



| Prüfberich<br>Test Report No.       |                       | 19660367 001   |                                  | Seite 1 von 56<br>Page 1 of 56                               |
|-------------------------------------|-----------------------|--|----------------------------------|--|
| Auftraggeber:<br>Client:            |                       | American Megatrends<br>Kumaran Nagar, Sem<br>Off. Old Mahabalipura<br>Chennai-600119, India          | manchery,<br>m Road              | ited   |
| Gegenstand de                       | er Prüfun             | g: B.O.L.T Chest ECG   |                                  |  |
| Bezeichnung:<br>Identification:     |                       | VA07   | <b>Serien-Nr.:</b><br>Serial No. | Engineering Sample   |
| Wareneingang<br>Receipt No.:        | s-Nr.:                | 1803293443   | Eingangsdat<br>Date of receip    |  |
| Prüfort:<br>Testing location        | n:                    | Refer Page 5 of 56 for   | Test site details                |  |
| Prüfgrundlage<br>Test specification |                       | FCC Part 15 Subpart<br>ANSI C63.10-2013  | C 15.247                         |  |
| Prüfergebnis:<br>Test Result:       |                       | Der Prüfgegenstand e<br>The test items passed  |                                  | enannter Prüfgrundlage(n).<br>on(s).                         |
| Prüflaboratorion<br>Testing Labora  |                       | TÜV Rheinland (India)<br>27/B, 2nd Cross, Electr<br>Bangalore – 560 100. I<br>FCC Test Site Registra | onic City Phase 1                |  |
| geprüft / tested                    | l by:                 | 1 00 Test Olic Negistra  | kontrolliert / revi              | iewed by:  |
| 14.03.2018                          | Girish Ku<br>Engineer |  | Assis                            | baba Siddapur taibaba<br>stant Manager                       |
| Datum<br>Date                       | Name/Posi             | lung Unterschrift<br>tion Signature  |                                  | ne/Stellung Unterschrift<br>ne/Position Signature            |
| Sonstiges /Oth                      |                       | - 1 000 22   | G-02                             |  |
|                                     |                       | On receipt the equipme   | ent was in good co               | ondition   |
| Abkürzungen:                        | P(ass) =<br>F(ail) =  | entspricht Prüfgrundlage<br>entspricht nicht Prüfgrundlage   | Abbreviations                    | : P(ass) = passed<br>F(ail) = failed<br>N/A = not applicable |

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.



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# **Test Summary**

| Section                           | Test item   | Result | Remarks |
|-----------------------------------|---|--------|---------|
| 15.247 (b)                        | Maximum Peak Conducted Output Power                           | Pass   |         |
| 15.247 (a) (1)                    | 20dB Bandwidth  | Pass   |         |
| 15.247 (a) (1)(III)               | Number of Hopping Channels                                    | Pass   |         |
| 15.247 (a)(1)                     | Carrier Frequency Separation                                  | Pass   | -       |
| 15.247 (a)(1)(III)                | Time of Occupancy<br>(Dwell Time)                             | Pass   |         |
| 15.247 (d)                        | Band Edge Compliance of RF<br>Conducted Emissions             | Pass   |         |
| 15.247 (d) / (15.209 &<br>15.205) | Restricted bands of Emissions & Restricted Bands of Operation | Pass   |         |
| 15.207                            | Conducted Emission Test on A.C Power Lines                    | Pass   |         |





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#### **GENERAL REMARKS** 1

## **Complimentary Materials**

All attachments are integral part of this test report. This applies especially to the following appendix:

**APPENDIX 1:** TEST SETUP PHOTOS

**APPENDIX 2: EUT EXTERNAL PHOTOS** 

**APPENDIX 3: EUT INTERNAL PHOTOS** 

**APPENDIX 4: FCC LABEL AND LABEL LOCATION** 

**APPENDIX 5:** BLOCK DIAGRAM

**APPENDIX 6: SPECIFICATION OF EUT** 

**APPENDIX 7: SCHEMATIC DIAGRAM** 

**APPENDIX 8: BILL OF MATERIAL** 

**APPENDIX 9: USER MANUAL** 

**APPENDIX 10: SAR EXCLUSION CALCULATION** 





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#### 2 **TEST SITES**

## **Testing Facilities**

TUV Rheinland (India) Private Limited 108, Beside ISBR Business School, Electronic city Phase I Bangalore - 560 100

## **List of Test and Measurement Instruments**

Table 1: List of test and measurement instruments

| Equipment                     | Manufacturer                   | Model<br>Name           | Serial<br>Number | Calibration<br>Due Date | Periodicity | Used for Test<br>Items           |
|-------------------------------|--------------------------------|-------------------------|------------------|-------------------------|-------------|----------------------------------|
| Spectrum<br>Analyser          | Agilent<br>Technologies        | E4407B                  | US411927<br>72   | 29.03.2019              | Yearly      | Antenna - Port<br>Measurements   |
| EMI Test<br>Receiver          | Rohde &<br>Schwarz             | ESU 40                  | 100288           | 24-10-2018              | Yearly      |                                  |
| Active loop antenna           | Frankonia                      | LAX-10                  | LAX-10-<br>800   | 13-04-2018              | Yearly      |                                  |
| Biconical<br>Antenna          | Schwarzbeck<br>mess-elektronik | VHBB-9124<br>/ BBA-9106 | 9124-656         | 09-01-2019              | Yearly      |                                  |
| Log-Periodic<br>Antenna       | Schwarzbeck<br>mess-elektronik | VUSLP-<br>9111B         | 9111B-111        | 16-01-2019              | Yearly      | Radiated<br>Spurious<br>Emission |
| Broadband<br>Horn Antenna     | Frankonia                      | HAX-18                  | HAX18-802        | 16-09-2018              | Yearly      |                                  |
| Emission Horn<br>Antenna      | ETS Lindgren                   | 116706                  | 00107323         | 22-06-2018              | Yearly      |                                  |
| Semi Anechoic<br>Chamber      | Frankonia                      | -                       | -                | -                       | -           |                                  |
| EMI Test<br>Receiver          | Rohde &<br>Schwarz             | ESR7                    | 101133           | 13.02.2019              | Yearly      | Conducted<br>Emission on         |
| Two Line V-<br>Network (LISN) | Rohde &<br>Schwarz             | ENV216                  | 100022           | 05.09.2018              | Yearly      | AC Power<br>Lines                |





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#### **GENERAL PRODUCT INFORMATION** 3

#### **Product Function and Intended Use**

B.O.L.T Chest ECG device is a portable diagnostic system which can measure/monitor the electrical activity of the heart over a period of time using the ECG electrodes placed on the user's body. The device monitors the ECG waveform from the chest Left, Right alone with a reference Electrode. The acquired and processed ECG data obtained from the device is transmitted to a mobile device wirelessly for further processing and analysis. The ECG data acquired by the device can be used to obtain clinical consultation from cardiologists or healthcare practitioners.

## **Ratings and System Details**

**Table 2: Ratings and System Details** 

| Operating Frequency Range | 2400 MHz – 2483.5 MHz;   |
|---------------------------|--|
| Radio Protocol            | Bluetooth ( BDR+EDR)   |
| Verified RF Power         | -05.45 dBm   |
| Channel Spacing           | 1 MHz  |
| Modulation                | BDR (GFSK),<br>EDR ( Pi/4-DQPSK, 8DPSK)                              |
| Number of antennas        | 1  |
| Antenna Type & gain       | Chip Antenna & 0.5 dBi   |
| Supply Voltage to Product | 5 VDC from Power Adaptor   |
| Environmental conditions  | Storage Condition: 10°C to 55°C Operational conditions: 16°C to 35°C |

Products

Products



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## **Measurement Uncertainty:**

**Table 3: Measurement Uncertainty** 

| Parameter                         | Uncertainty |
|-----------------------------------|-------------|
| Occupied Channel Bandwidth        | ±5 %        |
| RF output power, conducted        | ±1.5 dB     |
| Power Spectral Density, conducted | ±3 dB       |
| Unwanted Emissions, conducted     | ±3 dB       |
| All emissions, radiated           | ±6 dB       |
| Temperature                       | ±3 °C       |
| Supply Voltages                   | ±3 %        |
| Time                              | ±5 %        |

# 4 TEST SET-UP AND OPERATION MODE

## **Principle of Configuration Selection**

Transmission was enabled with hopping mode / highest possible duty cycle transmission on low, mid and high channel.

## **Test Operation and Test Software**

Testing software was used to enable the continuous transmission on low/mid/high channels on the EUT for the tests in this report.

Test software used: CSR Bluetest3

Software Version: BlueSuite 2.6.0

Hardware Version: ECG\_2V2

## **Special Accessories and Auxiliary Equipment**

- None

## **Countermeasures to achieve EMC Compliance**

- None

#### Test modes - data rates and modulations

For Radiated spurious emissions, the tests were performed for all data rates and only worst case results are reported in this report.

Note: The testing was performed with the power settings of -4 dBm in the Bluetest software.







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# **List of frequencies**

**Table 4: List of Center Frequiences** 

| Frequency Band<br>(MHz) | Channel No. | Channel Frequency<br>(MHz) |
|-------------------------|-------------|----------------------------|
|                         | 0           | 2402                       |
|                         | 1           | 2403                       |
|                         | 2           | 2404                       |
|                         | 3           | 2405                       |
|                         | :           | :                          |
|                         | :           | :                          |
|                         | :           | :                          |
|                         | 37          | 2439                       |
| 2400 – 2483.5           | 38          | 2440                       |
| BT(BDR+EDR)             | 39          | 2441                       |
| B (BBIX+EBIX)           | 40          | 2442                       |
|                         | :           | :                          |
|                         | :           | :                          |
|                         | :           | :                          |
|                         | 74          | 2476                       |
|                         | 75          | 2477                       |
|                         | 76          | 2478                       |
|                         | 77          | 2479                       |
|                         | 78          | 2480                       |





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#### **TEST METHODOLOGY** 5

#### **Radiated Emission Test**

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000 MHz was performed by horn antenna, The measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 200 MHz was performed by Baloon and Biconical Antenna, and mesurement from 200 MHz to 1 GHz was performed by Log-Periodic Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded.



