

**Produkte**  
*Products*

|                                                                                                                                                                                                                                                         |                                                                                                                         |                                                                                     |                           |                                       |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| <b>Prüfbericht - Nr.:</b>                                                                                                                                                                                                                               |                                                                                                                         | <b>19660368 001</b>                                                                 |                           | <b>Seite 1 von 39</b>                 |                                                                                       |
| <i>Test Report No.:</i>                                                                                                                                                                                                                                 |                                                                                                                         |                                                                                     |                           | <i>Page 1 of 39</i>                   |                                                                                       |
| <b>Auftraggeber:</b>                                                                                                                                                                                                                                    |                                                                                                                         | <b>American Megatrends India Private Limited</b>                                    |                           |                                       |                                                                                       |
| <i>Client:</i>                                                                                                                                                                                                                                          |                                                                                                                         | Kumaran Nagar, Semmanchery,<br>Off. Old Mahabalipuram Road<br>Chennai-600119, India |                           |                                       |                                                                                       |
| <b>Gegenstand der Prüfung:</b>                                                                                                                                                                                                                          |                                                                                                                         | <b>B.O.L.T Chest ECG</b>                                                            |                           |                                       |                                                                                       |
| <i>Test item:</i>                                                                                                                                                                                                                                       |                                                                                                                         |                                                                                     |                           |                                       |                                                                                       |
| <b>Bezeichnung:</b>                                                                                                                                                                                                                                     | <b>VA07</b>                                                                                                             | <b>Serien-Nr.:</b>                                                                  | <b>Engineering Sample</b> |                                       |                                                                                       |
| <i>Identification:</i>                                                                                                                                                                                                                                  |                                                                                                                         | <i>Serial No.</i>                                                                   |                           |                                       |                                                                                       |
| <b>Wareneingangs-Nr.:</b>                                                                                                                                                                                                                               | <b>1803293443</b>                                                                                                       | <b>Eingangsdatum:</b>                                                               | <b>01.02.2018</b>         |                                       |                                                                                       |
| <i>Receipt No.:</i>                                                                                                                                                                                                                                     |                                                                                                                         | <i>Date of receipt:</i>                                                             |                           |                                       |                                                                                       |
| <b>Prüfort:</b>                                                                                                                                                                                                                                         | <b>Refer Page 5 of 39 for Test site details</b>                                                                         |                                                                                     |                           |                                       |                                                                                       |
| <i>Testing location:</i>                                                                                                                                                                                                                                |                                                                                                                         |                                                                                     |                           |                                       |                                                                                       |
| <b>Prüfgrundlage:</b>                                                                                                                                                                                                                                   | <b>FCC Part 15 Subpart C 15.247</b>                                                                                     |                                                                                     |                           |                                       |                                                                                       |
| <i>Test specification:</i>                                                                                                                                                                                                                              | <b>ANSI C63.10-2013</b>                                                                                                 |                                                                                     |                           |                                       |                                                                                       |
| <b>Prüfergebnis:</b>                                                                                                                                                                                                                                    | <b>Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).</b>                                                   |                                                                                     |                           |                                       |                                                                                       |
| <i>Test Result:</i>                                                                                                                                                                                                                                     | <i>The test items passed the test specification(s).</i>                                                                 |                                                                                     |                           |                                       |                                                                                       |
| <b>Prüflaboratorium:</b>                                                                                                                                                                                                                                | <b>TÜV Rheinland (India) Pvt. Ltd.</b>                                                                                  |                                                                                     |                           |                                       |                                                                                       |
| <i>Testing Laboratory:</i>                                                                                                                                                                                                                              | 27/B, 2nd cross, Electronic City Phase 1<br>Bangalore – 560 100. India<br>FCC Test Site Registration no.: <b>496599</b> |                                                                                     |                           |                                       |                                                                                       |
| <b>geprüft / tested by:</b>                                                                                                                                                                                                                             |                                                                                                                         | <b>kontrolliert / reviewed by:</b>                                                  |                           |                                       |                                                                                       |
| 14.03.2018                                                                                                                                                                                                                                              | Girish Kumar G<br>Engineer                                                                                              |  | 23.05.2018                | Saibaba Siddapur<br>Assistant Manager |  |
| <b>Datum</b>                                                                                                                                                                                                                                            | <b>Name/Stellung</b>                                                                                                    | <b>Unterschrift</b>                                                                 | <b>Datum</b>              | <b>Name/Stellung</b>                  | <b>Unterschrift</b>                                                                   |
| <i>Date</i>                                                                                                                                                                                                                                             | <i>Name/Position</i>                                                                                                    | <i>Signature</i>                                                                    | <i>Date</i>               | <i>Name/Position</i>                  | <i>Signature</i>                                                                      |
| <b>Sonstiges / Other Aspects:</b>                                                                                                                                                                                                                       |                                                                                                                         | <b>FCC ID:2AFV6-AMI-ECG-02</b>                                                      |                           |                                       |                                                                                       |
|                                                                                                                                                                                                                                                         |                                                                                                                         | <b>On receipt the equipment was in good condition</b>                               |                           |                                       |                                                                                       |
| <b>Abkürzungen:</b>                                                                                                                                                                                                                                     |                                                                                                                         | <b>Abbreviations:</b>                                                               |                           |                                       |                                                                                       |
| <i>P(ass) = entspricht Prüfgrundlage</i>                                                                                                                                                                                                                |                                                                                                                         | <i>P(ass) = passed</i>                                                              |                           |                                       |                                                                                       |
| <i>F(ail) = entspricht nicht Prüfgrundlage</i>                                                                                                                                                                                                          |                                                                                                                         | <i>F(ail) = failed</i>                                                              |                           |                                       |                                                                                       |
| <i>N/A = nicht anwendbar</i>                                                                                                                                                                                                                            |                                                                                                                         | <i>N/A = not applicable</i>                                                         |                           |                                       |                                                                                       |
| <i>N/T = nicht getestet</i>                                                                                                                                                                                                                             |                                                                                                                         | <i>N/T = not tested</i>                                                             |                           |                                       |                                                                                       |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>                                |                                                                                                                         |                                                                                     |                           |                                       |                                                                                       |
| <i>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.</i> |                                                                                                                         |                                                                                     |                           |                                       |                                                                                       |

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**Prüfbericht - Nr.:**

Test Report No.:

**19660368 001**

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## TEST SUMMARY

| Section                        | Test item                                                        | Result | Remarks |
|--------------------------------|------------------------------------------------------------------|--------|---------|
| 15.247 (b) (3)                 | Maximum Peak Conducted Output Power                              | Pass   | -       |
| 15.247 (a) (2)                 | 6 dB / DTS Bandwidth                                             | Pass   |         |
| 15.247 (e)                     | Maximum Power Spectral Density                                   | Pass   |         |
| 15.247 (d)                     | Emissions in non – restricted band                               | Pass   |         |
| 15.247 (a)(1)                  | Conducted Spurious Emissions                                     | Pass   |         |
| 15.247 (d) / (15.209 & 15.205) | Restricted bands of Emissions and Restricted Bands of Operation. | Pass   |         |
| 15.207                         | Conducted emission on A.C power lines                            | Pass   |         |

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# 1. GENERAL REMARKS

## 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

## 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 Name           | Serial Number | Calibration Due Date | Periodicity | Used for Test Items                  |
|---------------------------|-----------------------------|----------------------|---------------|----------------------|-------------|--------------------------------------|
| Spectrum Analyser         | Agilent Technologies        | E4407B               | US41192772    | 13.02.2019           | Yearly      | Antenna - Port Measurements          |
| EMI Test Receiver         | Rohde & Schwarz             | ESU 40               | 100288        | 24-10-2018           | Yearly      | Radiated Spurious Emission           |
| Active loop antenna       | Frankonia                   | LAX-10               | LAX-10-800    | 13-04-2018           | Yearly      |                                      |
| Biconical Antenna         | Schwarzbeck mess-elektronik | VHBB-9124 / BBA-9106 | 9124-656      | 09-01-2019           | Yearly      |                                      |
| Log-Periodic Antenna      | Schwarzbeck mess-elektronik | VUSLP-9111B          | 9111B-111     | 16-01-2019           | Yearly      |                                      |
| Broadband Horn Antenna    | Frankonia                   | HAX-18               | HAX18-802     | 16-09-2018           | Yearly      |                                      |
| Emission Horn Antenna     | ETS Lindgren                | 116706               | 00107323      | 22-06-2018           | Yearly      |                                      |
| Semi Anechoic Chamber     | Frankonia                   | -                    | -             | -                    | -           |                                      |
| EMI Test Receiver         | Rohde & Schwarz             | ESR7                 | 101133        | 13.02.2019           | Yearly      | Conducted Emission on AC Power Lines |
| Two Line V-Network (LISN) | Rohde & Schwarz             | ENV216               | 100022        | 05.09.2018           | Yearly      |                                      |

