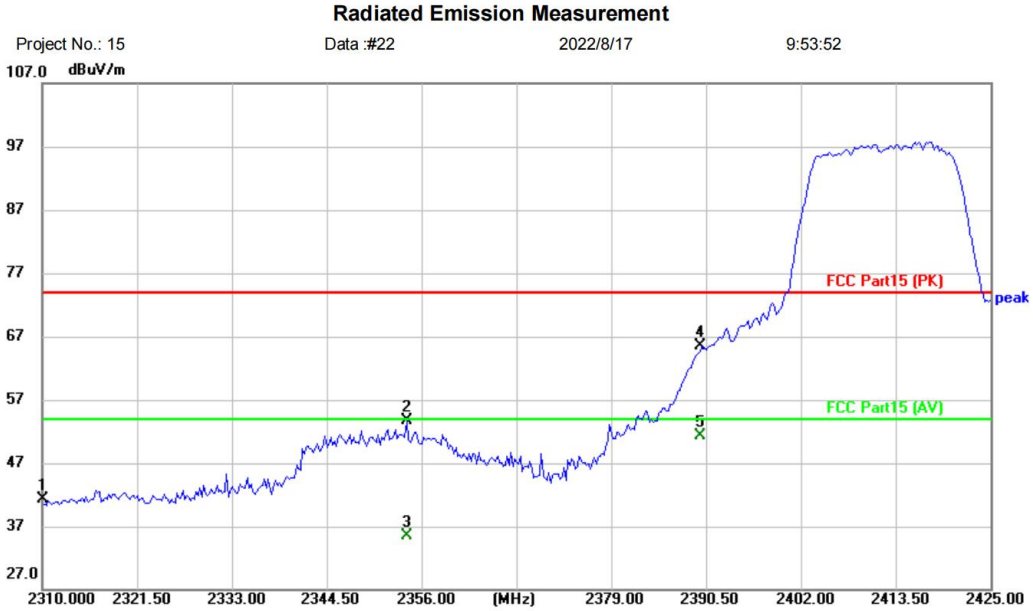
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310.000 | 43.16 | -3.02 | 40.14 | 74.00 | -33.86 | peak | |
| 2 | * | 2390.000 | 51.98 | -2.50 | 49.48 | 74.00 | -24.52 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX n20 low channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11N20 TX-L
Note:

Polarization: ***Horizontal***
Power:

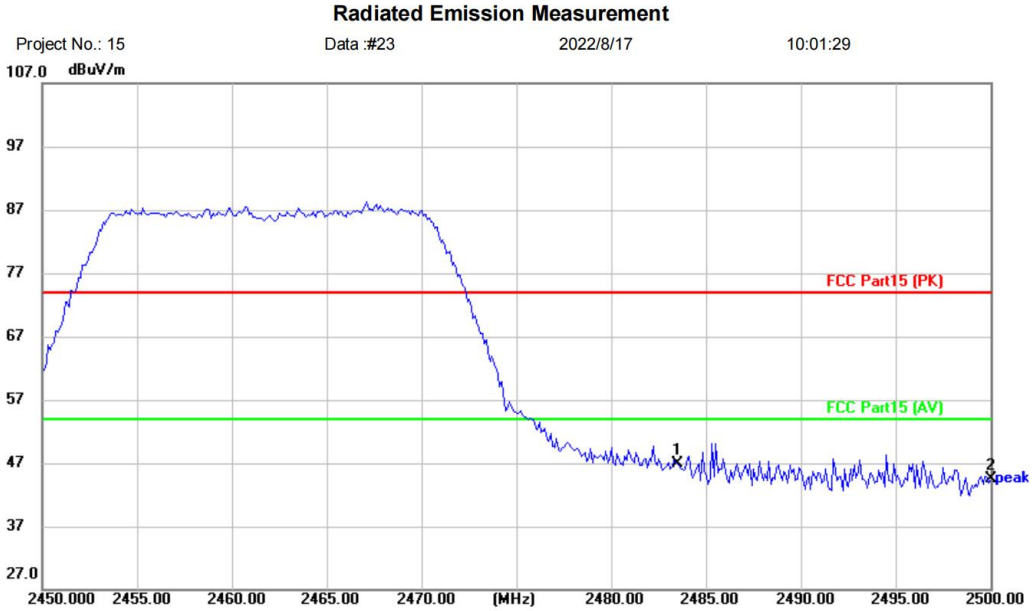
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310.000 | 44.26 | -3.02 | 41.24 | 74.00 | -32.76 | peak | |
| 2 | | 2354.160 | 56.45 | -2.72 | 53.73 | 74.00 | -20.27 | peak | |
| 3 | | 2354.160 | 38.28 | -2.72 | 35.56 | 54.00 | -18.44 | AVG | |
| 4 | | 2390.000 | 68.06 | -2.50 | 65.56 | 74.00 | -8.44 | peak | |
| 5 | * | 2390.000 | 53.76 | -2.50 | 51.26 | 54.00 | -2.74 | AVG | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX n20 high channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11N20 TX-H
Note:

Polarization: *Vertical*
Power:

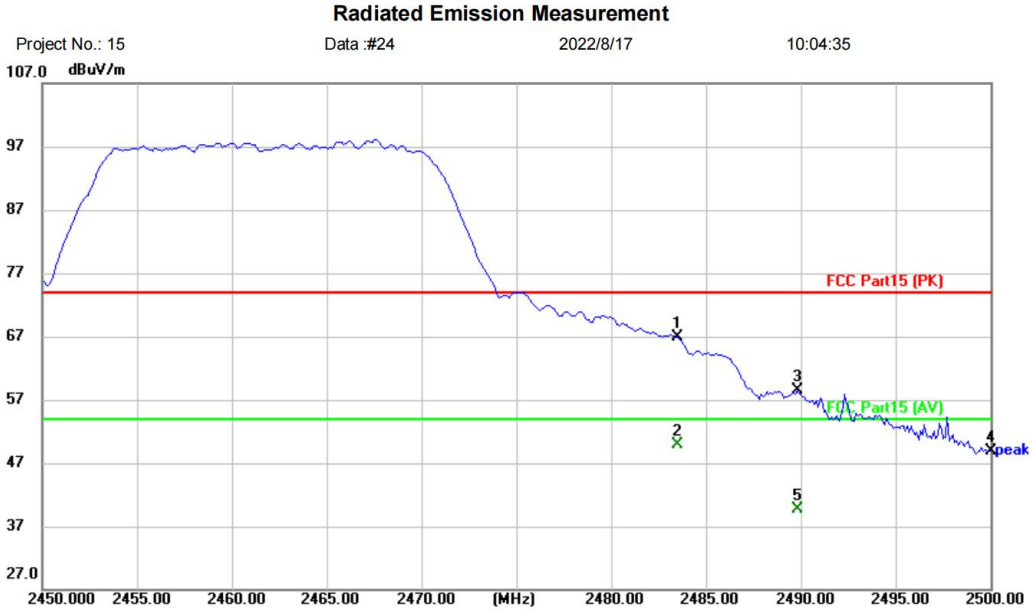
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 2483.500 | 49.50 | -2.52 | 46.98 | 74.00 | -27.02 | peak | |
| 2 | | 2500.000 | 47.09 | -2.55 | 44.54 | 74.00 | -29.46 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX n20 high channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11N20 TX-H
Note:

Polarization: ***Horizontal***
Power:

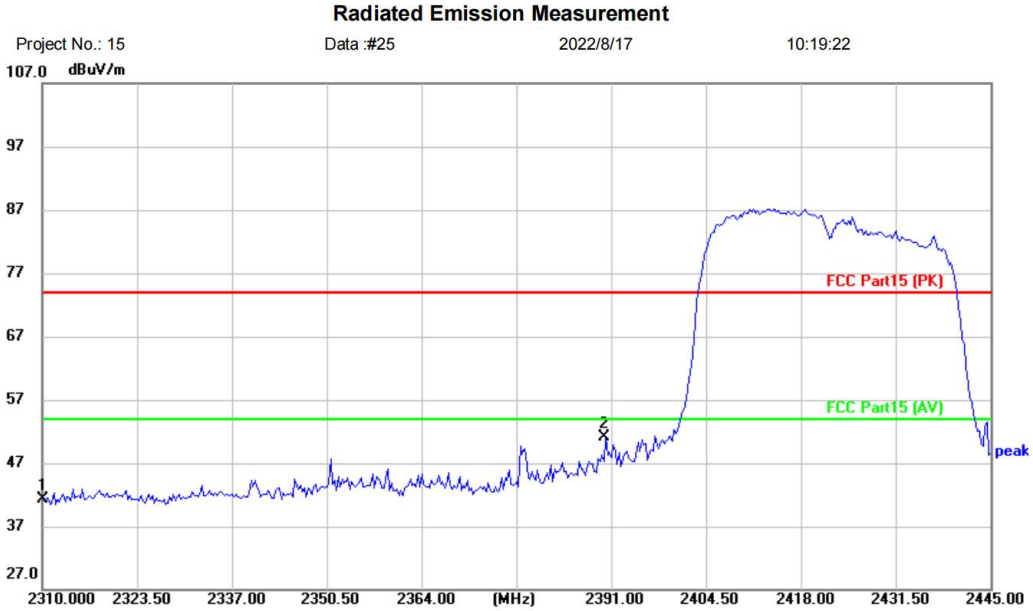
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2483.500 | 69.40 | -2.52 | 66.88 | 74.00 | -7.12 | peak | |
| 2 | * | 2483.500 | 52.44 | -2.52 | 49.92 | 54.00 | -4.08 | AVG | |
| 3 | | 2489.800 | 60.97 | -2.54 | 58.43 | 74.00 | -15.57 | peak | |
| 4 | | 2500.000 | 51.38 | -2.55 | 48.83 | 74.00 | -25.17 | peak | |
| 5 | | 2489.800 | 42.18 | -2.54 | 39.64 | 54.00 | -14.36 | AVG | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX n40 low channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11N40 TX-L
Note:

Polarization: *Vertical*
Power:

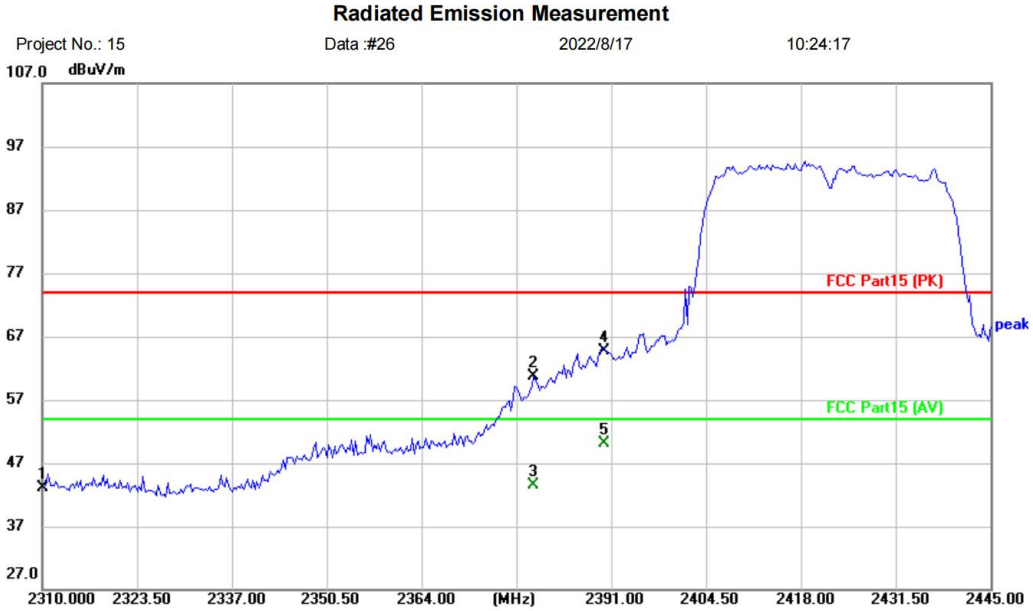
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310.000 | 44.23 | -3.02 | 41.21 | 74.00 | -32.79 | peak | |
| 2 | * | 2390.000 | 53.61 | -2.50 | 51.11 | 74.00 | -22.89 | peak | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX n40 low channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11N40 TX-L
Note:

Polarization: ***Horizontal***
Power:

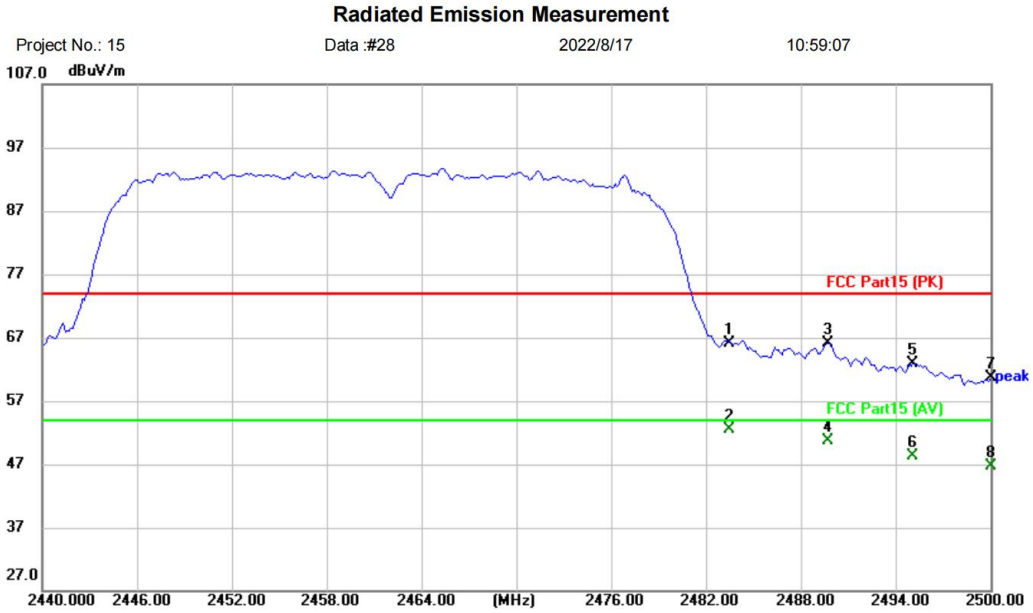
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2310.000 | 46.19 | -3.02 | 43.17 | 74.00 | -30.83 | peak | |
| 2 | | 2379.930 | 63.32 | -2.56 | 60.76 | 74.00 | -13.24 | peak | |
| 3 | | 2379.930 | 46.09 | -2.56 | 43.53 | 54.00 | -10.47 | AVG | |
| 4 | | 2390.000 | 67.18 | -2.50 | 64.68 | 74.00 | -9.32 | peak | |
| 5 | * | 2390.000 | 52.60 | -2.50 | 50.10 | 54.00 | -3.90 | AVG | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX n40 high channel]; [Polarity: Vertical]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11N40 TX-H
Note:

Polarization: *Horizontal*
Power:

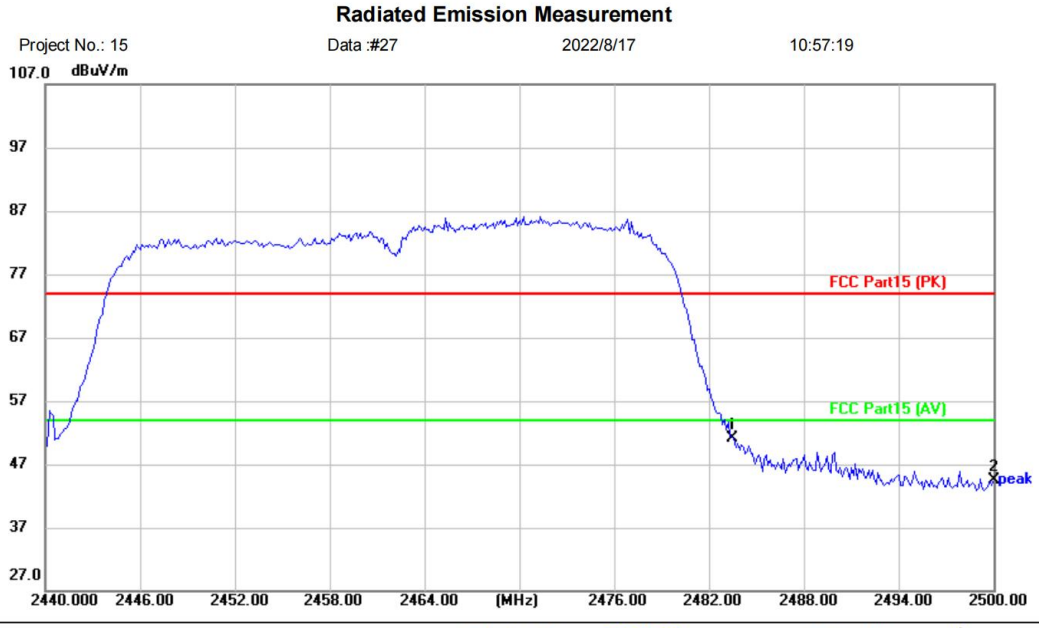
Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2483.500 | 68.72 | -2.52 | 66.20 | 74.00 | -7.80 | peak | |
| 2 | * | 2483.500 | 55.00 | -2.52 | 52.48 | 54.00 | -1.52 | AVG | |
| 3 | | 2489.680 | 68.71 | -2.54 | 66.17 | 74.00 | -7.83 | peak | |
| 4 | | 2489.680 | 53.25 | -2.54 | 50.71 | 54.00 | -3.29 | AVG | |
| 5 | | 2495.080 | 65.42 | -2.55 | 62.87 | 74.00 | -11.13 | peak | |
| 6 | | 2495.080 | 50.88 | -2.55 | 48.33 | 54.00 | -5.67 | AVG | |
| 7 | | 2500.000 | 63.28 | -2.55 | 60.73 | 74.00 | -13.27 | peak | |
| 8 | | 2500.000 | 49.31 | -2.55 | 46.76 | 54.00 | -7.24 | AVG | |