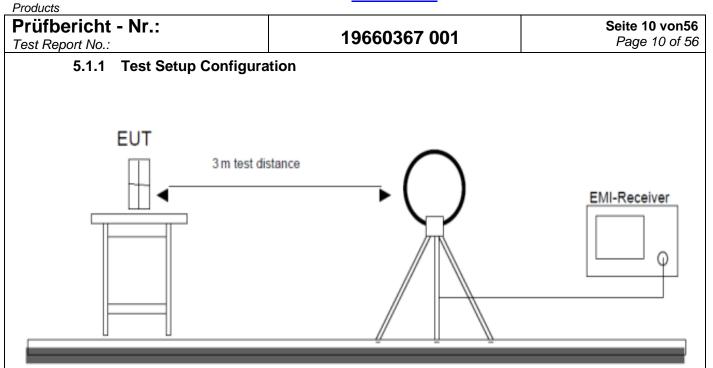


Figure 1: Frequency Range 9 kHz- 30 MHz

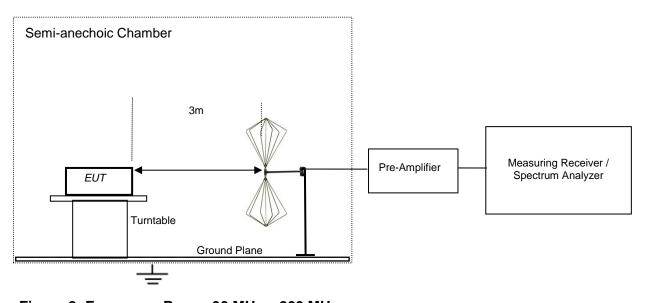


Figure 2: Frequency Range 30 MHz - 200 MHz

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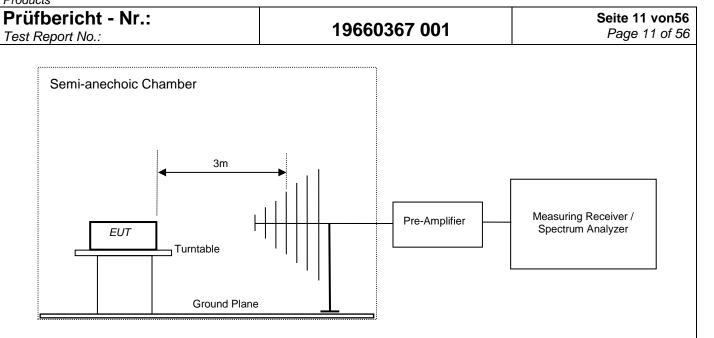


Figure 3: Frequency Range 200 MHz - 1GHz

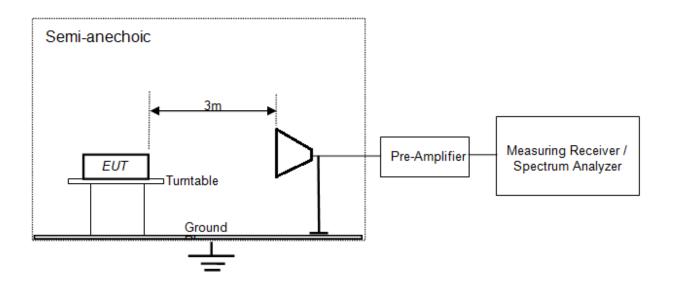


Figure 4: Frequency Range above 1 GHz







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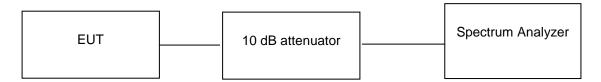
#### 6 **TEST RESULTS**

## **Maximum Peak Conducted Output Power**

**Pass** 

**Test Specification** FCC part 15 Subpart C 15.247 (b)(1)

Measurement Bandwidth 3 MHz Detector Peak



Note: Measurements were made as per DA-00-705, filing and measurements guidelines for 15.247, FHSS systems Mar.30,2000 mentioned in ANSI C63.10-2013.

#### Test results:

10 dB attenuator + 0.7 Cable loss = 10.7 dB offset is considered in below result

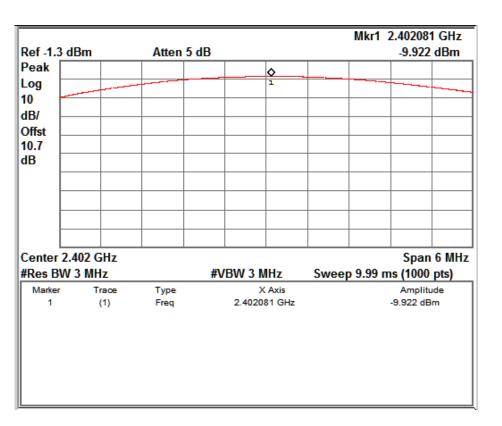
Table 5: Maximum peak conducted output power verified Test Results

| Modulation Type | Channel Frequency (MHz) | Output power (dBm) | Limit<br>(dBm) |
|-----------------|-------------------------|--------------------|----------------|
|                 | 2402                    | -9.92              | 30             |
| 1 Mbps          | 2441                    | -5.45              | 30             |
|                 | 2480                    | -5.55              | 30             |
| 2 Mbps          | 2402                    | -10.85             | 30             |
|                 | 2441                    | -6.54              | 30             |
|                 | 2480                    | -6.71              | 30             |
| 3 Mbps          | 2402                    | -10.49             | 30             |
|                 | 2441                    | -6.15              | 30             |
|                 | 2480                    | -6.33              | 30             |

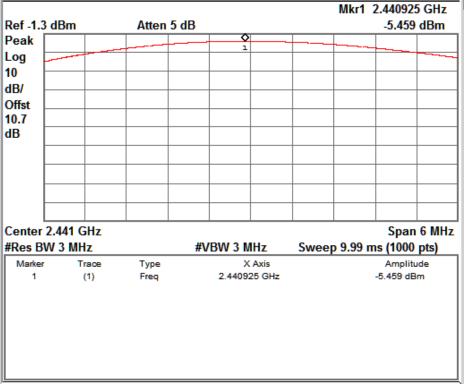


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## 1 Mbps Channel low - 2402 MHz



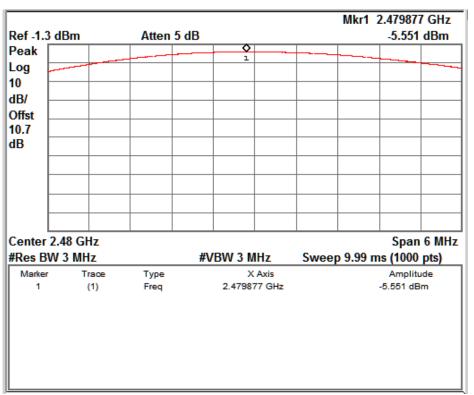
1 Mbps Channel mid – 2441 MHz



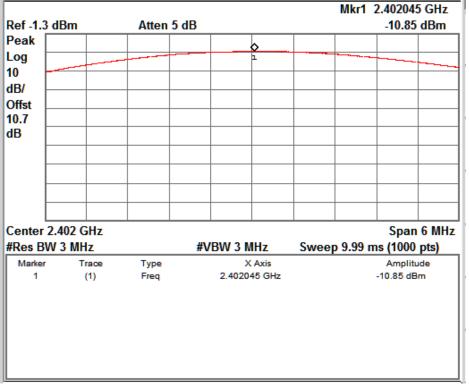


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1 Mbps Channel high - 2480 MHz

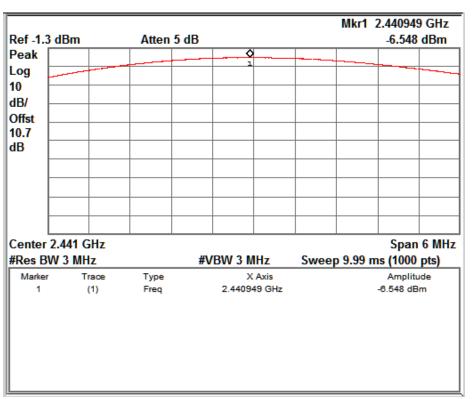


2 Mbps Channel low - 2402 MHz

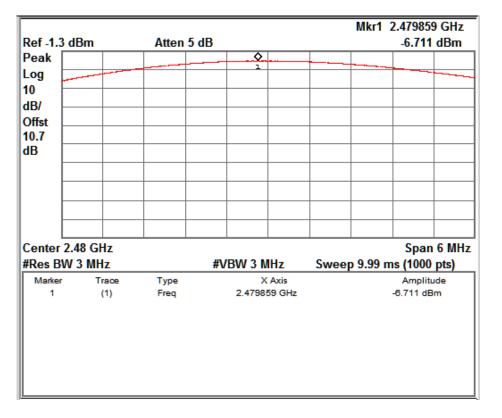


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2 Mbps Channel mid - 2441 MHz



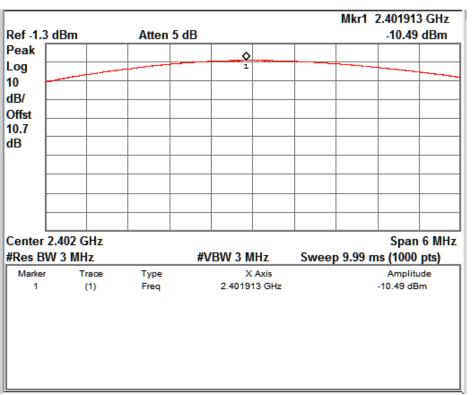
2 Mbps Channel high - 2480 MHz



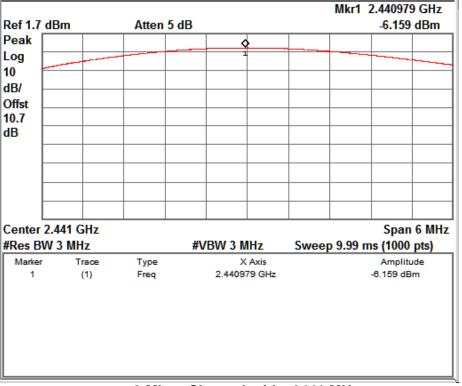


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3 Mbps Channel low - 2402 MHz



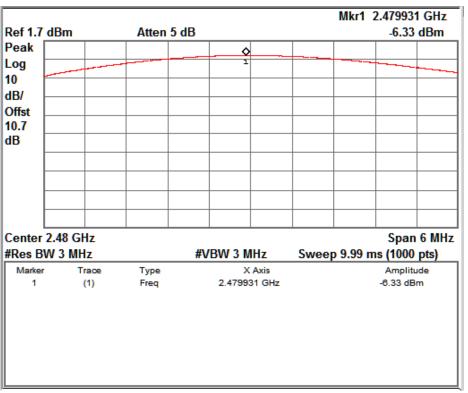
3 Mbps Channel mid - 2441 MHz





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3 Mbps Channel high - 2480 MHz



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## 20 dB Bandwidth

Result **Pass** 

**Test Specification** FCC part 15 Subpart C Section 15.247 (a)(1)

Peak Detector

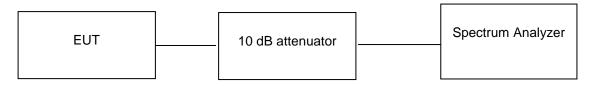
Antenna Port Port of testing

> The bandwidth of frequency hopping channel is the 20 dB emission bandwidth , measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies

appears random, with sequential hops randomly distributed in both direction

and magnitude of change in the hopset while the long-term distribution

appears evenly distributed.