### 3. GENERAL PRODUCT INFORMATION

#### 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 Low Energy                                                     |
| Verified RF Power         | -5.468 dBm                                                               |
| Channel Spacing           | 2 MHz                                                                    |
| Modulation                | GFSK                                                                     |
| Number of antennas        | 1                                                                        |
| Antenna type and gain     | Chip antenna & 0.5 dBi                                                   |
| Supply Voltage to Product | 5 VDC from Power adapter                                                 |
| Environmental conditions  | Storage Condition: 10°C to 55°C<br>Operational conditions : 16°C to 35°C |

## 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 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.

## List of frequencies

**Table 4: List of Center Frequencies**

| Frequency Band<br>(MHz)                             | Channel No. | Channel<br>Frequency<br>(MHz) |
|-----------------------------------------------------|-------------|-------------------------------|
| <b>2400 – 2483.5<br/>(2MHz Bandwidth)<br/>BT LE</b> | 0           | 2402                          |
|                                                     | 1           | 2404                          |
|                                                     | 2           | 2406                          |
|                                                     | 3           | 2408                          |
|                                                     | :           | :                             |
|                                                     | :           | :                             |
|                                                     | 18          | 2438                          |
|                                                     | 19          | 2440                          |
|                                                     | 20          | 2437                          |
|                                                     | :           | :                             |
|                                                     | :           | :                             |
|                                                     | 36          | 2474                          |
|                                                     | 37          | 2476                          |
|                                                     | 38          | 2478                          |
|                                                     | 39          | 2480                          |

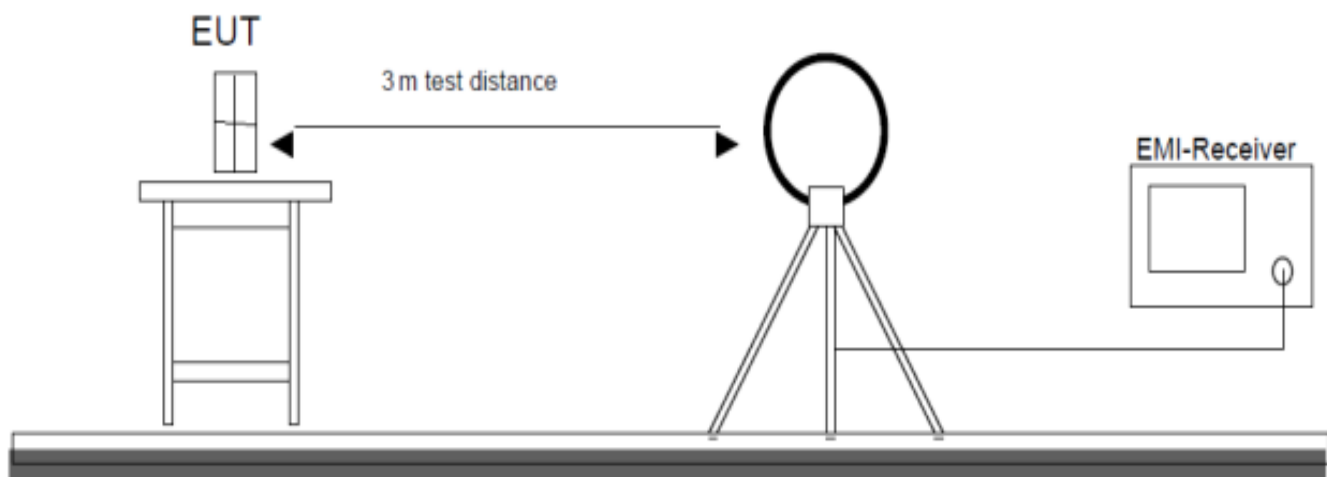
## 5. TEST METHODOLOGY

### Radiated Emission Test

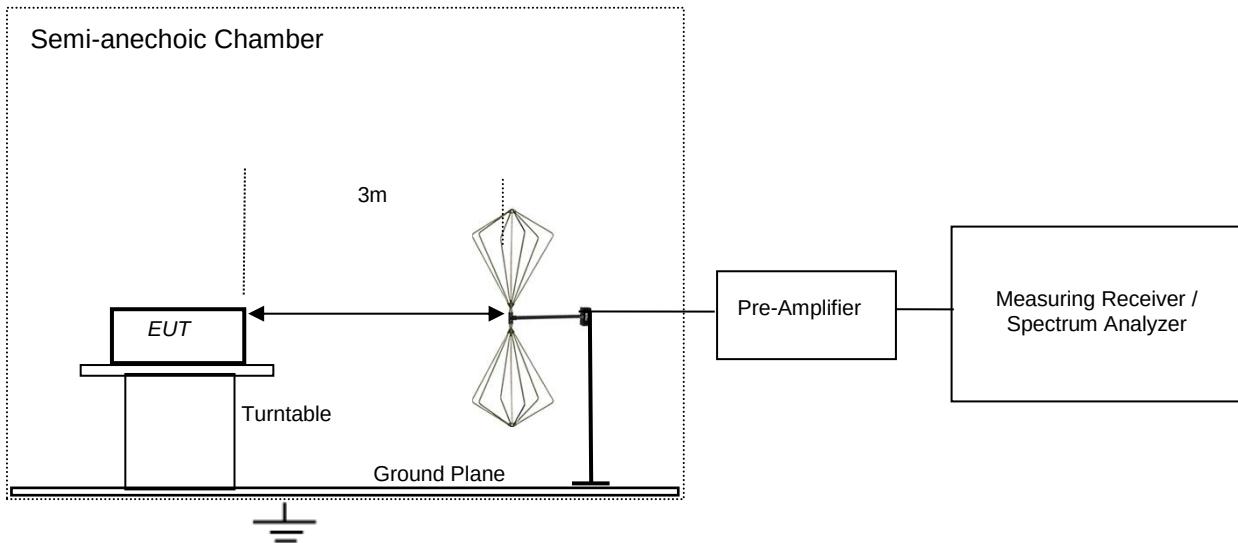
The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement, and the EUT is 3 meters far from the measuring antenna. The 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 measurement 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.

