



Test Report

FCC Part15 Subpart C

Product Name : Connected Sleep & Wake-up light
Model No. : HF3670, HF3671, HF3672,
HF3673, HF3674
FCC ID : 2APFC-HF367X

Applicant : Philips Consumer Lifestyle B.V.
Address : Tussendiepen 4, 9206 AD Drachten, The Nertherlands

Date of Receipt : Jan. 18, 2018
Test Date : Jan. 18, 2018 ~ Mar. 14, 2018
Issued Date : Dec. 03, 2021
Report No. : 21A0342R-RF-US-P06V01
Report Version : V1.1

This report is only referred to the item that has undergone the test.

This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is
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(Suzhou) Co., Ltd.

Test Report Certification

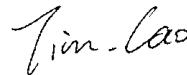
Issued Date : Dec. 03, 2021

Report No. : 21A0342R-RF-US-P06V01




Product Name : Connected Sleep & Wake-up light
Applicant : Philips Consumer Lifestyle B.V.
Address : Tussendiepen 4, 9206 AD Drachten, The Netherlands
Manufacturer : Philips Consumer Lifestyle B.V.
Address : Tussendiepen 4, 9206 AD Drachten, The Netherlands
Model No. : HF3670, HF3671, HF3672, HF3673, HF3674
FCC ID : 2APFC-HF367X
EUT Voltage : 100-240Vac, 50/60Hz, 24W
Test Voltage : AC 120V/60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C
ANSI C63.10:2013
KDB 558074 D01v04
KDB 662911 D01 Multiple Transmitter Output v02r01
Test Result : Complied
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,
Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Designation Number: CN1199

Documented By :



(Project Engineer: Tim Cao)

Approved By :



(Supervisor: Jack Zhang)

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History of This Test Report

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|-----------------------|---------|--|---------------|
| 21A0342R-RF-US-P06V01 | V1.0 | Initial Issued Report | Nov. 18, 2021 |
| 21A0342R-RF-US-P06V01 | V1.1 | Page 5: Correct the release date of V1.0. (The test report No.: 21A0342R-RF-US-P06V01 V1.1 is to replace the test report No.: 21A0342R-RF-US-P06V01 V1.0, and test report 21A0342R-RF-US-P06V01 V1.0 is obsoleted.) | Dec. 03, 2021 |
| | | | |
| | | | |

Note: This report is based on DEKRA report (Report NO.: 1812126R-RF-CA-P06V01). The customer stated that the antenna information in the original report was incorrect, and the maximum gain of antenna 2 should be 3.3dBi. After evaluation, no items need to be re-tested. This time a new adapter (new HF20) and a new DC-DC IC (IC01 add alternative EC2330) are adopted too.

1. General Information

1.1. EUT Description

| | |
|--------------------|---|
| Product Name | Connected Sleep & Wake-up light |
| Model No. | HF3670, HF3671, HF3672, HF3673, HF3674 |
| EUT Voltage | 100-240Vac, 50/60Hz, 24W |
| Frequency Range | For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz |
| Channel Number | For 2.4GHz Band 802.11b/g/n(20MHz): 11 |
| Type of Modulation | 802.11b: DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM |
| Data Rate | 802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 150 Mbps |
| Channel Control | Auto |

Note: The different model name is just the difference in the color of the appearance.

1.2. Working Frequency of Each Channel:

| 802.11b/g/n Working Frequency of Each Channel: | | | | | | | |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 01 | 2412 MHz | 02 | 2417 MHz | 03 | 2422 MHz | 04 | 2427 MHz |
| 05 | 2432 MHz | 06 | 2437 MHz | 07 | 2442 MHz | 08 | 2447 MHz |
| 09 | 2452 MHz | 10 | 2457 MHz | 11 | 2462 MHz | N/A | N/A |

1.3. Antenna information

| | | | | | | |
|----------------------|--|-----------|-------------------------------------|----------------------------|--------------------------|-----------|
| Model No. | N/A | | | | | |
| Antenna manufacturer | N/A | | | | | |
| Antenna Delivery | <input type="checkbox"/> | 1*TX+1*RX | <input checked="" type="checkbox"/> | 2*TX+2*RX | <input type="checkbox"/> | 3*TX+3*RX |
| Antenna technology | <input checked="" type="checkbox"/> | SISO | | | | |
| | <input type="checkbox"/> | MIMO | <input type="checkbox"/> | Basic | | |
| | | | <input type="checkbox"/> | CDD | | |
| | | | <input type="checkbox"/> | Sectorized | | |
| | | | <input type="checkbox"/> | Beam-forming | | |
| Antenna Type | <input checked="" type="checkbox"/> | External | <input checked="" type="checkbox"/> | Metal | | |
| | | | <input type="checkbox"/> | Sectorized | | |
| | <input checked="" type="checkbox"/> | Internal | <input type="checkbox"/> | PIFA | | |
| | | | <input checked="" type="checkbox"/> | PCB | | |
| | | | <input type="checkbox"/> | Ceramic Chip Antenna | | |
| | | | <input type="checkbox"/> | Metal plate type F antenna | | |
| Antenna Technology | Ant1: Integral PCB antenna, Max. 3,0 dBi Ant2: External antenna, Max. 3,3 dBi | | | | | |

1.4. Mode of Operation

| Test Modes List |
|------------------------------------|
| Mode 1: Transmit by 802.11b |
| Mode 2: Transmit by 802.11g |
| Mode 3: Transmit by 802.11n(20MHz) |

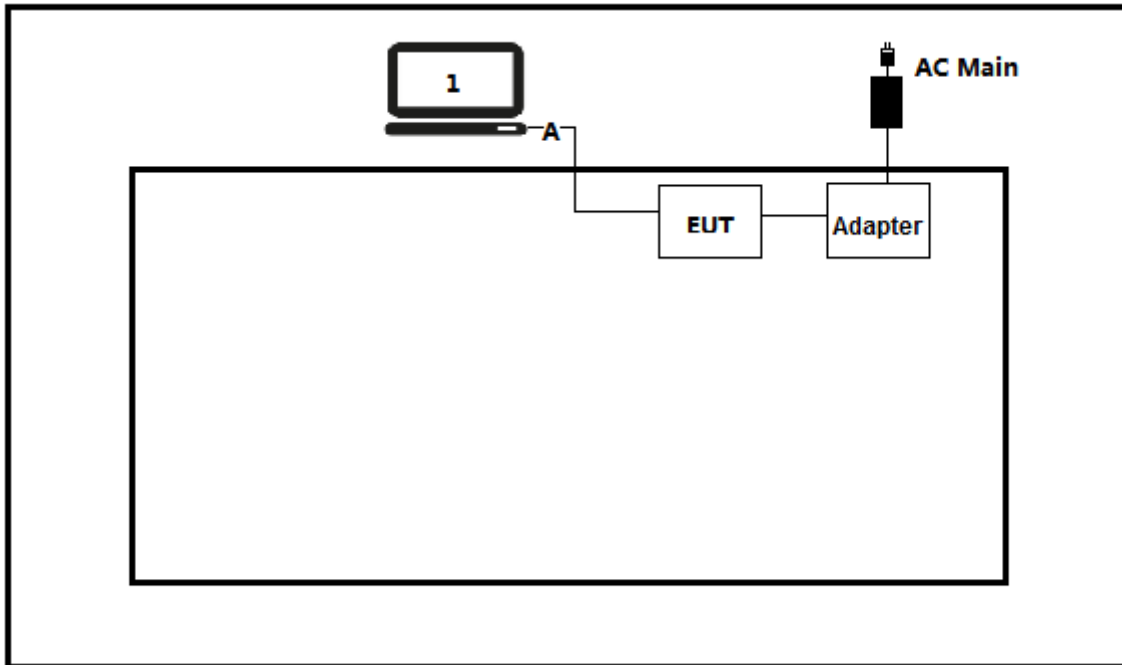
1.5. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

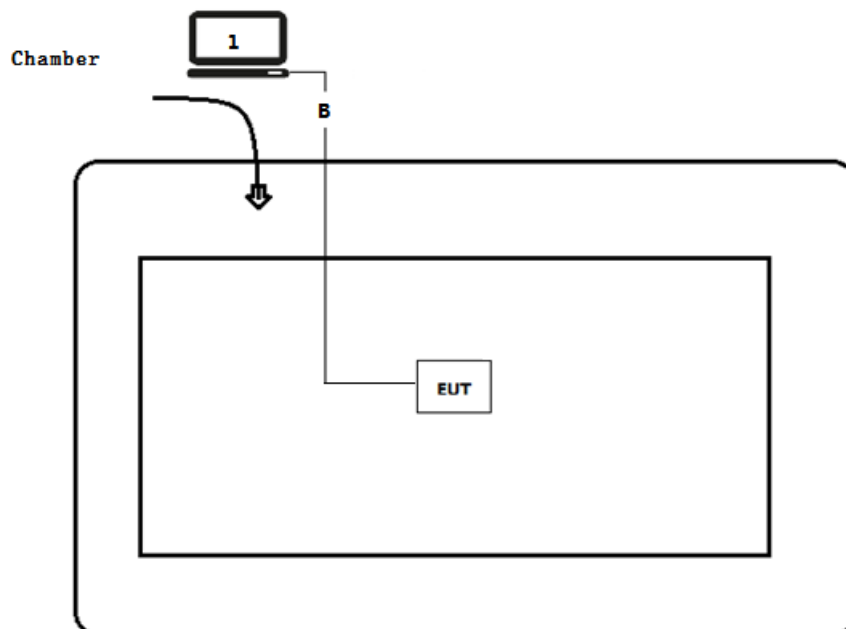
| No. | Product | Manufacturer | Model No. | Serial No. | Power Cord |
|-----|-----------|--------------|----------------|------------|----------------|
| 1 | Notebook | Lenovo | Think pad x220 | SUA0600195 | Non-shielded |
| A | USB cable | N/A | N/A | N/A | Shielded, 0.5m |
| B | USB cable | N/A | N/A | N/A | Shielded, 10m |

1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



1.7. EUT Exercise Software

| | |
|---|--|
| 1 | Setup the EUT and simulators as shown on above. |
| 2 | Turn on the power of equipment. |
| 3 | Run RF software [CMD], and set the test mode and channel, then press OK to start to continue transmit. |

2. Technical Test

2.1. Summary of Test Result

| Performed Test Item | Normative References | Limit | Result |
|---|--|--------------------------------|--------|
| AC Power Line Conducted Emission | FCC CFR Title 47 Part 15 Subpart C: Section 15.207 | FCC 15.207 | PASS |
| Emissions in restricted frequency bands | FCC CFR Title 47 Part 15 Subpart C: Section 15.209 | FCC 15.209 | PASS |
| Emissions in non-restricted frequency bands | FCC CFR Title 47 Part 15 Subpart C: Section 15.247(d) | $\geq 20\text{dBc}$ | PASS |
| Radiated Emission Band Edge | FCC CFR Title 47 Part 15 Subpart C: 15.247(d) | FCC 15.209 | PASS |
| Occupied Bandwidth | FCC CFR Title 47 Part 15 Subpart C: Section 15.247(a)(2) | $\geq 500\text{kHz}$ | PASS |
| Fundamental emission output power | FCC CFR Title 47 Part 15 Subpart C: Section 15.247(b)(3) | $\leq 30\text{dBm}$ | PASS |
| Power Spectral Density | FCC CFR Title 47 Part 15 Subpart C: Section 15.247(e) | $\leq 8\text{dBm}/3\text{kHz}$ | PASS |
| Antenna Requirement | FCC CFR Title 47 Part 15 Subpart C: Section 15.203 | FCC 15.203 | PASS |

2.2. Test Frequency configuration:

| Modulation Mode | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|------------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| 802.11b | 01 | 2412 MHz | 06 | 2437MHz | 11 | 2462MHz |
| 802.11g | 01 | 2412 MHz | 06 | 2437MHz | 11 | 2462MHz |
| 802.11n(20MHz) | 01 | 2412 MHz | 06 | 2437MHz | 11 | 2462MHz |

2.3. Power vs Data Rate

| MCS Index for 802.11n | Spatial Streams | Data Rate (Mbps) | | | | |
|-----------------------|-----------------|------------------|---------|-----|-----------------|----------|
| | | 802.11b | 802.11g | | 20MHz Bandwidth | |
| | | | | | 800ns GI | 400ns GI |
| 0 | 1 | 1 | 6 | --- | 6.5 | 7.2 |
| 1 | 1 | 2 | 9 | --- | 13.0 | 14.4 |
| 2 | 1 | 5.5 | 12 | --- | 19.5 | 21.7 |
| 3 | 1 | 11 | 18 | --- | 26.0 | 28.9 |
| 4 | 1 | --- | 24 | --- | 39.0 | 43.3 |
| 5 | 1 | --- | 36 | --- | 52.0 | 57.8 |
| 6 | 1 | --- | 48 | --- | 58.5 | 65.0 |
| 7 | 1 | --- | 54 | --- | 65.0 | 72.2 |
| 8 | 2 | --- | --- | --- | 13.0 | 14.4 |
| 9 | 2 | --- | --- | --- | 26.0 | 28.9 |
| 10 | 2 | --- | --- | --- | 39.0 | 43.3 |
| 11 | 2 | --- | --- | --- | 52.0 | 57.8 |
| 12 | 2 | --- | --- | --- | 78.0 | 86.7 |
| 13 | 2 | --- | --- | --- | 104.0 | 115.6 |
| 14 | 2 | --- | --- | --- | 117.0 | 130.0 |
| 15 | 2 | --- | --- | --- | 130.0 | 144.0 |

| Spatial Streams (Note1) | MCS Index | Modulation type | Coding rate | Data Rate(Mb/s) | |
|-------------------------|-----------|-----------------|-------------|-----------------|-------|
| | | | | 20MHz | |
| | | | | Guard Interval | |
| | | | | 800ns | 400ns |
| 1 | 0 | BPSK | 1/2 | 6.5 | 7.2 |
| | 1 | QPSK | 1/2 | 13 | 14.4 |
| | 2 | QPSK | 3/4 | 19.5 | 21.7 |
| | 3 | 16-QAM | 1/2 | 26 | 28.9 |
| | 4 | 16-QAM | 3/4 | 39 | 43.3 |
| | 5 | 64-QAM | 2/3 | 52 | 57.8 |
| | 6 | 64-QAM | 3/4 | 58.5 | 65 |
| | 7 | 64-QAM | 5/6 | 65 | 72.2 |
| | 8 | 256-QAM | 3/4 | 78 | 86.7 |
| | 9 | 256-QAM | 5/6 | N/A | N/A |
| 2 | 0 | BPSK | 1/2 | 13 | 14.4 |
| | 1 | QPSK | 1/2 | 26 | 28.8 |
| | 2 | QPSK | 3/4 | 39 | 43.4 |
| | 3 | 16-QAM | 1/2 | 52 | 57.8 |
| | 4 | 16-QAM | 3/4 | 78 | 86.6 |
| | 5 | 64-QAM | 2/3 | 104 | 115.6 |
| | 6 | 64-QAM | 3/4 | 117 | 130 |
| | 7 | 64-QAM | 5/6 | 130 | 144.4 |
| | 8 | 256-QAM | 3/4 | 156 | 173.4 |
| | 9 | 256-QAM | 5/6 | N/A | N/A |

2.4. Test Environment

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 21 |
| Humidity (%RH) | 25-75 | 50 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

2.5. Measurement Uncertainty

| Test Items | Uncertainty |
|------------------------------------|--------------------------------|
| AC Power Line Conducted Emission | $\pm 2.02\text{dB}$ |
| Radiated Emission | Below 1GHz $\pm 3.8\text{ dB}$ |
| | Above 1GHz $\pm 3.9\text{ dB}$ |
| RF Antenna Port Conducted Emission | $\pm 1.27\text{dB}$ |
| Radiated Emission Band Edge | $\pm 3.9\text{dB}$ |
| Occupied Bandwidth | $\pm 1\text{kHz}$ |
| Power Spectral Density | $\pm 1.27\text{dB}$ |

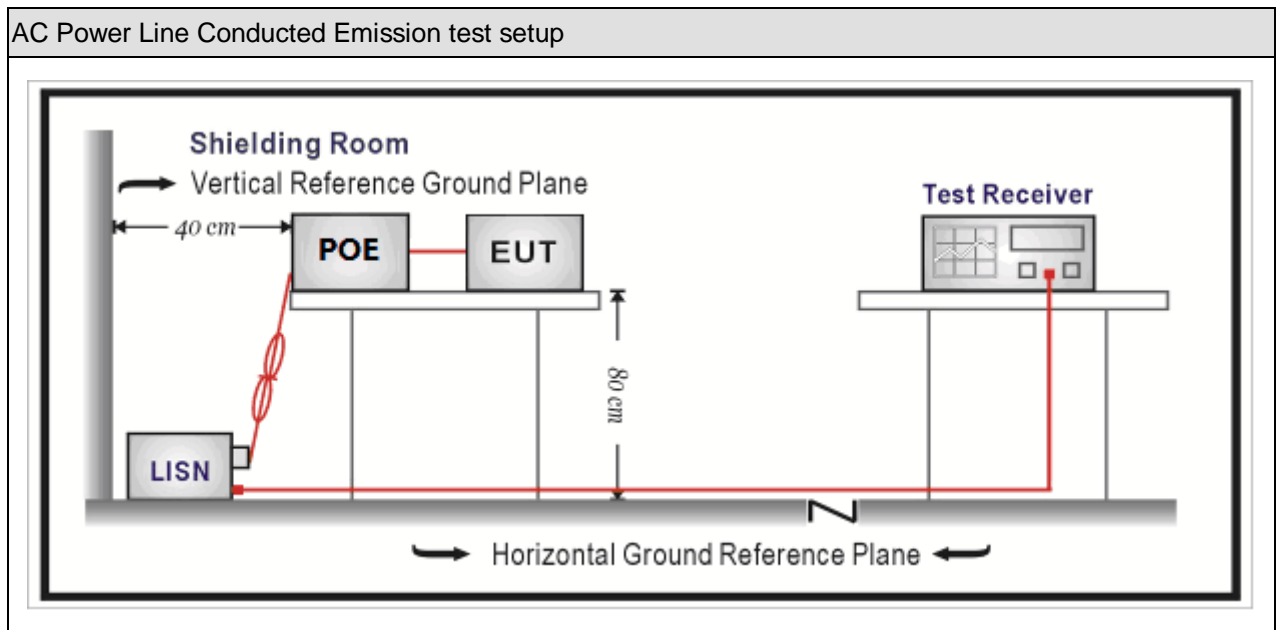
3. AC Power Line Conducted Emission

3.1. Test Equipment

| AC Power Line Conducted Emission / TR-1 | | | | | |
|---|--------------|----------|------------|------------|---------------|
| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date | Cal. Due Date |
| EMI Test Receiver | R&S | ESCI | 100726 | 2017.03.29 | 2018.03.28 |
| Two-Line V-Network | R&S | ENV216 | 100043 | 2017.03.29 | 2018.03.28 |
| Two-Line V-Network | R&S | ENV216 | 100044 | 2017.09.17 | 2018.09.16 |
| 50ohm Coaxial Switch | Anritsu | MP59B | 6200464462 | 2018.03.02 | 2019.03.01 |
| 50ohm Termination | SHX | TF2 | 07081401 | 2017.09.17 | 2018.09.16 |
| Temperature/Humidity Meter | zhichen | ZC1-2 | TR1-TH | 2018.01.04 | 2019.01.03 |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

| Frequency of Emission (MHz) | Conducted Limit | |
|--------------------------------|-------------------|---------------|
| | Quasi-peak (dBµV) | Average(dBµV) |
| 0.15-0.5 | 66 to 56 | 56 to 46 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

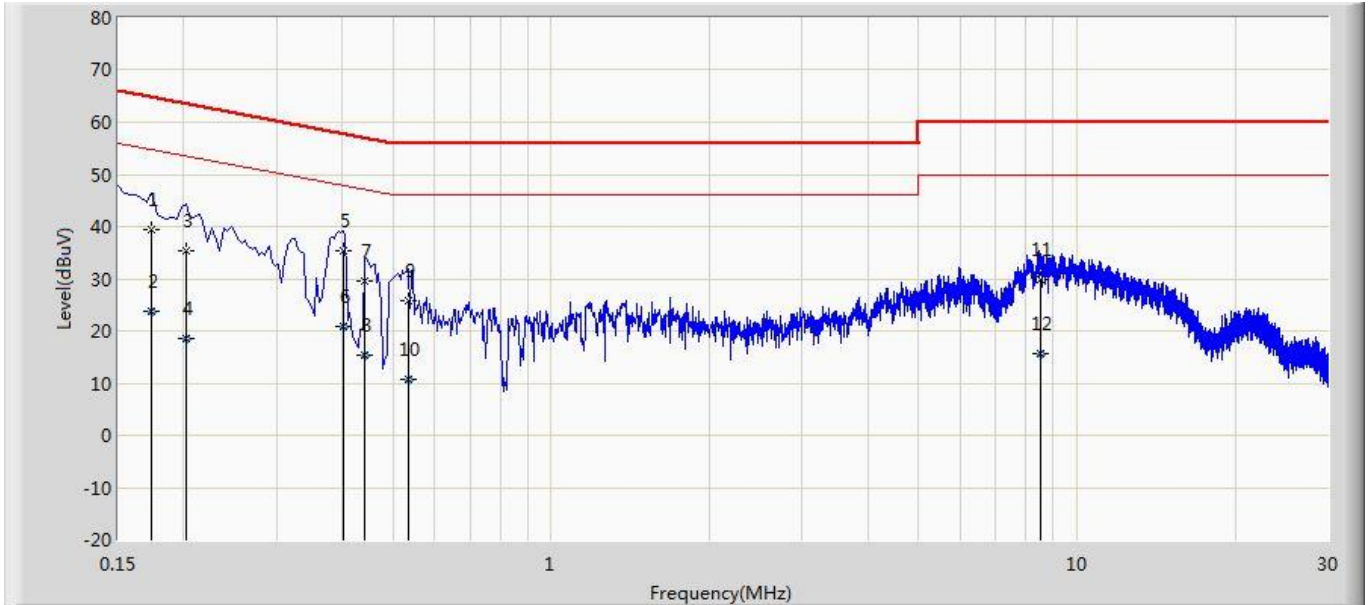
Note 1: The lower limit shall apply at the transition frequencies.
 Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

| Test Method | | | |
|-------------------------------------|------------------|---------|---|
| | References Rule | Chapter | Item |
| <input checked="" type="checkbox"/> | ANSI C63.10-2013 | 6.2 | Standard test method for ac power-line conducted emissions from unlicensed wireless devices |

3.5. Test Result

| | |
|--|---------------------|
| Engineer: CptJack | |
| Site: TR1 | Time: 2018/01/30 |
| Limit: FCC_Part15.107_CE_AC Power_ClassB | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Line |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant 1 | |

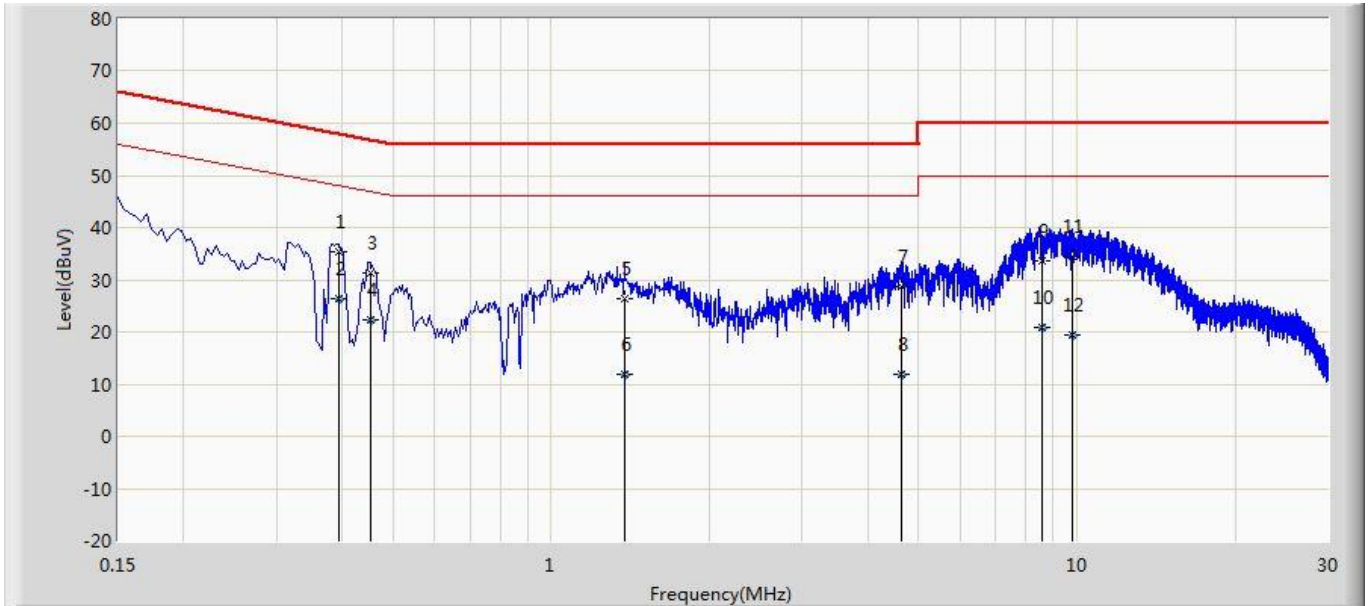


| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.174 | 39.346 | 29.713 | -25.422 | 64.767 | 9.605 | 0.027 | 0.000 | QP |
| 2 | | 0.174 | 23.647 | 14.015 | -31.120 | 54.767 | 9.605 | 0.027 | 0.000 | AV |
| 3 | | 0.202 | 35.463 | 25.833 | -28.065 | 63.528 | 9.601 | 0.029 | 0.000 | QP |
| 4 | | 0.202 | 18.690 | 9.060 | -34.838 | 53.528 | 9.601 | 0.029 | 0.000 | AV |
| 5 | * | 0.402 | 35.442 | 25.803 | -22.370 | 57.812 | 9.600 | 0.038 | 0.000 | QP |
| 6 | | 0.402 | 20.944 | 11.305 | -26.868 | 47.812 | 9.600 | 0.038 | 0.000 | AV |
| 7 | | 0.442 | 29.556 | 19.915 | -27.468 | 57.024 | 9.600 | 0.041 | 0.000 | QP |
| 8 | | 0.442 | 15.501 | 5.861 | -31.523 | 47.024 | 9.600 | 0.041 | 0.000 | AV |
| 9 | | 0.534 | 25.914 | 16.270 | -30.086 | 56.000 | 9.600 | 0.044 | 0.000 | QP |
| 10 | | 0.534 | 10.592 | 0.948 | -35.408 | 46.000 | 9.600 | 0.044 | 0.000 | AV |
| 11 | | 8.507 | 29.846 | 19.925 | -30.154 | 60.000 | 9.735 | 0.186 | 0.000 | QP |
| 12 | | 8.507 | 15.560 | 5.639 | -34.440 | 50.000 | 9.735 | 0.186 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--|---------------------|
| Engineer: CptJack | |
| Site: TR1 | Time: 2018/01/30 |
| Limit: FCC_Part15.107_CE_AC Power_ClassB | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Neutral |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant 1 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.394 | 35.223 | 25.592 | -22.756 | 57.979 | 9.593 | 0.038 | 0.000 | QP |
| 2 | * | 0.394 | 26.238 | 16.606 | -21.741 | 47.979 | 9.593 | 0.038 | 0.000 | AV |
| 3 | | 0.454 | 31.189 | 21.557 | -25.613 | 56.802 | 9.591 | 0.041 | 0.000 | QP |
| 4 | | 0.454 | 22.387 | 12.755 | -24.414 | 46.802 | 9.591 | 0.041 | 0.000 | AV |
| 5 | | 1.378 | 26.485 | 16.818 | -29.515 | 56.000 | 9.598 | 0.070 | 0.000 | QP |
| 6 | | 1.378 | 12.003 | 2.335 | -33.997 | 46.000 | 9.598 | 0.070 | 0.000 | AV |
| 7 | | 4.634 | 28.753 | 18.971 | -27.247 | 56.000 | 9.645 | 0.137 | 0.000 | QP |
| 8 | | 4.634 | 11.977 | 2.195 | -34.023 | 46.000 | 9.645 | 0.137 | 0.000 | AV |
| 9 | | 8.578 | 33.659 | 23.725 | -26.341 | 60.000 | 9.748 | 0.186 | 0.000 | QP |
| 10 | | 8.578 | 20.732 | 10.798 | -29.268 | 50.000 | 9.748 | 0.186 | 0.000 | AV |
| 11 | | 9.770 | 34.616 | 24.635 | -25.384 | 60.000 | 9.783 | 0.198 | 0.000 | QP |
| 12 | | 9.770 | 19.367 | 9.385 | -30.633 | 50.000 | 9.783 | 0.198 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4. Emissions in restricted frequency bands