Note: Measurements were made as per DA-00-705, filing and measurements guidelines for 15.247, FHSS systems Mar.30,2000 mentioned in ANSI C63.10-2013.

#### Test results:

Requirement

10 dB attenuator + 0.7 Cable loss = 10.7 dB offset is considered in below result

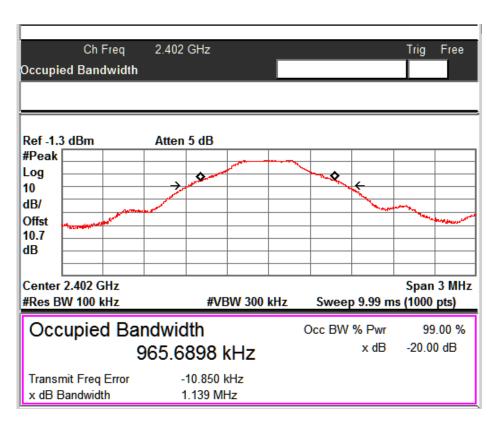
Table 6: 20dB Bandwidth and Occupied Bandwidth Test Results

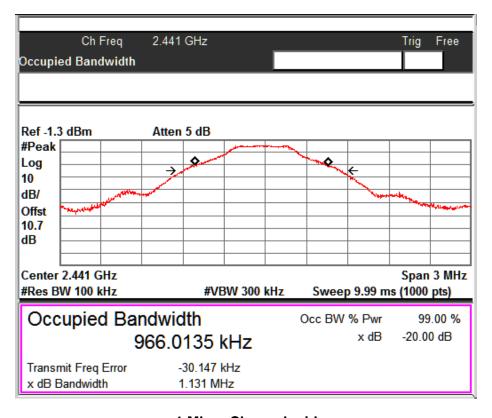
| Modulation type | Channel<br>Frequency<br>(MHz) | 20dB Bandwidth<br>(MHz) | 99% Occupied<br>Bandwidth<br>(MHz) |
|-----------------|-------------------------------|-------------------------|------------------------------------|
|                 | 2402                          | 1.139                   | 0.965                              |
| 1 Mbps          | 2441                          | 1.131                   | 0.966                              |
|                 | 2480                          | 1.179                   | 0.981                              |
| 2 Mbps          | 2402                          | 1.391                   | 1.222                              |
|                 | 2441                          | 1.392                   | 1.222                              |
|                 | 2480                          | 1.391                   | 1.227                              |
| 3 Mbps          | 2402                          | 1.391                   | 1.231                              |
|                 | 2441                          | 1.391                   | 1.231                              |
|                 | 2480                          | 1.391                   | 1.234                              |



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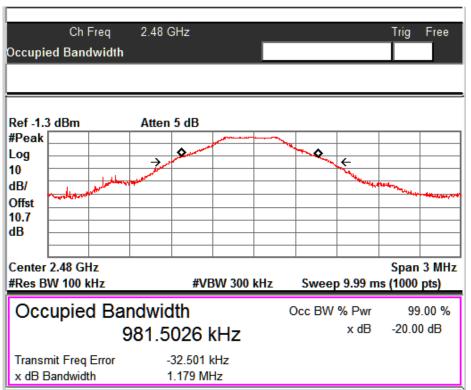


1 Mbps Channel mid

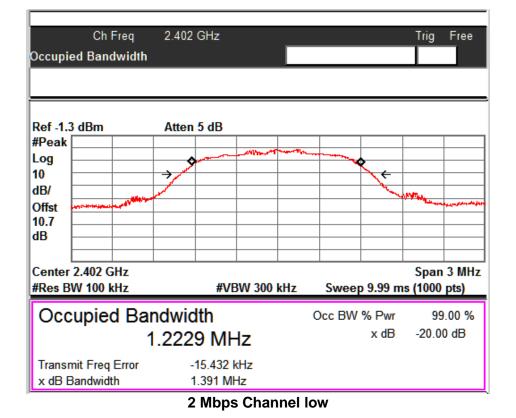


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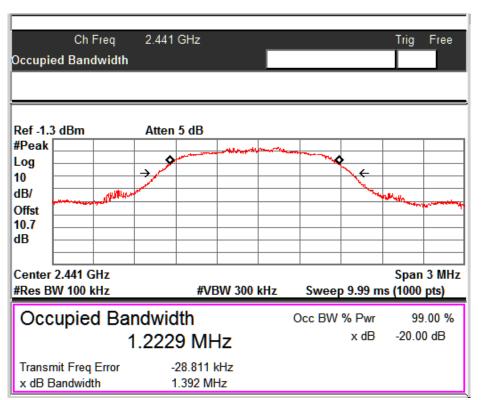
1 Mbps Channel high



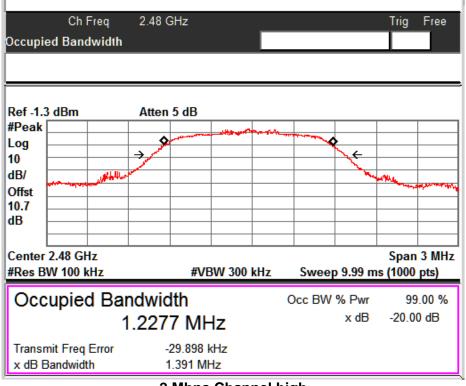


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2 Mbps Channel mid

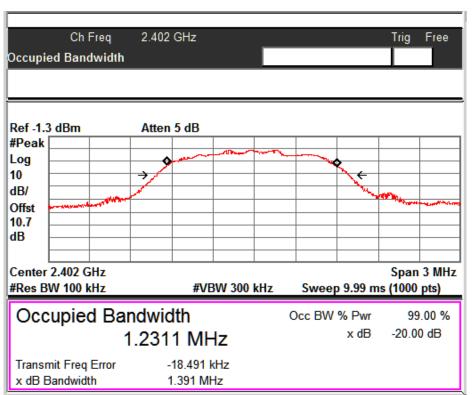


2 Mbps Channel high

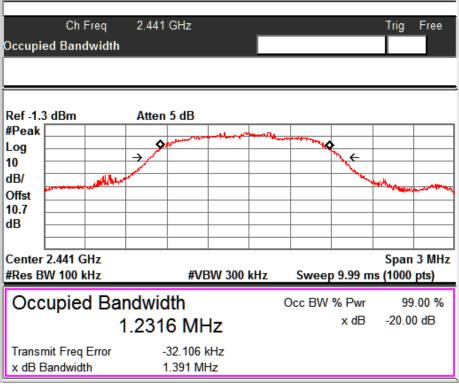


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3 Mbps Channel low



3 Mbps Channel mid



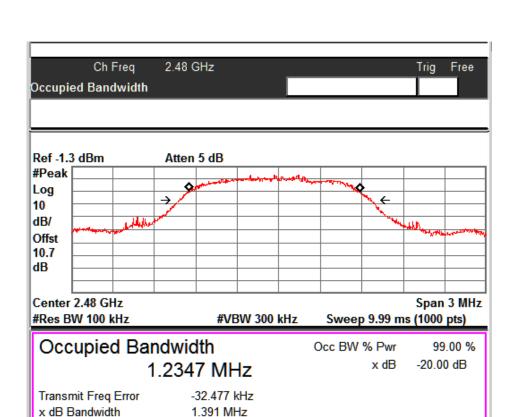
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3 Mbps Channel high







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## **Number of Hopping Channels**

Result **Pass** 

**Test Specification** FCC Part 15 Subpart C Section 15.247 (a) (1)

**Detector Function** Peak

Port of testing Antenna port

Requirement Frequency hopping systems operating in the band 2400-2483.5

MHz shall use at least 15 hopping channels

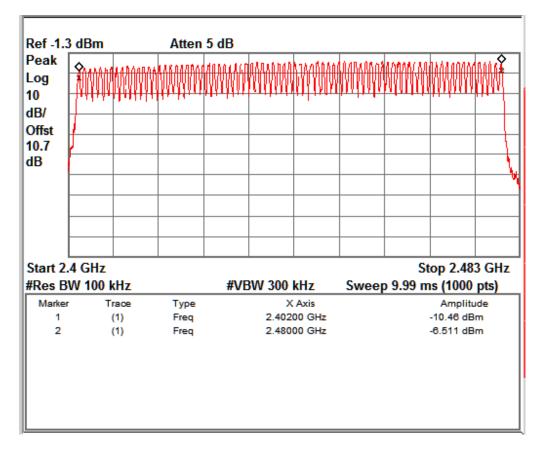
Test Method:



Note: Measurements were made as per DA-00-705, filing and measurements guidelines for 15.247, FHSS systems Mar.30,2000 mentioned in ANSI C63.10-2013.

#### Test results:

10 dB attenuator + 0.7 Cable loss = 10.7 dB offset is considered in below result



Total Number of hopping channels = 79



Products

Products

roducts



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# **Carrier Frequency Separation**

Result

Test Specification FCC Part 15 Subpart C Section 15.247 (a) (1)

Detector Function Peak

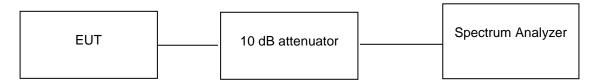
Port of testing Antenna port

Requirement Frequency hopping systems shall have hopping channel carrier

frequency separated by a minimum of 25kHz or the 20dB

bandwidth of the hopping channel, whichever is greater

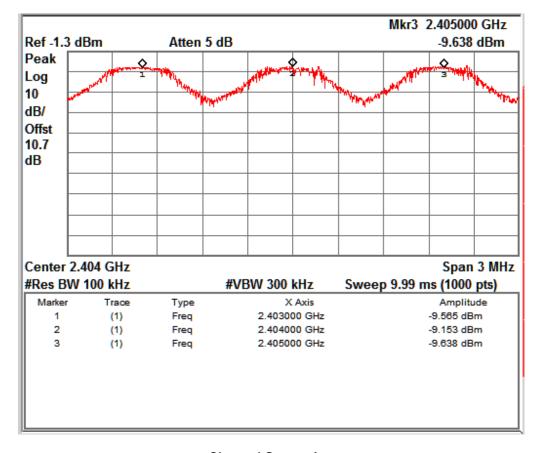
#### **Test Method:**



**Note:** Measurements were made as per DA-00-705, filing and measurements guidelines for 15.247, FHSS systems Mar.30,2000 mentioned in ANSI C63.10-2013.