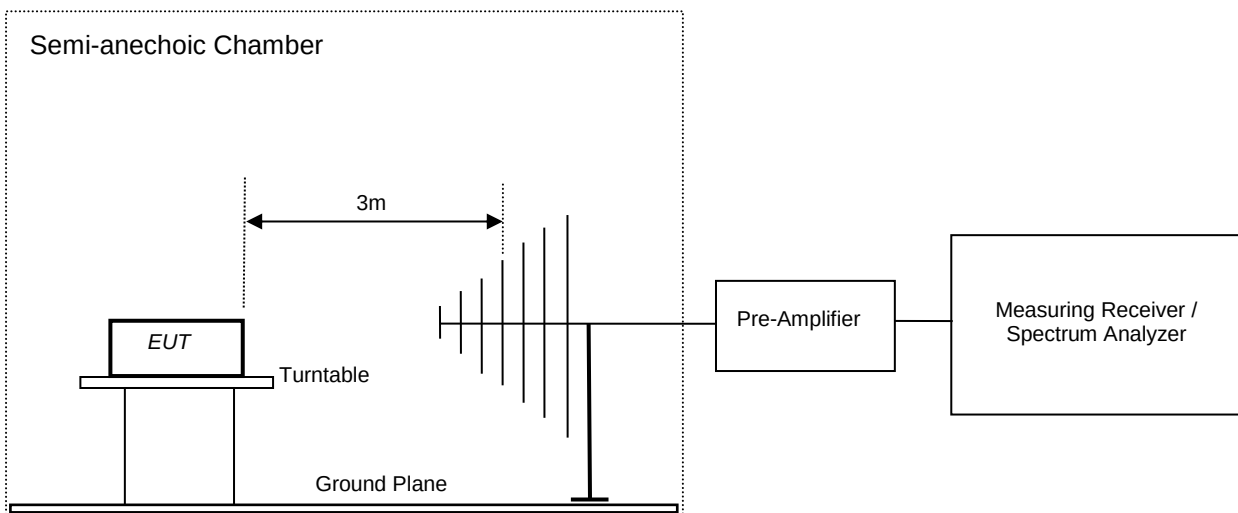
#### 1.1.1 Test Setup Configuration



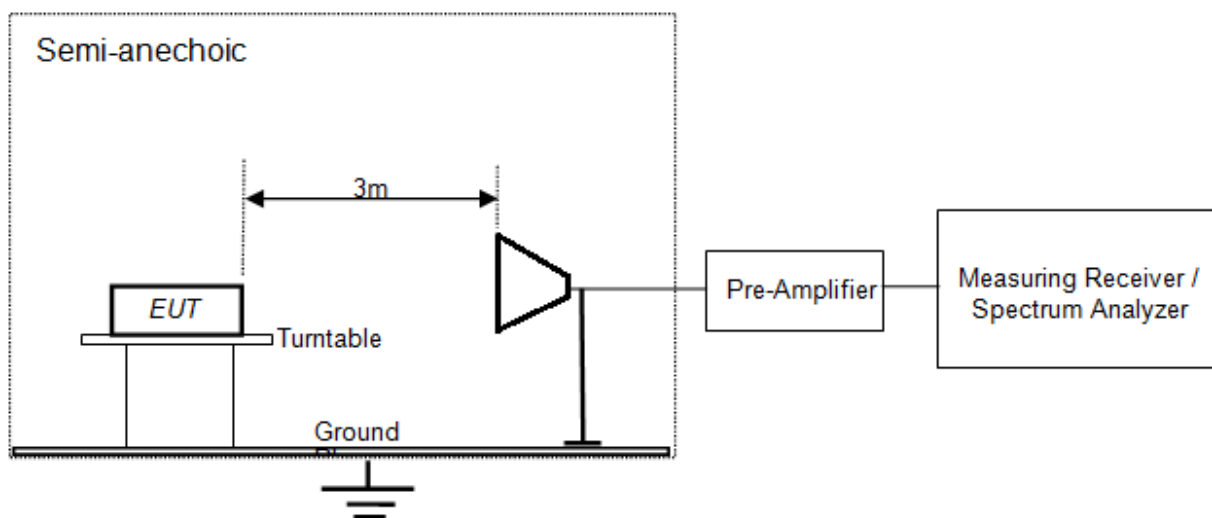
**Figure 1: Frequency Range 9 kHz- 30 MHz**



**Figure 2: Frequency Range 30 MHz – 200 MHz**



**Figure 3: Frequency Range 200 MHz - 1GHz**



**Figure 4: Frequency Range above 1 GHz**

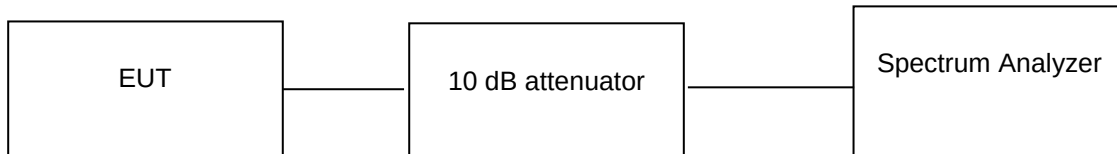
## 6. TEST RESULTS

### Maximum Peak Conducted Output Power

**Result**

**Pass**

|                       |                                     |
|-----------------------|-------------------------------------|
| Test Specification    | FCC part 15 Subpart C 15.247 (b)(3) |
| Measurement Bandwidth | 1 MHz                               |
| Detector              | Peak                                |
| Requirement           | $\leq 1 \text{ W (30 dBm)}$         |



#### Test results:

**Note:** Measurements were made as per section 9.1.1 in KDB 558074 D01 DTS Meas Guidance v04.

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**

| Channel Frequency (MHz) | Output power (dBm) | Limit (dBm) |
|-------------------------|--------------------|-------------|
| 2402                    | -9.745             | 30          |
| 2440                    | -5.468             | 30          |
| 2480                    | -5.578             | 30          |

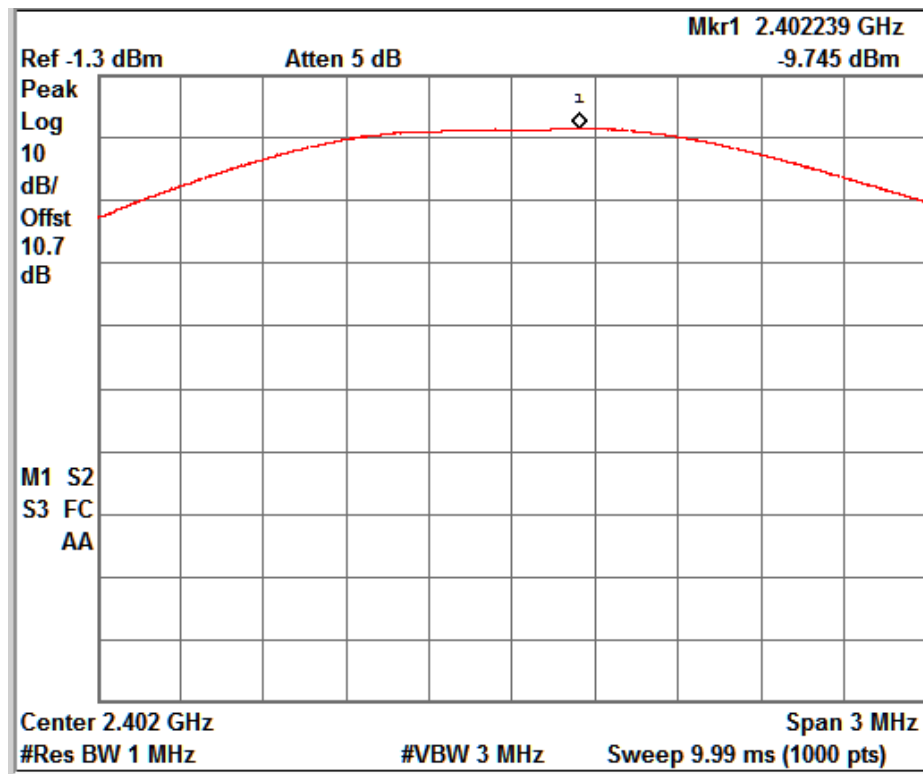
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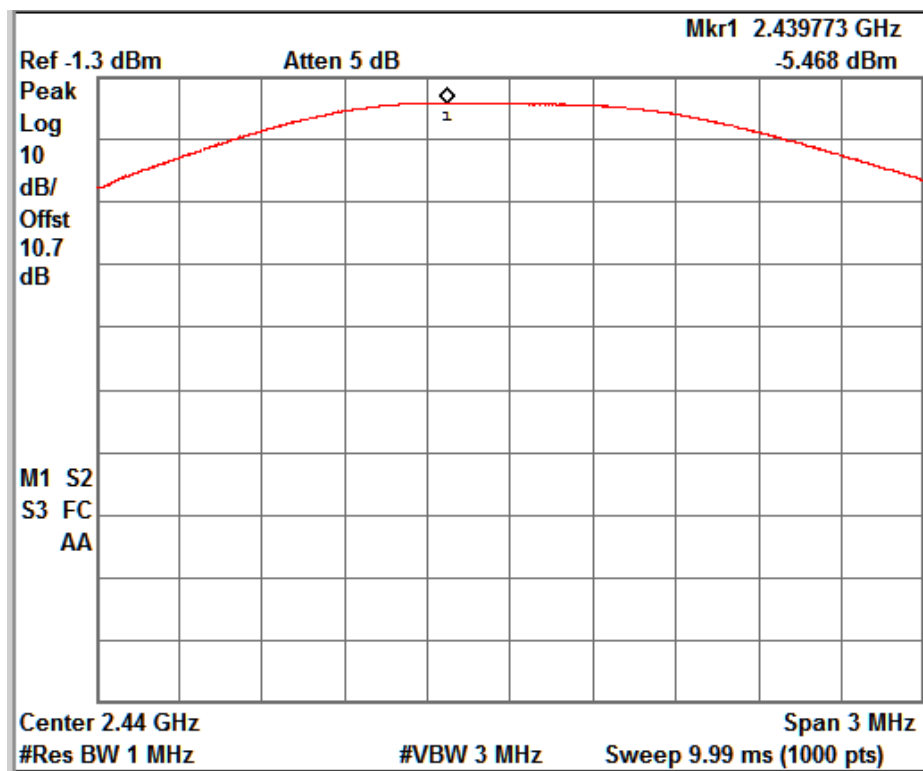
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**Channel low – 2402 MHz**