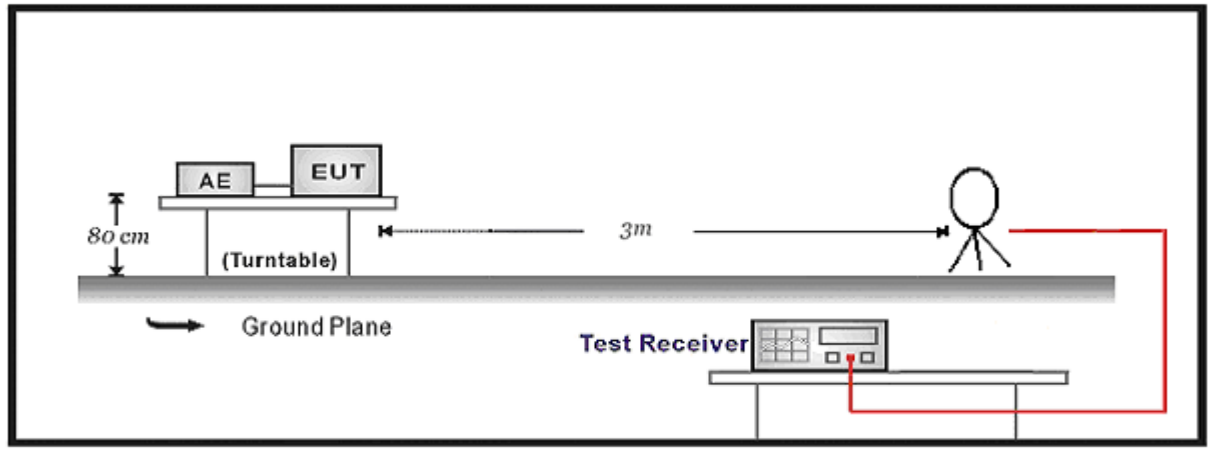
4.1. Test Equipment

| Radiated Emission(Below 1GHz) / AC-2 | | | | | |
|---|--------------|-----------------|------------|------------|---------------|
| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date | Cal. Due Date |
| EMI Test Receiver | R&S | ESCI | 100573 | 2017.03.29 | 2018.03.28 |
| Loop Antenna | R&S | HFH2-Z2 | 833799/003 | 2017.11.16 | 2018.11.15 |
| Bilog Antenna | Teseq GmbH | CBL6112D | 27611 | 2017.10.16 | 2018.10.15 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC2-C | 2018.03.02 | 2019.03.01 |
| Temperature/Humidity Meter | Zhichen | ZC1-2 | AC2-TH | 2018.01.04 | 2019.01.03 |
| Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. | | | | | |

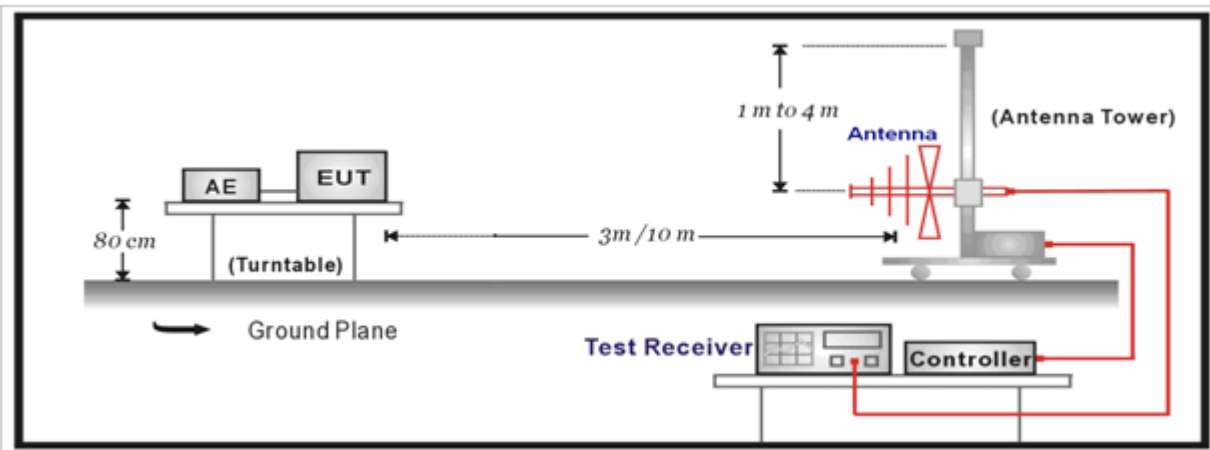
| Radiated Emission(Above 1GHz) / AC-5 | | | | | |
|---|--------------|-----------------|-------------|------------|---------------|
| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date | Cal. Due Date |
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2018.01.04 | 2019.01.03 |
| Preamplifier | Miteq | NSP1800-25 | 1364185 | 2017.05.06 | 2018.05.05 |
| Preamplifier | QuieTek | AP-040G | CHM-0906001 | 2017.05.06 | 2018.05.05 |
| DRG Horn | ETS-Lindgren | 3117 | 00123988 | 2018.01.22 | 2019.01.21 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9170 | 294 | 2017.11.25 | 2018.11.24 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C1 | 2018.03.02 | 2019.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C2 | 2018.03.02 | 2019.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | AC5-C3 | 2018.03.02 | 2019.03.01 |
| EMI Receiver | Agilent | N9038A | MY51210196 | 2017.06.10 | 2018.06.09 |
| Temperature/Humidity Meter | Zhichen | ZC1-2 | AC5-TH | 2018.01.04 | 2019.01.03 |
| Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. | | | | | |

4.2. Test Setup

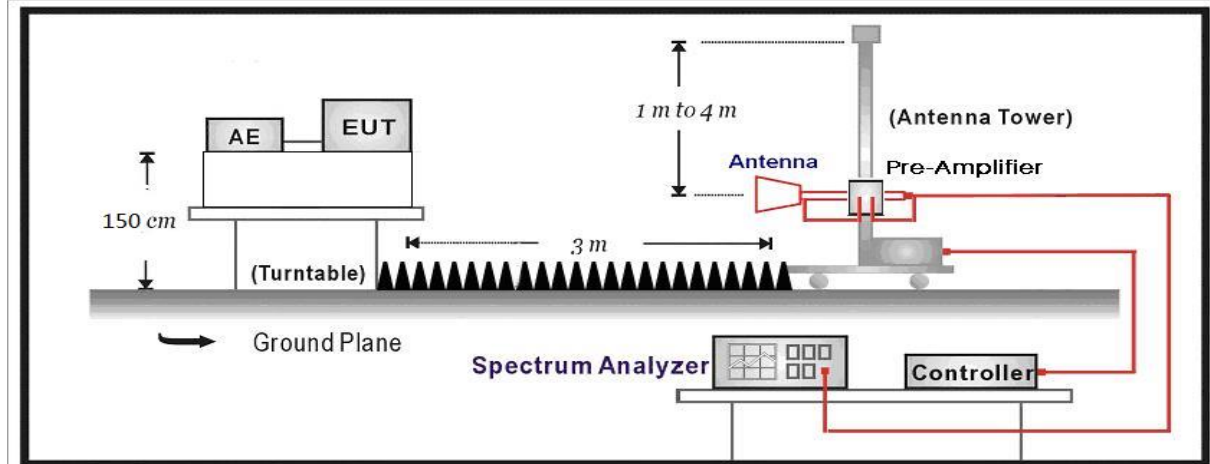
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

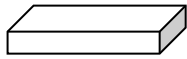
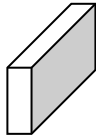
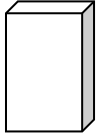

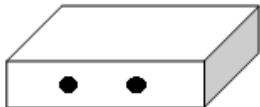

| Restricted Bands of operation | | | |
|-------------------------------|-----------------------|-----------------|-----------------|
| Frequency (MHz) | Frequency (MHz) | Frequency (MHz) | Frequency (GHz) |
| 0.090 – 0.110 | 16.42 – 16.423 | 399.9 – 410 | 4.5 – 5.15 |
| 0.495 – 0.505 | 16.69475 – 16.69525 | 608 – 614 | 5.35 – 5.46 |
| 2.1735 – 2.1905 | 16.80425 – 16.80475 | 960 – 1240 | 7.25 – 7.75 |
| 4.125 – 4.128 | 25.5 – 25.67 | 1300 – 1427 | 8.025 – 8.5 |
| 4.17725 – 4.17775 | 37.5 – 38.25 | 1435 – 1626.5 | 9.0 – 9.2 |
| 4.20725 – 4.20775 | 73 – 74.6 | 1645.5 – 1646.5 | 9.3 – 9.5 |
| 6.215 – 6.218 | 74.8 – 75.2 | 1660 – 1710 | 10.6 – 12.7 |
| 6.26775 – 6.26825 | 108 – 121.94 | 1718.8 – 1722.2 | 13.25 – 13.4 |
| 6.31175 – 6.31225 | 123 – 138 | 2200 – 2300 | 14.47 – 14.5 |
| 8.291 – 8.294 | 149.9 – 150.05 | 2310 – 2390 | 15.35 – 16.2 |
| 8.362 – 8.366 | 156.52475 – 156.52525 | 2483.5 – 2500 | 17.7 – 21.4 |
| 8.37625 – 8.38675 | 156.7 – 156.9 | 2690 – 2900 | 22.01 – 23.12 |
| 8.81425 – 8.81475 | 162.0125 – 167.17 | 3260 – 3267 | 23.6 – 24.0 |
| 12.29 – 12.293 | 167.72 – 173.2 | 3332 – 3339 | 31.2 – 31.8 |
| 12.51975–12.52025 | 240 – 285 | 3345.8 – 3358 | 36.43 – 36.5 |
| 12.57675–12.57725 | 322 – 335.4 | 3600 – 4400 | |
| 13.36 – 13.41 | | | |

| Restricted Bands of operation | | | |
|-------------------------------|-----------------------|-----------------|-----------------|
| Frequency (MHz) | Frequency (MHz) | Frequency (MHz) | Frequency (GHz) |
| 0.090 – 0.110 | 16.42 – 16.423 | 399.9 – 410 | 4.5 – 5.15 |
| 0.495 – 0.505 | 16.69475 – 16.69525 | 608 – 614 | 5.35 – 5.46 |
| 2.1735 – 2.1905 | 16.80425 – 16.80475 | 960 – 1240 | 7.25 – 7.75 |
| 4.125 – 4.128 | 25.5 – 25.67 | 1300 – 1427 | 8.025 – 8.5 |
| 4.17725 – 4.17775 | 37.5 – 38.25 | 1435 – 1626.5 | 9.0 – 9.2 |
| 4.20725 – 4.20775 | 73 – 74.6 | 1645.5 – 1646.5 | 9.3 – 9.5 |
| 6.215 – 6.218 | 74.8 – 75.2 | 1660 – 1710 | 10.6 – 12.7 |
| 6.26775 – 6.26825 | 108 – 121.94 | 1718.8 – 1722.2 | 13.25 – 13.4 |
| 6.31175 – 6.31225 | 123 – 138 | 2200 – 2300 | 14.47 – 14.5 |
| 8.291 – 8.294 | 149.9 – 150.05 | 2310 – 2390 | 15.35 – 16.2 |
| 8.362 – 8.366 | 156.52475 – 156.52525 | 2483.5 – 2500 | 17.7 – 21.4 |
| 8.37625 – 8.38675 | 156.7 – 156.9 | 2690 – 2900 | 22.01 – 23.12 |
| 8.81425 – 8.81475 | 162.0125 – 167.17 | 3260 – 3267 | 23.6 – 24.0 |
| 12.29 – 12.293 | 167.72 – 173.2 | 3332 – 3339 | 31.2 – 31.8 |
| 12.51975 – 12.52025 | 240 – 285 | 3345.8 – 3358 | 36.43 – 36.5 |
| 12.57675 – 12.57725 | 322 – 335.4 | 3600 – 4400 | |
| 13.36 – 13.41 | | | |

4.4. Test Procedure

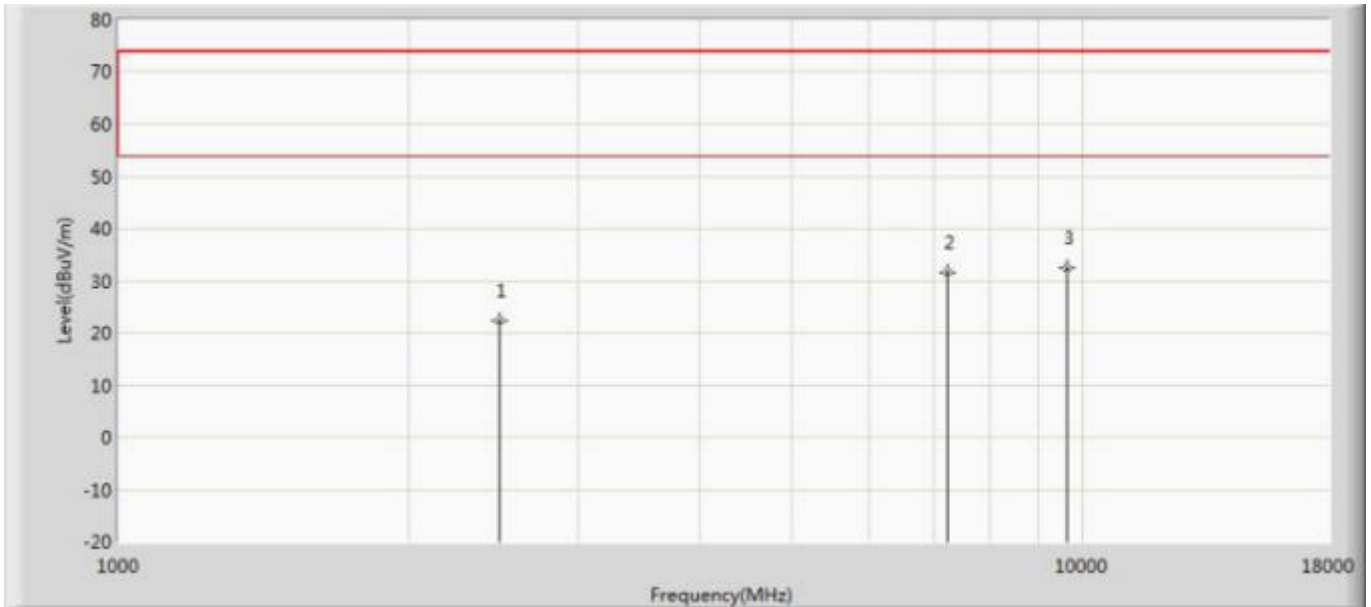
| Test Method | | | |
|-------------------------------------|---|-------------|--|
| | References Rule | Chapter | Description |
| <input type="checkbox"/> | ANSI C63.10 | 11.11 | Emissions in non-restricted frequency bands |
| | <input type="checkbox"/> ANSI C63.10 | 11.11.2 | Reference level measurement |
| | <input type="checkbox"/> ANSI C63.10 | 11.11.3 | Emission level measurement |
| <input checked="" type="checkbox"/> | ANSI C63.10 | 11.12 | Emissions in restricted frequency bands |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 11.12.1 | Radiated emission measurements |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 11.12.2.7 | Radiated spurious emission test |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 6.4 | Radiated emissions from unlicensed wireless devices below 30 MHz |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 6.5 | Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 6.6 | Radiated emissions from unlicensed wireless devices above 1 GHz |
| <input type="checkbox"/> | ANSI C63.10 | 11.12.2 | Antenna-port conducted measurements |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.3 | Quasi-peak measurement procedure |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.4 | Peak power measurement procedure |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5 | Average power measurement procedures |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.1 | Trace averaging with continuous EUT transmission at full power |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.2 | Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.3 | Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold |

4.5. EUT test Axis definition

| Item | Emissions in restricted frequency bands | | | |
|-----------------|--|--|---|---|
| Device Category | <input type="checkbox"/> | Fixed point-to-point | | |
| | <input type="checkbox"/> | Emit multiple directional beams, simultaneously or sequentially | | |
| | <input checked="" type="checkbox"/> | Other cases | | |
| Test mode | Mode 1~3 | | | |
| Test method | <input checked="" type="checkbox"/> | Radiated | | |
| | | X Axis | Y Axis | Z Axis |
| | |  |  |  |
| | | Worst Axis <input checked="" type="checkbox"/> | Worst Axis <input type="checkbox"/> | Worst Axis <input type="checkbox"/> |
| | <input type="checkbox"/> | Conducted | | |
| | <input type="checkbox"/> | Chain 1 | | |
| | |  | | |
| | <input type="checkbox"/> | Chain 1 | Chain 2 | |
| | |  | | |
| | <input type="checkbox"/> | Chain 1 | Chain 2 | Chain 3 |
| |  | | | |

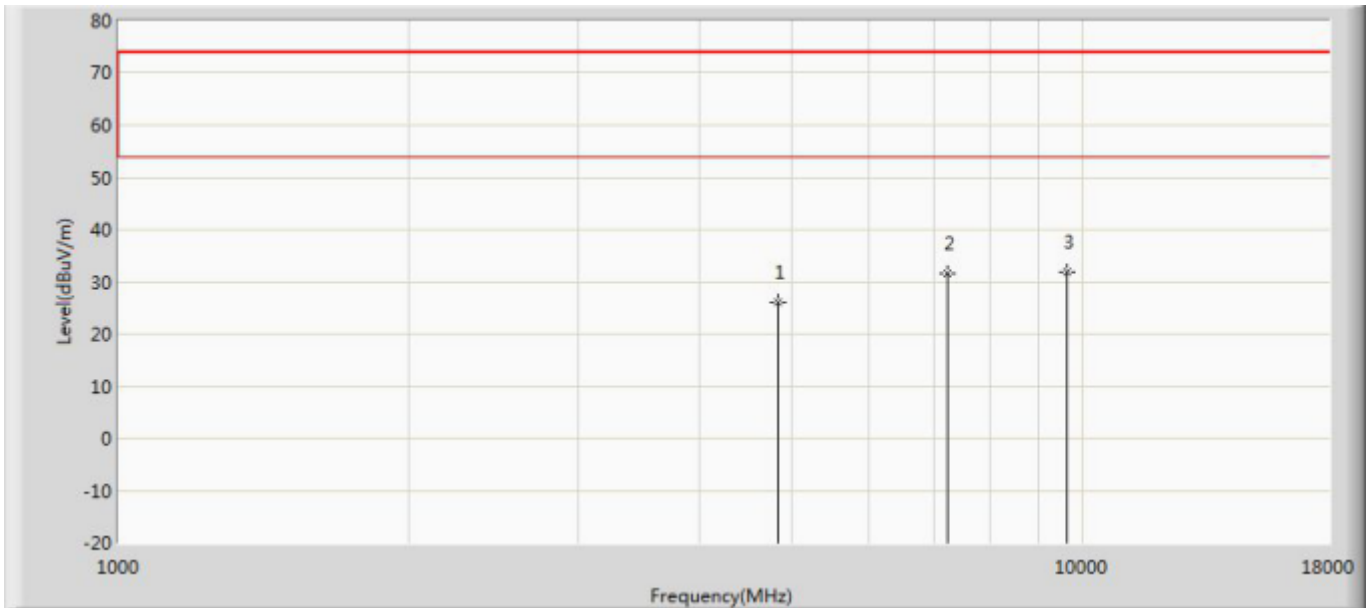
4.6. Test Result

| | |
|--|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:09 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant 1 | |



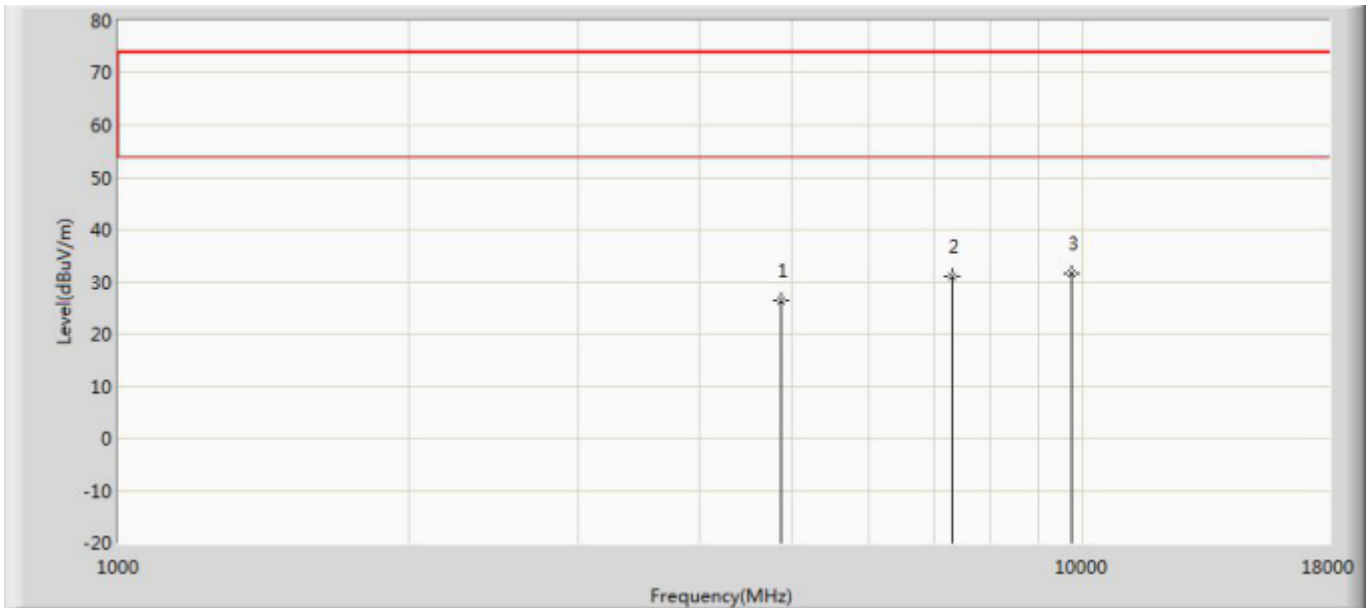
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2482.000 | 22.366 | 27.624 | -51.634 | 74.000 | -5.257 | PK |
| 2 | | 7236.000 | 31.689 | 28.281 | -42.311 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 32.593 | 27.597 | -41.407 | 74.000 | 4.996 | PK |

| | |
|--|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:09 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant 1 | |



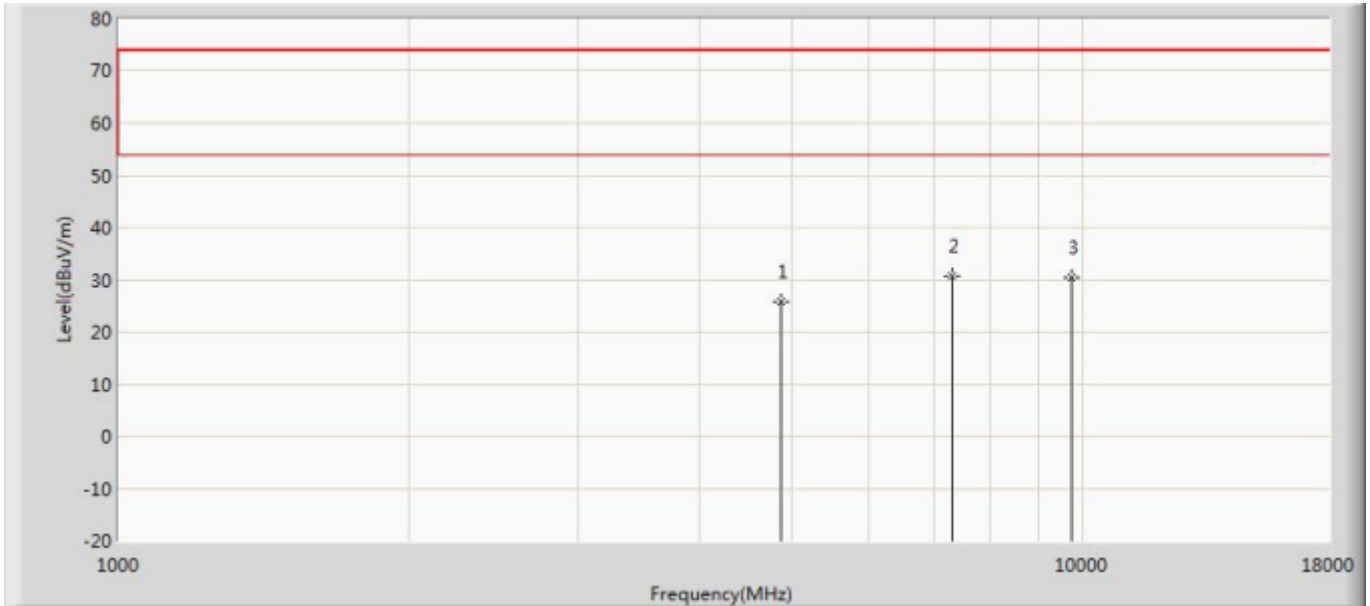
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 26.011 | 26.517 | -47.989 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 31.516 | 28.108 | -42.484 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.951 | 26.955 | -42.049 | 74.000 | 4.996 | PK |

| | |
|--|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2437MHz by 802.11b with Ant 1 | |



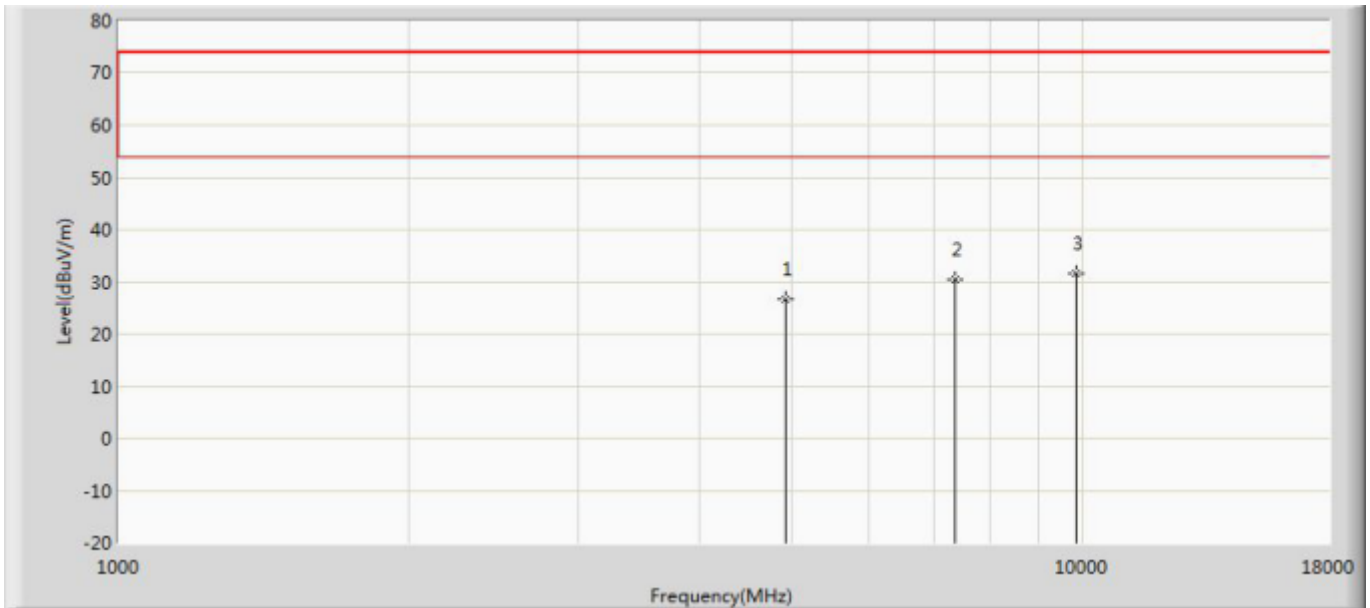
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 26.309 | 26.751 | -47.691 | 74.000 | -0.442 | PK |
| 2 | | 7311.000 | 30.931 | 27.059 | -43.069 | 74.000 | 3.872 | PK |
| 3 | * | 9748.000 | 31.669 | 26.668 | -42.331 | 74.000 | 5.002 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2437MHz by 802.11b with Ant1 | |