10 dB attenuator + 0.7 Cable loss = 10.7 dB offset is considered in below result

#### Test results:



#### **Channel Separation**



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# **Time of Occupancy (Dwell Time)**

Result **Pass** 

**Test Specification** FCC Part 15 Subpart C Section 15.247 (a) (1)

**Detector Function** Peak

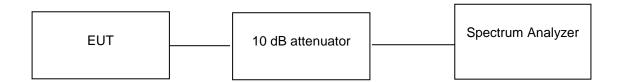
Port of testing Antenna port

Requirement The average time of occupancy on any channel shall not be

> greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed

provided that a minimum of 15 hopping channels are used.

#### **Test Method:**



Note: Measurements were made as per DA-00-705, filing and measurements guidelines for 15.247, FHSS systems Mar.30,2000 mentioned in ANSI C63.10-2013.

#### **Test Results:**

| Time slot |                            | Time Slot | Limit |  |
|-----------|----------------------------|-----------|-------|--|
| DH        | Measurement<br>Value (sec) | (s)       | (s)   |  |
| DH5       | 0.00288                    | 0.307     | 31.6  |  |
| 2DH5      | 0.00290                    | 0.309     | 31.6  |  |
| 3DH5      | 0.00290                    | 0.309     | 31.6  |  |

#### **Measurement Method**

Period Time = 0.4(sec)\*79 (hopping channel) = 31.6 s

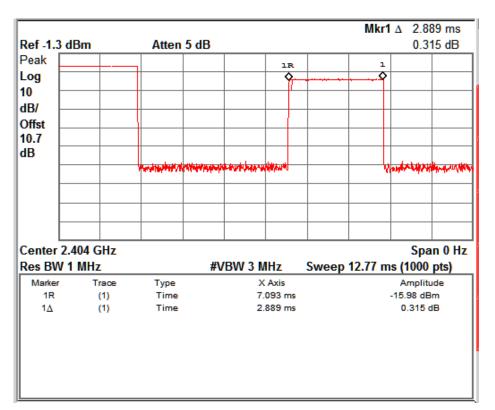
DH Time slot = Measurement value (Sec)\*(1600/ (6\*79))\*Period time



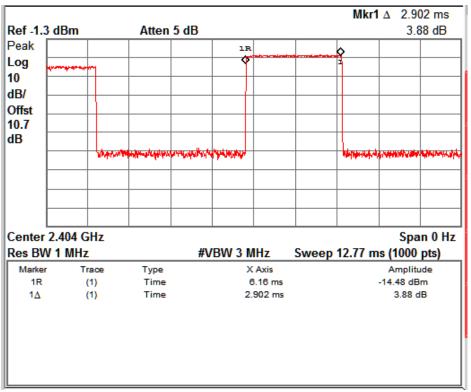


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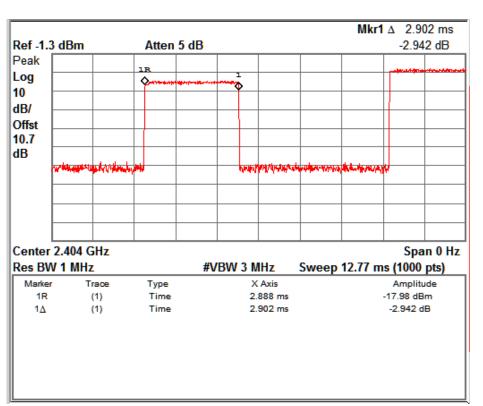
DH5





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3DH5





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# **Band- edge Compliance of RF Conducted Emissions**

Result **Pass** 

Test Specification FCC Part 15 Subpart C Section 15.247 (a) (1)

**Detector Function** Peak

Port of testing Antenna port

Requirement In any 100kHz bandwidth outside the frequency band in which the

spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates

compliance with the peak conducted power limits.

#### **Test Method:**



Note: Measurements were made as per DA-00-705, filing and measurements guidelines for 15.247, FHSS systems Mar.30,2000 mentioned in ANSI C63.10-2013.

#### **Test Result:**

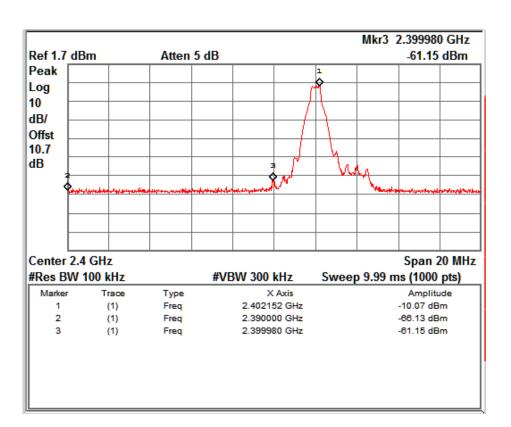
10 dB attenuator + 0.7 Cable loss = 10.7 dB offset is considered in below result

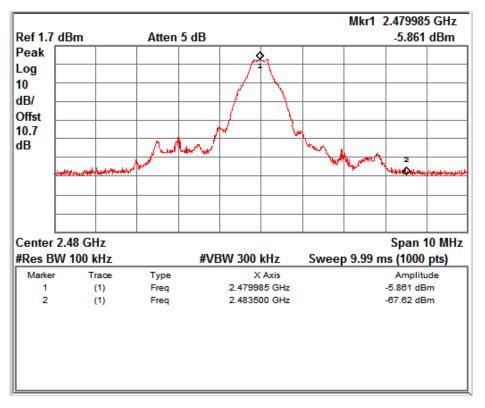
| Modulation |         | Fundamental        | Value at Band Edge |               | Limit |
|------------|---------|--------------------|--------------------|---------------|-------|
| type       | Channel | Frequency<br>(MHz) | Frequency<br>(MHz) | Value<br>(dB) | (dB)  |
| 1 Mbpo     | Low     | 2402               | 2399.9             | -51.08        | -20   |
| 1 Mbps     | High    | 2480               | 2483.5             | -61.75        | -20   |
| 2 Mbps     | Low     | 2402               | 2399.9             | -47.83        | -20   |
| 2 Mbps     | High    | 2480               | 2483.5             | -56.17        | -20   |
| 3 Mbps     | Low     | 2402               | 2399.9             | -47.23        | -20   |
|            | High    | 2480               | 2483.5             | -57.45        | -20   |



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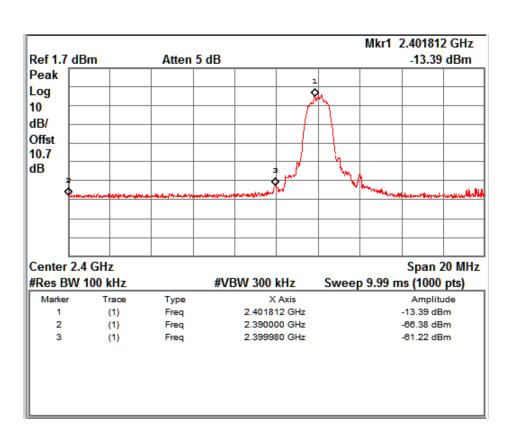


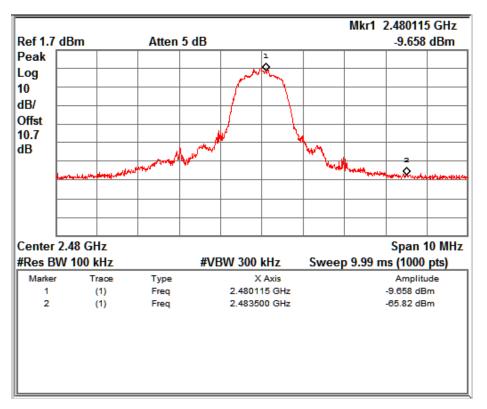
1 Mbps Channel high



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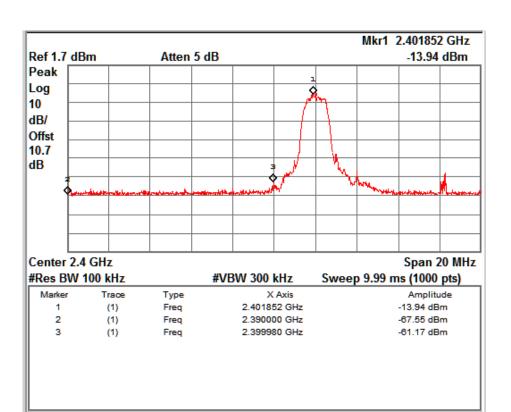


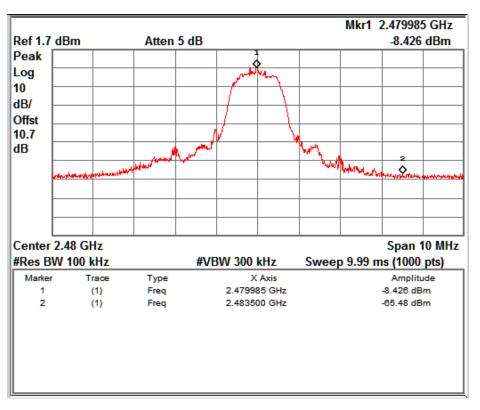
2 Mbps Channel high



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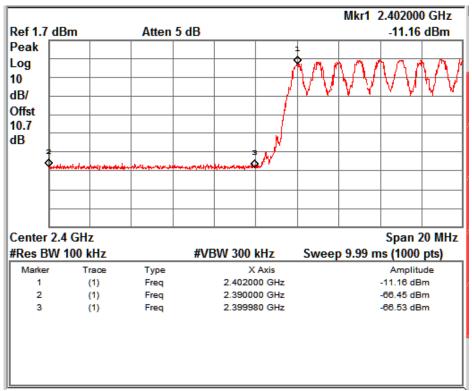
3 Mbps Channel high