**Channel mid – 2440 MHz**

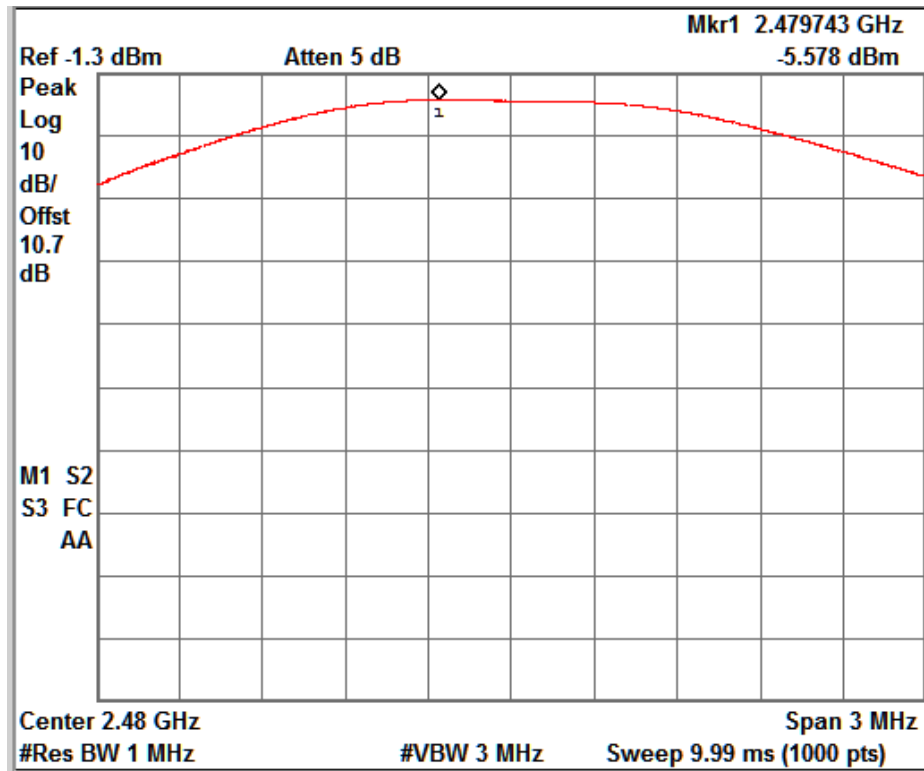
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**Channel high – 2480 MHz**

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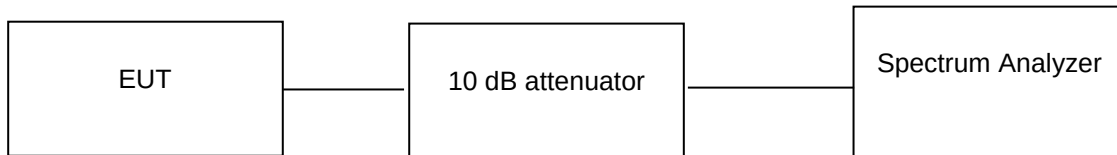
**Maximum Power Spectral Density**

**Result**

**Pass**

Test Specification FCC Part 15 Subpart C Section 15.247 (e)  
 Detector Function Peak  
 Port of testing Antenna port  
 Requirement For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm.

**Test Method:**



**Test results:**

**Note:** Measurements were made as per section 10.2 in KDB 558074 D01 DTS Meas Guidance v04.

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

**Table 6 : Maximum power spectral density verified Test Results**

| Channel Frequency (MHz) | Total PSD @100kHz BW (dBm) | Total PSD @3kHz BW (dBm) | Limit @3kHz BW (dBm) | Margin (dB) |
|-------------------------|----------------------------|--------------------------|----------------------|-------------|
| 2402.00                 | -10.42                     | -25.64                   | 8.00                 | -18.42      |
| 2440.00                 | -5.934                     | -21.15                   | 8.00                 | -13.934     |
| 2480.00                 | -6.097                     | -21.31                   | 8.00                 | -14.097     |

**Calculations for PSD at 3kHz bandwidth:**

For 2402 MHz:

Total PSD (@ 100kHz Bandwidth) = -10.42 = -10.42 + 10 log(3 kHz/100 kHz) = -25.64 (@ 3kHz Bandwidth)

For 2440 MHz:

Total PSD (@ 100kHz Bandwidth) = -5.93 = -5.93 + 10 log(3 kHz/100 kHz) = -21.15 (@ 3kHz Bandwidth)

For 2480 MHz:

Total PSD (@ 100kHz Bandwidth) = -6.09 = -6.09 + 10 log(3 kHz/100 kHz) = -21.31 (@ 3kHz Bandwidth)

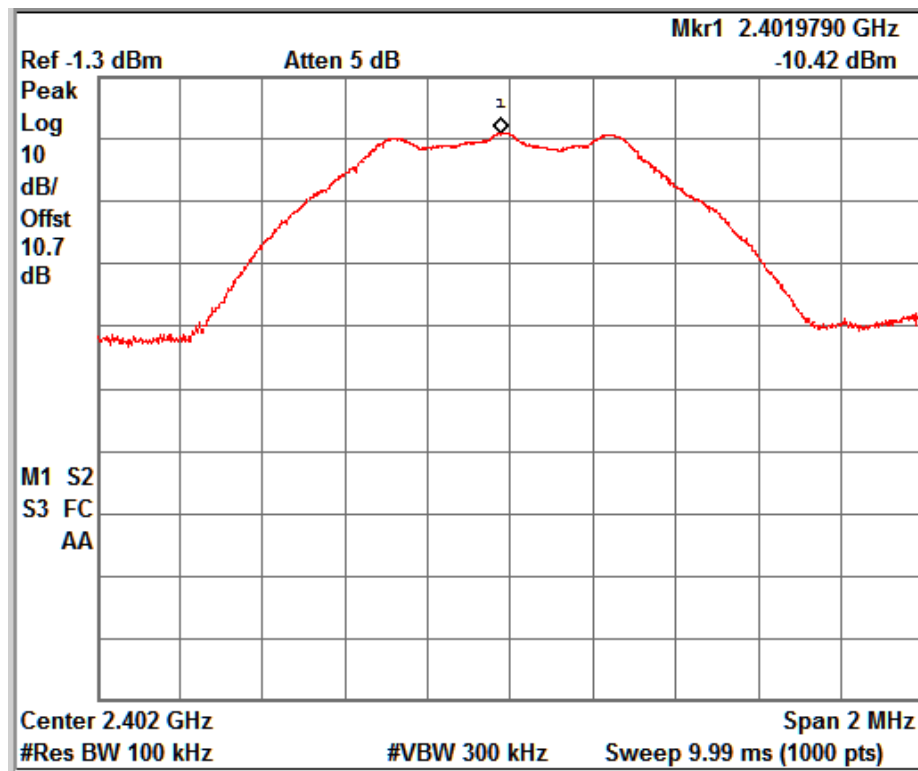
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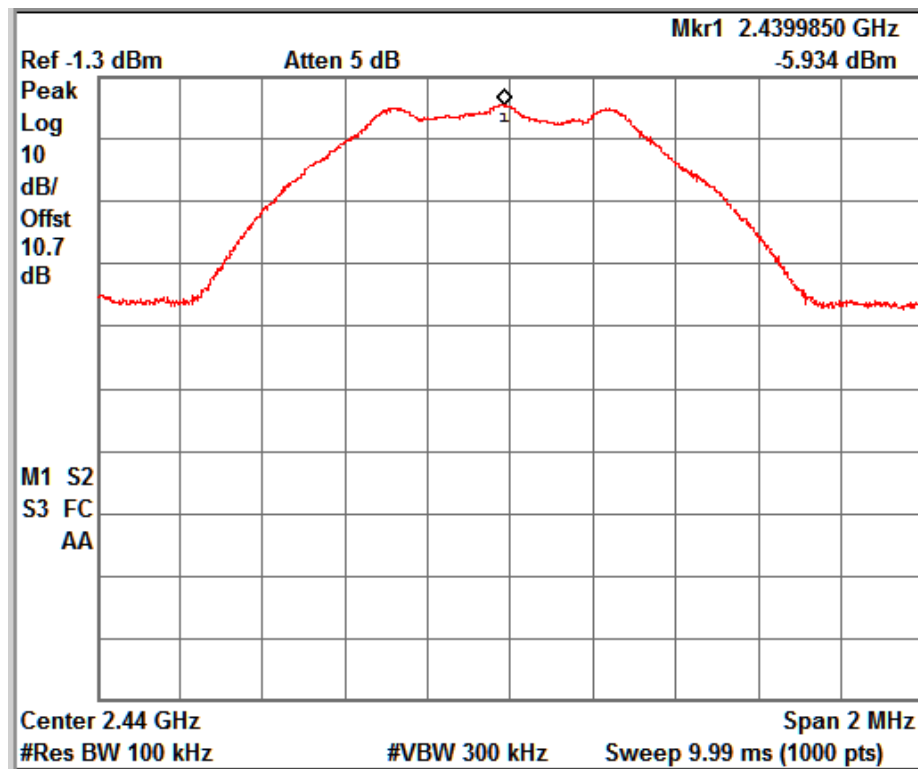
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**Channel low – 2402 MHz**