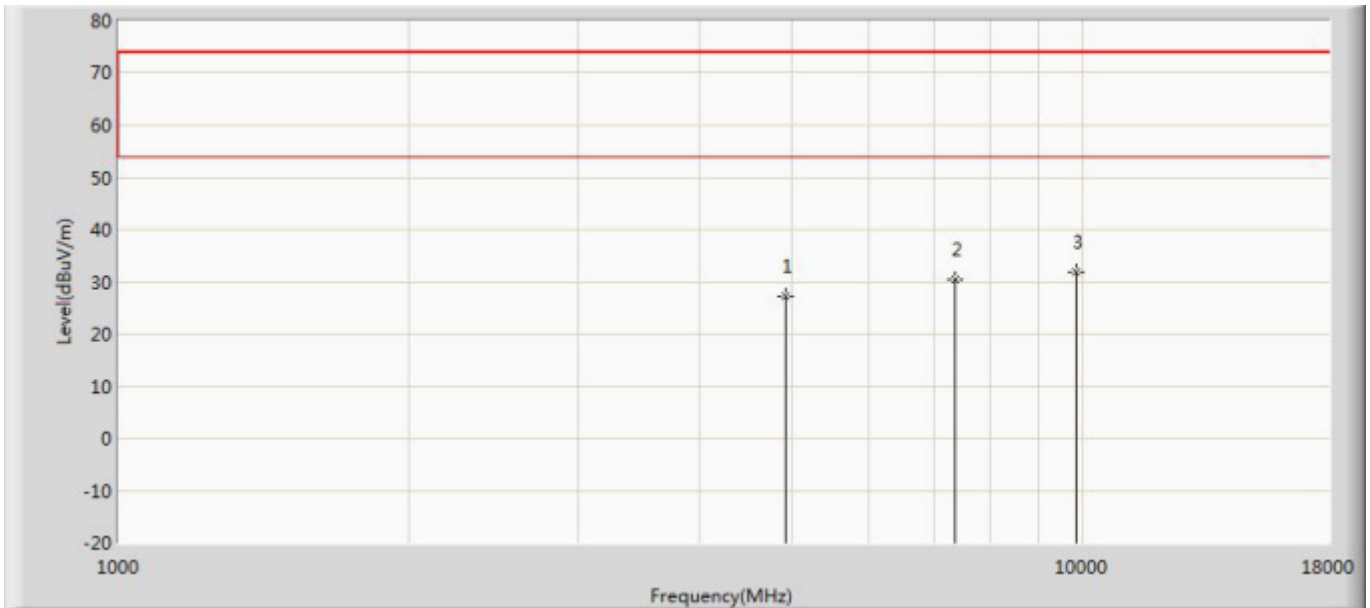
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 25.857 | 26.299 | -48.143 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 30.768 | 26.896 | -43.232 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.425 | 25.424 | -43.575 | 74.000 | 5.002 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2462MHz by 802.11b with Ant1 | |



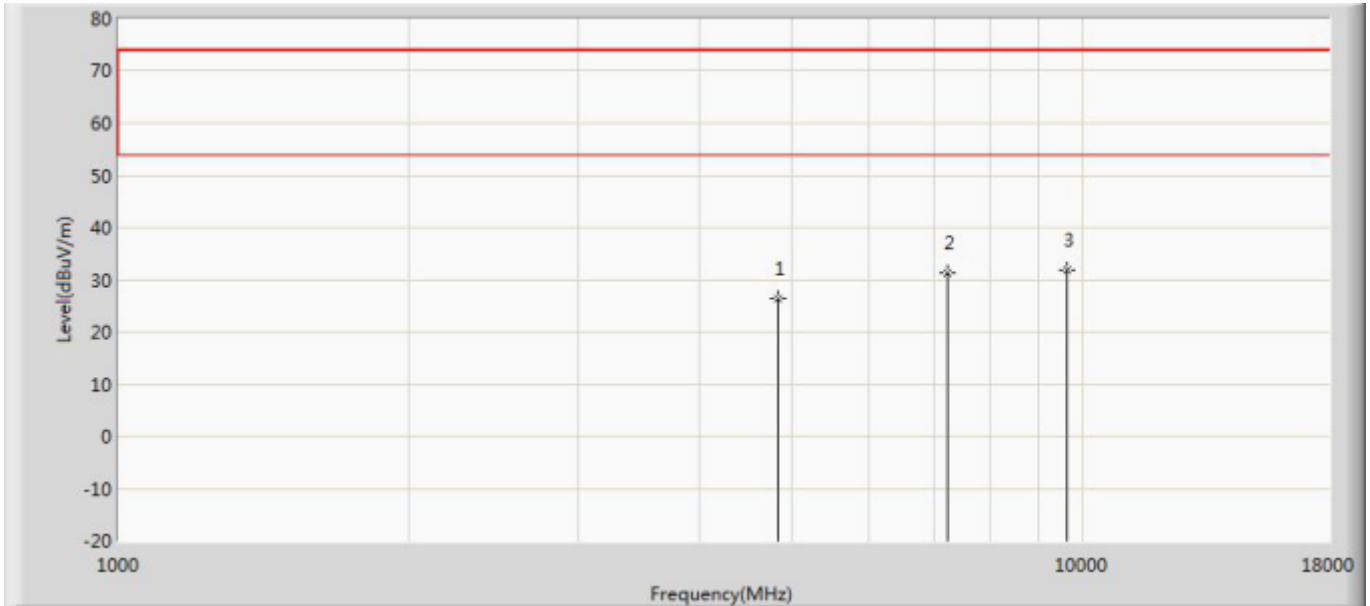
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 26.597 | 26.492 | -47.403 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.394 | 27.220 | -43.606 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 31.727 | 25.738 | -42.273 | 74.000 | 5.989 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2462MHz by 802.11b with Ant1 | |



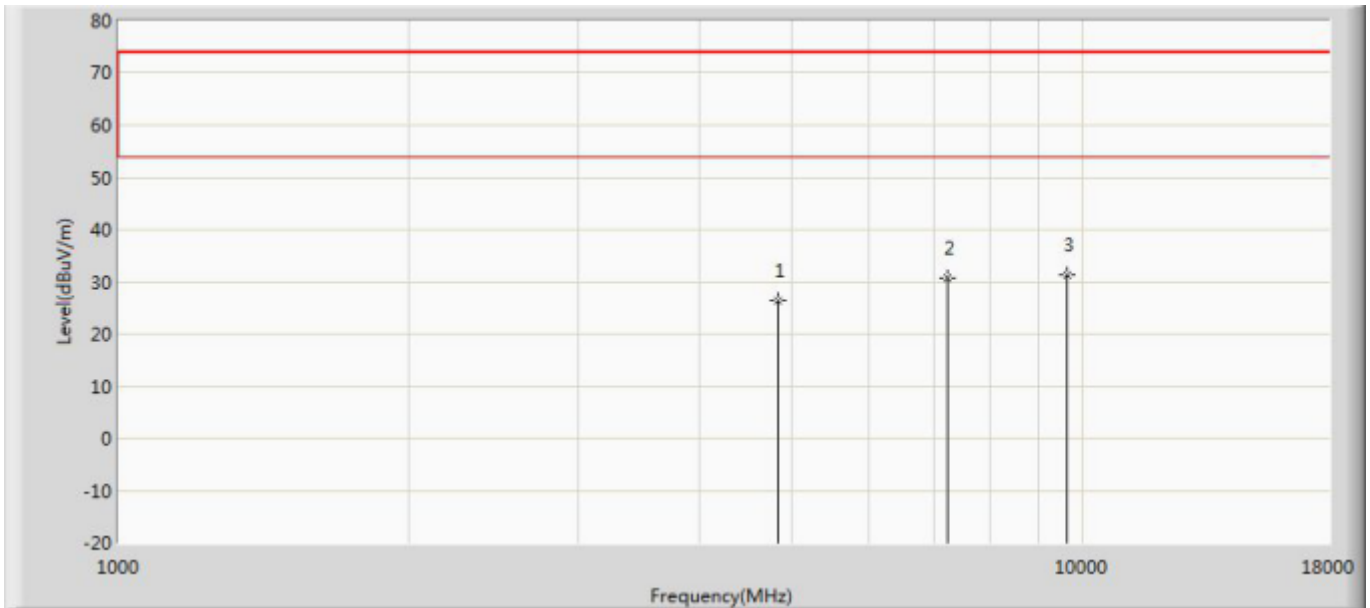
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 27.191 | 27.086 | -46.809 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.361 | 27.187 | -43.639 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 31.946 | 25.957 | -42.054 | 74.000 | 5.989 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz by 802.11g with Ant1 | |



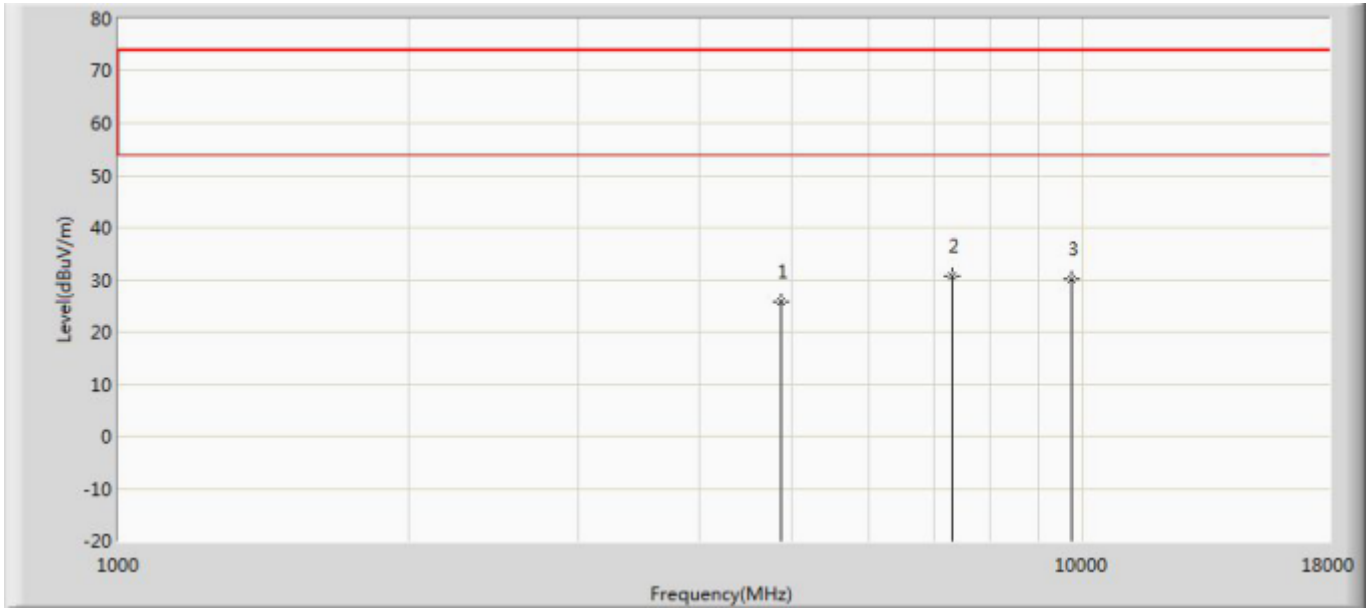
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 26.251 | 26.757 | -47.749 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 31.244 | 27.836 | -42.756 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.888 | 26.892 | -42.112 | 74.000 | 4.996 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz by 802.11g with Ant1 | |



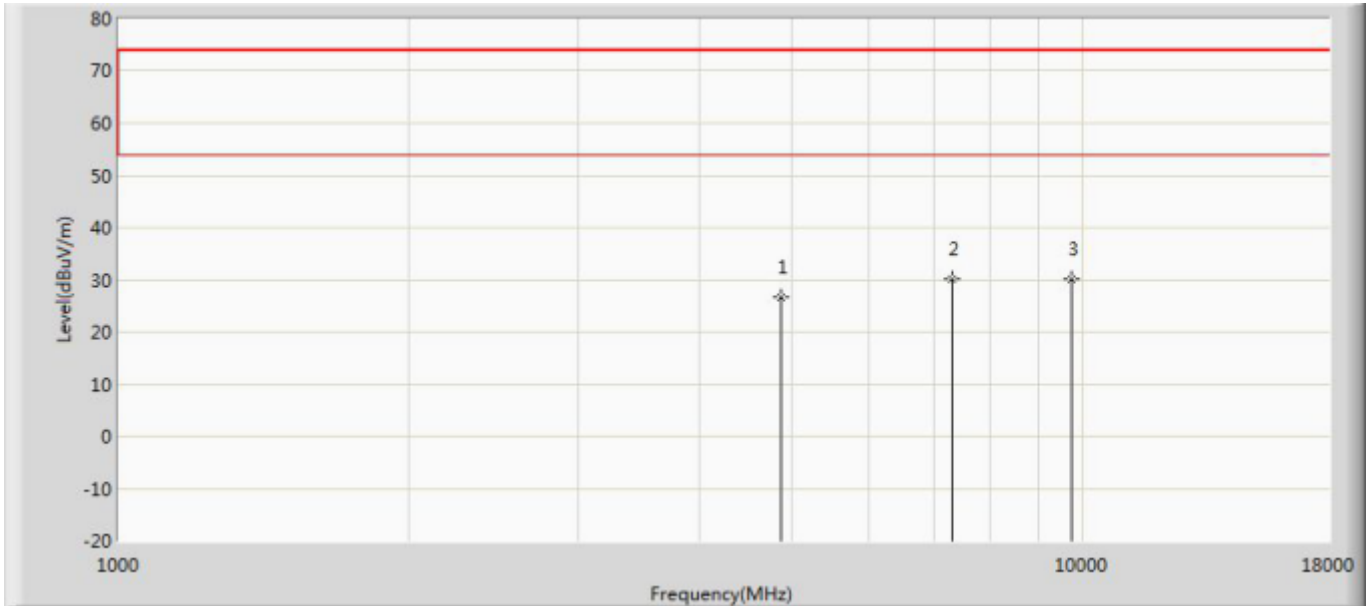
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 26.236 | 26.742 | -47.764 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 30.628 | 27.220 | -43.372 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.233 | 26.237 | -42.767 | 74.000 | 4.996 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2437MHz by 802.11g with Ant1 | |



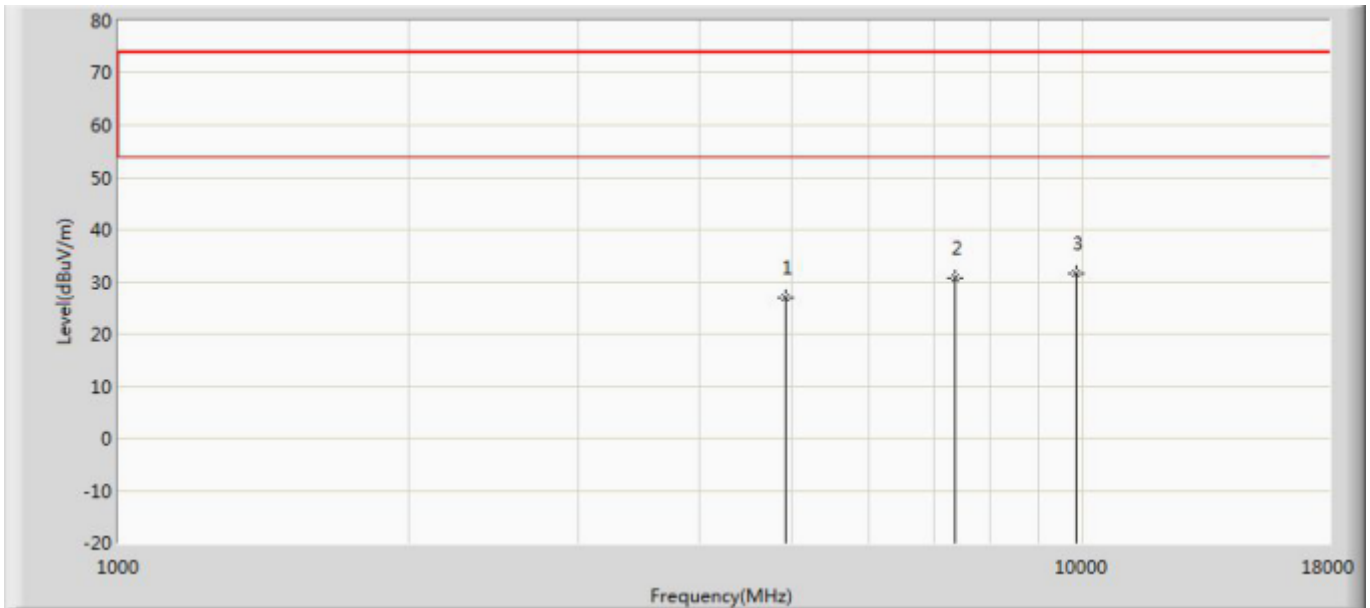
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 25.921 | 26.363 | -48.079 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 30.611 | 26.739 | -43.389 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.034 | 25.033 | -43.966 | 74.000 | 5.002 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2437MHz by 802.11g with Ant1 | |



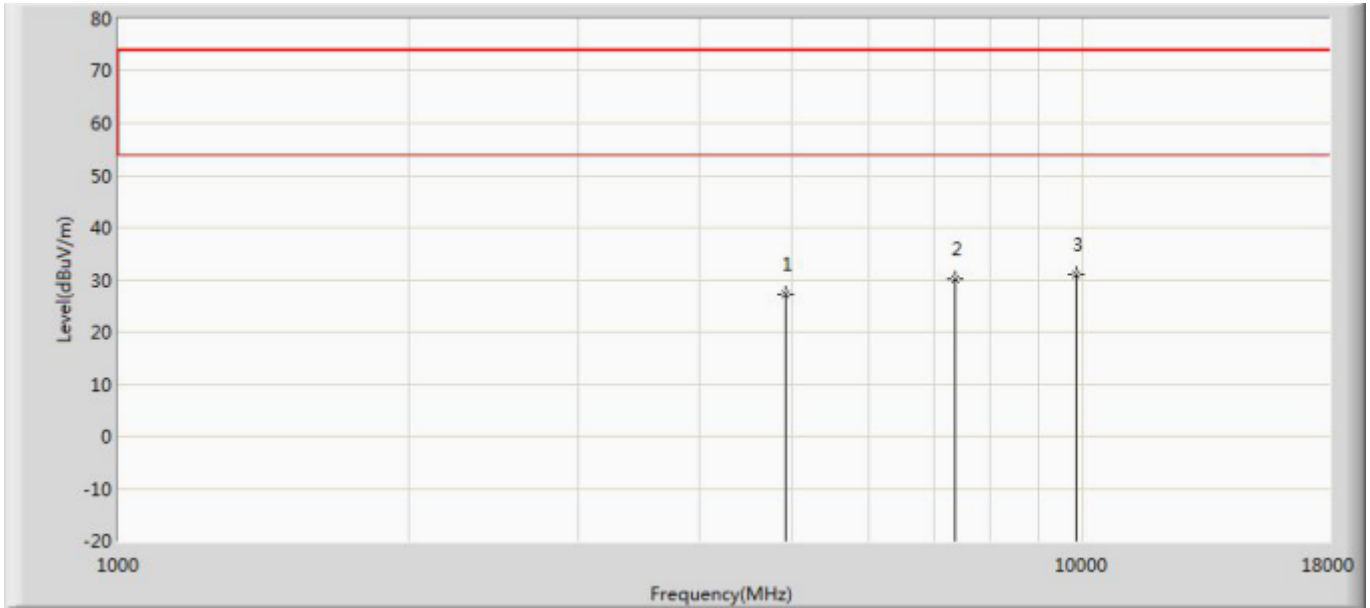
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 26.689 | 27.131 | -47.311 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 30.276 | 26.404 | -43.724 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.271 | 25.270 | -43.729 | 74.000 | 5.002 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2462MHz by 802.11g with Ant1 | |



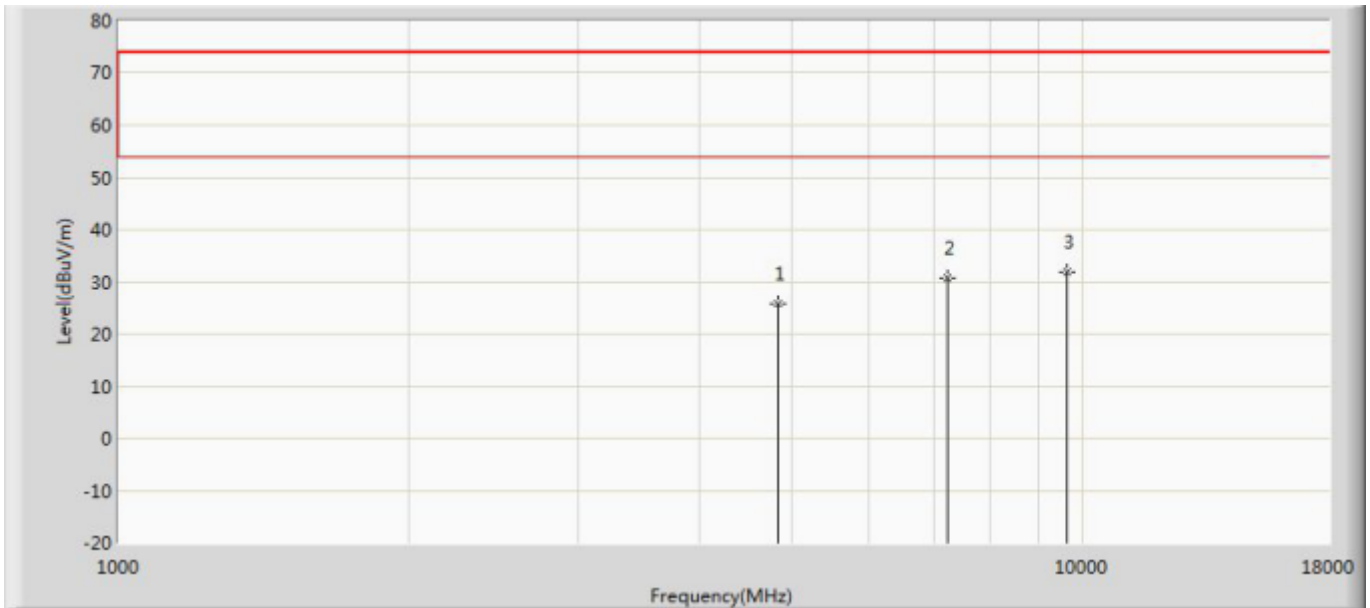
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 26.974 | 26.869 | -47.026 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.710 | 27.536 | -43.290 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 31.584 | 25.595 | -42.416 | 74.000 | 5.989 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2462MHz by 802.11g with Ant1 | |



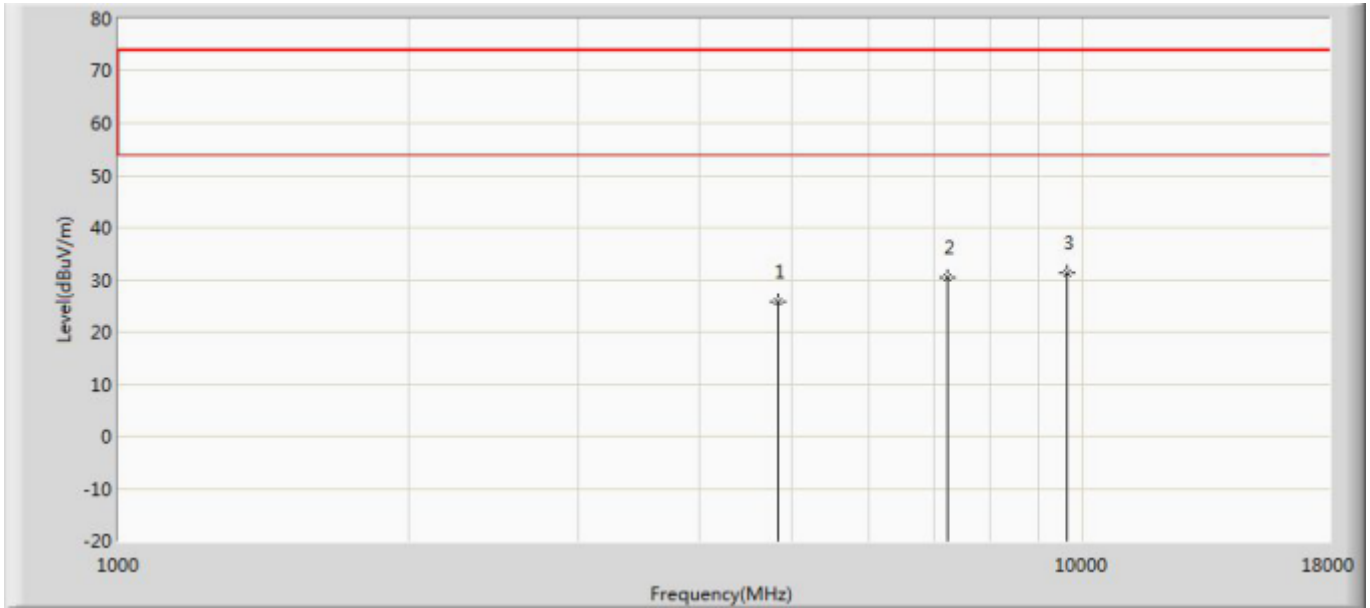
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 27.222 | 27.117 | -46.778 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.257 | 27.083 | -43.743 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 31.130 | 25.141 | -42.870 | 74.000 | 5.989 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 with Ant1 | |



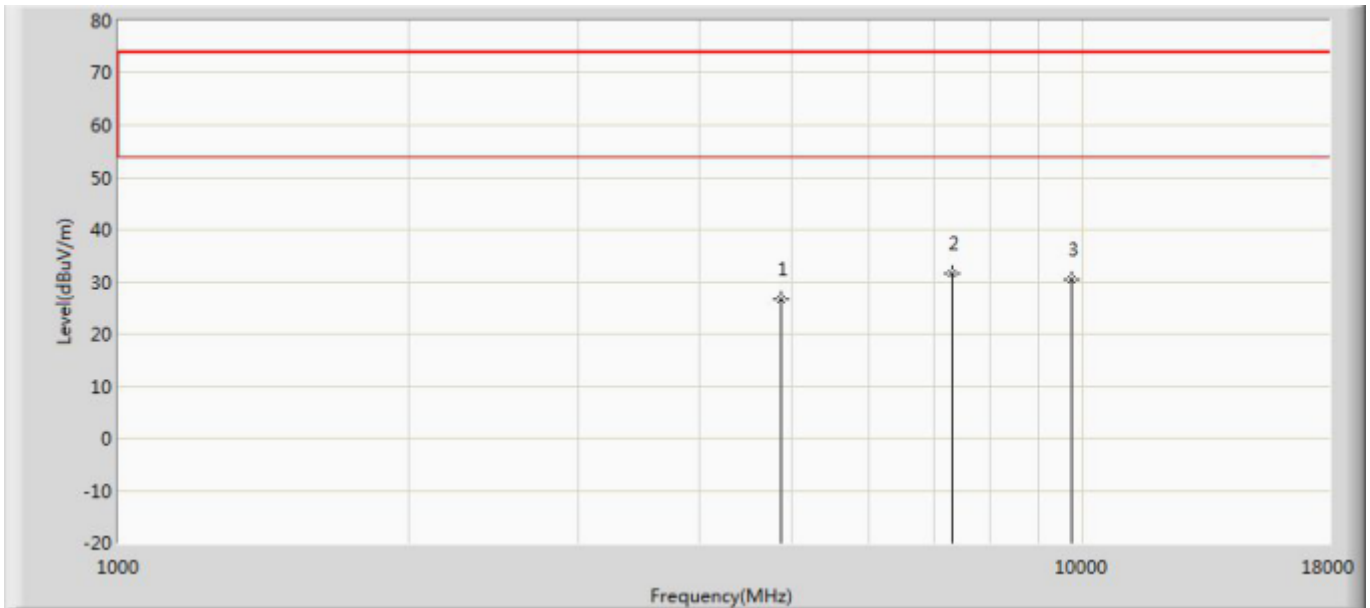
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 25.812 | 26.318 | -48.188 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 30.722 | 27.314 | -43.278 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.766 | 26.770 | -42.234 | 74.000 | 4.996 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 with Ant1 | |



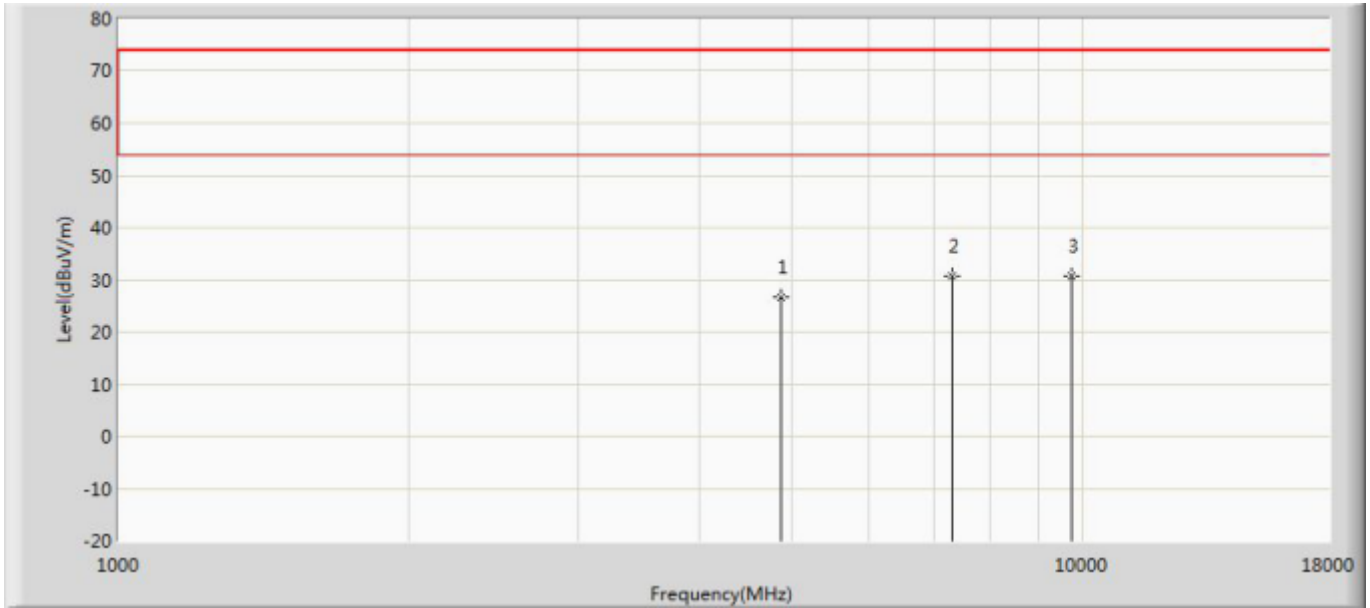
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 25.797 | 26.303 | -48.203 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 30.499 | 27.091 | -43.501 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.189 | 26.193 | -42.811 | 74.000 | 4.996 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2437MHz by 802.11n20 with Ant1 | |