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## **Hopping mode Test Results:**

| Modulation |                         | Fundamental        | Value at Band Edge |        | Limit |
|------------|-------------------------|--------------------|--------------------|--------|-------|
| type       | Channel Frequency (MHz) | Frequency<br>(MHz) | Value<br>(dB)      | (dB)   |       |
| 1 Mbpo     | Low                     | 2402               | 2399.9             | -55.37 | -20   |
| 1 Mbps     | High                    | 2480               | 2483.5             | -43.42 | -20   |
| 2 Mb so    | Low                     | 2402               | 2399.9             | -46.33 | -20   |
| 2 Mbps     | High                    | 2480               | 2483.5             | -43.42 | -20   |
| 2 Mbps     | Low                     | 2402               | 2399.9             | -49.41 | -20   |
| 3 Mbps     | High                    | 2480               | 2483.5             | -52.31 | -20   |

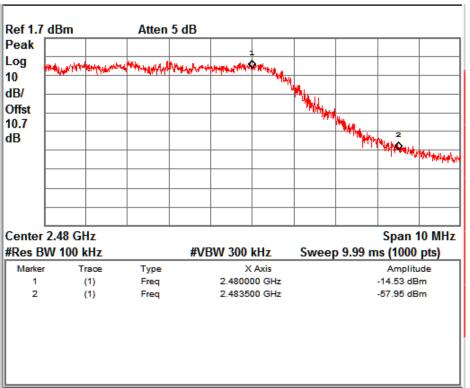


1 Mbps Channel low

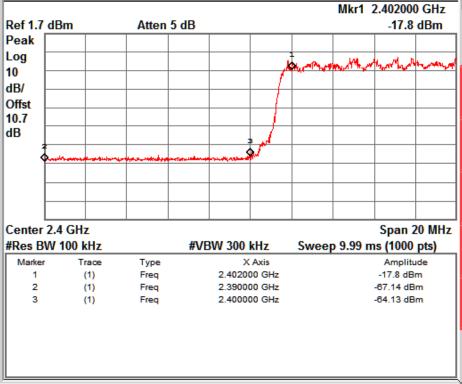


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1 Mbps Channel high

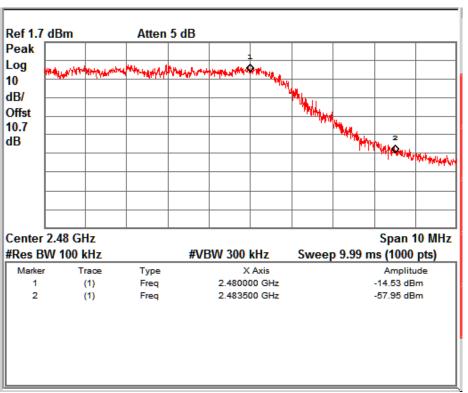


2 Mbps Channel low

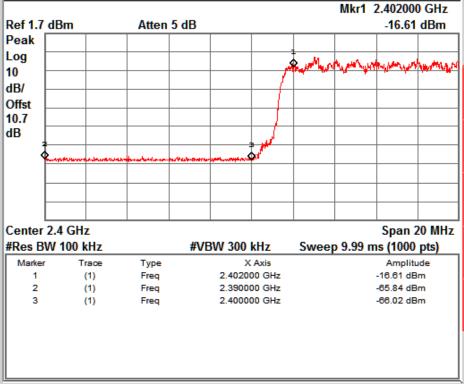


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2 Mbps Channel high



3 Mbps Channel low

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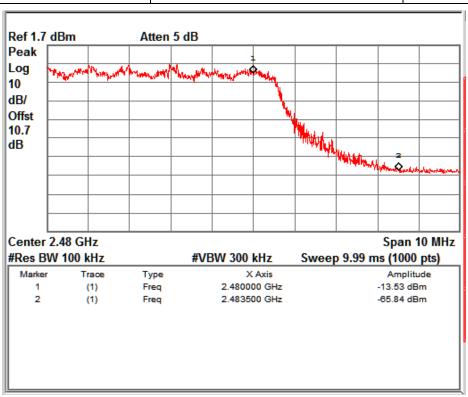
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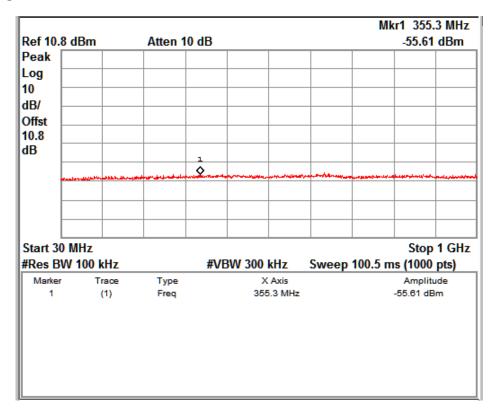
3 Mbps Channel high



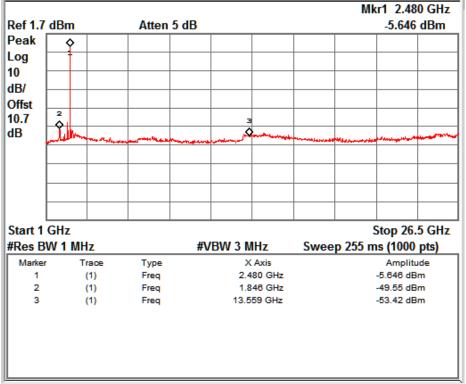
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### **Conducted Spurious Emissions**

### Frequency range = 30 MHz to 1 GHz



### Frequency range = 1 GHz to 26.5 GHz Spurious Emissions

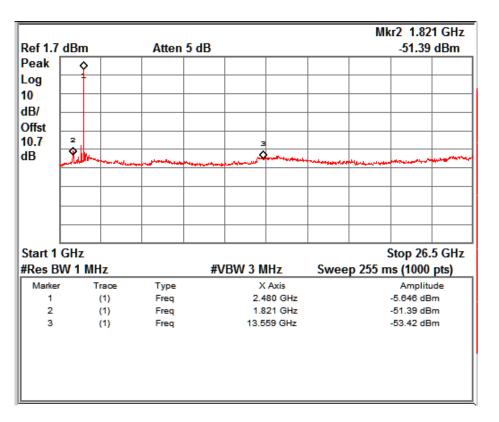


1 Mbps Channel low

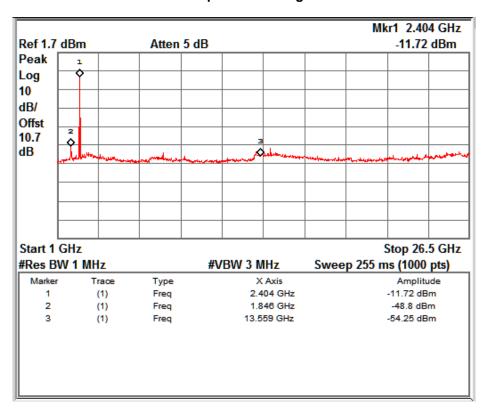
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### 1 Mbps Channel High



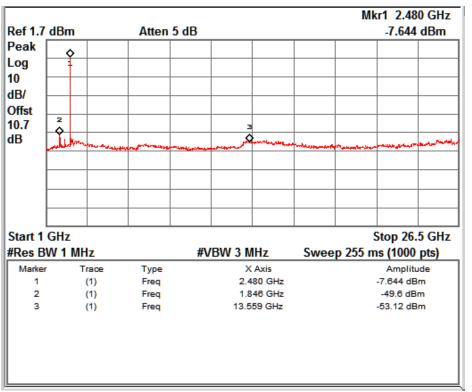
2 Mbps Channel low



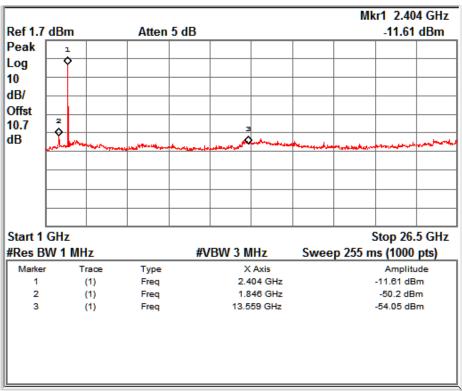


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2 Mbps Channel high



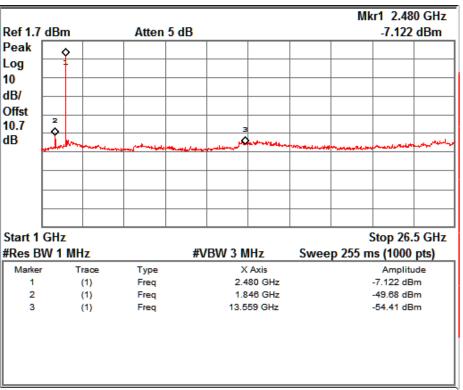
3 Mbps Channel low





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3 Mbps Channel high



Products



**Pass** 

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### Restricted bands of Emissions & Restricted Bands of Operation Result

Test Specification FCC part 15 Subpart C Section 15.247 (d) / (15.209 & 15.205)

**Test Method** ANSI C 63.10 - 2013 Semi Anechoic Chamber Measurement Location

Measuring Distance 3 m

Detector QP for frequency below 1 GHz, average for frequency above 1 GHz

Requirement As per the limits mentioned in the below table

Table 7: Transmitter limits for Radiated emission of Section 15.209

| Frequency<br>(MHz) | Field strength<br>(μV/m) | Field strength<br>(dBμV/m) | Distance of Measurement (m) |
|--------------------|--------------------------|----------------------------|-----------------------------|
| 0.009 - 0.490      | 2400/F(kHz)              | 48.50 – 13.80              | 300*                        |
| 0.490 – 1.705      | 24000/F(kHz)             | 33.80 – 23.00              | 30*                         |
| 1.705 -30          | 30                       | 29.54                      | 30*                         |
| 30-88              | 100                      | 40.0                       | 3                           |
| 88-216             | 150                      | 43.5                       | 3                           |
| 216-960            | 200                      | 46.0                       | 3                           |
| Above 960          | 500                      | 54.0                       | 3                           |

Remark: \* The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 - 93.80, 73.80 - 62.96 and 69.54 dB $\mu$ V/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

#### **Test Conditions:**

Supply Voltage: 5 VDC from Power adapter

#### **Environmental conditions:**

Temperature: +23.5 °C RH: 61.7 %





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### Test results:

No emissions found in frequency 9 kHz to 30 MHz

### Test results for frequencies in the range 30 MHz - 200 MHz

### Adapter 1 with Battery 1 combination

| Polarization | Frequency<br>(MHz) | Measured value<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|----------------------------|-------------------|----------------|
| Martinal     | 46.97              | 27.03                      | 40                | -12.97         |
| Vertical     | 148.04             | 26.43                      | 43.5              | -17.07         |
| Harizantal   | 87.23              | 18.03                      | 40                | -21.97         |
| Horizontal   | 180.73             | 21.25                      | 43.5              | -22.25         |

### Adapter 1 with Battery 2 combination

| Polarization | Frequency<br>(MHz) | Measured value<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|----------------------------|-------------------|----------------|
| Vertical     | 45.61              | 21.52                      | 40                | -18.48         |
| vertical     | 149.31             | 23.65                      | 43.5              | -19.85         |
| Horizontal   | 87.52              | 18.11                      | 40                | -21.89         |
| Honzontai    | 149.11             | 18.12                      | 43.5              | -25.38         |

### Adapter 2 with Battery 1 combination

| Polarization | Frequency (MHz) Measured value (dBuV/m) |       | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------|---|-------|-------------------|----------------|
| Vertical     | 47.16                                   | 29.61 | 40                | -10.39         |
| vertical     | 148.14                                  | 28.30 | 43.5              | -15.20         |
| Horizontal   | 94.89                                   | 20.92 | 40                | -19.08         |
| Honzoniai    | 175.59                                  | 29.37 | 43.5              | -14.13         |

### Adapter 2 with Battery 2 combination

| Polarization | Frequency<br>(MHz) | Measured<br>value<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|-------------------------------|-------------------|----------------|
| \/autiaal    | 46.74              | 26.00                         | 40                | -14.00         |
| Vertical     | 174.22             | 21.59                         | 43.5              | -21.91         |
| Harizantal   | 92.25              | 20.45                         | 40                | -19.55         |
| Horizontal   | 199.04             | 23.62                         | 43.5              | -19.88         |



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### Test results for frequencies in the range 200 MHz to 1 GHz

### Adapter 1 with Battery 1 combination

| Polarization | Frequency<br>(MHz) | Measured value<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|----------------------------|-------------------|----------------|
| Martinal     | 479.98             | 24.41                      | 46                | -21.59         |
| Vertical     | 591.24             | 27.85                      | 46                | -18.15         |
| Harizantal   | 480.08             | 24.72                      | 46                | -21.28         |
| Horizontal   | 590.46             | 27.31                      | 46                | -18.69         |

### Adapter 1 with Battery 2 combination

| Polarization | Frequency<br>(MHz) | Measured<br>value<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|-------------------------------|-------------------|----------------|
| Vertical     | 379.58             | 23.23                         | 46                | -22.77         |
| vertical     | 536.92             | 27.70                         | 46                | -18.30         |
| Horizontol   | 590.85             | 26.57                         | 46                | -19.43         |
| Horizontal   | 898.63             | 31.34                         | 46                | -14.66         |

### Adapter 2 with Battery 1 combination

| Polarization | Frequency<br>(MHz) | Measured<br>value<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|-------------------------------|-------------------|----------------|
| Vertical     | 232.34             | 23.34                         | 46                | -22.66         |
| vertical     | 590.95             | 26.47                         | 46                | -19.53         |
| Horizontal   | 236.22             | 25.94                         | 46                | -20.06         |
| Honzontal    | 591.33             | 26.95                         | 46                | -19.05         |

### Adapter 2 with Battery 2 combination

| Polarization | Frequency<br>(MHz) | Measured<br>value<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|--------------|--------------------|-------------------------------|-------------------|----------------|
| \/autiaal    | 480.00             | 23.71                         | 46                | -22.29         |
| Vertical     | 948.88             | 24.04                         | 46                | -21.96         |
| Harizantal   | 479.92             | 24.52                         | 46                | -21.48         |
| Horizontal   | 898.00             | 26.10                         | 46                | -19.90         |



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Test results for the frequencies in the range 1 GHz to 26.5 GHz.

Data Rate: 1 Mbps

| Channel<br>Frequency(MHz) | Polarization | Measured<br>Frequency<br>(MHz) | Field<br>Strength<br>(dBµV/m) | Limit<br>(dBµV/m) | Margin<br>(dB) |
|---------------------------|--------------|--------------------------------|-------------------------------|-------------------|----------------|
|                           |              | 2390(Pk)                       | 39.01                         | 74                | -34.99         |
|                           |              | 2390(Av)                       | 27.24                         | 54                | -26.76         |
|                           | Montical     | 2402(Pk)                       | 76.99                         | -                 | *              |
|                           | Vertical     | 2402(Av)                       | 76.90                         | -                 | *              |
|                           |              | 4804(Pk)                       | 54.66                         | 74                | -19.34         |
| 2402                      |              | 4804(Av)                       | 50.34                         | 54                | -3.66          |
| 2402                      |              | 2390(Pk)                       | 39.00                         | 74                | -35.00         |
|                           |              | 2390(Av)                       | 27.13                         | 54                | -26.87         |
|                           | Harizantal   | 2402(Pk)                       | 81.39                         | -                 | *              |
|                           | Horizontal – | 2402(Av)                       | 81.34                         | -                 | *              |
|                           |              | 4804(Pk)                       | 54.21                         | 74                | -19.79         |
|                           |              | 4804(Av)                       | 49.26                         | 54                | -4.74          |
|                           | Vertical -   | 4882(Pk)                       | 56.51                         | 74                | -17.49         |
| 2441                      |              | 4882(Av)                       | 52.56                         | 54                | -1.44          |
| 2441                      | Horizontal - | 4882(Pk)                       | 54.45                         | 74                | -19.55         |
|                           |              | 4882(Av)                       | 49.65                         | 54                | -4.35          |
|                           |              | 2480(Pk)                       | 78.75                         | -                 | *              |
|                           |              | 2480(Av)                       | 78.95                         | -                 | *              |
|                           | Vertical     | 2483.5(Pk)                     | 38.90                         | 74                | -35.10         |
|                           | vertical     | 2483.5(Av)                     | 26.93                         | 54                | -27.07         |
|                           |              | 4960(Pk)                       | 54.00                         | 74                | -20.00         |
| 2490                      |              | 4960(Av)                       | 48.83                         | 54                | -5.17          |
| 2480                      |              | 2480(Pk)                       | 84.89                         | -                 | *              |
|                           |              | 2480(Av)                       | 84.80                         | -                 | *              |
|                           | Horizontal   | 2483.5(Pk)                     | 38.49                         | 74                | -35.51         |
|                           | nonzontai    | 2483.5(Av)                     | 27.04                         | 54                | -26.96         |
|                           |              | 4960(Pk)                       | 52.70                         | 74                | -21.30         |
|                           |              | 4960(Av)                       | 46.29                         | 54                | -7.71          |



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Data Rate: 2 Mbps

| Channel<br>Frequency(MHz) | Polarization      | Measured<br>Frequency<br>(MHz) | Field<br>Strength<br>(dBµV/m) | Limit<br>(dBµV/m) | Margin<br>(dB) |
|---------------------------|-------------------|--------------------------------|-------------------------------|-------------------|----------------|
|                           |                   | 2390(Pk)                       | 38.96                         | 74                | -35.04         |
|                           |                   | 2390(Av)                       | 27.16                         | 54                | -26.84         |
|                           | Voution           | 2402(Pk)                       | 75.29                         | -                 | *              |
|                           | Vertical          | 2402(Av)                       | 75.19                         | -                 | *              |
|                           |                   | 4804(Pk)                       | 53.70                         | 74                | -20.30         |
| 0.400                     |                   | 4804(Av)                       | 49.15                         | 54                | -4.85          |
| 2402                      |                   | 2390(Pk)                       | 38.97                         | 74                | -35.03         |
|                           |                   | 2390(Av)                       | 27.13                         | 54                | -26.87         |
|                           |                   | 2402(Pk)                       | 83.44                         | -                 | *              |
|                           |                   | 2402(Av)                       | 83.39                         | -                 | *              |
|                           |                   | 4804(Pk)                       | 53.11                         | 74                | -20.89         |
|                           |                   | 4804(Av)                       | 47.00                         | 54                |                |
|                           | Modical           | 4882(Pk)                       | 53.44                         | 74                | -7.00          |
| 0.444                     | Vertical          | 4882(Av)                       | 47.74                         | 54                | -6.26          |
| 2441                      | Horizontal        | 4882(Pk)                       | 53.39                         | 74                | -20.61         |
|                           |                   | 4882(Av)                       | 47.65                         | 54                | -6.35          |
|                           |                   | 2480(Pk)                       | 80.85                         | -                 | *              |
|                           |                   | 2480(Av)                       | 80.78                         | -                 | *              |
|                           | V (* 1            | 4960(Pk)                       | 53.53                         | 74                | -20.47         |
|                           | Vertical          | 4960(Av)                       | 47.32                         | 54                | -6.68          |
|                           |                   | 2483.5(Pk)                     | 38.90                         | 74                | -35.10         |
| 0.400                     |                   | 2483.5(Av)                     | 26.93                         | 54                | -27.07         |
| 2480                      |                   | 2480(Pk)                       | 87.29                         | -                 | *              |
|                           |                   | 2480(Av)                       | 87.27                         | -                 | *              |
|                           | l la viera esta l | 4960(Pk)                       | 53.56                         | 74                | -20.44         |
|                           | Horizontal        | 4960(Av)                       | 47.96                         | 54                | -6.04          |
|                           |                   | 2483.5(Pk)                     | 38.53                         | 74                | -35.47         |
|                           |                   | 2483.5(Av)                     | 27.06                         | 54                | -26.94         |



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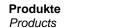