**Channel mid – 2440 MHz**

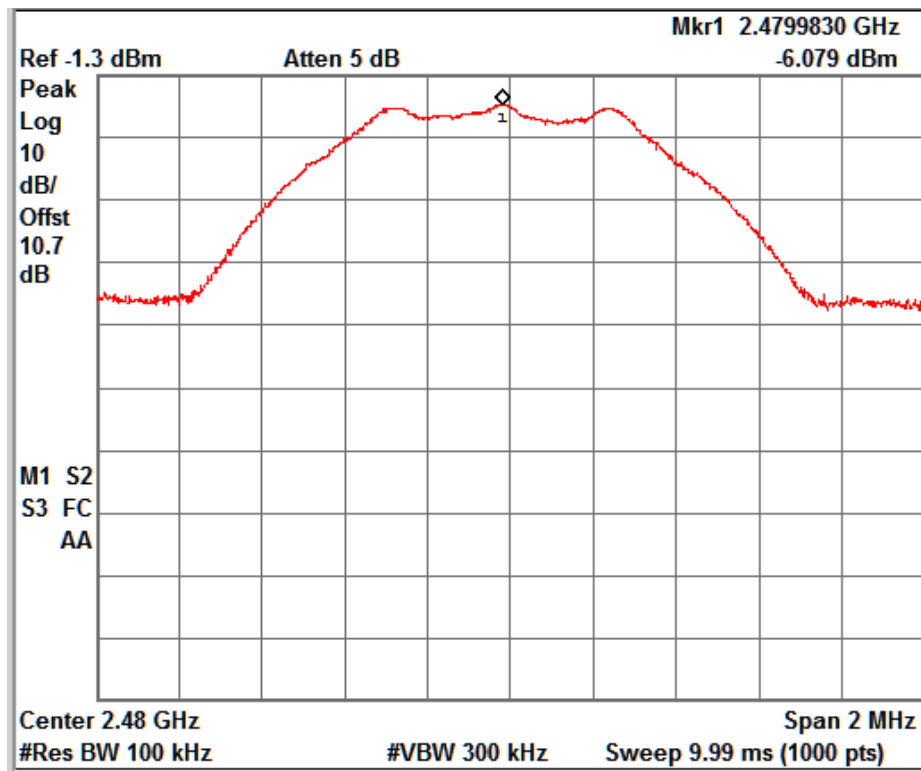
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**Channel high – 2480 MHz**

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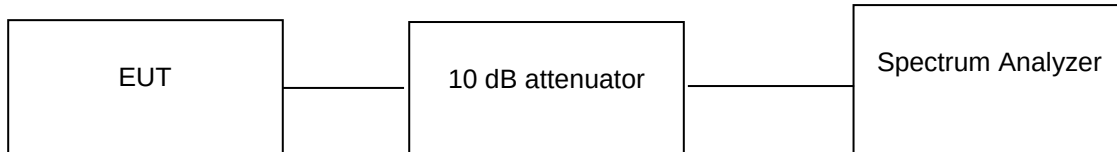
**DTS Bandwidth**

**Result**

**Pass**

|                    |                                                       |
|--------------------|-------------------------------------------------------|
| Test Specification | FCC part 15 Subpart C Section 15.247 (a)(2)           |
| Detector           | Peak                                                  |
| Port of testing    | Antenna Port                                          |
| Requirement        | The minimum 6 dB bandwidth shall be at least 500 kHz. |

**Test Method:**



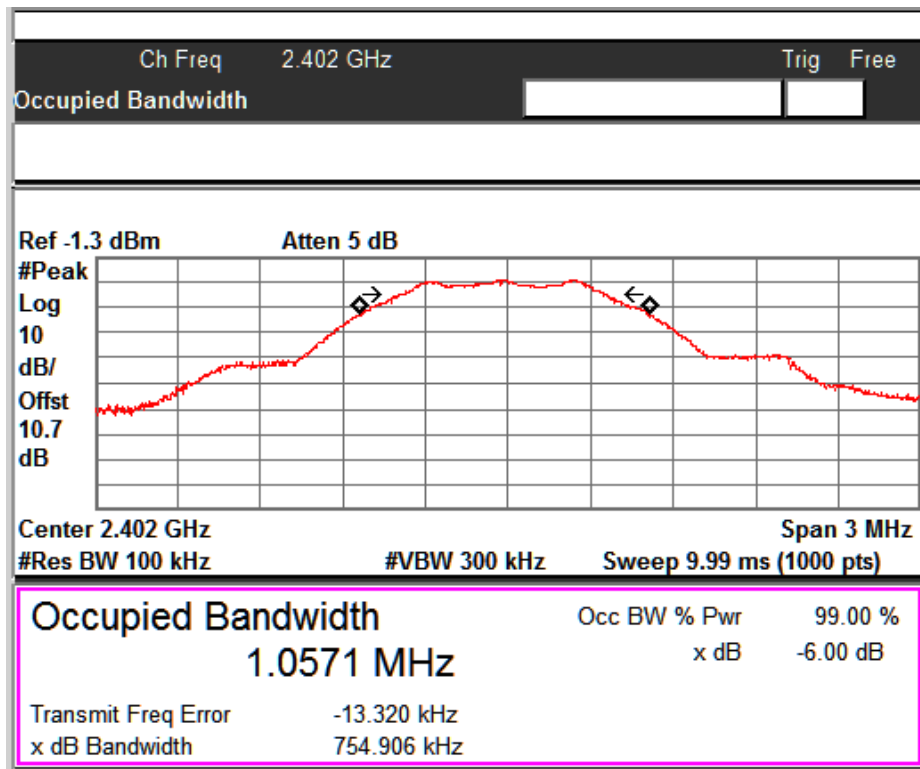
**Test results:**

**Note:** Measurements were made as per section 8.1, 8.2 in KDB 558074 D01 DTS Meas Guidance v04.

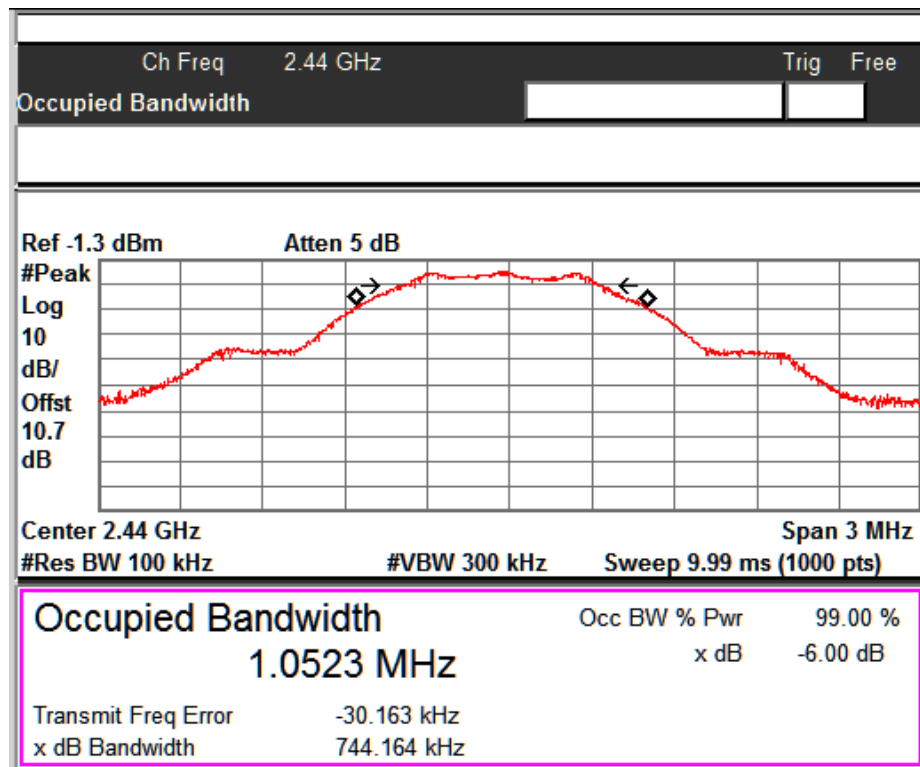
10 dB attenuator + 0.7 Cable loss = 10.7 dB offset is considered in below result