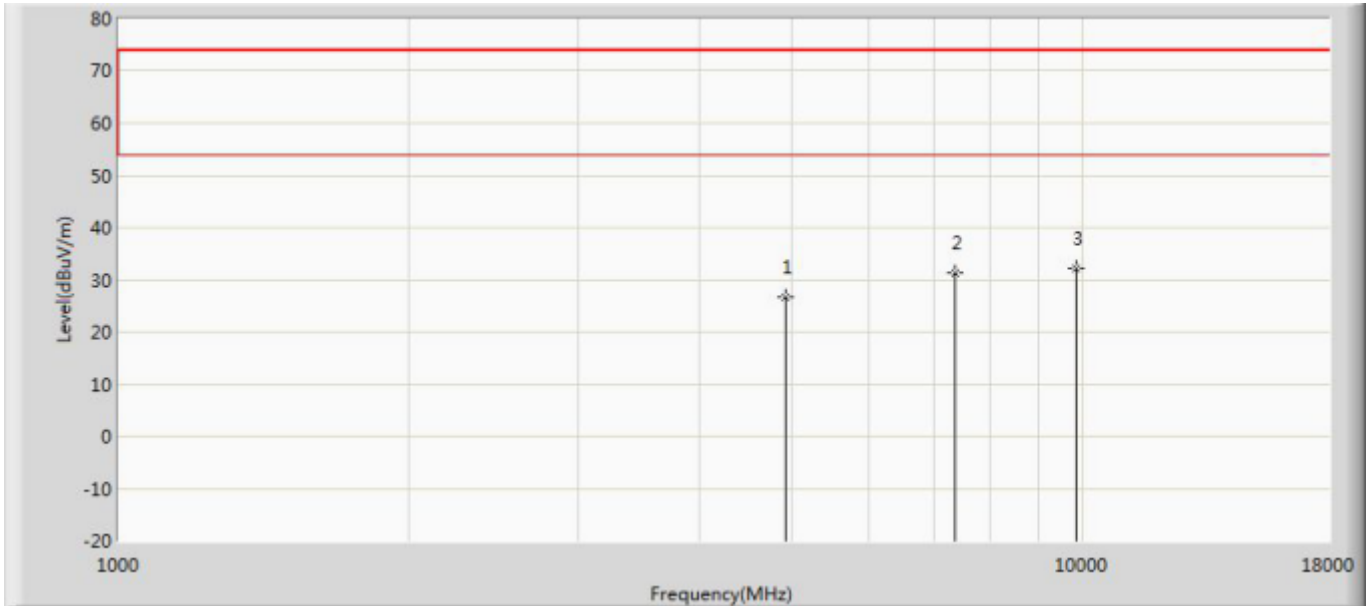
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 26.727 | 27.169 | -47.273 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 31.490 | 27.618 | -42.510 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.569 | 25.568 | -43.431 | 74.000 | 5.002 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2437MHz by 802.11n20 with Ant1 | |



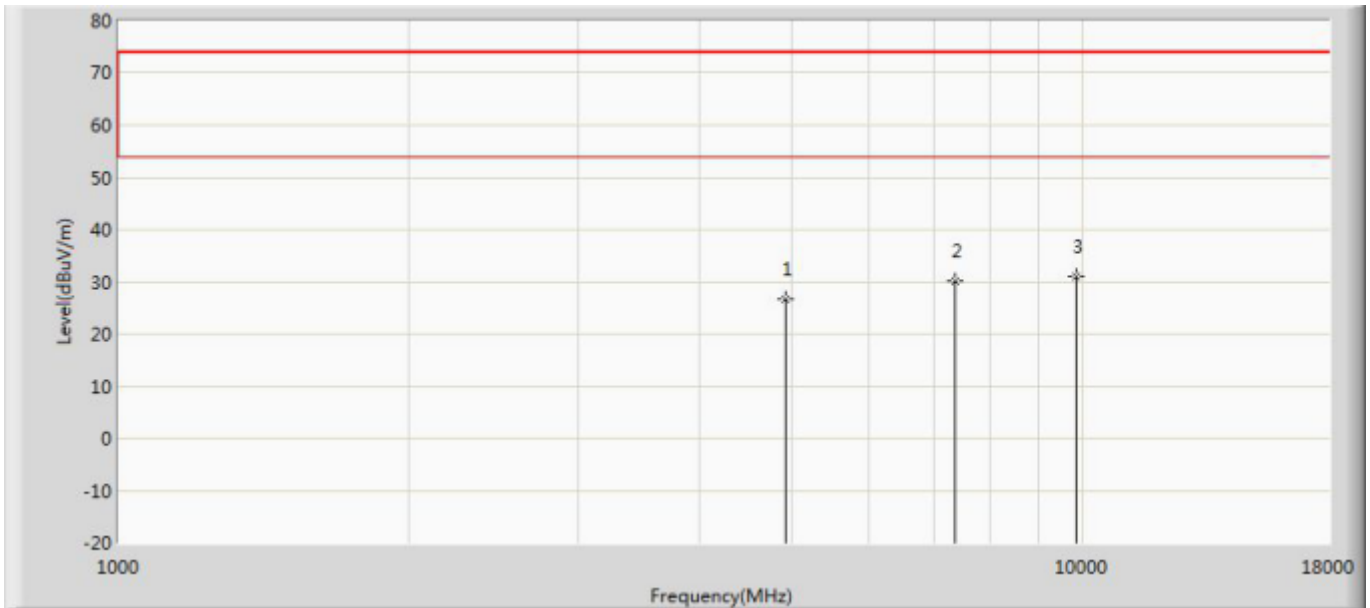
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 26.632 | 27.074 | -47.368 | 74.000 | -0.442 | PK |
| 2 | | 7311.000 | 30.592 | 26.720 | -43.408 | 74.000 | 3.872 | PK |
| 3 | * | 9748.000 | 30.625 | 25.624 | -43.375 | 74.000 | 5.002 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 with Ant1 | |



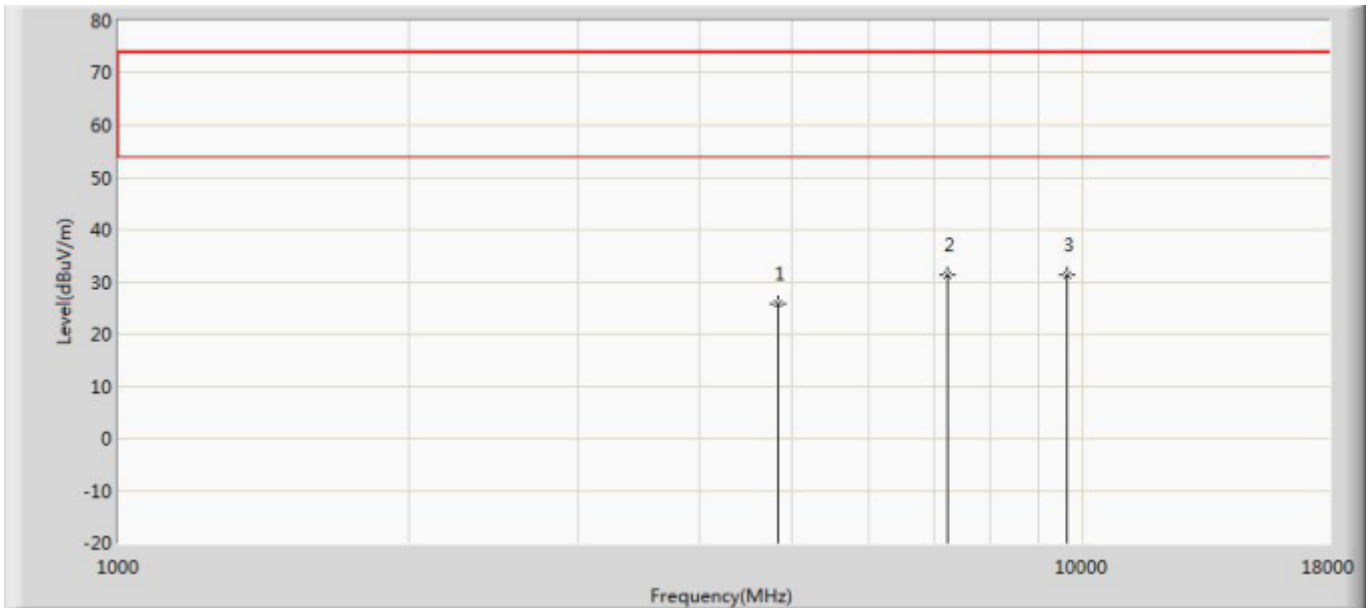
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 26.659 | 26.554 | -47.341 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 31.417 | 28.243 | -42.583 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 32.116 | 26.127 | -41.884 | 74.000 | 5.989 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 with Ant1 | |



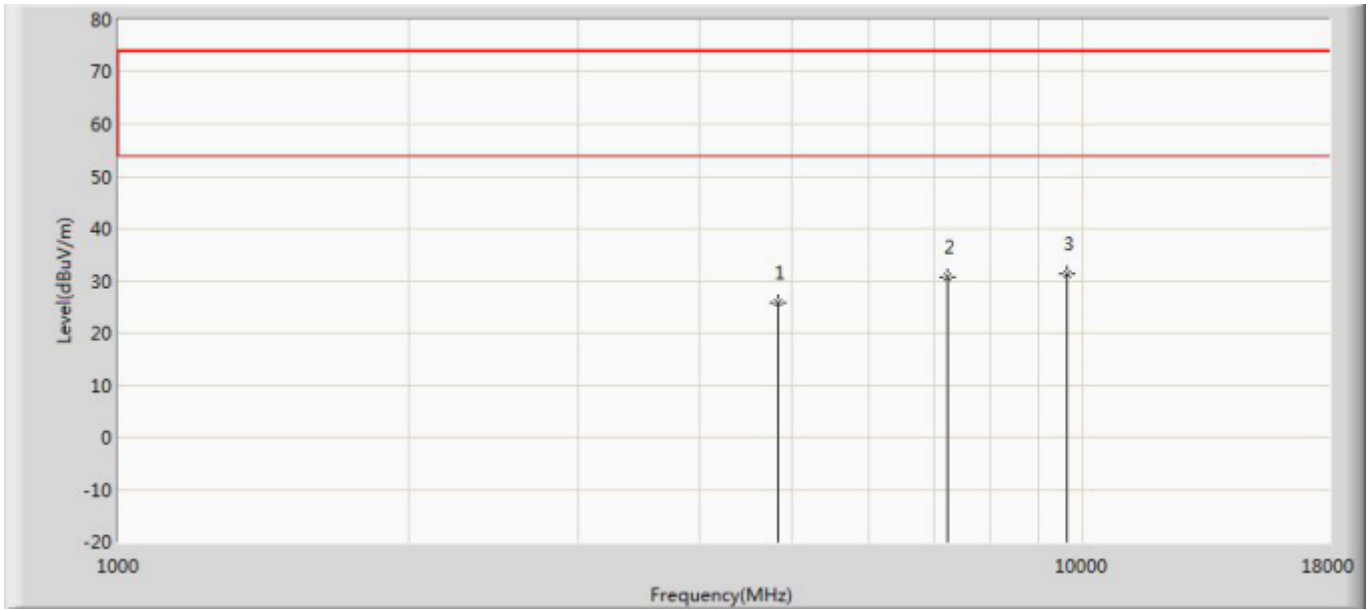
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 26.770 | 26.665 | -47.230 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.054 | 26.880 | -43.946 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 31.146 | 25.157 | -42.854 | 74.000 | 5.989 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant2 | |



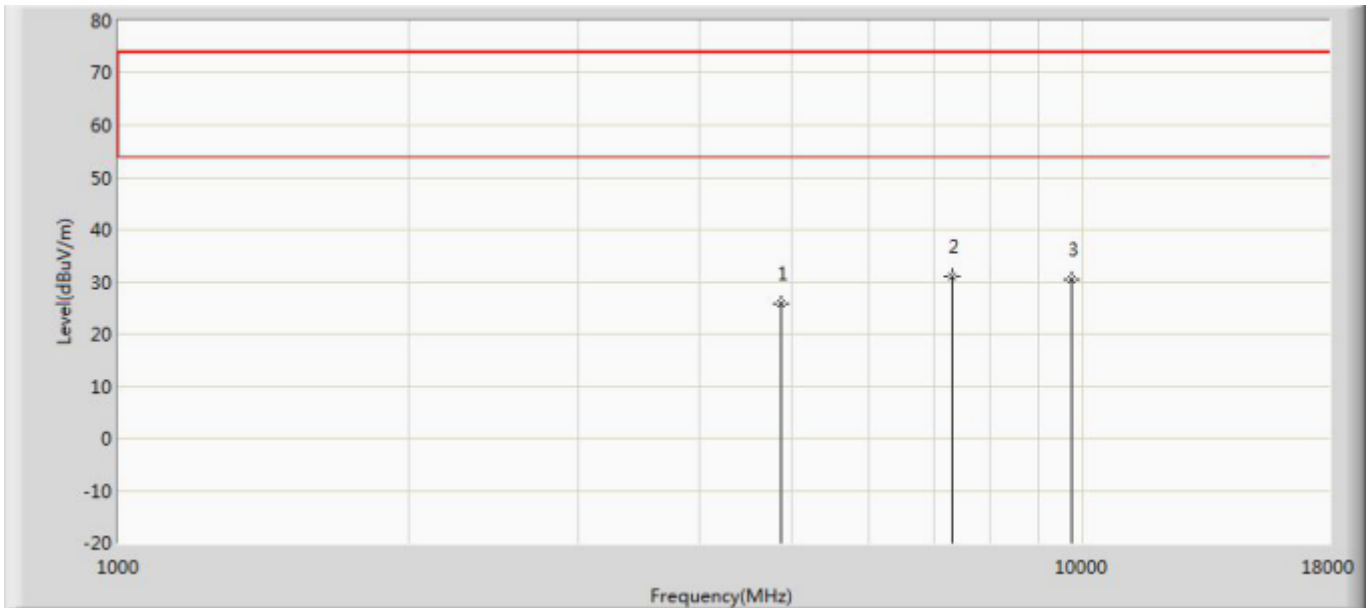
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 25.800 | 26.306 | -48.200 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 31.331 | 27.923 | -42.669 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.427 | 26.431 | -42.573 | 74.000 | 4.996 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant2 | |



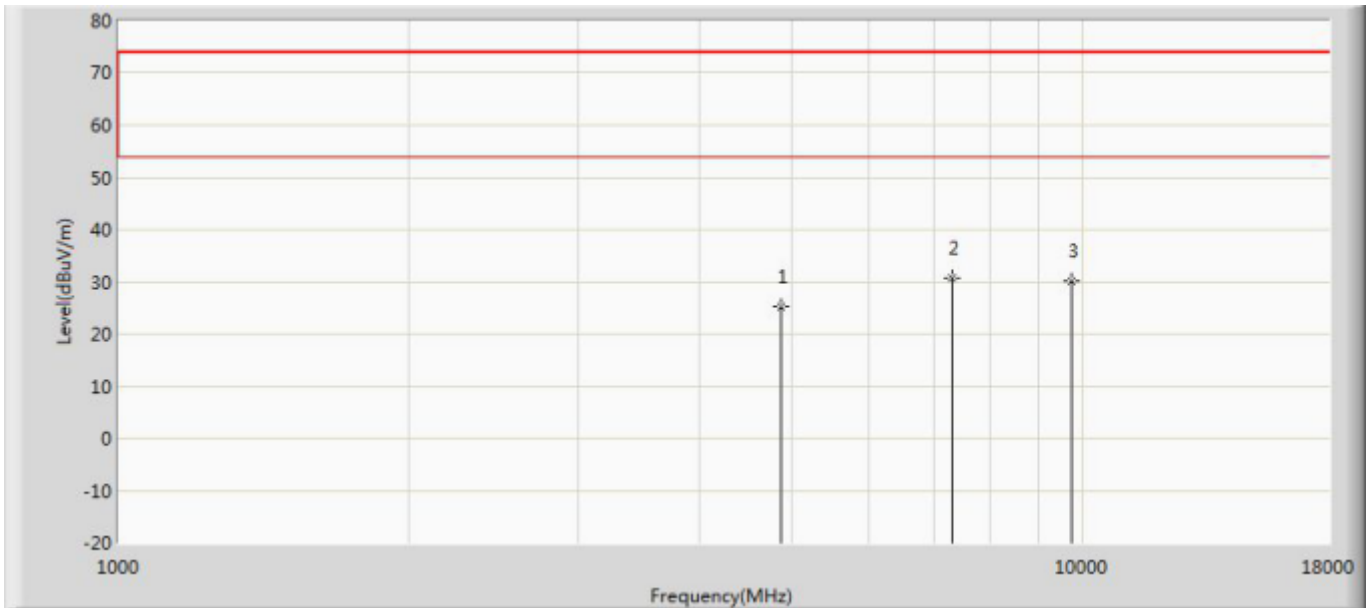
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 25.810 | 26.316 | -48.190 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 30.813 | 27.405 | -43.187 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.377 | 26.381 | -42.623 | 74.000 | 4.996 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2437MHz by 802.11b with Ant2 | |



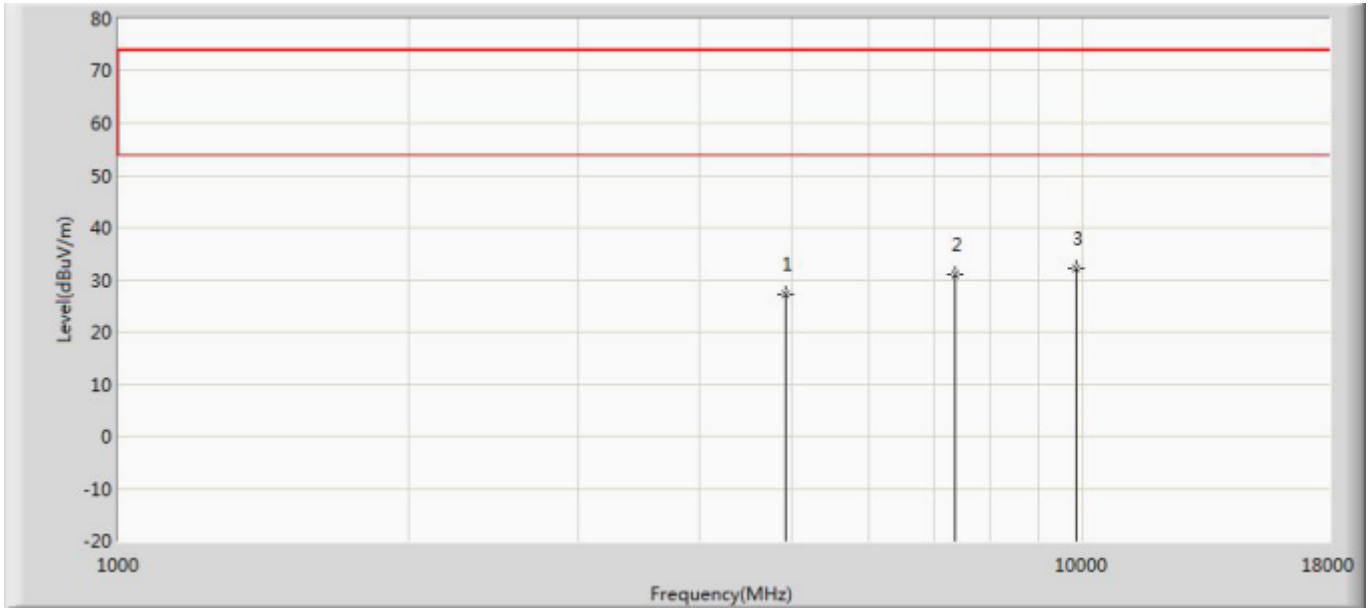
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 25.912 | 26.354 | -48.088 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 30.901 | 27.029 | -43.099 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.551 | 25.550 | -43.449 | 74.000 | 5.002 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2437MHz by 802.11b with Ant2 | |



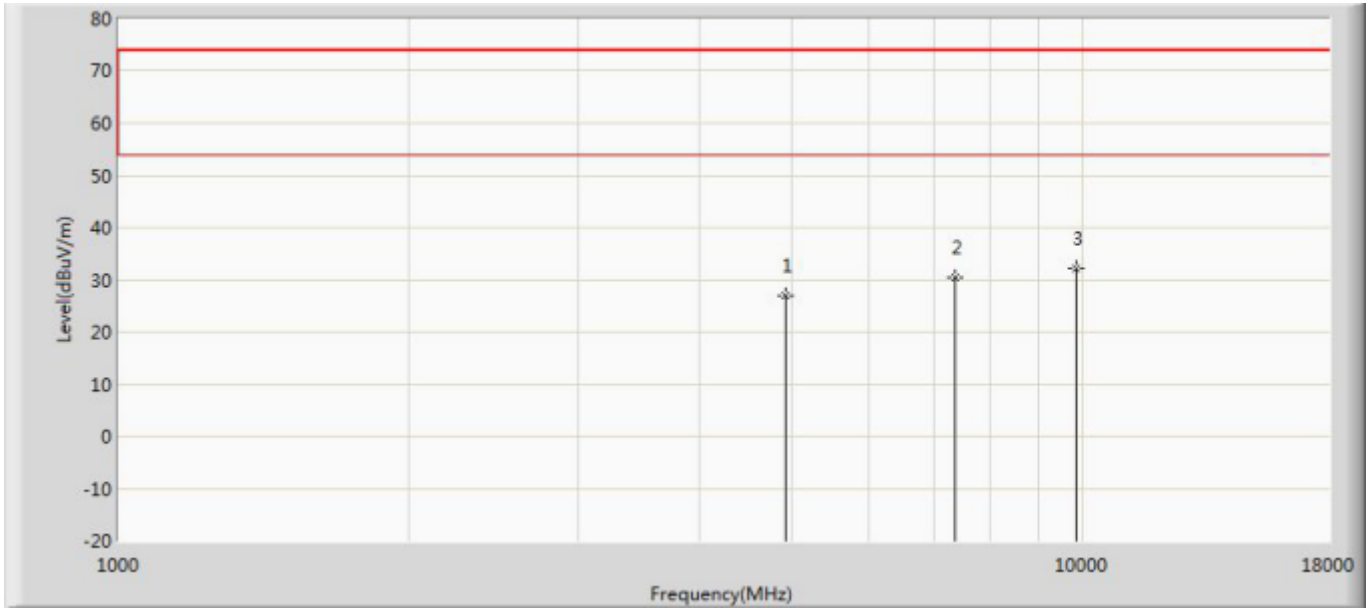
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 25.272 | 25.714 | -48.728 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 30.683 | 26.811 | -43.317 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.189 | 25.188 | -43.811 | 74.000 | 5.002 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2462MHz by 802.11b with Ant2 | |



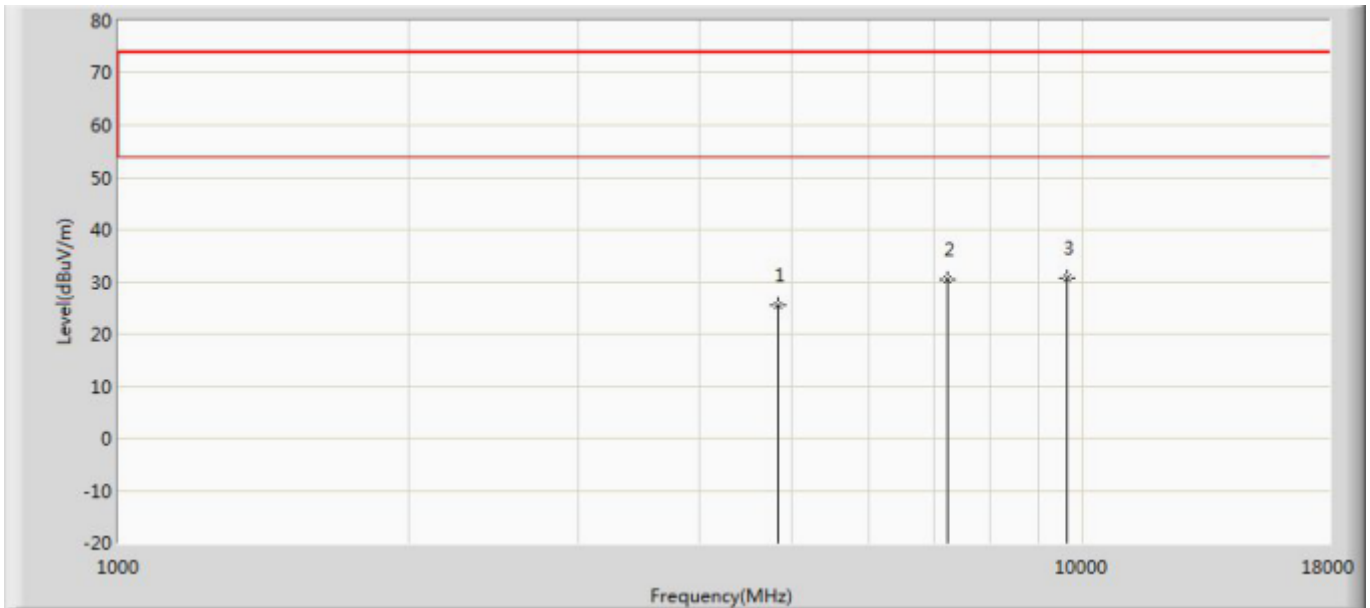
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 27.250 | 27.145 | -46.750 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.926 | 27.752 | -43.074 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 32.046 | 26.057 | -41.954 | 74.000 | 5.989 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2462MHz by 802.11b with Ant2 | |



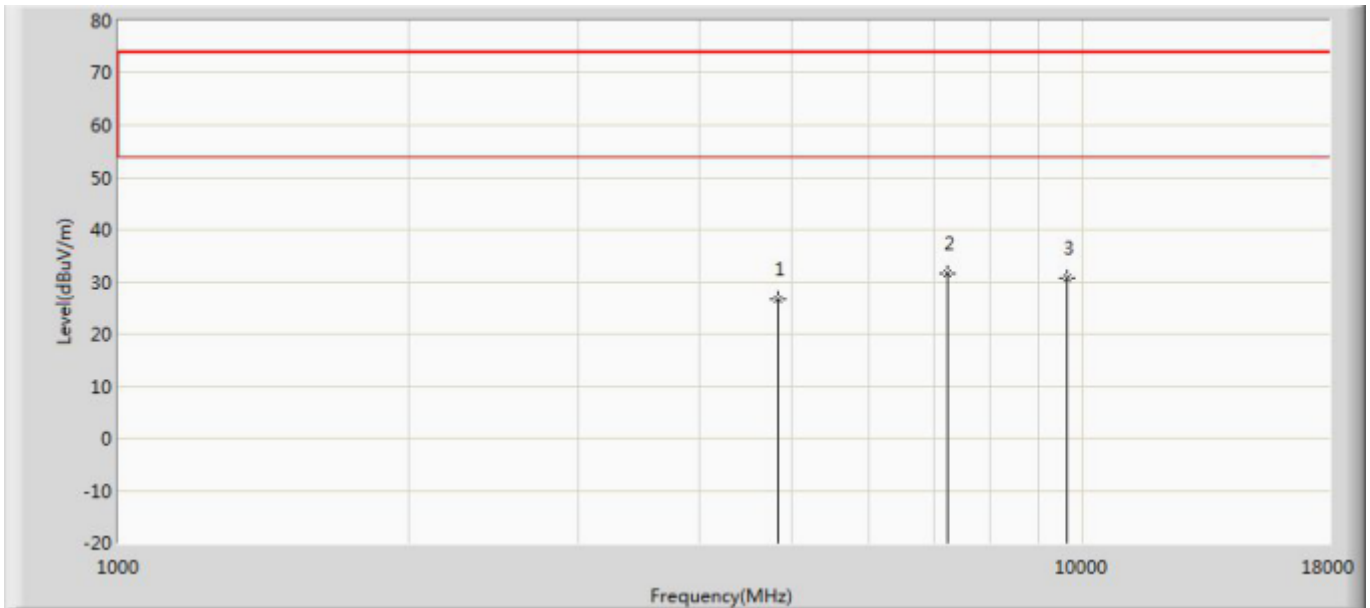
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 27.034 | 26.929 | -46.966 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.387 | 27.213 | -43.613 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 32.045 | 26.056 | -41.955 | 74.000 | 5.989 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz by 802.11g with Ant2 | |