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Data Rate: 3 Mbps

| Channel<br>Frequency(MHz) | Polarization     | Measured<br>Frequency<br>(MHz) | Field Strength<br>(dBµV/m) | Limit<br>(dBµV/m) | Margin<br>(dB) |
|---------------------------|------------------|--------------------------------|----------------------------|-------------------|----------------|
|                           |                  | 2390(Pk)                       | 38.50                      | 74                | -35.50         |
|                           |                  | 2390(Av)                       | 27.00                      | 54                | -27.00         |
|                           | Vertical         | 2402(Pk)                       | 75.15                      | -                 | *              |
|                           | Vertical         | 2402(Av)                       | 75.03                      | -                 | *              |
|                           |                  | 4804(Pk)                       | 54.62                      | 74                | -19.38         |
| 0.400                     |                  | 4804(Av)                       | 49.53                      | 54                | -4.47          |
| 2402                      |                  | 2390(Pk)                       | 38.75                      | 74                | -35.25         |
|                           |                  | 2390(Av)                       | 27.12                      | 54                | -26.88         |
|                           | l la via a catal | 2402(Pk)                       | 82.75                      | -                 | *              |
|                           | Horizontal       | 2402(Av)                       | 82.77                      | -                 | *              |
|                           |                  | 4804(Pk)                       | 53.08                      | 74                | -20.92         |
|                           |                  | 4804(Av)                       | 47.59                      | 54                | -6.41          |
|                           | Vertical         | 4882(Pk)                       | 53.71                      | 74                | -20.29         |
| 2444                      | Vertical         | 4882(Av)                       | 49.26                      | 54                | -4.74          |
| 2441                      | Horizontal       | 4882(Pk)                       | 53.37                      | 74                | -20.63         |
|                           |                  | 4882(Av)                       | 47.94                      | 54                | -6.06          |
|                           |                  | 2480(Pk)                       | 79.69                      | -                 | *              |
|                           |                  | 2480(Av)                       | 79.64                      | -                 | *              |
|                           | Martiaal         | 4960(Pk)                       | 54.46                      | 74                | -19.54         |
|                           | Vertical         | 4960(Av)                       | 49.70                      | 54                | -4.30          |
|                           |                  | 2483.5(Pk)                     | 38.59                      | 74                | -35.41         |
| 2400                      |                  | 2483.5(Av)                     | 26.89                      | 54                | -27.11         |
| 2480                      |                  | 2480(Pk)                       | 85.36                      | -                 | *              |
|                           |                  | 2480(Av)                       | 85.33                      | -                 | *              |
|                           | Horizontal       | 4960(Pk)                       | 53.57                      | 74                | -20.43         |
|                           | Horizontal       | 4960(Av)                       | 48.28                      | 54                | -5.72          |
|                           |                  | 2483.5(Pk)                     | 38.63                      | 74                | -35.37         |
|                           |                  | 2483.5(Av)                     | 27.07                      | 54                | -26.93         |



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# **Conducted Emission Test on A.C. Power Line**

Result Pass

Test Specification : FCC Part 15 Section 15.207

Test Method : ANSI C63.10-2013 Testing Location : Screened room

Measurement Bandwidth: 9kHz

Frequency Range : 150kHz – 30MHz Supply Voltage : 120VAC,60Hz

#### Limit of section 15.207

| Frequency of emission | QP Limit | AV Limit |
|-----------------------|----------|----------|
| (MHz)                 | (dBµV)   | (dBµV/m) |
| 0.15 - 0.5            | 66 – 56* | 56 – 46* |
| 0.5 - 5               | 56       | 46       |
| 5 – 30                | 60       | 50       |

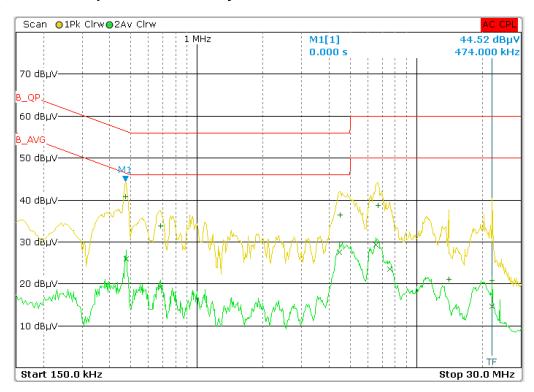
<sup>\*</sup> Decreases with the logarithm of the frequency



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**Test Result: LINE Graphs and Tables** 

### 110v AC, 60Hz - Adapter 1 with Battery 1 combination



**Line Graph** 

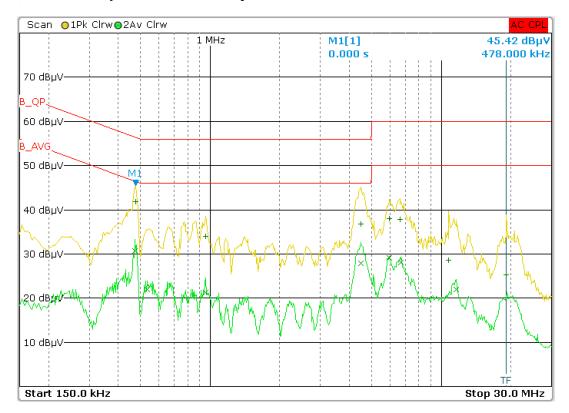
| Detector   | Frequency  | Level<br>(dBµV) | Limit<br>(dBµV) | Margin<br>(dB) |
|------------|------------|-----------------|-----------------|----------------|
| Quasi Peak | 474.00 kHz | 40.82           | 56.20           | -15.38         |
| Quasi Peak | 682.00 kHz | 33.75           | 56              | -22.25         |
| Quasi Peak | 4.49 MHz   | 36.45           | 56              | -19.55         |
| Quasi Peak | 6.67 MHz   | 38.69           | 60              | -21.31         |
| Quasi Peak | 14.07 MHz  | 21.03           | 60              | -38.97         |
| Quasi Peak | 22.16 MHz  | 20.74           | 60              | -39.26         |
| Average    | 478.00 kHz | 25.89           | 46.13           | -20.24         |
| Average    | 682 kHz    | 33.75           | 46              | -12.25         |
| Average    | 4.46 MHz   | 27.61           | 46              | -18.39         |
| Average    | 6.55 MHz   | 29.35           | 50              | -20.65         |
| Average    | 7.57 MHz   | 23.45           | 50              | -26.55         |
| Average    | 22.16 MHz  | 14.63           | 50              | -35.37         |

Line Table





# 110v AC, 60Hz - Adapter 1 with Battery 2 combination



### Line Graph

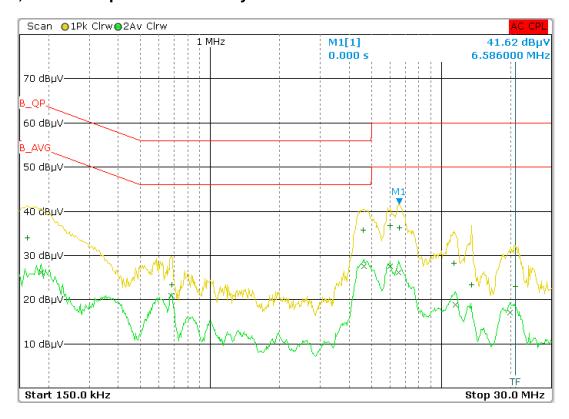
| Detector   | Frequency  | Level<br>(dBµV) | Limit<br>(dBµV) | Margin<br>(dB) |
|------------|------------|-----------------|-----------------|----------------|
| Quasi Peak | 478.00 kHz | 41.82           | 56.13           | -14.31         |
| Quasi Peak | 958.00 kHz | 33.96           | 56              | -22.04         |
| Quasi Peak | 4.50 MHz   | 36.76           | 56              | -19.24         |
| Quasi Peak | 5.97 MHZ   | 38.08           | 60              | -21.92         |
| Quasi Peak | 6.61 MHz   | 37.8            | 60              | -22.20         |
| Quasi Peak | 10.77 MHz  | 28.57           | 60              | -31.43         |
| Quasi Peak | 19.14 MHz  | 25.26           | 60              | -34.74         |
| Average    | 474.00 kHz | 30.75           | 46.20           | -15.45         |
| Average    | 534.00 kHz | 22.01           | 46              | -23.99         |
| Average    | 958.00 kHz | 21.26           | 46              | -24.74         |
| Average    | 4.48 MHz   | 27.97           | 46              | -18.03         |
| Average    | 5.94 MHz   | 29.12           | 50              | -20.88         |
| Average    | 6.67 MHz   | 27.98           | 50              | -22.02         |
| Average    | 11.64 MHz  | 21.99           | 50              | -28.01         |

Line Table





# 110v AC , 60Hz - Adapter 2 with Battery 1 combination



Line Graph

| Detector   | Frequency  | Level<br>(dBµV) | Limit<br>(dBµV) | Margin<br>(dB) |
|------------|------------|-----------------|-----------------|----------------|
| Quasi Peak | 162.00 kHz | 33.99           | 65.34           | -31.35         |
| Quasi Peak | 682.00 kHz | 23.43           | 56              | -32.57         |
| Quasi Peak | 4.58 MHz   | 35.8            | 56              | -20.20         |
| Quasi Peak | 6.00 MHz   | 36.7            | 60              | -23.30         |
| Quasi Peak | 6.58 MHz   | 36.17           | 60              | -23.83         |
| Quasi Peak | 11.30 MHz  | 28.16           | 60              | -31.84         |
| Quasi Peak | 13.55 MHz  | 23.4            | 60              | -36.6          |
| Quasi Peak | 20.90 MHz  | 22.94           | 60              | -37.06         |
| Average    | 186.00 kHz | 26.22           | 54.16           | -27.94         |
| Average    | 678.00 kHz | 20.83           | 46              | -25.17         |
| Average    | 4.61 MHz   | 27.55           | 46              | -18.45         |
| Average    | 5.99 MHz   | 27.53           | 50              | -22.47         |
| Average    | 6.54 MHz   | 26.22           | 50              | -23.78         |
| Average    | 11.53 MHz  | 18.83           | 50              | -31.17         |
| Average    | 19.87 MHz  | 17.13           | 50              | -32.87         |

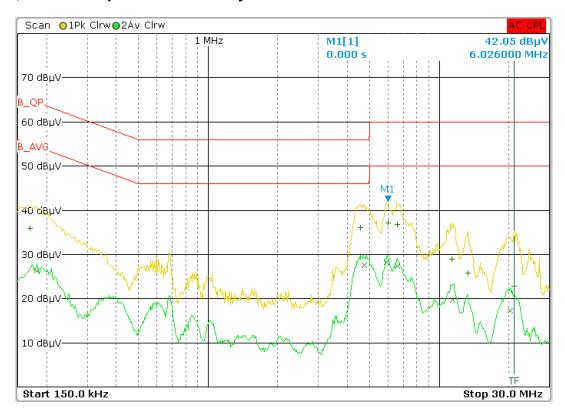
Line Table



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# 110v AC, 60Hz - Adapter 2 with Battery 2 combination