**Table 7 : DTS Bandwidth verified Test Results**

| Channel Frequency (MHz) | 6 dB Bandwidth (kHz) | 99% OBW (MHz) |
|-------------------------|----------------------|---------------|
| 2402.00                 | 754.90               | 1.057         |
| 2440.00                 | 744.16               | 1.052         |
| 2480.00                 | 750.78               | 1.055         |



Channel low – 2402 MHz



Channel mid – 2440 MHz

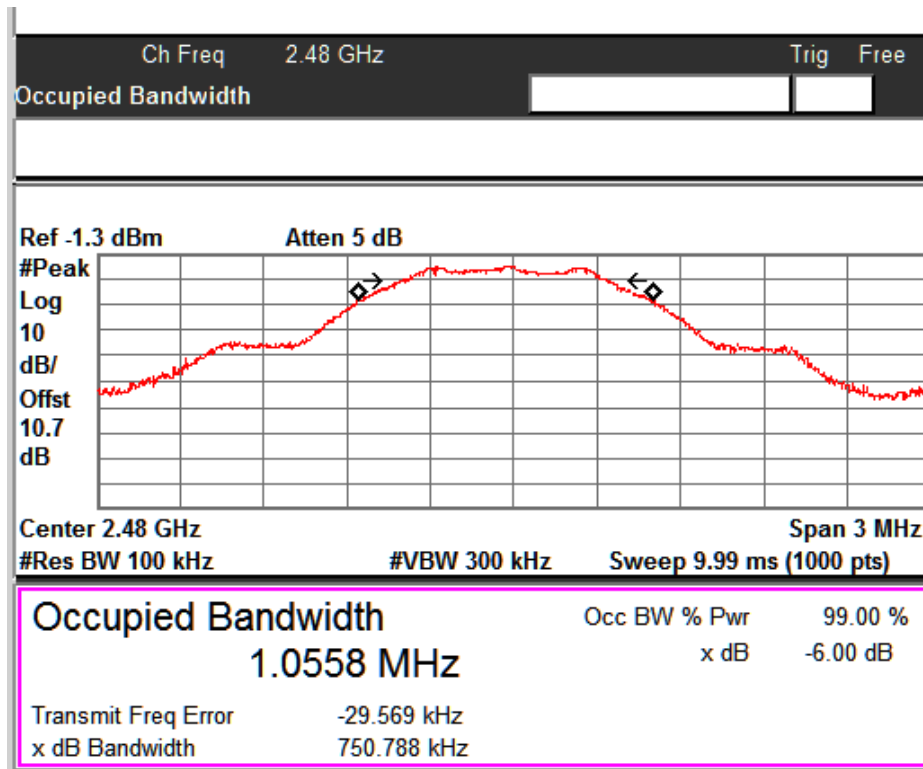
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**Channel high – 2480 MHz**

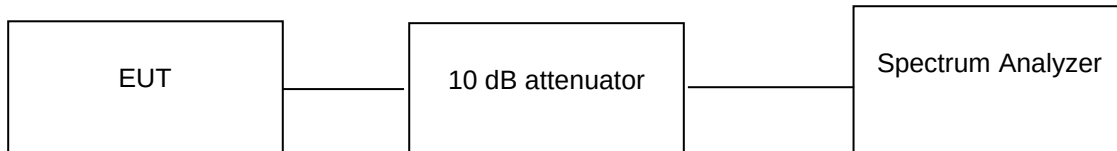
## Emissions in non-restricted frequency bands

### Result

### Pass

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Specification | FCC Part 15 Subpart C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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:



### Test results:

**Note:** Measurements were made as per section 11.2, 11.3 in KDB 558074 D01 DTS Meas Guidance v04.

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

**Table 8 : Verified Test Results of Emissions in non-restricted frequency bands**

| Channel Frequency (MHz) | Value at Band Edge |               | Reference PSD Value B (dBm) | Band Edge Value A~B (dB) | Limit (dBc) |
|-------------------------|--------------------|---------------|-----------------------------|--------------------------|-------------|
|                         | Frequency (MHz)    | Value A (dBm) |                             |                          |             |
| 2402                    | 2400               | -60.58        | -10.42                      | -50.16                   | 20.00       |
| 2480                    | 2483.50            | -65.47        | -6.07                       | -59.4                    | 20.00       |

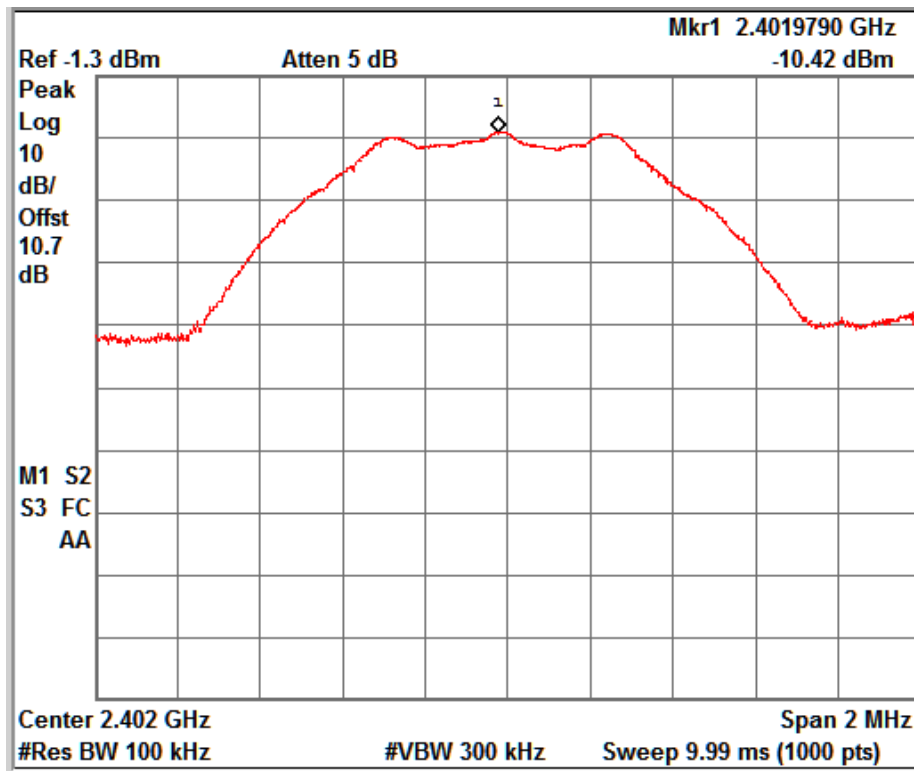
**Prüfbericht - Nr.:**

Test Report No.:

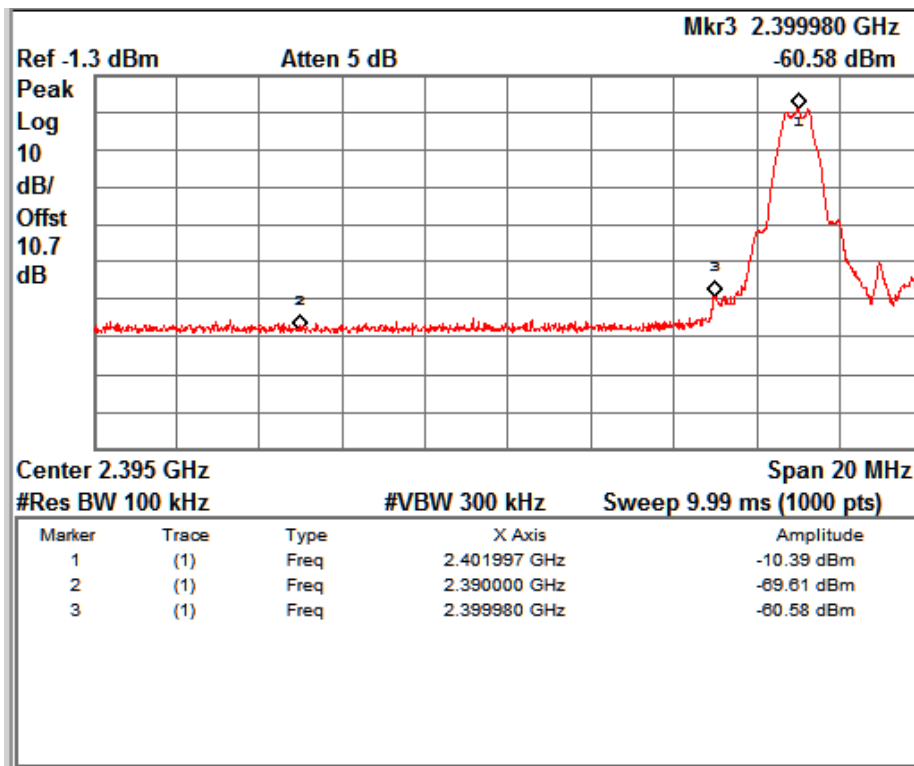
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Reference Level Plot - Channel low 2402 MHz