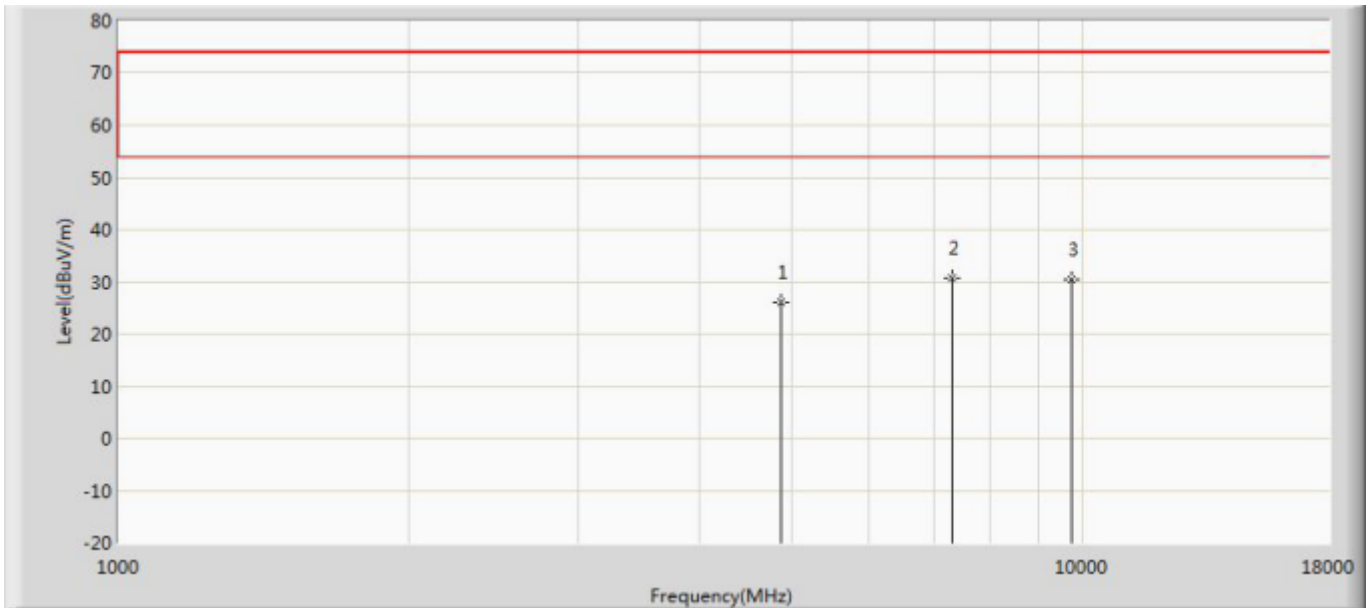
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 25.588 | 26.094 | -48.412 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 30.335 | 26.927 | -43.665 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 30.821 | 25.825 | -43.179 | 74.000 | 4.996 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz by 802.11g with Ant2 | |



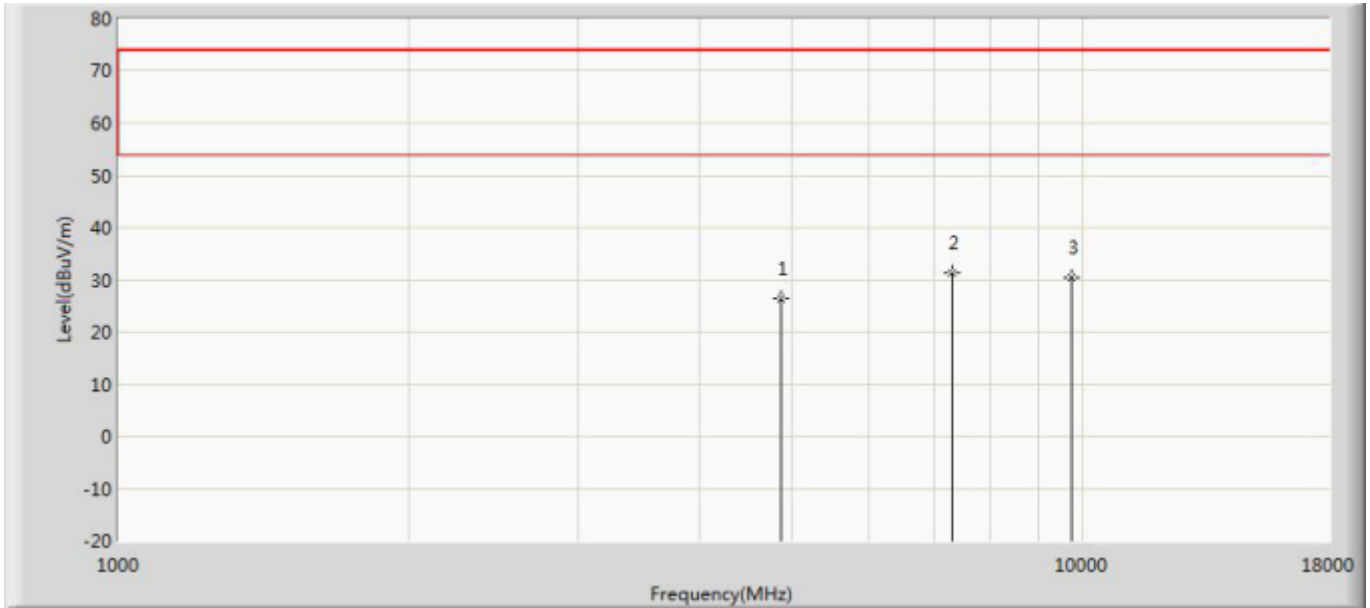
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 26.654 | 27.160 | -47.346 | 74.000 | -0.505 | PK |
| 2 | * | 7236.000 | 31.532 | 28.124 | -42.468 | 74.000 | 3.407 | PK |
| 3 | | 9648.000 | 30.797 | 25.801 | -43.203 | 74.000 | 4.996 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2437MHz by 802.11g with Ant2 | |



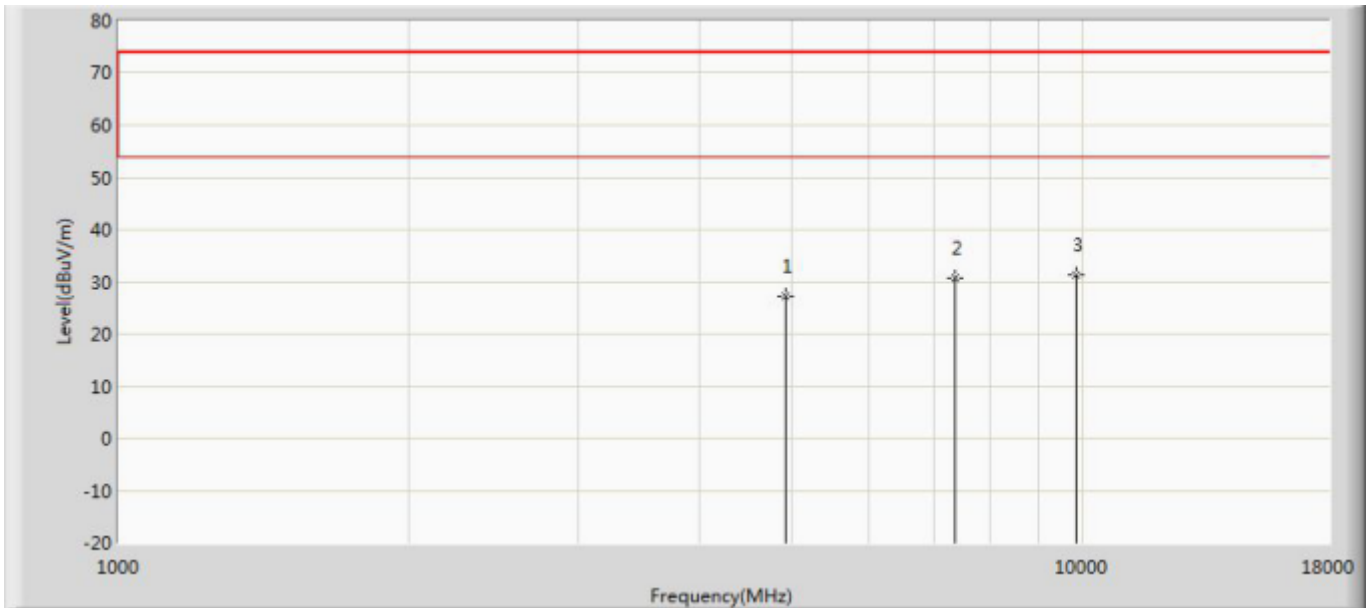
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 26.212 | 26.654 | -47.788 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 30.775 | 26.903 | -43.225 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.475 | 25.474 | -43.525 | 74.000 | 5.002 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2437MHz by 802.11g with Ant2 | |



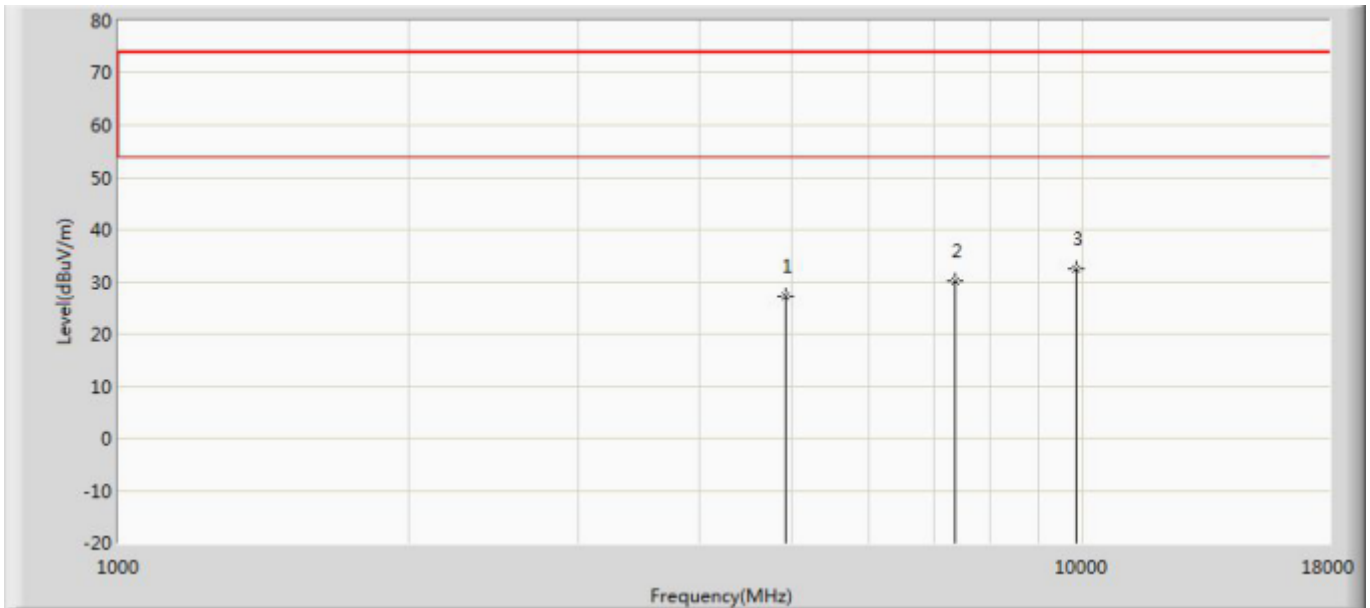
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 26.309 | 26.751 | -47.691 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 31.363 | 27.491 | -42.637 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.453 | 25.452 | -43.547 | 74.000 | 5.002 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2462MHz by 802.11g with Ant2 | |



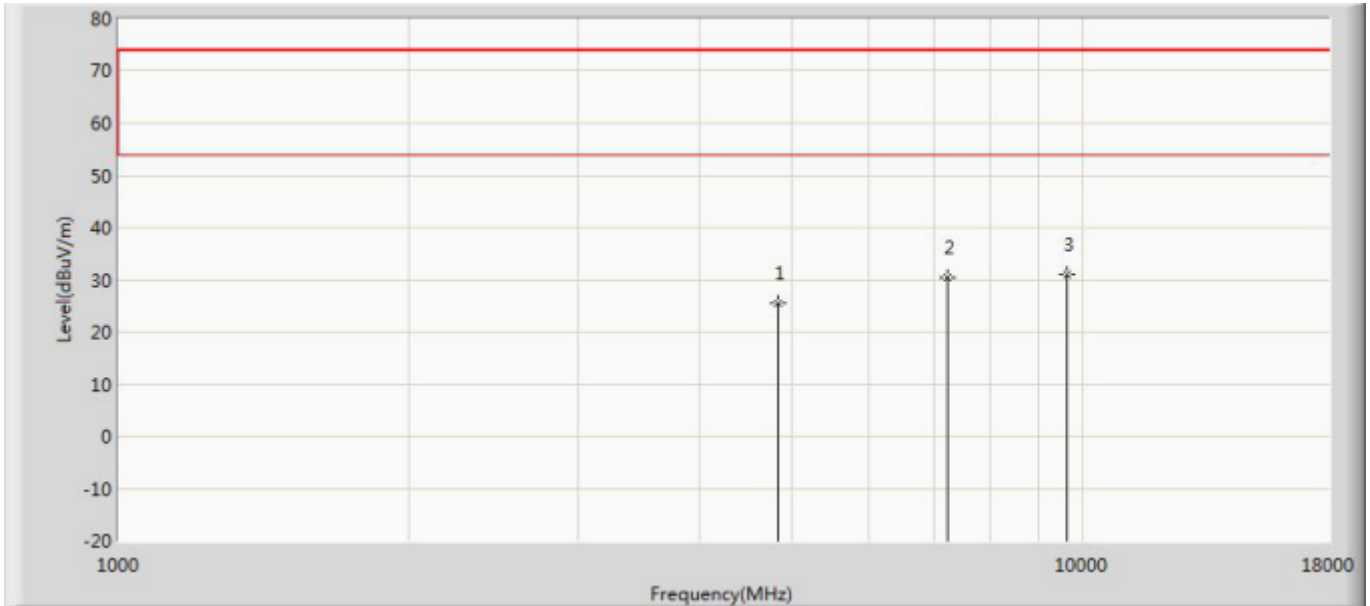
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 27.102 | 26.997 | -46.898 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.755 | 27.581 | -43.245 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 31.408 | 25.419 | -42.592 | 74.000 | 5.989 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2462MHz by 802.11g with Ant2 | |



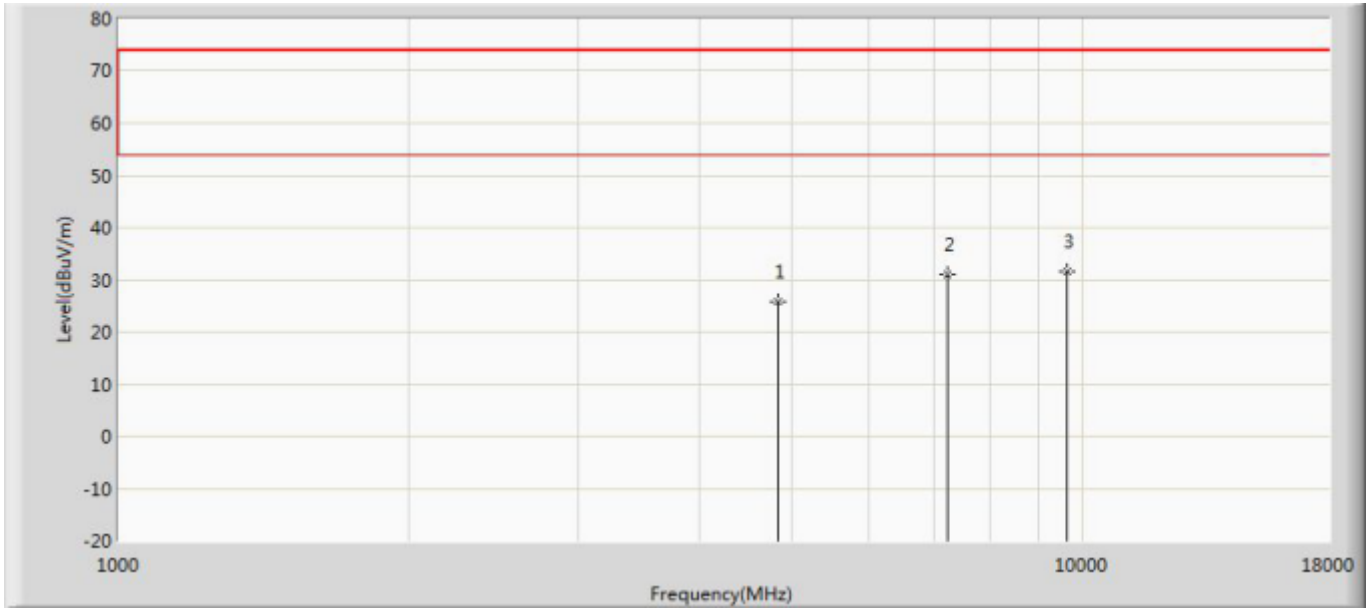
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 27.375 | 27.270 | -46.625 | 74.000 | 0.104 | PK |
| 2 | | 7386.000 | 30.268 | 27.094 | -43.732 | 74.000 | 3.174 | PK |
| 3 | * | 9848.000 | 32.365 | 26.376 | -41.635 | 74.000 | 5.989 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 with Ant2 | |



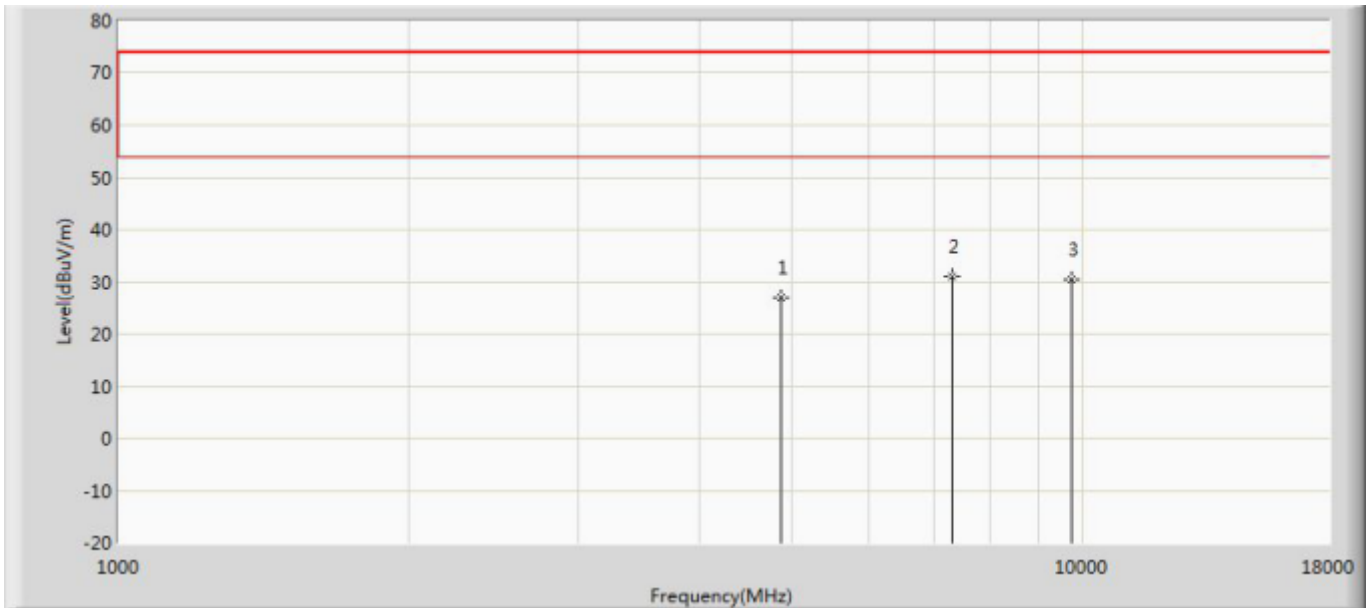
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 25.586 | 26.092 | -48.414 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 30.520 | 27.112 | -43.480 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.114 | 26.118 | -42.886 | 74.000 | 4.996 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 with Ant2 | |



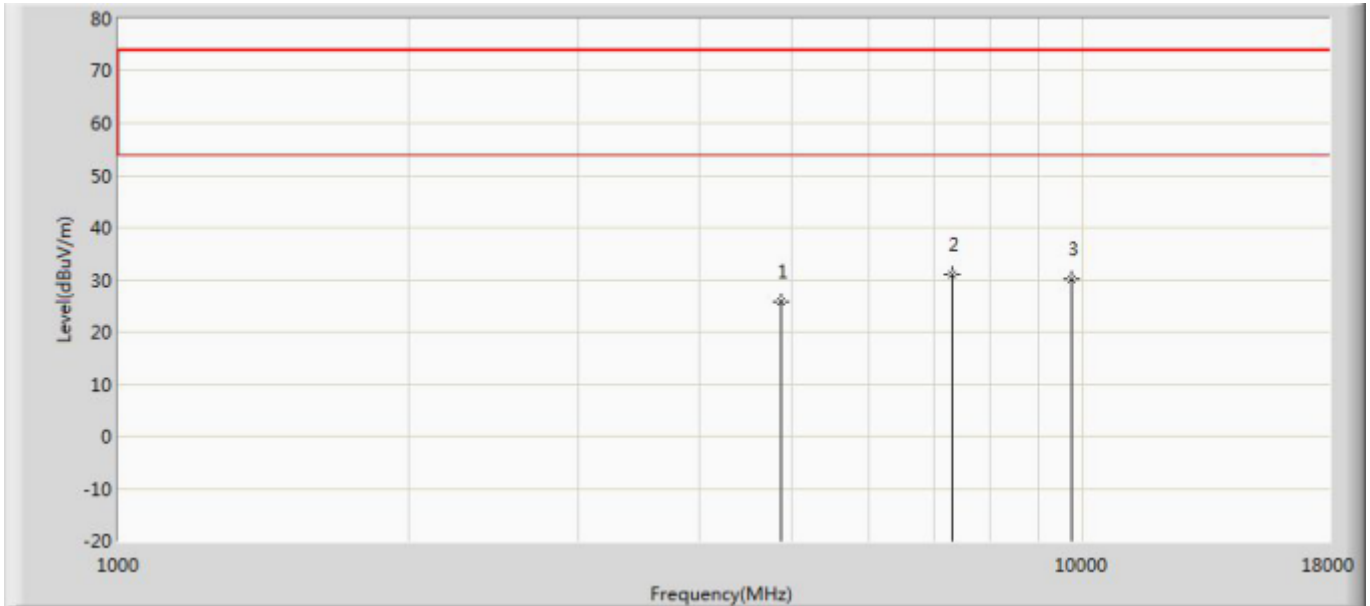
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4824.000 | 25.823 | 26.329 | -48.177 | 74.000 | -0.505 | PK |
| 2 | | 7236.000 | 31.014 | 27.606 | -42.986 | 74.000 | 3.407 | PK |
| 3 | * | 9648.000 | 31.648 | 26.652 | -42.352 | 74.000 | 4.996 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:14 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2437MHz by 802.11n20 with Ant2 | |



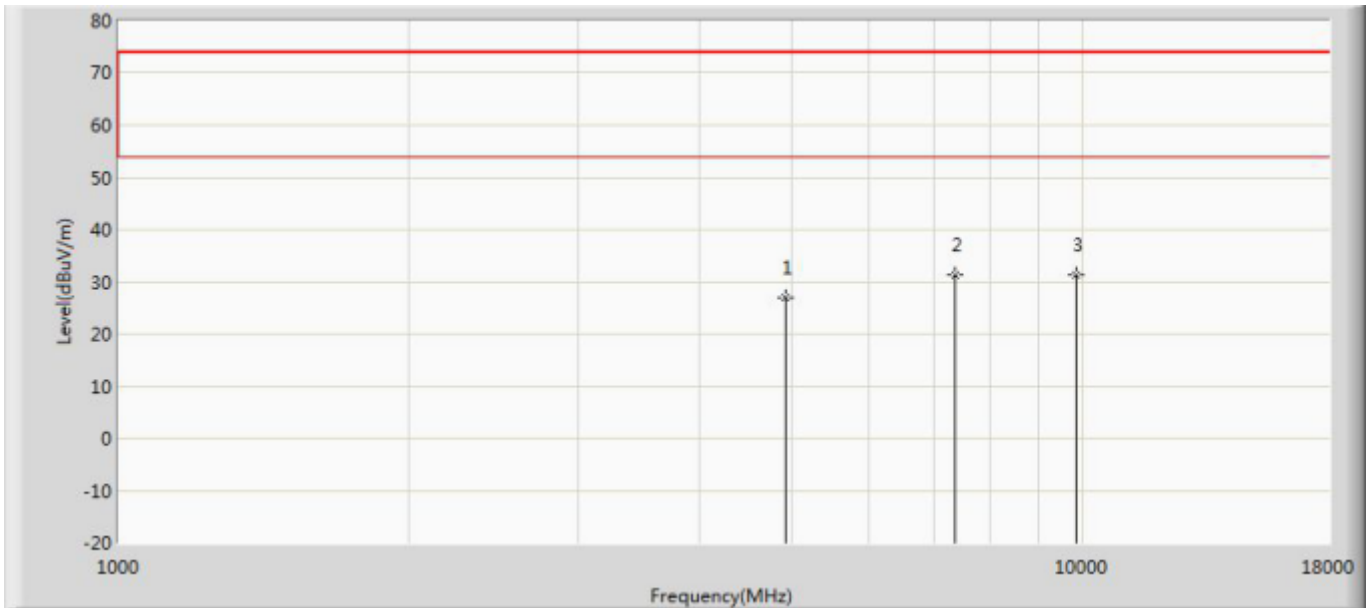
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 26.831 | 27.273 | -47.169 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 30.931 | 27.059 | -43.069 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.392 | 25.391 | -43.608 | 74.000 | 5.002 | PK |

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|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:14 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2437MHz by 802.11n20 with Ant2 | |



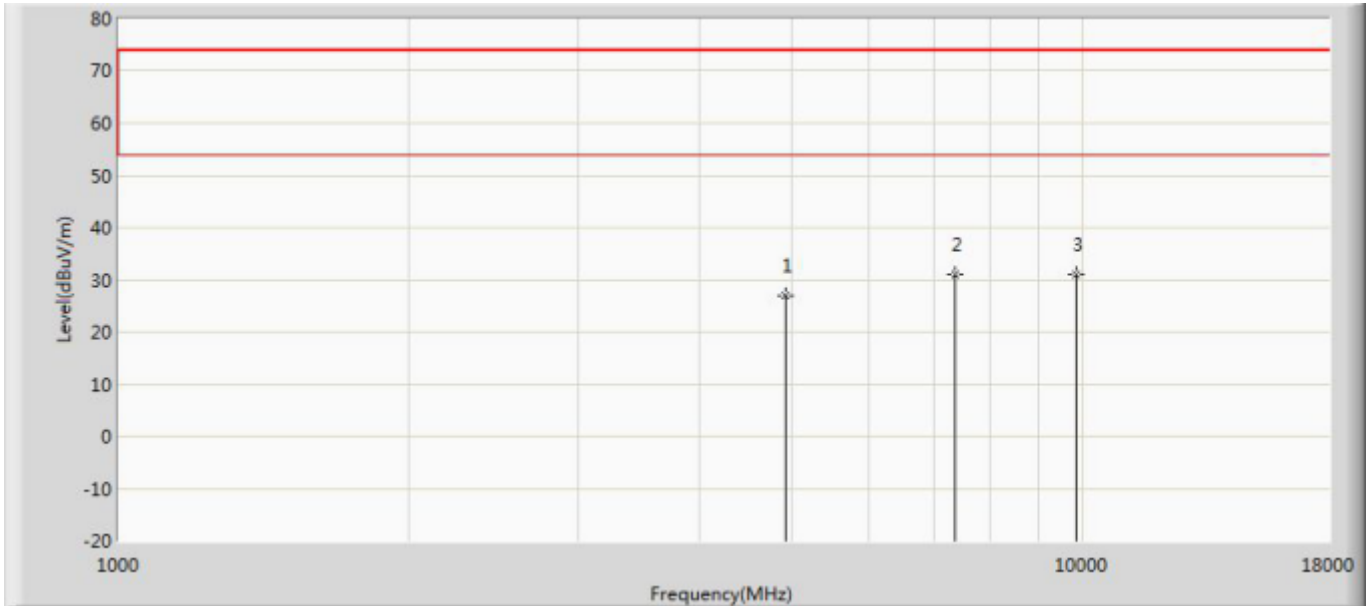
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4874.000 | 25.867 | 26.309 | -48.133 | 74.000 | -0.442 | PK |
| 2 | * | 7311.000 | 31.091 | 27.219 | -42.909 | 74.000 | 3.872 | PK |
| 3 | | 9748.000 | 30.130 | 25.129 | -43.870 | 74.000 | 5.002 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:14 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 with Ant2 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 27.018 | 26.913 | -46.982 | 74.000 | 0.104 | PK |
| 2 | * | 7386.000 | 31.269 | 28.095 | -42.731 | 74.000 | 3.174 | PK |
| 3 | | 9848.000 | 31.170 | 25.181 | -42.830 | 74.000 | 5.989 | PK |

| | |
|---|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 21:14 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 with Ant2 | |



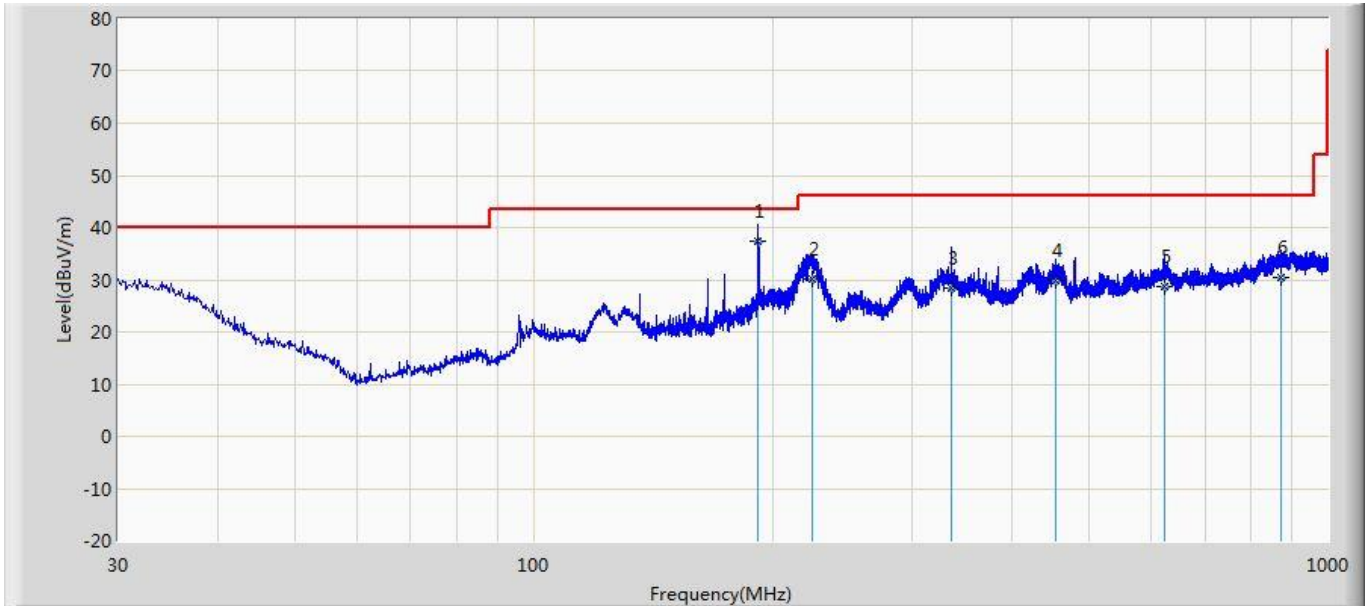
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 4924.000 | 26.983 | 26.878 | -47.017 | 74.000 | 0.104 | PK |
| 2 | * | 7386.000 | 31.100 | 27.926 | -42.900 | 74.000 | 3.174 | PK |
| 3 | | 9848.000 | 31.031 | 25.042 | -42.969 | 74.000 | 5.989 | PK |

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~26GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.