### Line Graph

|            |            |                 | 1 * *4          | B. Ø           |
|------------|------------|-----------------|-----------------|----------------|
| Detector   | Frequency  | Level<br>(dBµV) | Limit<br>(dBµV) | Margin<br>(dB) |
| Quasi Peak | 170.00 kHz | 35.85           | 64.93           | -29.08         |
| Quasi Peak | 4.55 MHz   | 36.08           | 56              | -19.92         |
| Quasi Peak | 6.02 MHz   | 37.18           | 60              | -22.82         |
| Quasi Peak | 6.61 MHz   | 36.86           | 60              | -23.14         |
| Quasi Peak | 11.31 MHz  | 28.88           | 60              | -31.12         |
| Quasi Peak | 13.34 MHz  | 25.88           | 60              | -34.12         |
| Quasi Peak | 21.12 MHz  | 22.79           | 60              | -37.21         |
| Average    | 182.00 kHz | 26.38           | 54.35           | -27.97         |
| Average    | 4.73 MHz   | 27.49           | 46              | -18.51         |
| Average    | 5.93 MHz   | 28.32           | 50              | -21.68         |
| Average    | 6.58 MHz   | 27.39           | 50              | -22.61         |
| Average    | 11.47 MHz  | 19.77           | 50              | -30.23         |
| Average    | 20.25 MHz  | 17.17           | 50              | -32.83         |

Line Table

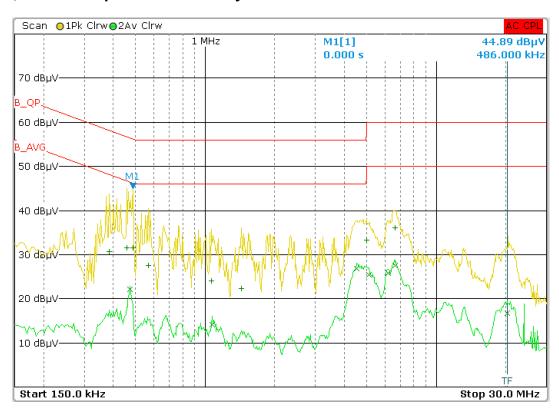


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### **NEUTRAL Graphs and Tables**

### 110v AC, 60Hz - Adapter 1 with Battery 1 combination



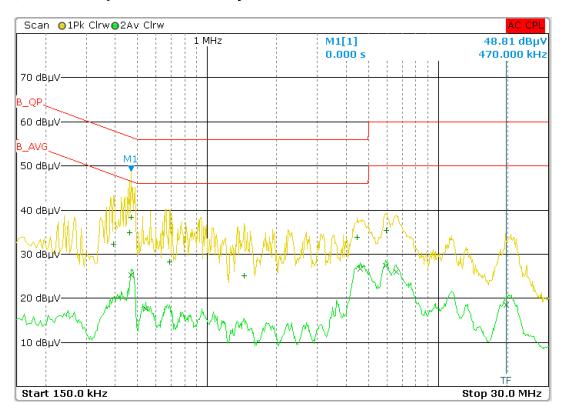
### **Neutral Graph**

| Detector   | Frequency  | Level<br>(dBµV) | Limit<br>(dBµV) | Margin<br>(dB) |
|------------|------------|-----------------|-----------------|----------------|
| Quasi Peak | 386.00 kHz | 30.63           | 57.95           | -27.32         |
| Quasi Peak | 458.00 kHz | 31.55           | 56.49           | -24.94         |
| Quasi Peak | 486.00 kHz | 31.53           | 55.99           | -24.46         |
| Quasi Peak | 570.00 kHz | 27.6            | 56              | -28.40         |
| Quasi Peak | 1.06 MHz   | 24.04           | 56              | -31.96         |
| Quasi Peak | 1.43 MHz   | 22.28           | 56              | -33.72         |
| Quasi Peak | 4.98 MHz   | 33.21           | 56              | -22.79         |
| Quasi Peak | 6.63 MHz   | 27.59           | 60              | -32.41         |
| Average    | 474.00 kHz | 22.12           | 46.20           | -24.08         |
| Average    | 1.07 MHz   | 14.04           | 46              | -31.96         |
| Average    | 4.52 MHz   | 26.85           | 46              | -19.15         |
| Average    | 5.12 MHz   | 25.4            | 50              | -24.60         |
| Average    | 6.18 MHz   | 25.87           | 50              | -24.13         |
| Average    | 6.63 MHz   | 36.11           | 50              | -13.89         |
| Average    | 20.24 MHz  | 16.7            | 50              | -33.30         |





### 110v AC, 60Hz - Adapter 1 with Battery 2 combination



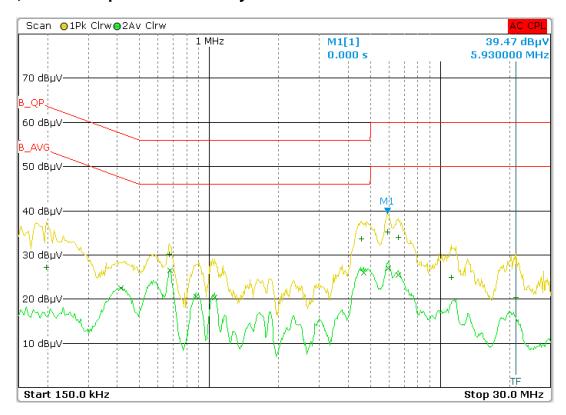
### **Neutral Graph**

| Detector   | Frequency  | Level<br>(dBµV) | Limit<br>(dBµV) | Margin<br>(dB) |
|------------|------------|-----------------|-----------------|----------------|
| Quasi Peak | 394.00 kHz | 32.19           | 57.77           | -25.58         |
| Quasi Peak | 462.00 kHz | 34.93           | 56.42           | -21.49         |
| Quasi Peak | 470.00 kHz | 38.27           | 56.27           | -18.00         |
| Quasi Peak | 686.00 kHz | 28.31           | 56              | -27.69         |
| Quasi Peak | 1.44 MHz   | 25.16           | 56              | -30.84         |
| Quasi Peak | 4.45 MHz   | 33.81           | 56              | -22.19         |
| Quasi Peak | 5.94 MHz   | 35.31           | 60              | -24.69         |
| Average    | 470.00 kHz | 25.32           | 46.27           | -20.95         |
| Average    | 542.00 kHz | 17.55           | 46              | -28.45         |
| Average    | 4.60 MHz   | 26.75           | 46              | -19.25         |
| Average    | 5.92 MHz   | 27.44           | 50              | -22.56         |
| Average    | 6.56 MHz   | 25.96           | 50              | -24.04         |
| Average    | 19.74 MHz  | 18.52           | 50              | -31.48         |





### 110v AC, 60Hz - Adapter 2 with Battery 1 combination



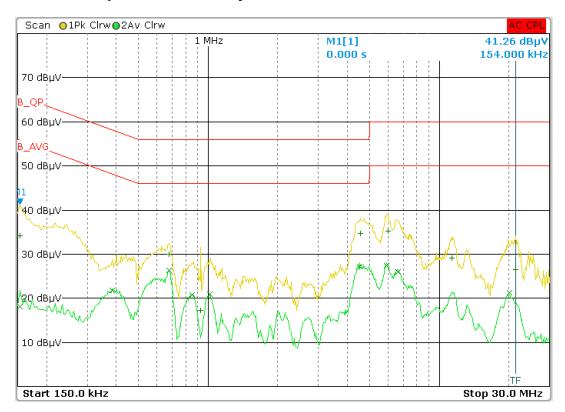
### **Neutral Graph**

| Detector   | Frequency  | Level<br>(dBµV) | Limit<br>(dBµV) | Margin<br>(dB) |
|------------|------------|-----------------|-----------------|----------------|
| Quasi Peak | 198.00 kHz | 27.13           | 63.63           | -36.5          |
| Quasi Peak | 674.00 kHz | 30.16           | 56              | -25.84         |
| Quasi Peak | 4.55 MHz   | 33.61           | 56              | -22.39         |
| Quasi Peak | 5.93 MHz   | 35.15           | 60              | -24.85         |
| Quasi Peak | 6.59 MHz   | 34.01           | 60              | -25.99         |
| Quasi Peak | 11.14 MHz  | 24.89           | 60              | -35.11         |
| Quasi Peak | 21.32 MHz  | 20.43           | 60              | -39.57         |
| Average    | 414.00 kHz | 22.52           | 47.35           | -24.83         |
| Average    | 678.00 kHz | 26.53           | 46              | -19.47         |
| Average    | 882.00 kHz | 20.55           | 46              | -25.45         |
| Average    | 1.05 MHz   | 20.42           | 46              | -25.58         |
| Average    | 4.65 MHz   | 25.95           | 46              | -20.05         |
| Average    | 5.94 MHz   | 26.95           | 50              | -23.05         |
| Average    | 6.57 MHz   | 25.48           | 50              | -24.52         |



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## 110v AC, 60Hz - Adapter 2 with Battery 2 combination



### **Neutral Graph**

| Detector   | Frequency  | Level<br>(dBµV) | Limit<br>(dBµV) | Margin<br>(dB) |
|------------|------------|-----------------|-----------------|----------------|
| Quasi Peak | 154.00 kHz | 34.11           | 65.77           | -31.66         |
| Quasi Peak | 678.00 kHz | 29.99           | 56              | -26.01         |
| Quasi Peak | 930.00 kHz | 17.2            | 56              | -38.80         |
| Quasi Peak | 4.55 MHz   | 34.73           | 56              | -21.27         |
| Quasi Peak | 6.00 MHz   | 35.27           | 60              | -24.73         |
| Quasi Peak | 11.35 MHz  | 29.08           | 60              | -30.92         |
| Quasi Peak | 21.45 MHz  | 26.5            | 60              | -33.50         |
| Average    | 154.00 kHz | 18.2            | 55.77           | -37.57         |
| Average    | 386.00 kHz | 21.77           | 47.95           | -26.18         |
| Average    | 678.00 kHz | 26.38           | 46              | -19.62         |
| Average    | 850.00 kHz | 20.79           | 46              | -25.21         |
| Average    | 1.01 MHz   | 20.94           | 46              | -25.06         |
| Average    | 4.53 MHz   | 27.25           | 46              | -18.75         |
| Average    | 5.89 MHz   | 27.45           | 50              | -22.55         |
| Average    | 6.63 MHz   | 26.05           | 50              | -23.95         |
| Average    | 20.17 MHz  | 21.28           | 50              | -28.72         |





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\*\*\*END OF TEST REPORT\*\*\*