*:Maximum data x:Over limit !:over margin (Reference Only

**Test Result: Pass**

## [TestMode: TX n40 high channel]; [Polarity: Horizontal]




Site
Limit: FCC Part15 (PK)
EUT: Smart Bulb
M/N: HT-US-T1A199.5W950-RGBCW2E-V2
Mode: 2.4Gwifi 11N40 TX-H
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 2483.500 | 53.68 | -2.52 | 51.16 | 74.00 | -22.84 | peak | |
| 2 | | 2500.000 | 46.99 | -2.55 | 44.44 | 74.00 | -29.56 | peak | |

*:Maximum data x:Over limit !:over margin (Reference Only

**Test Result: Pass**

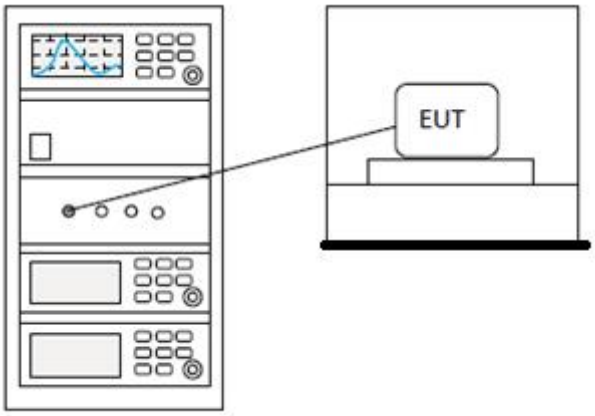
# 13 CONDUCTED SPURIOUS EMISSIONS

| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 7.8.6 & Section 11.11 |
| **Test Mode (Pre-Scan)** | TX |
| **Test Mode (Final Test)** | TX |
| **Tester** | Jozu |
| **Temperature** | 25℃ |
| **Humidity** | 60% |

## 13.1 LIMITS

| | |
|---|---|
| **Limit:** | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). |

## 13.2 BLOCK DIAGRAM OF TEST SETUP



### 13.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

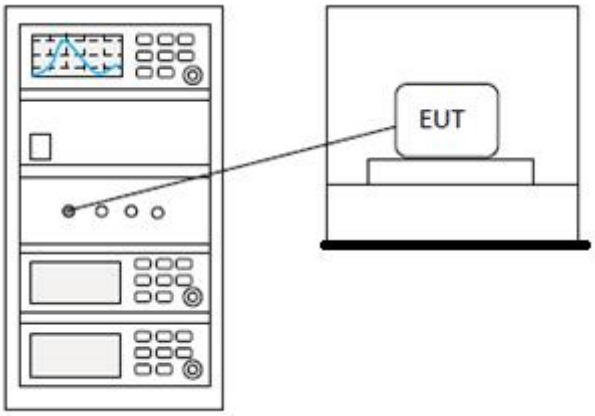
# 14 CONDUCTED BAND EDGES MEASUREMENT

| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2 |
| **Test Mode (Pre-Scan)** | TX |
| **Test Mode (Final Test)** | TX |
| **Tester** | Jozu |
| **Temperature** | 25℃ |
| **Humidity** | 60% |