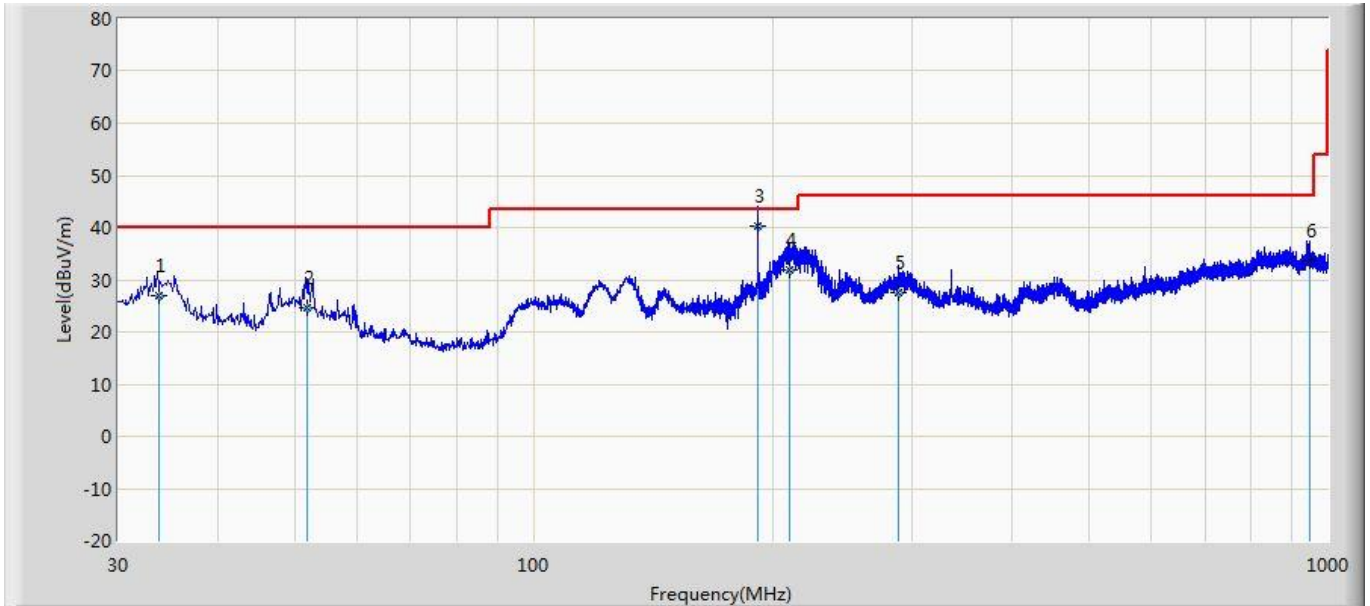
The worst case of Radiated Emission below 1GHz:

| | |
|--|----------------------|
| Engineer: Kay | |
| Site: AC2 | Time: 2018/01/29 |
| Limit: FCC_Part15.109_RE(3m)_ClassB | Margin: 0 |
| Probe: AC2_3M(30-1000M) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant 1 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | * | 191.516 | 37.311 | 19.980 | -6.189 | 43.500 | 10.008 | 7.323 | 0.000 | 200 | 138 | QP |
| 2 | | 223.845 | 30.124 | 12.103 | -15.876 | 46.000 | 10.571 | 7.450 | 0.000 | 200 | 139 | QP |
| 3 | | 335.812 | 28.450 | 5.600 | -17.550 | 46.000 | 15.112 | 7.738 | 0.000 | 100 | 81 | QP |
| 4 | | 454.251 | 29.748 | 2.510 | -16.252 | 46.000 | 19.239 | 7.998 | 0.000 | 100 | 325 | QP |
| 5 | | 623.845 | 28.621 | -2.120 | -17.379 | 46.000 | 22.175 | 8.566 | 0.000 | 100 | 144 | QP |
| 6 | | 874.523 | 30.407 | -2.120 | -15.593 | 46.000 | 23.339 | 9.188 | 0.000 | 200 | 104 | QP |

| | |
|--|---------------------|
| Engineer: Kay | |
| Site: AC2 | Time: 2018/01/29 |
| Limit: FCC_Part15.109_RE(3m)_ClassB | Margin: 0 |
| Probe: AC2_3M(30-1000M) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b with Ant 1 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 33.715 | 26.920 | 3.690 | -13.080 | 40.000 | 16.571 | 6.658 | 0.000 | 200 | 102 | QP |
| 2 | | 51.985 | 24.506 | 5.680 | -15.494 | 40.000 | 12.248 | 6.578 | 0.000 | 100 | 143 | QP |
| 3 | * | 191.886 | 40.297 | 18.700 | -3.203 | 43.500 | 14.273 | 7.324 | 0.000 | 100 | 34 | QP |
| 4 | | 209.625 | 31.992 | 8.600 | -11.508 | 43.500 | 16.007 | 7.385 | 0.000 | 200 | 147 | QP |
| 5 | | 287.956 | 27.623 | 2.635 | -18.377 | 46.000 | 17.380 | 7.608 | 0.000 | 100 | 145 | QP |
| 6 | | 950.635 | 33.519 | 0.121 | -12.481 | 46.000 | 24.047 | 9.351 | 0.000 | 100 | 214 | QP |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

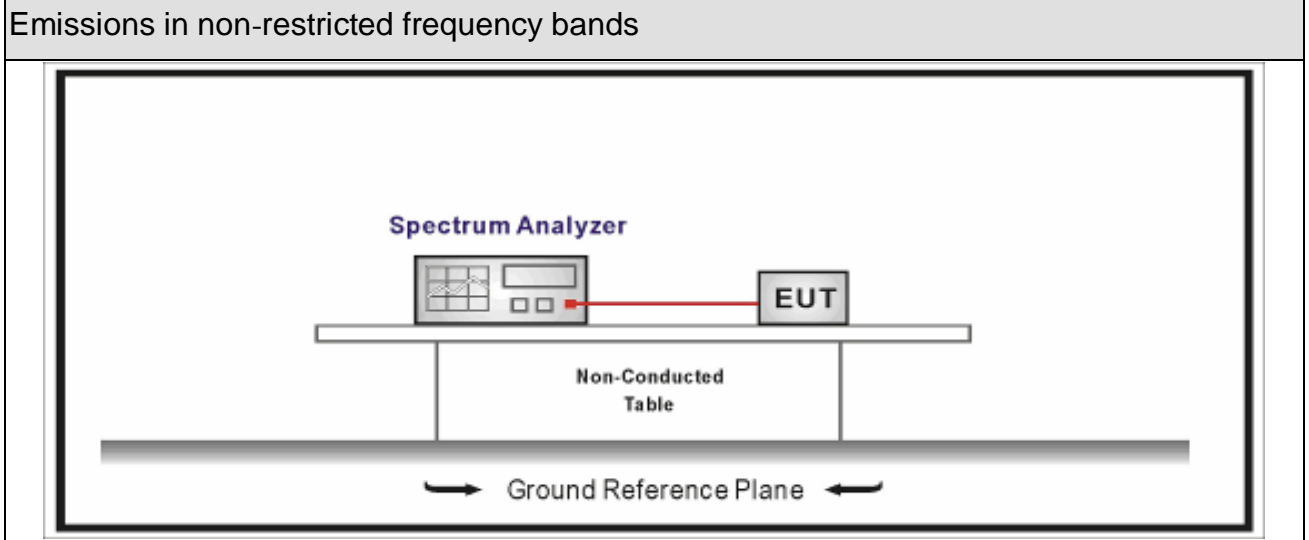
5. Emissions in non-restricted frequency bands

5.1. Test Equipment

| Emissions in non-restricted frequency bands / TR-8 | | | | | |
|--|--------------|----------|------------|------------|---------------|
| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date | Cal. Due Date |
| Spectrum Analyzer | Agilent | N9010A | MY48030494 | 2018.02.04 | 2019.02.03 |
| EXA Spectrum Analyzer | Keysight | N9010A | MY55370495 | 2017.04.09 | 2018.04.08 |
| MXA Signal Analyzer | Keysight | N9020A | MY56060147 | 2017.04.09 | 2018.04.08 |
| Temperature/Humidity Meter | zhichen | ZC1-2 | TR8-TH | 2017.04.10 | 2018.04.09 |

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



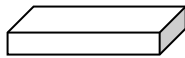
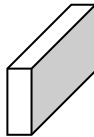
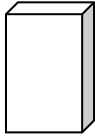
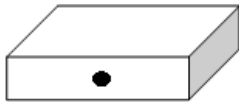
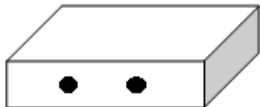
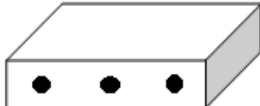
5.3. Limit

| Un-Restricted Band Emissions Limit | |
|--|------------|
| RF Output power (Detection methods) | Limit(dB) |
| RF Output power(Average detector) | 30c(Note1) |
| RF Output power(PK detector) | 20c(Note2) |
| <p>Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).</p> <p>Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).</p> | |

5.4. Test Procedure

| Test Method | | | |
|-------------------------------------|---|-------------|--|
| | References Rule | Chapter | Description |
| <input checked="" type="checkbox"/> | ANSI C63.10 | 11.11 | Emissions in non-restricted frequency bands |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 11.11.2 | Reference level measurement |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 11.11.3 | Emission level measurement |
| <input type="checkbox"/> | ANSI C63.10 | 11.12 | Emissions in restricted frequency bands |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.1 | Radiated emission measurements |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.7 | Radiated spurious emission test |
| <input type="checkbox"/> | ANSI C63.10 | 6.4 | Radiated emissions from unlicensed wireless devices below 30 MHz |
| <input type="checkbox"/> | ANSI C63.10 | 6.5 | Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz |
| <input type="checkbox"/> | ANSI C63.10 | 6.6 | Radiated emissions from unlicensed wireless devices above 1 GHz |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2 | Antenna-port conducted measurements |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.3 | Quasi-peak measurement procedure |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.4 | Peak power measurement procedure |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5 | Average power measurement procedures |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.1 | Trace averaging with continuous EUT transmission at full power |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.2 | Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.3 | Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold |

5.5. EUT test Axis definition

| Item | Emissions in non-restricted frequency bands | | | |
|-----------------|--|--|---|---|
| Device Category | <input type="checkbox"/> | Fixed point-to-point | | |
| | <input type="checkbox"/> | Emit multiple directional beams, simultaneously or sequentially | | |
| | <input checked="" type="checkbox"/> | Other cases | | |
| Test mode | Mode 1 ~ 3 | | | |
| Test method | <input type="checkbox"/> | Radiated | | |
| | | X Axis | Y Axis | Z Axis |
| | |  |  |  |
| | | Worst Axis <input type="checkbox"/> | Worst Axis <input type="checkbox"/> | Worst Axis <input type="checkbox"/> |
| | <input checked="" type="checkbox"/> | Conducted | | |
| | <input type="checkbox"/> | Chain 1 | | |
| | |  | | |
| | <input checked="" type="checkbox"/> | Chain 1 | Chain 2 | |
| | |  | | |
| | <input type="checkbox"/> | Chain 1 | Chain 2 | Chain 3 |
| |  | | | |

5.6. Test Result

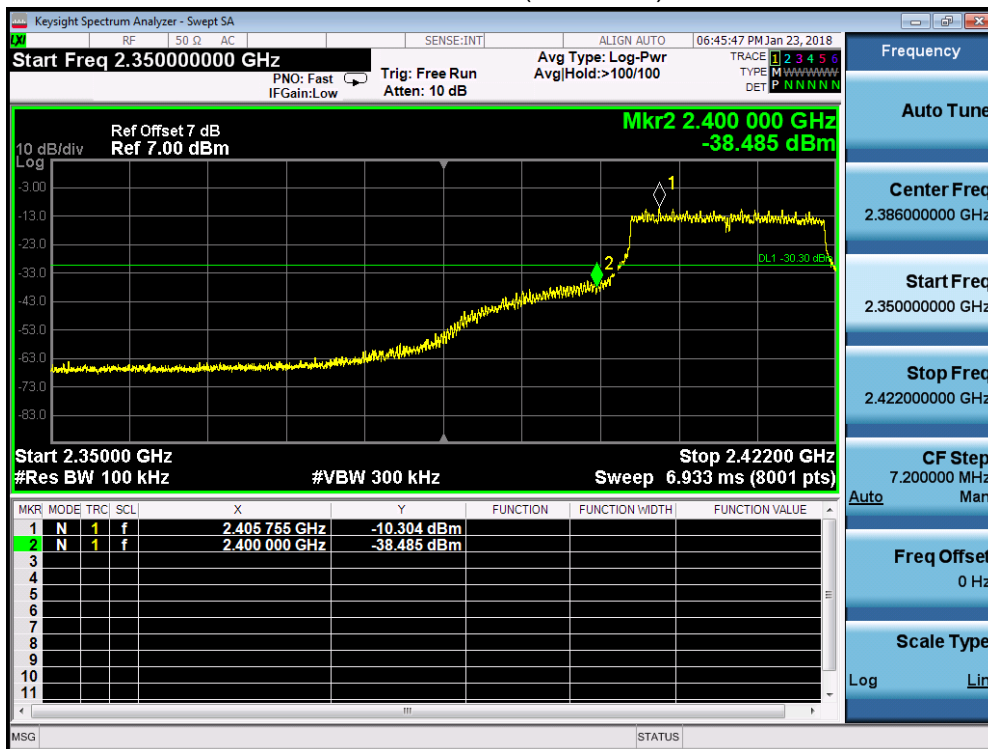
| | | | |
|--------------|-----------------|---------------|----------------|
| Product Name | : Wake-up Light | Power | : AC 120V/60Hz |
| Test Mode | : Mode1~3 | Test Site | : TR8 |
| Test Date | : 2018.01.23 | Test Engineer | : Tommie |

Antenna #1

| Mode | Channel | Test Frequency (MHz) | Maximum In-Band PSD[a] (dBm/100kHz) | Frequency (MHz) | Out-Band PSD[b] (dBm/100kHz) | [a]-[b] (dB) | Limit (dB) | Result |
|------|---------|----------------------|-------------------------------------|-----------------|------------------------------|--------------|------------|--------|
| 1 | 01 | 2412 | -6.349 | 2400 | -52.567 | 46.218 | >20 | Pass |
| 1 | 11 | 2462 | -5.879 | 2500 | -62.513 | 56.634 | >20 | Pass |
| 2 | 01 | 2412 | -5.614 | 2400 | -51.021 | 45.407 | >20 | Pass |
| 2 | 11 | 2462 | -5.670 | 2500 | -62.814 | 57.144 | >20 | Pass |
| 3 | 01 | 2412 | -10.304 | 2400 | -38.485 | 28.181 | >20 | Pass |
| 3 | 11 | 2462 | -9.493 | 2500 | -63.974 | 54.481 | >20 | Pass |

Note: The worst case of emissions in non-restricted frequency bands as below:

Mode 3 CH01(2412MHz)



Antenna #2

| Mode | Channel | Test Frequency (MHz) | Maximum In-Band PSD[a] (dBm/100kHz) | Frequency (MHz) | Out-Band PSD[b] (dBm/100kHz) | [a]-[b] (dB) | Limit (dB) | Result |
|------|---------|----------------------|-------------------------------------|-----------------|------------------------------|--------------|------------|--------|
| 1 | 01 | 2412 | 6.561 | 2400 | -36.349 | 42.91 | >20 | Pass |
| 1 | 11 | 2462 | 7.675 | 2500 | -48.173 | 55.848 | >20 | Pass |
| 2 | 01 | 2412 | 6.935 | 2400 | -35.759 | 42.694 | >20 | Pass |
| 2 | 11 | 2462 | 7.194 | 2500 | -48.856 | 56.05 | >20 | Pass |
| 3 | 01 | 2412 | 3.027 | 2400 | -27.107 | 30.134 | >20 | Pass |
| 3 | 11 | 2462 | 2.890 | 2500 | -48.594 | 51.484 | >20 | Pass |

Note: The worst case of emissions in non-restricted frequency bands as below:

Mode 3 CH01(2412MHz)

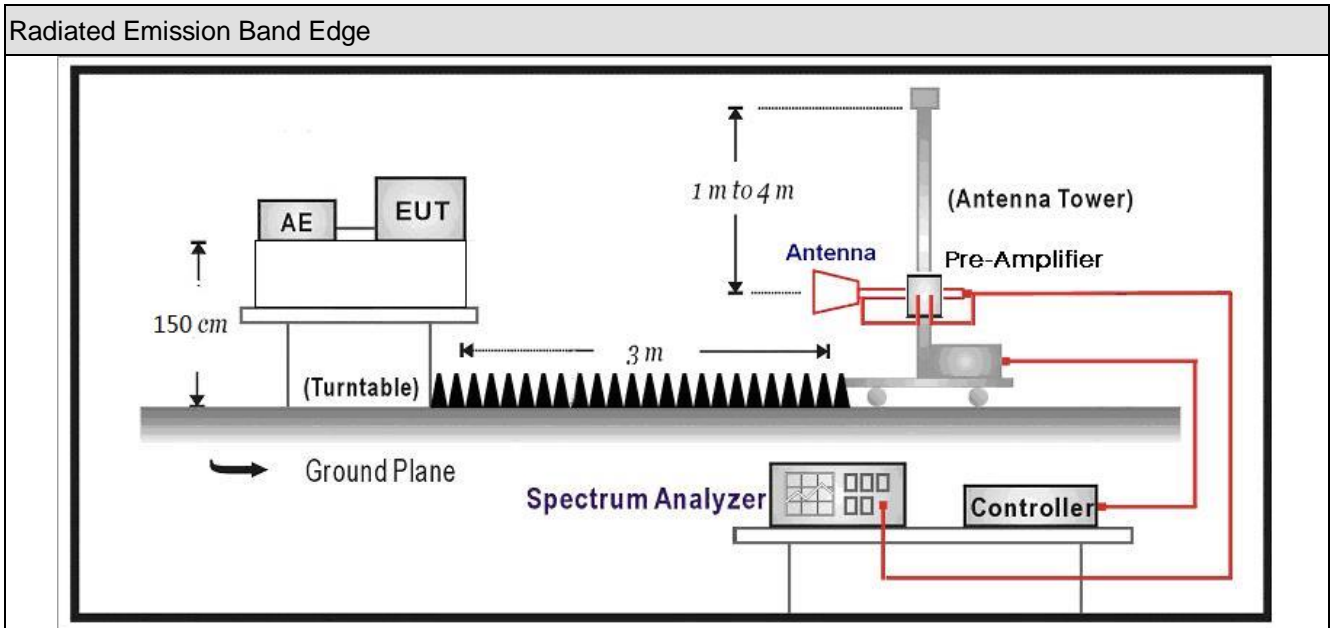


6. Radiated Emission Band Edge

6.1. Test Equipment

| Radiated Emission Band Edge / AC-5 | | | | | |
|---|--------------|-----------------|-------------|------------|---------------|
| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date | Cal. Due Date |
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2018.01.04 | 2019.01.03 |
| Preamplifier | Miteq | NSP1800-25 | 1364185 | 2017.05.06 | 2018.05.05 |
| Preamplifier | QuieTek | AP-040G | CHM-0906001 | 2017.05.06 | 2018.05.05 |
| DRG Horn | ETS-Lindgren | 3117 | 00123988 | 2018.01.22 | 2019.01.21 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9170 | 294 | 2017.11.25 | 2018.11.24 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C1 | 2018.03.02 | 2019.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C2 | 2018.03.02 | 2019.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | AC5-C3 | 2018.03.02 | 2019.03.01 |
| EMI Receiver | Agilent | N9038A | MY51210196 | 2017.06.10 | 2018.06.09 |
| Temperature/Humidity Meter | Zhichen | ZC1-2 | AC5-TH | 2018.01.04 | 2019.01.03 |
| Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. | | | | | |

6.2. Test Setup



6.3. Limit

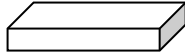
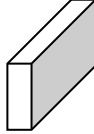
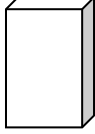


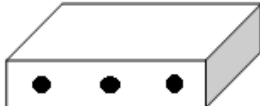
| Band edge Limit | | | | |
|-----------------------|----------|----------------------|-----------|--------------|
| Frequency bands (MHz) | Detector | Limit (dB μ V/m) | RBW (MHz) | Distance (m) |
| 2310-2390 | PK | 74 | 1 | 3 |
| 2483.5-2500 | AV | 54 | 1 | 3 |

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

6.4. Test Procedure

| Radiated Emission Band Edge | | | |
|-------------------------------------|---|-------------|--|
| | References Rule | Chapter | Description |
| <input checked="" type="checkbox"/> | ANSI C63.10 | 6.10 | Band-edge testing |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 6.10.5 | Restricted-band band-edge measurements |
| | <input type="checkbox"/> ANSI C63.10 | 6.10.6 | Marker-delta method |
| <input checked="" type="checkbox"/> | ANSI C63.10 | 11.12 | Emissions in restricted frequency bands |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 11.12.1 | Radiated emission measurements |
| | <input checked="" type="checkbox"/> ANSI C63.10 | 11.12.2.7 | Radiated spurious emission test |
| <input type="checkbox"/> | ANSI C63.10 | 6.4 | Radiated emissions from unlicensed wireless devices below 30 MHz |
| <input type="checkbox"/> | ANSI C63.10 | 6.5 | Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz |
| <input checked="" type="checkbox"/> | ANSI C63.10 | 6.6 | Radiated emissions from unlicensed wireless devices above 1 GHz |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2 | Antenna-port conducted measurements |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.3 | Quasi-peak measurement procedure |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.4 | Peak power measurement procedure |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5 | Average power measurement procedures |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.1 | Trace averaging with continuous EUT transmission at full power |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.2 | Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction |
| | <input type="checkbox"/> ANSI C63.10 | 11.12.2.5.3 | Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold |

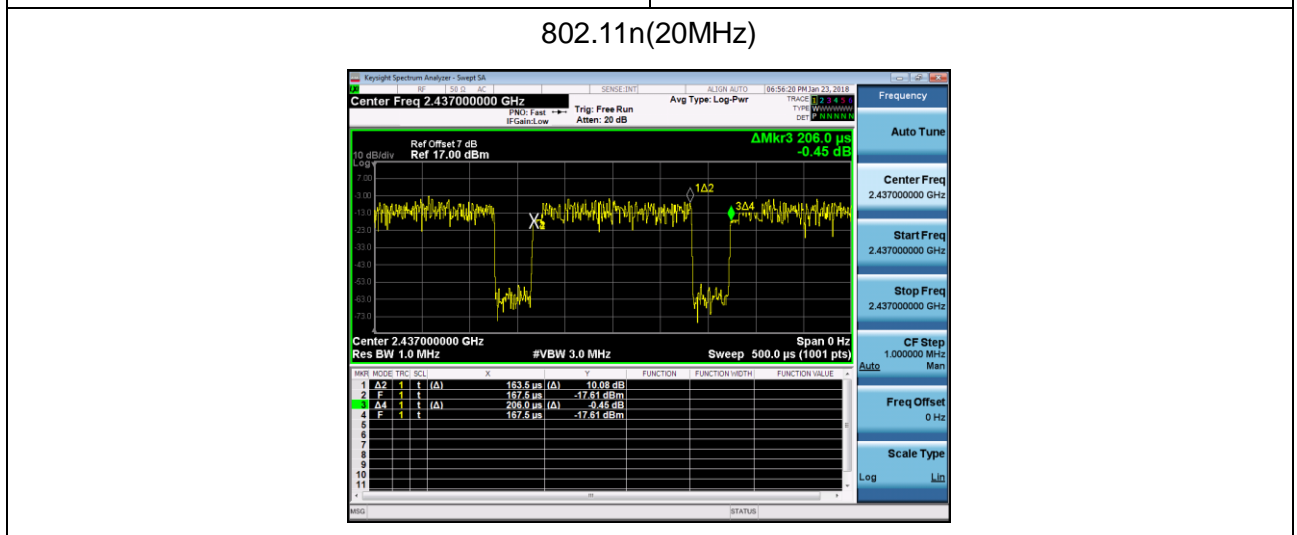
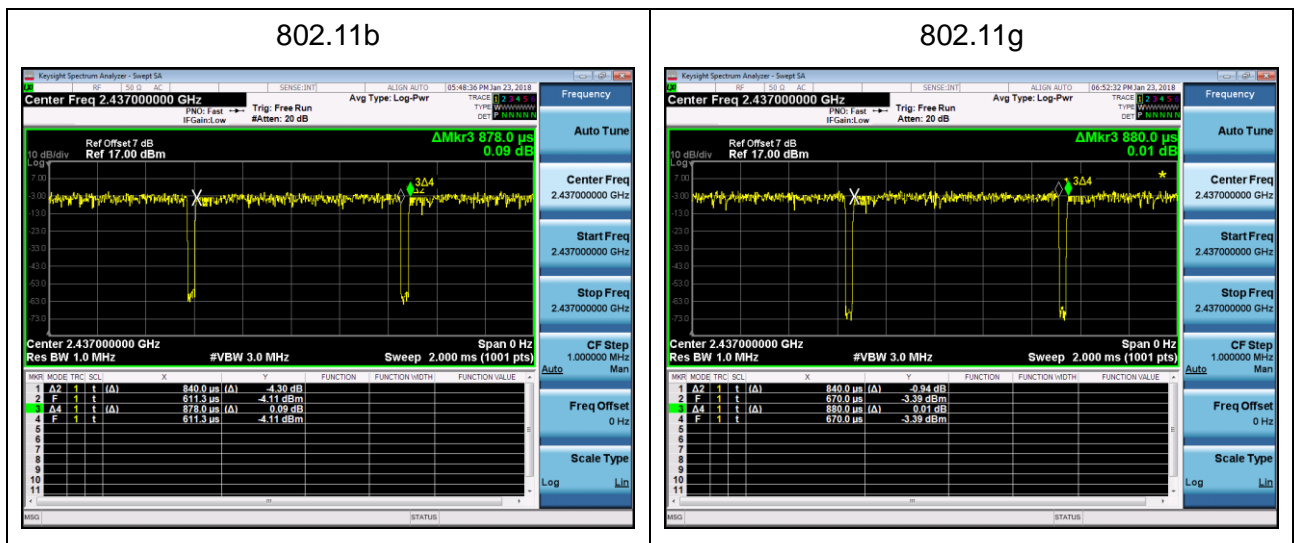
6.5. EUT test definition

| Item | Radiated Emission Band Edge | | | |
|-----------------|--|--|--|--|
| Device Category | <input type="checkbox"/> | Fixed point-to-point | | |
| | <input type="checkbox"/> | Emit multiple directional beams, simultaneously or sequentially | | |
| | <input checked="" type="checkbox"/> | Other cases | | |
| Test mode | Mode 1~3 | | | |
| Test method | <input checked="" type="checkbox"/> | Radiated | | |
| | | X Axis | Y Axis | Z Axis |
| | |  |  |  |
| | | Worst Axis <input checked="" type="checkbox"/> | Worst Axis <input type="checkbox"/> | Worst Axis <input type="checkbox"/> |
| | <input type="checkbox"/> | Conducted | | |
| | <input type="checkbox"/> | Chain 1 | | |
| | |  | | |
| | <input type="checkbox"/> | Chain 1 | Chain 2 | |
| | |  | | |
| | <input type="checkbox"/> | Chain 1 | Chain 2 | Chain 3 |
| |  | | | |

6.6. Duty Cycle

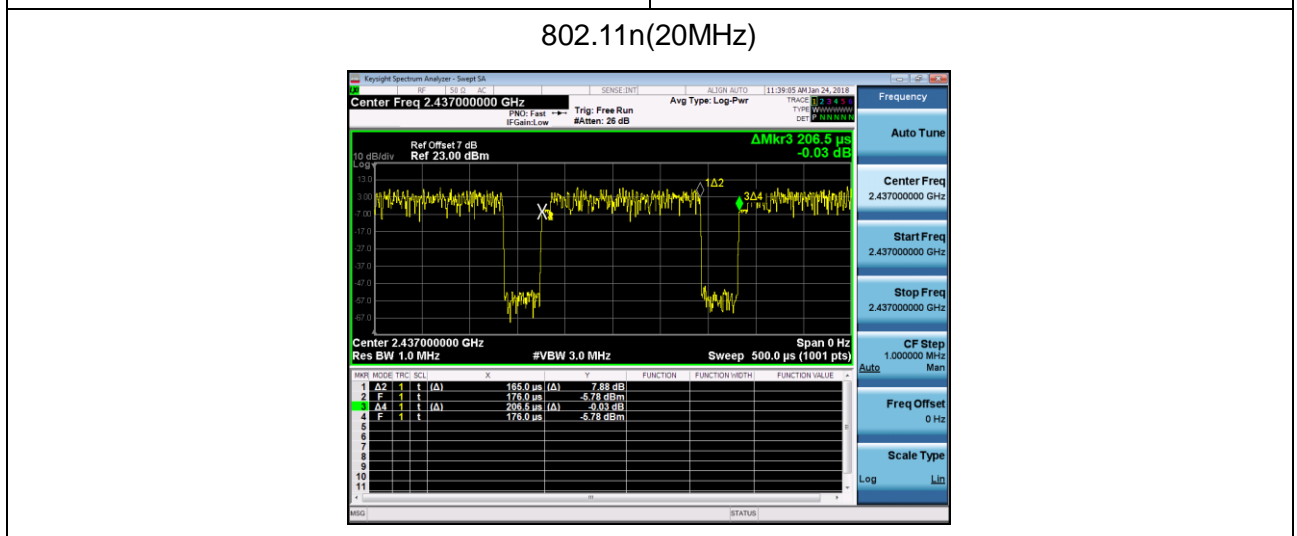
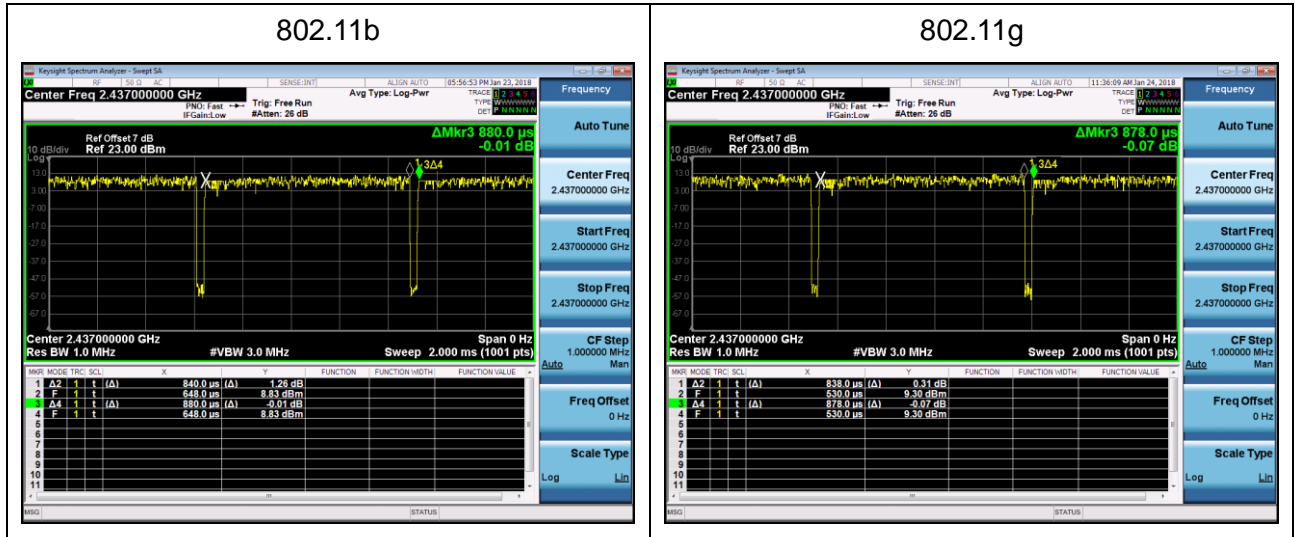
Ant1:

| Test Mode | Tx On (ms) | Tx Off (ms) | VBW | Tx On + Tx Off (ms) | Duty Cycle |
|----------------|------------|-------------|--------|---------------------|------------|
| 802.11b | 0.84 | 0.038 | 1.2kHz | 0.878 | 95.67% |
| 802.11g | 0.84 | 0.04 | 1.2kHz | 0.88 | 95.45% |
| 802.11n(20MHz) | 0.1635 | 0.0425 | 6.2kHz | 0.206 | 79.37% |



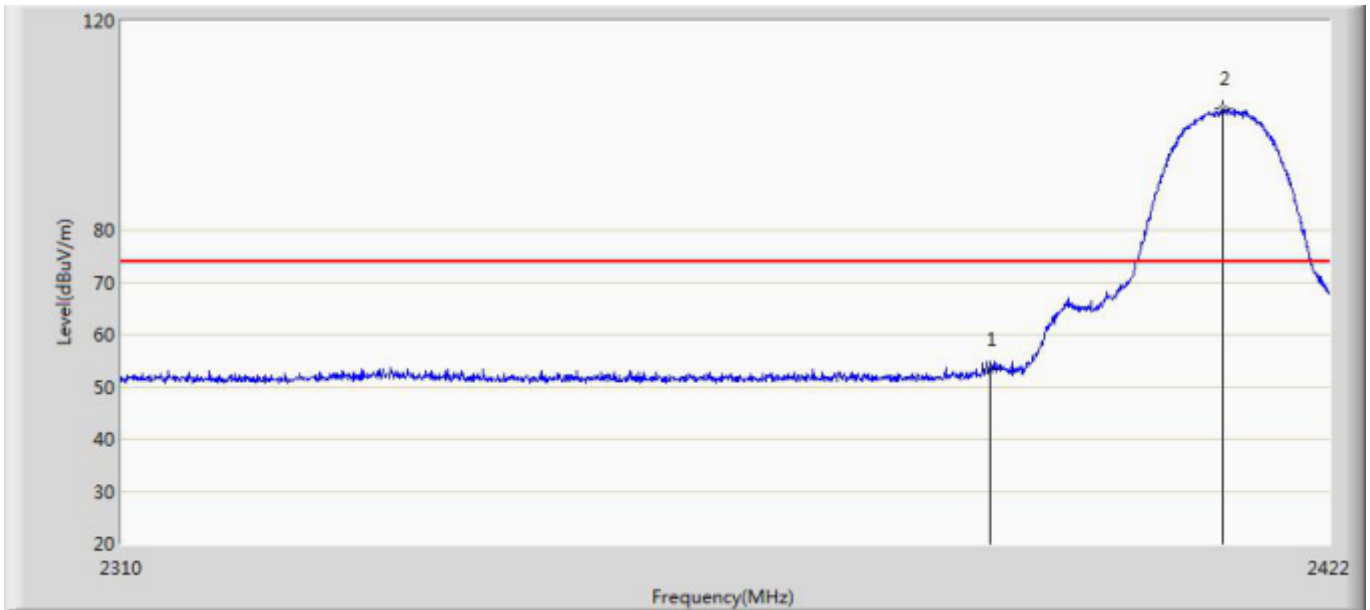
Ant2:

| Test Mode | Tx On (ms) | Tx Off (ms) | VBW | Tx On + Tx Off (ms) | Duty Cycle |
|----------------|------------|-------------|--------|---------------------|------------|
| 802.11b | 0.84 | 0.04 | 1.2kHz | 0.88 | 95.45% |
| 802.11g | 0.838 | 0.04 | 1.2kHz | 0.878 | 95.44% |
| 802.11n(20MHz) | 0.165 | 0.0415 | 6.2kHz | 0.2065 | 79.90% |



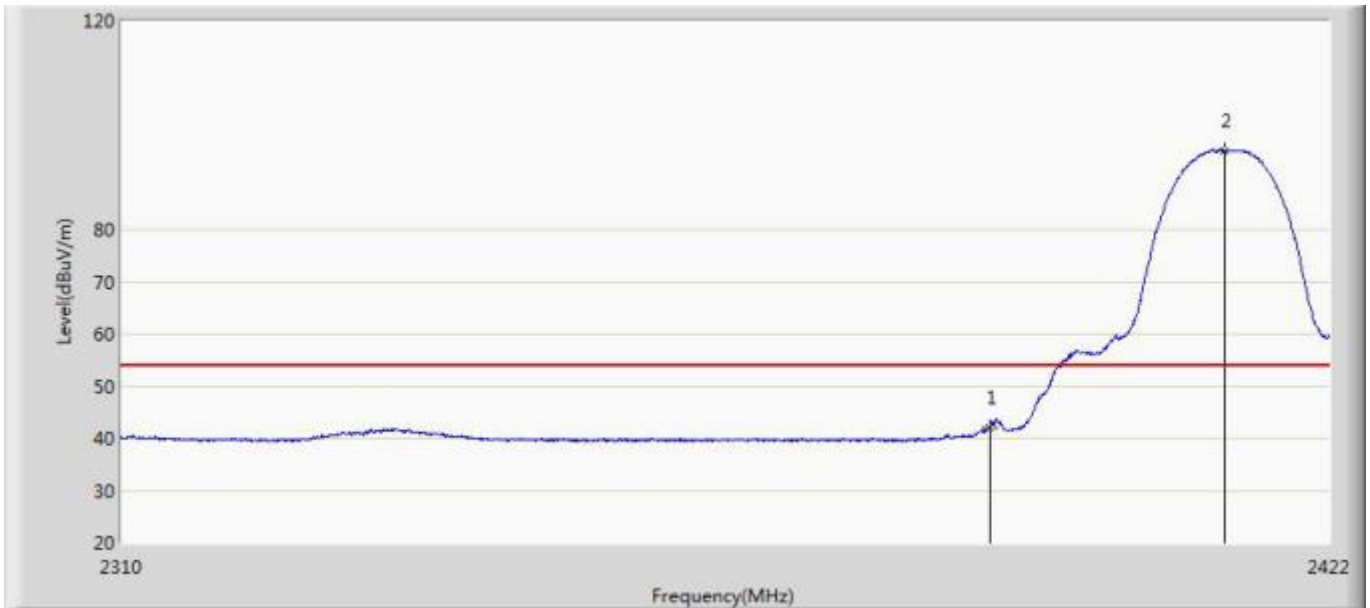
6.7. Test Result

| | |
|--|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:15 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz at 802.11b with Ant 1 | |



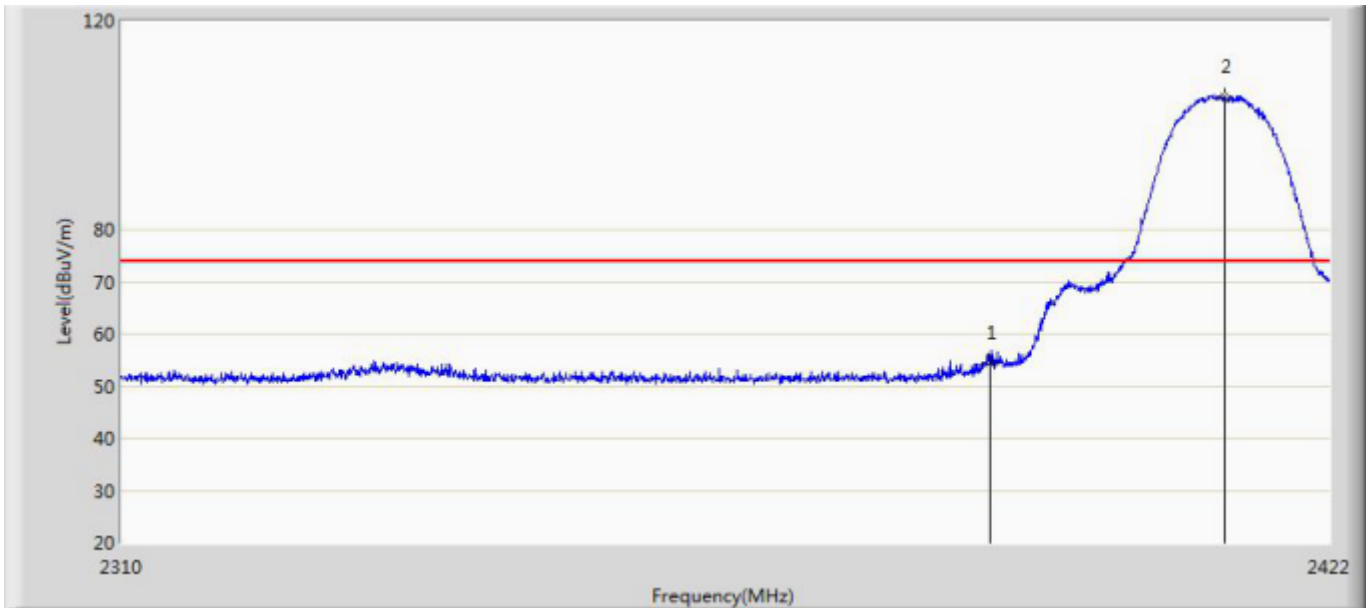
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 53.446 | 17.116 | -20.554 | 74.000 | 36.329 | PK |
| 2 | * | 2412.032 | 103.202 | 66.859 | N/A | N/A | 36.343 | PK |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:19 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz at 802.11b with Ant 1 | |



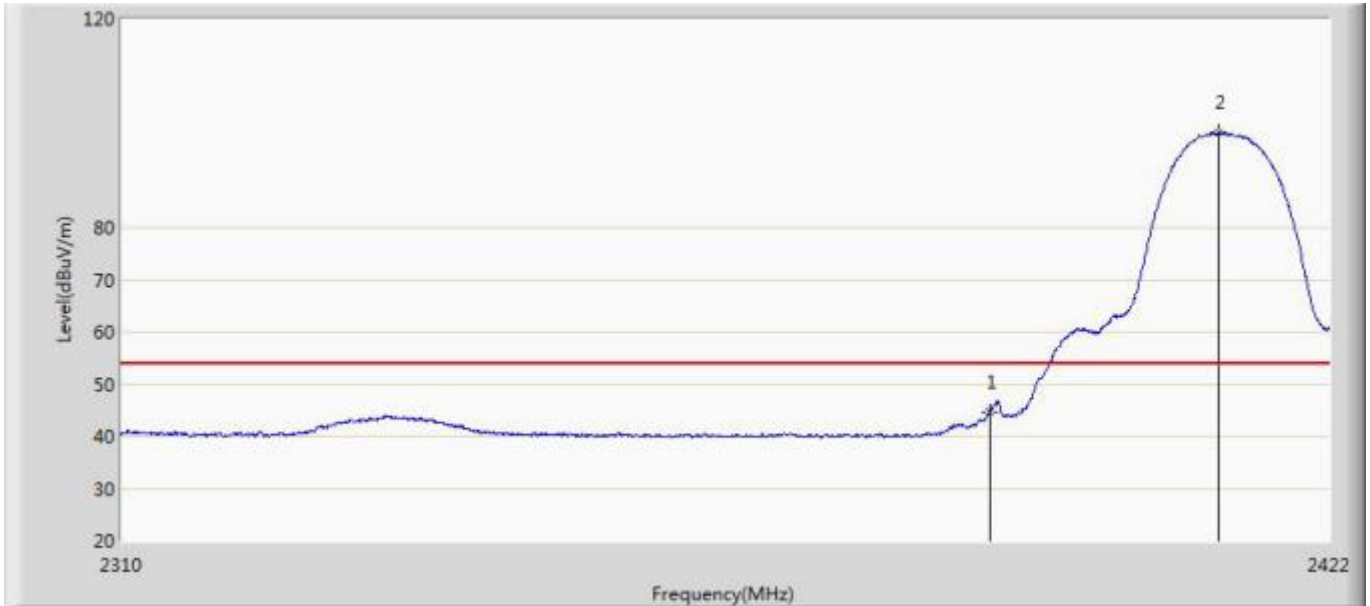
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 42.073 | 5.743 | -11.927 | 54.000 | 36.329 | AV |
| 2 | * | 2412.088 | 95.134 | 58.790 | N/A | N/A | 36.344 | AV |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:22 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz at 802.11b with Ant 1 | |



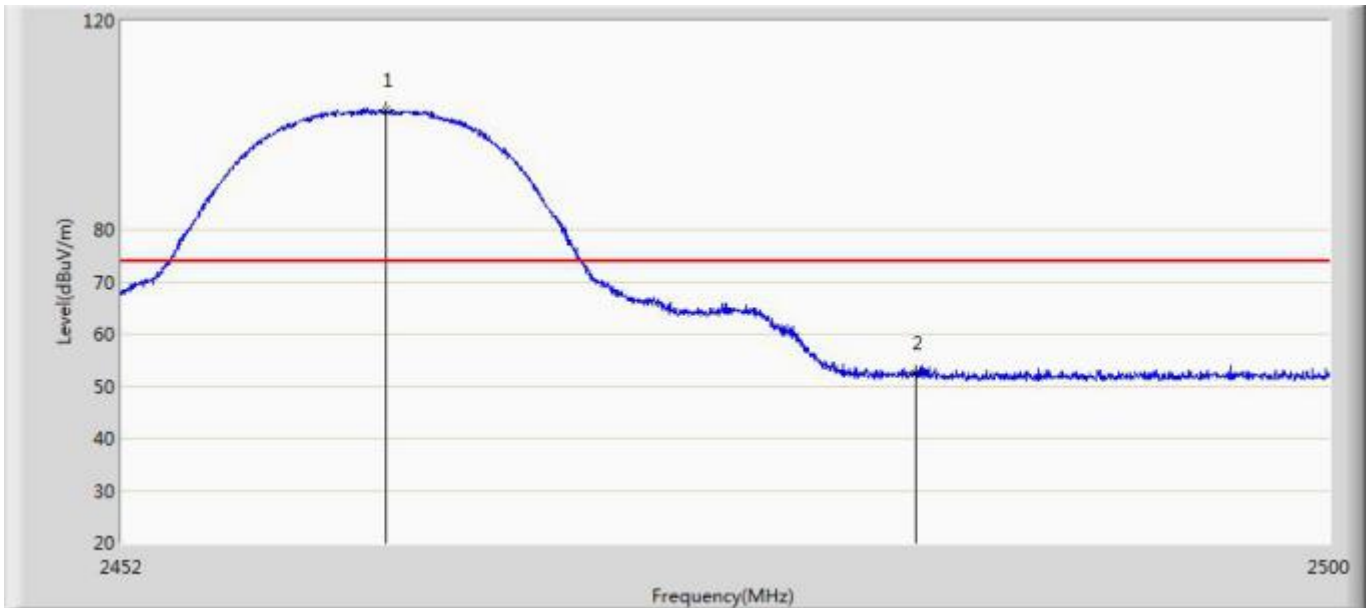
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 54.563 | 18.233 | -19.437 | 74.000 | 36.329 | PK |
| 2 | * | 2412.088 | 105.640 | 69.296 | N/A | N/A | 36.344 | PK |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:23 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz at 802.11b with Ant 1 | |



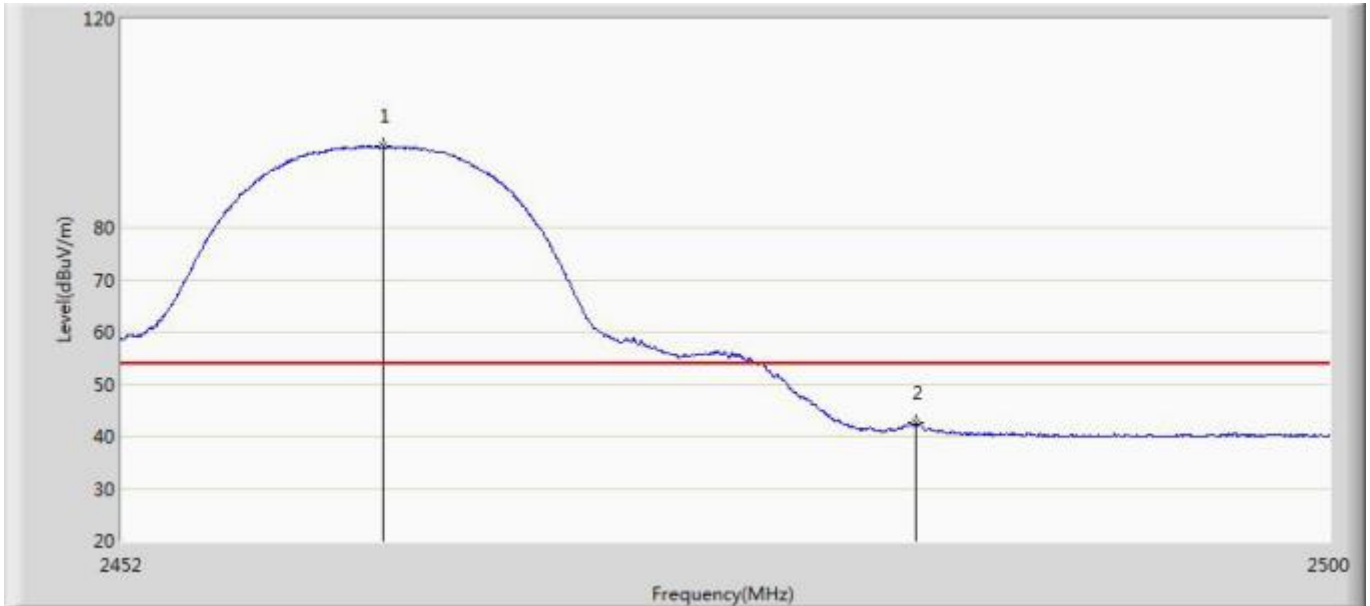
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 44.605 | 8.275 | -9.395 | 54.000 | 36.329 | AV |
| 2 | * | 2411.584 | 98.275 | 61.939 | N/A | N/A | 36.337 | AV |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:29 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2480MHz at 802.11b with Ant 1 | |



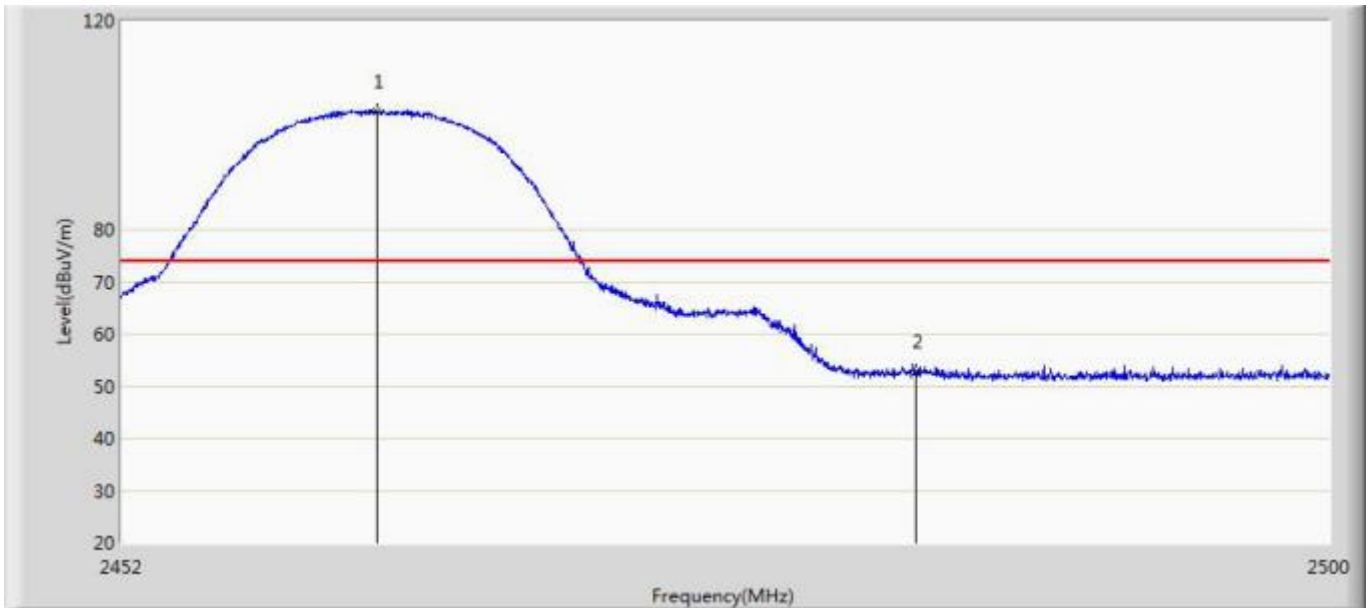
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.464 | 102.789 | 66.166 | N/A | N/A | 36.623 | PK |
| 2 | | 2483.500 | 52.322 | 15.855 | -21.678 | 74.000 | 36.467 | PK |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:33 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2480MHz at 802.11b with Ant 1 | |



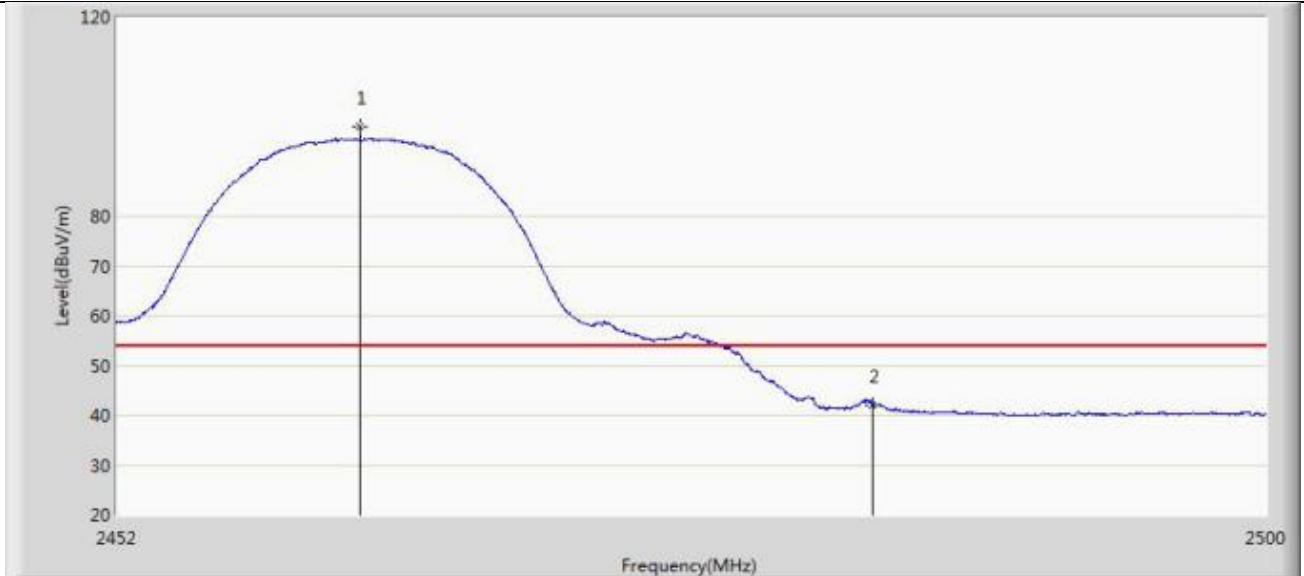
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.344 | 95.513 | 58.889 | N/A | N/A | 36.624 | AV |
| 2 | | 2483.500 | 42.468 | 6.001 | -11.532 | 54.000 | 36.467 | AV |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:35 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2480MHz at 802.11b with Ant 1 | |