## 14.1 LIMITS

| | |
|---|---|
| **Limit:** | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). |

## 14.2 BLOCK DIAGRAM OF TEST SETUP



### 14.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

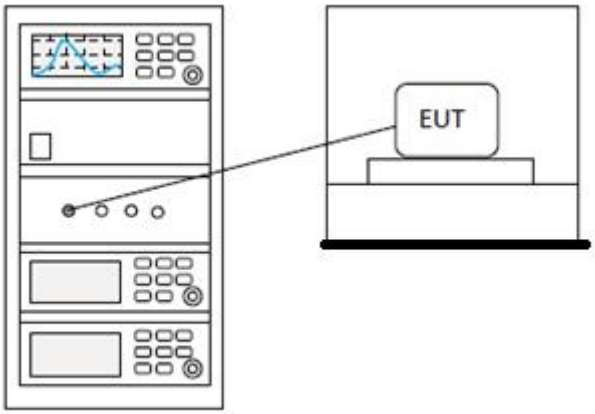
# 15 MINIMUM 6DB BANDWIDTH

| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 11.8.1 |
| **Test Mode (Pre-Scan)** | TX |
| **Test Mode (Final Test)** | TX |
| **Tester** | Jozu |
| **Temperature** | 25℃ |
| **Humidity** | 60% |

## 15.1 LIMITS

| | |
|---|---|
| **Limit:** | ≥500 kHz |

## 15.2 BLOCK DIAGRAM OF TEST SETUP




## 15.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

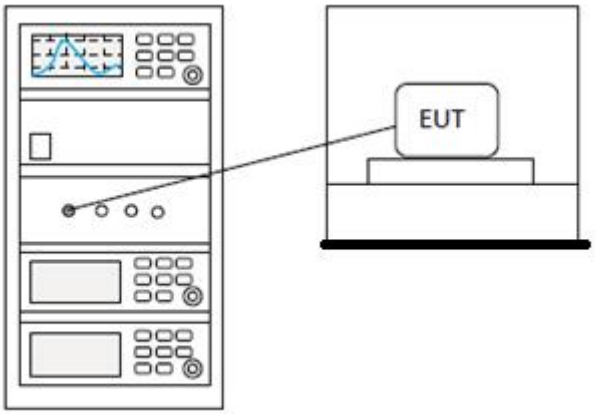
# 16 POWER SPECTRUM DENSITY

| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 11.10.2 |
| **Test Mode (Pre-Scan)** | TX |
| **Test Mode (Final Test)** | TX |
| **Tester** | Jozu |
| **Temperature** | 25℃ |
| **Humidity** | 60% |

## 16.1 LIMITS

| | |
|---|---|
| **Limit:** | ≤8dBm in any 3 kHz band during any time interval of continuous transmission |

## 16.2 BLOCK DIAGRAM OF TEST SETUP




## 16.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

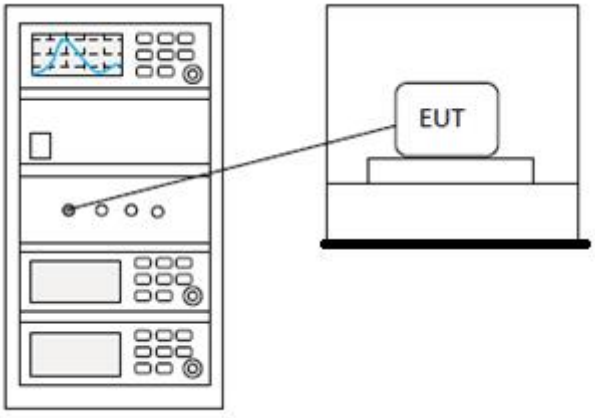
# 17 CONDUCTED PEAK OUTPUT POWER

| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1 |
| **Test Mode (Pre-Scan)** | TX |
| **Test Mode (Final Test)** | TX |
| **Tester** | Jozu |
| **Temperature** | 25℃ |
| **Humidity** | 60% |

## 17.1 LIMITS

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|---|---|
| 902-928 | 1 for ≥50 hopping channels |
| | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| 2400-2483.5 | 1 for ≥75 non-overlapping hopping channels |
| | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

## 17.2 BLOCK DIAGRAM OF TEST SETUP



### 17.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**