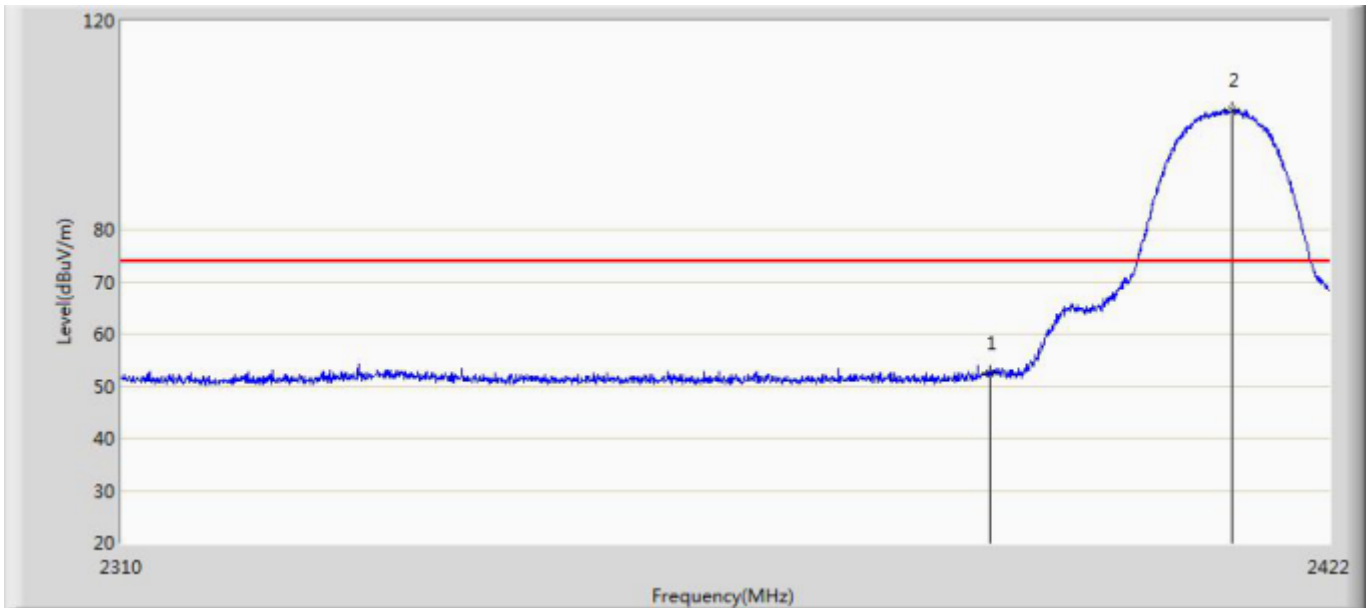
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.104 | 102.632 | 66.004 | N/A | N/A | 36.627 | PK |
| 2 | | 2483.500 | 52.693 | 16.226 | -21.307 | 74.000 | 36.467 | PK |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:36 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2480MHz at 802.11b with Ant 1 | |



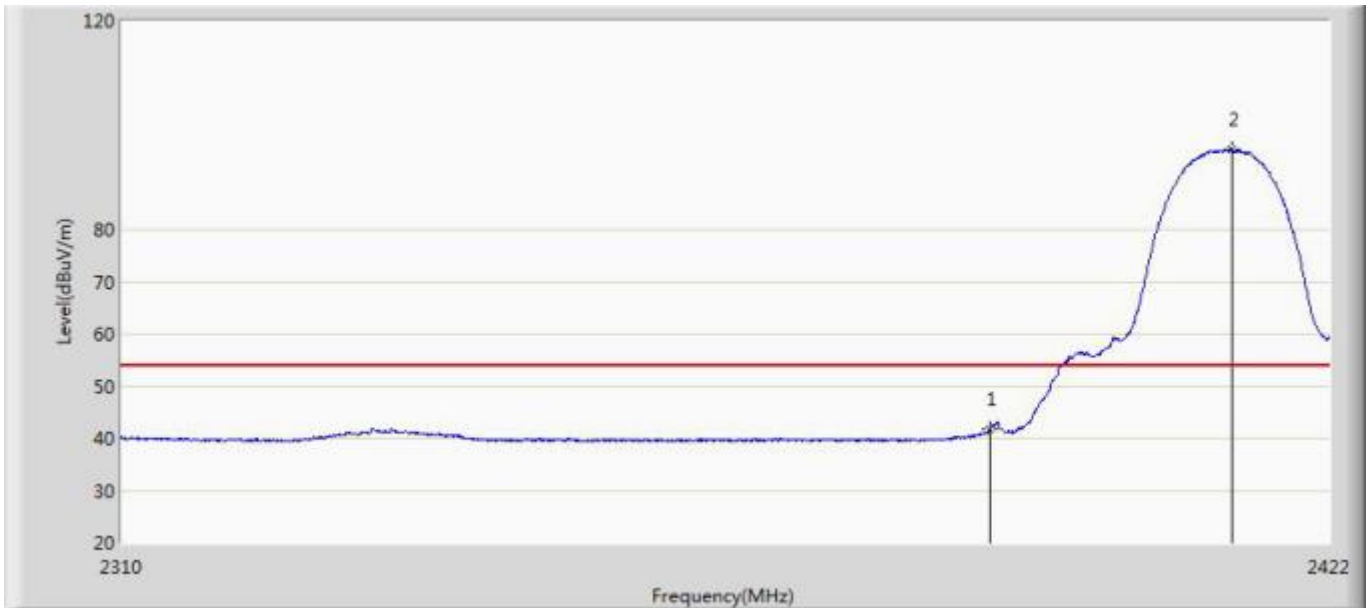
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.104 | 102.632 | 66.004 | N/A | N/A | 36.627 | AV |
| 2 | | 2483.500 | 42.116 | 5.649 | -11.884 | 54.000 | 36.467 | AV |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:38 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz at 802.11g with Ant 1 | |



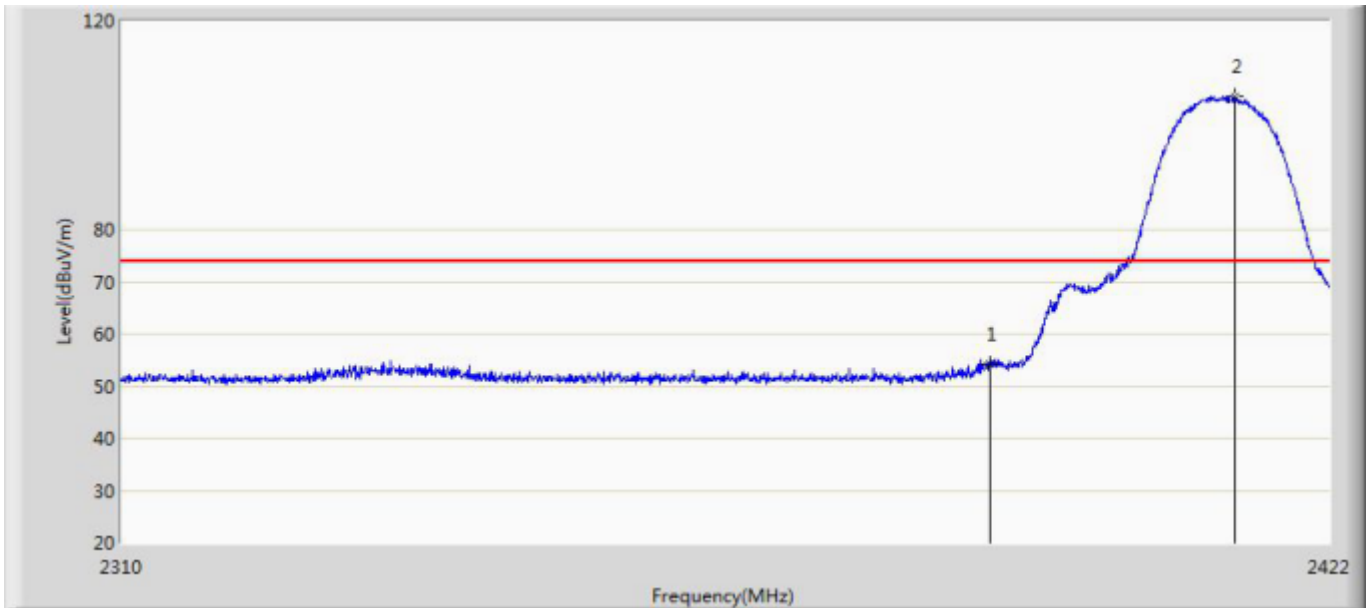
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 52.361 | 16.031 | -21.639 | 74.000 | 36.329 | PK |
| 2 | * | 2412.816 | 102.889 | 66.533 | N/A | N/A | 36.356 | PK |

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|--|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:42 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz at 802.11g with Ant 1 | |



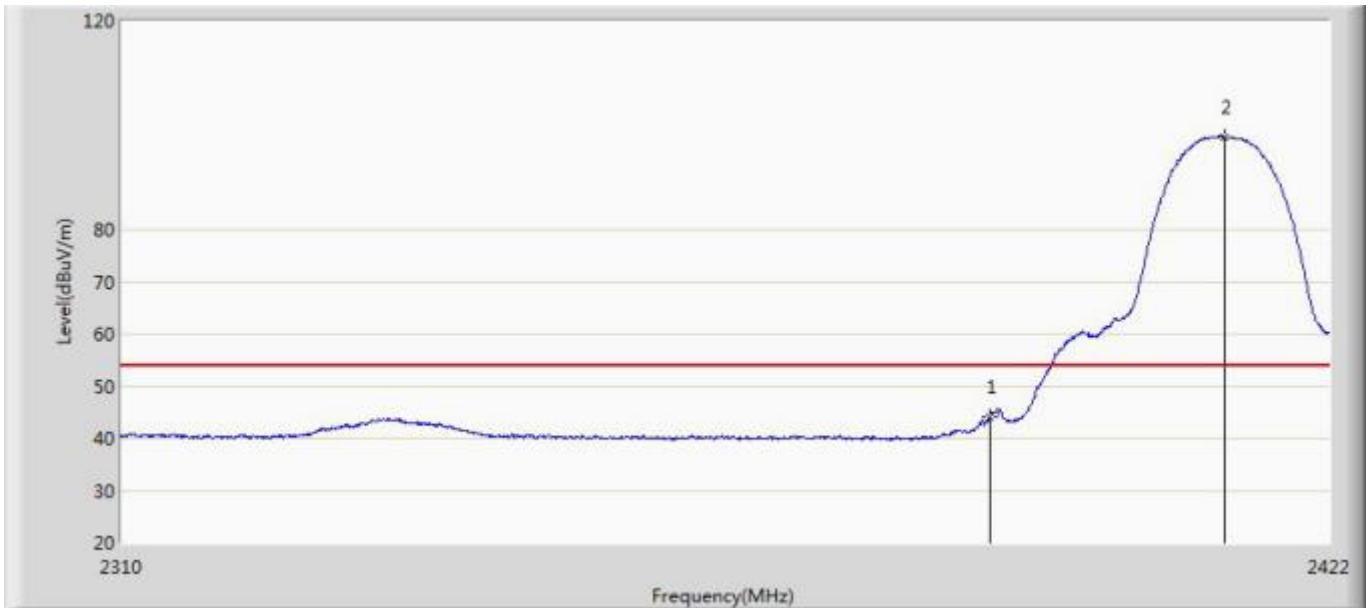
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 41.716 | 5.386 | -12.284 | 54.000 | 36.329 | AV |
| 2 | * | 2412.816 | 95.407 | 59.051 | N/A | N/A | 36.356 | AV |

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|--|--------------------------|
| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:44 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz at 802.11g with Ant 1 | |



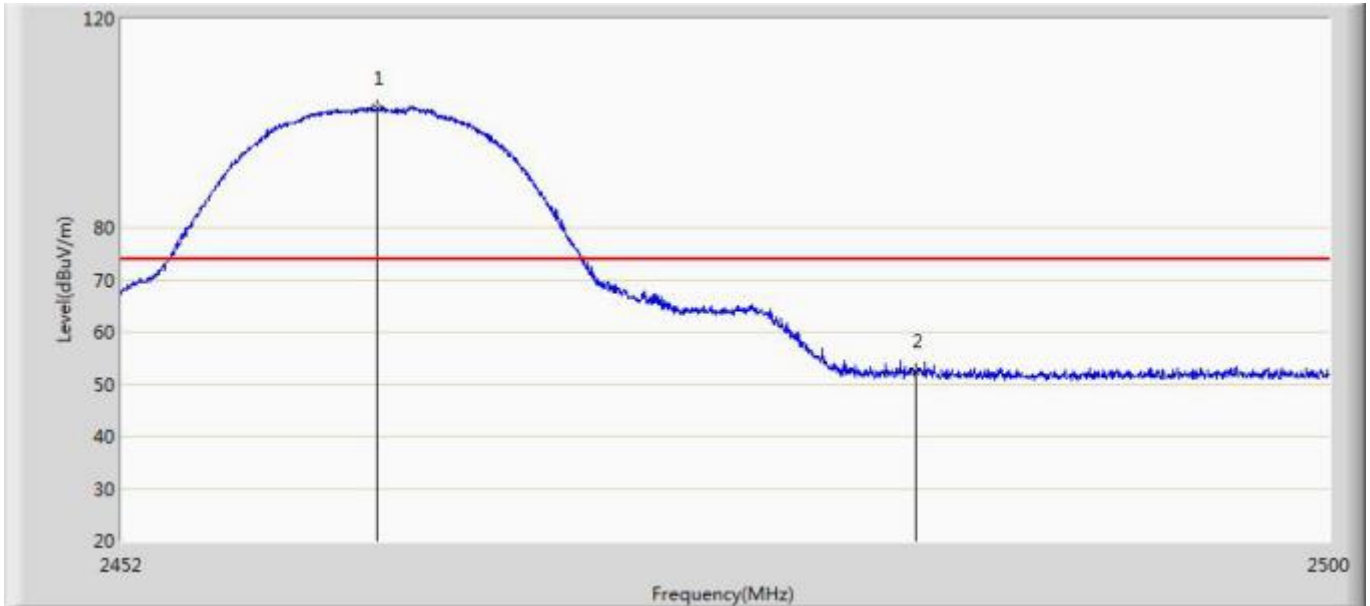
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 54.265 | 17.935 | -19.735 | 74.000 | 36.329 | PK |
| 2 | * | 2413.040 | 105.636 | 69.277 | N/A | N/A | 36.360 | PK |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:45 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz at 802.11g with Ant 1 | |



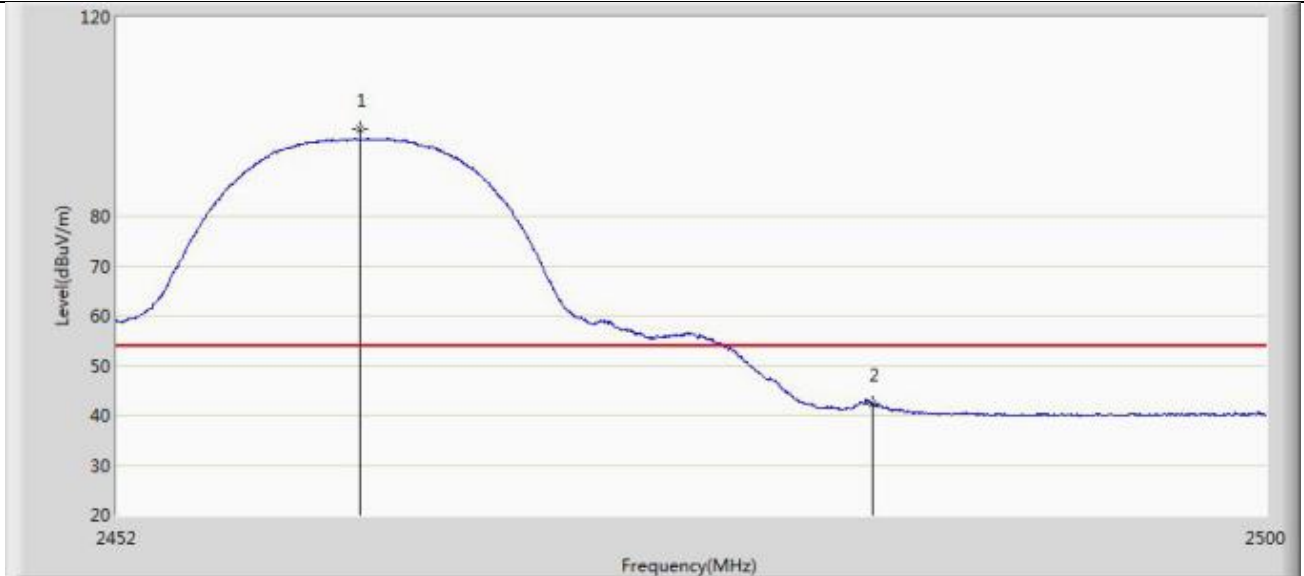
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 43.923 | 7.593 | -10.077 | 54.000 | 36.329 | AV |
| 2 | * | 2412.088 | 97.740 | 61.396 | N/A | N/A | 36.344 | AV |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:47 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2480MHz by 802.11g with Ant 1 | |



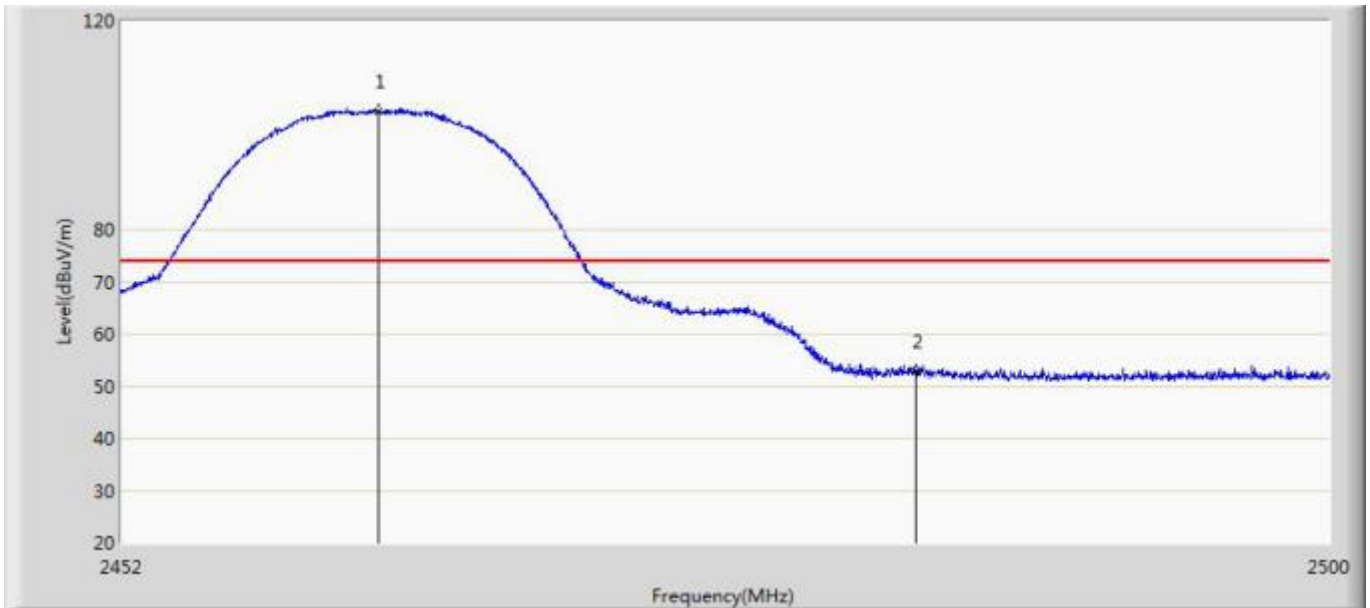
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.080 | 102.868 | 66.240 | N/A | N/A | 36.628 | PK |
| 2 | | 2483.500 | 52.362 | 15.895 | -21.638 | 74.000 | 36.467 | PK |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:49 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2480MHz by 802.11g with Ant 1 | |



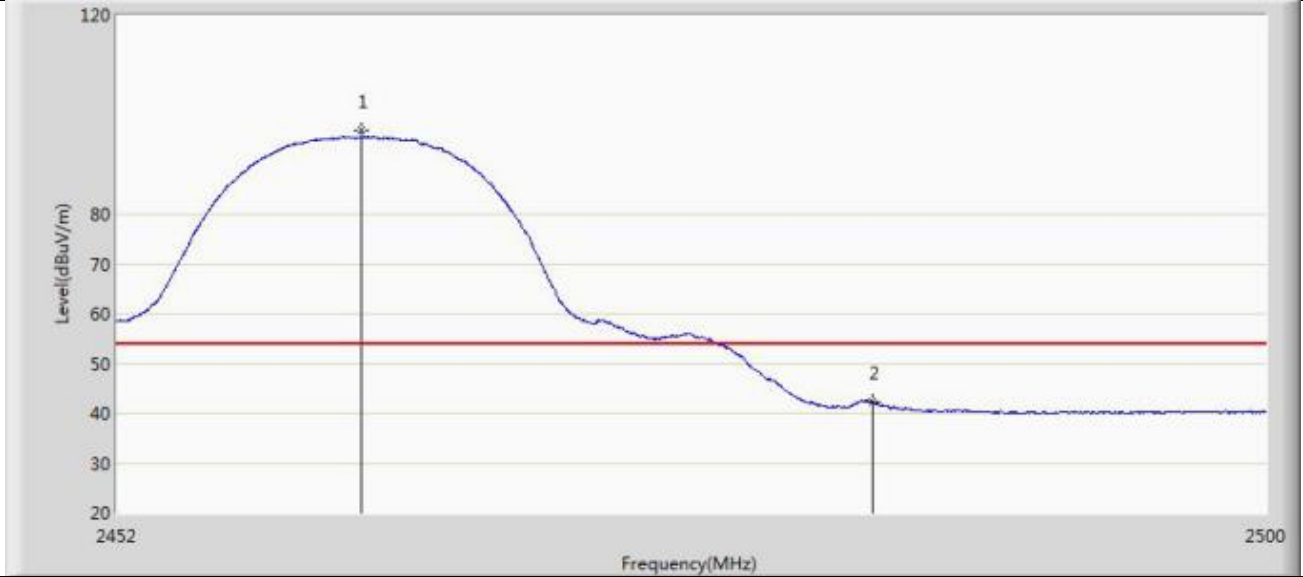
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.080 | 102.868 | 66.240 | N/A | N/A | 36.628 | AV |
| 2 | | 2483.500 | 42.229 | 5.762 | -11.771 | 54.000 | 36.467 | AV |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:52 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2480MHz by 802.11g with Ant 1 | |



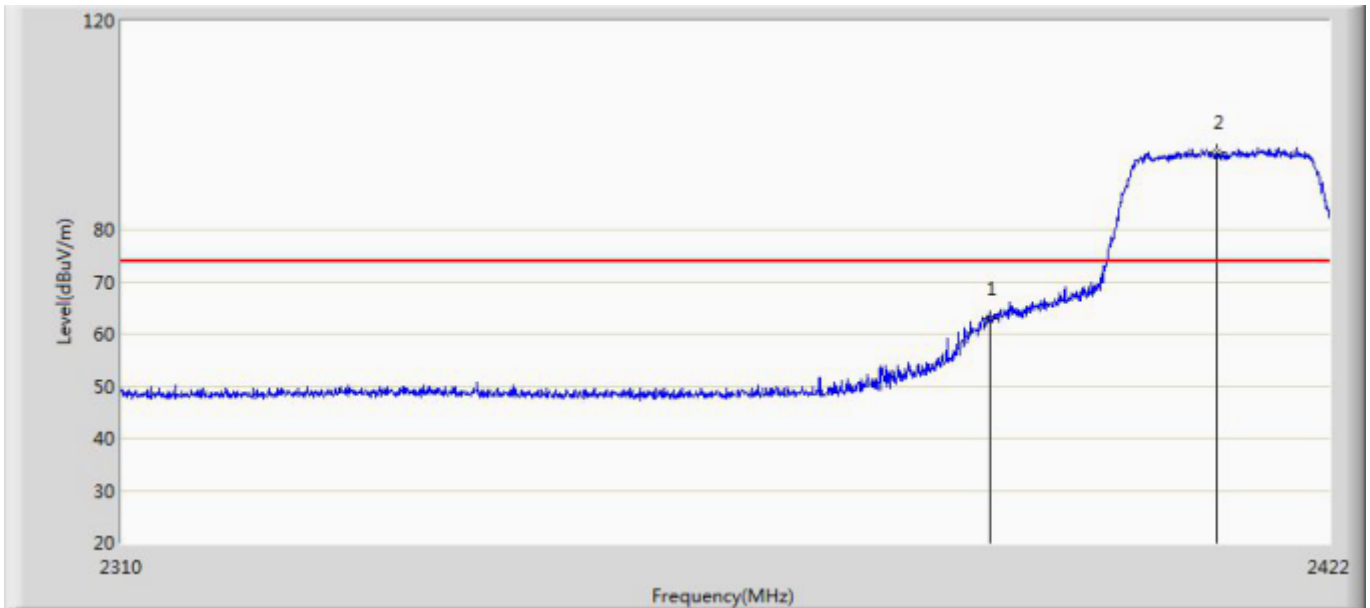
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.176 | 102.484 | 65.857 | N/A | N/A | 36.626 | PK |
| 2 | | 2483.500 | 52.666 | 16.199 | -21.334 | 74.000 | 36.467 | PK |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/12 - 17:54 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2480MHz by 802.11g with Ant 1 | |



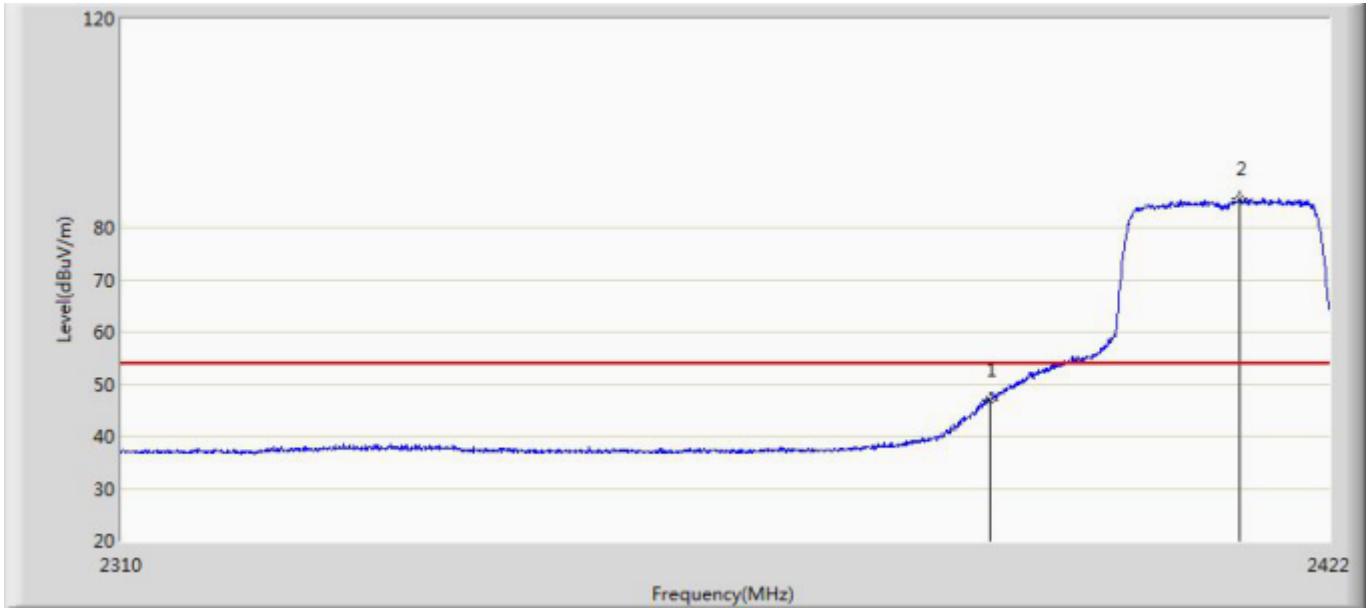
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | * | 2462.176 | 102.484 | 65.857 | N/A | N/A | 36.626 | AV |
| 2 | | 2483.500 | 42.313 | 5.846 | -11.687 | 54.000 | 36.467 | AV |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/28 - 08:59 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 with Ant 1 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 62.887 | 26.557 | -11.113 | 74.000 | 36.329 | PK |
| 2 | * | 2411.416 | 94.750 | 58.416 | N/A | N/A | 36.334 | PK |

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| Engineer: Tommie | |
| Site: AC5 | Time: 2018/02/28 - 09:06 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Connected Sleep & Wake-up light | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 with Ant 1 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1 | | 2390.000 | 46.835 | 10.505 | -7.165 | 54.000 | 36.329 | AV |
| 2 | * | 2413.600 | 85.574 | 49.206 | N/A | N/A | 36.368 | AV |