Channel low - 2402 MHz

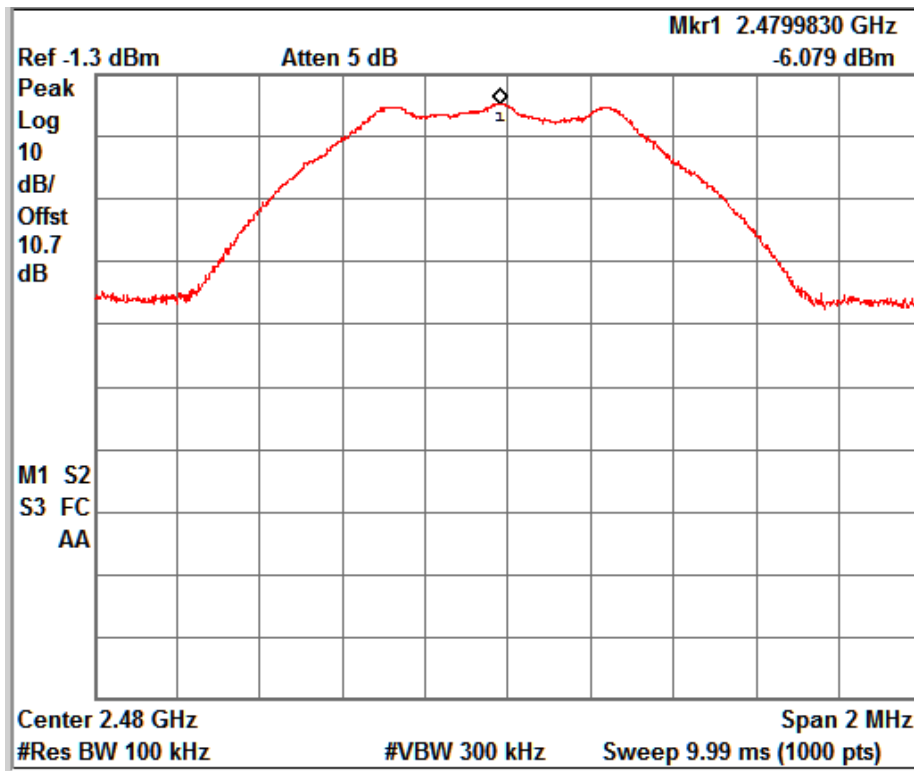
**Prüfbericht - Nr.:**

Test Report No.:

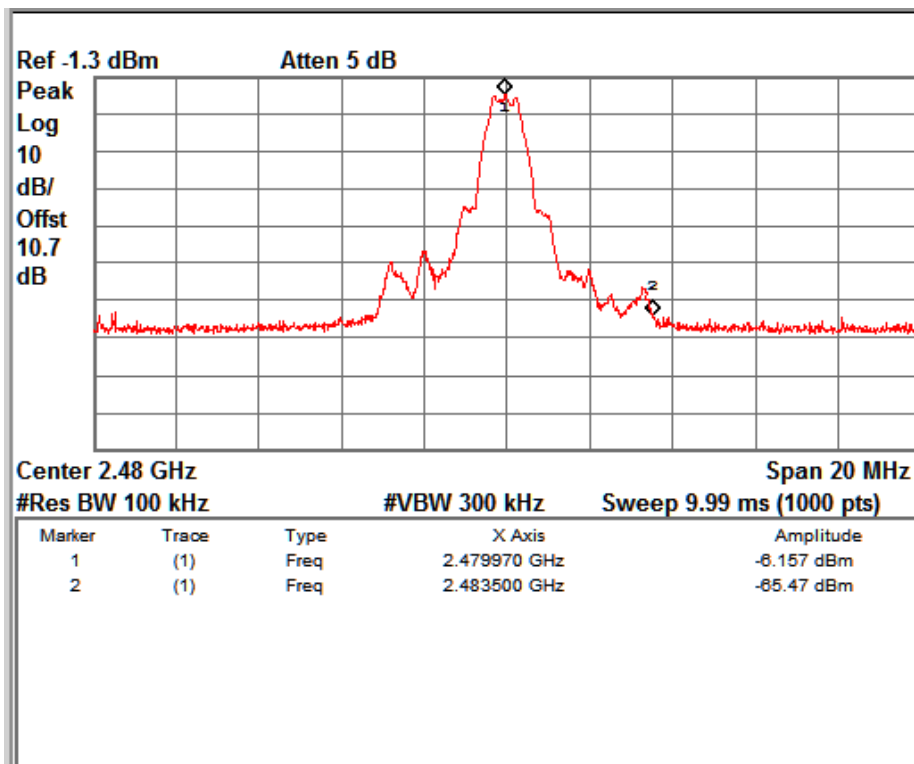
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Reference Level Plot - Channel high – 2480 MHz



Channel high - 2480 MHz

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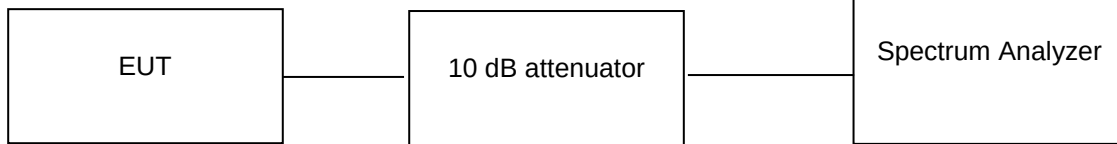
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**Conducted Spurious Emission**

**Result**

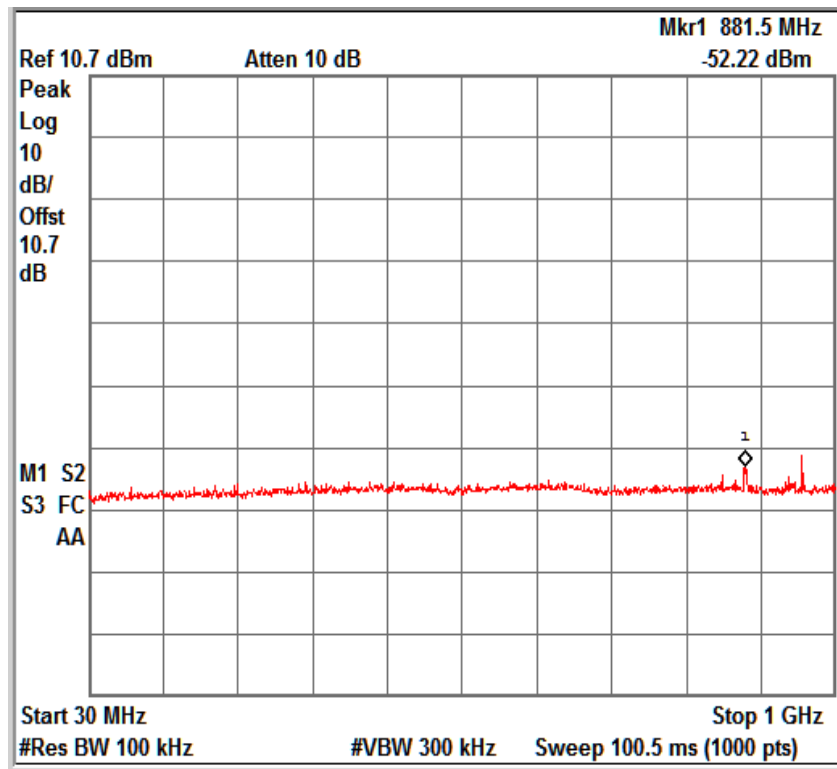
**Pass**

Test Method:



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

Test results:



**30MHz to 1GHz Spurious Emissions**

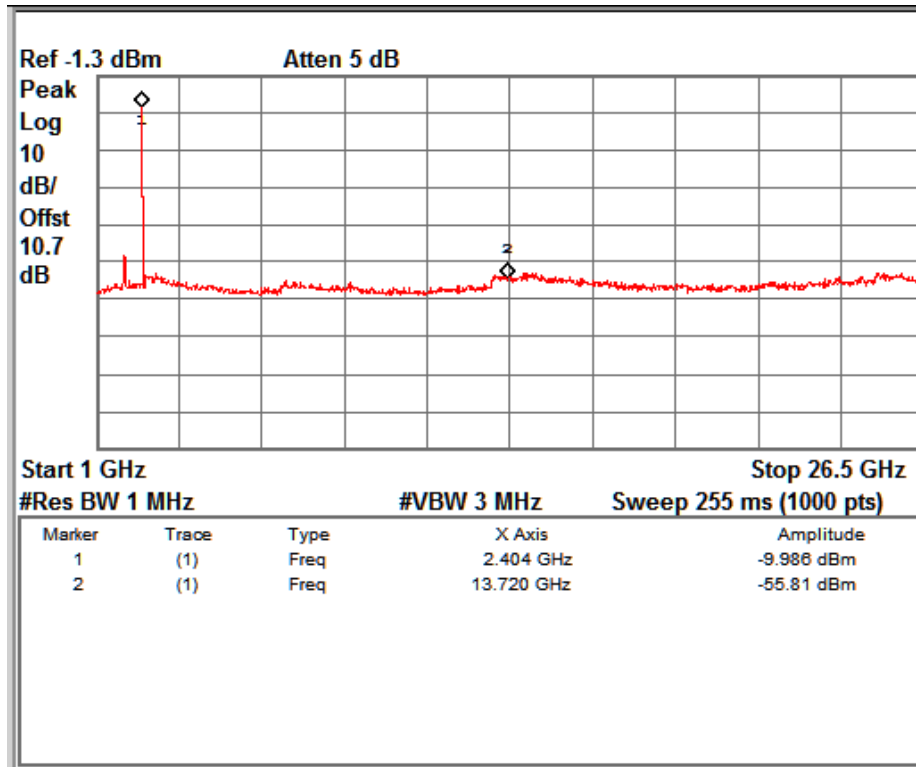
**Prüfbericht - Nr.:**

Test Report No.:

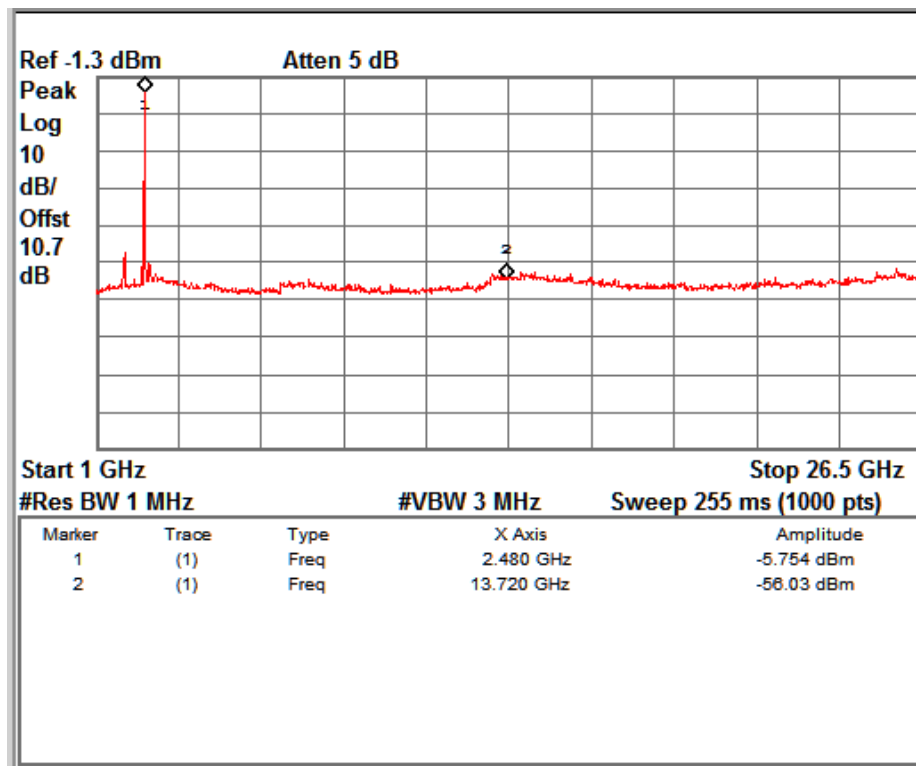
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**Channel Frequency 2402 MHz**



**Channel Frequency 2480 MHz**

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**Restricted bands of Emissions & Restricted Bands of Operation**

**Result**

**Pass**

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Test Specification   | FCC part 15 Subpart C Section 15.247 (d) / (15.209 & 15.205)    |
| Test Method          | ANSI C 63.10 - 2013                                             |
| Measurement Location | Semi Anechoic Chamber                                           |
| 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 9: Transmitter limits for Radiated emission of Section 15.209**

| Frequency (MHz) | Field strength (μV/m) | Field strength (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 dBμV/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:**

5 VDC from Power adaptor

**Environmental conditions:**

Temperature: +23.5 °C      RH: 61.7 %

## 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 (MHz) | Measured value (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------|-----------------|-------------------------|----------------|-------------|
| Vertical     | 46.97           | 27.03                   | 40             | -12.97      |
|              | 148.04          | 26.43                   | 43.5           | -17.07      |
| Horizontal   | 87.23           | 18.03                   | 40             | -21.97      |
|              | 180.73          | 21.25                   | 43.5           | -22.25      |

### Adapter 1 with Battery 2 combination

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

### Adapter 2 with Battery 1 combination

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

### Adapter 2 with Battery 2 combination

| Polarization | Frequency (MHz) | Measured value (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------|-----------------|-------------------------|----------------|-------------|
| Vertical     | 46.74           | 26.00                   | 40             | -14.00      |
|              | 174.22          | 21.59                   | 43.5           | -21.91      |
| Horizontal   | 92.25           | 20.45                   | 40             | -19.55      |
|              | 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 (MHz) | Measured value (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------|-----------------|-------------------------|----------------|-------------|
| Vertical     | 479.98          | 24.41                   | 46             | -21.59      |
|              | 591.24          | 27.85                   | 46             | -18.15      |
| Horizontal   | 480.08          | 24.72                   | 46             | -21.28      |
|              | 590.46          | 27.31                   | 46             | -18.69      |

**Adapter 1 with Battery 2 combination**

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

**Adapter 2 with Battery 1 combination**

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

**Adapter 2 with Battery 2 combination**

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

**Test results for frequencies in the range 1 GHz - 26.5 GHz**

**Table 10 : Restricted bands of emission verified Test Results**

| Channel | Polarization | Frequency (MHz) | Measure Emission Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|---------|--------------|-----------------|---------------------------------|----------------|-------------|
| Low     | Vertical     | 2390(Pk)        | 39.25                           | 74             | -34.75      |
|         |              | 2390(Av)        | 27.10                           | 54             | -26.90      |
|         |              | 2402(Pk)        | 73.10                           | -              | *           |
|         |              | 2402(Av)        | 69.08                           | -              | *           |
|         |              | 4804(Pk)        | 53.18                           | 74             | -20.82      |
|         |              | 4804(Av)        | 43.48                           | 54             | -10.52      |
|         | Horizontal   | 2390(Pk)        | 38.64                           | 74             | -35.36      |
|         |              | 2390(Av)        | 27.10                           | 54             | -26.9       |
|         |              | 2402(Pk)        | 81.30                           | -              | *           |
|         |              | 2402(Av)        | 76.98                           | -              | *           |
|         |              | 4804(Pk)        | 53.36                           | 74             | -20.64      |
|         |              | 4804(Av)        | 42.64                           | 54             | -11.36      |
| Mid     | Vertical     | 4880(Pk)        | 54.21                           | 74             | -19.79      |
|         |              | 4880(Av)        | 44.15                           | 54             | -9.85       |
|         | Horizontal   | 4880(Pk)        | 54.11                           | 74             | -19.89      |
|         |              | 4880(Av)        | 43.51                           | 54             | -10.49      |
| High    | Vertical     | 2480(Pk)        | 80.26                           | -              | *           |
|         |              | 2480(Av)        | 76.15                           | -              | *           |
|         |              | 2483.5(Pk)      | 38.12                           | 74             | -35.88      |
|         |              | 2483.5(Av)      | 26.93                           | 54             | -27.07      |
|         |              | 4960(Pk)        | 54.06                           | 74             | -19.94      |
|         |              | 4960(Av)        | 43.53                           | 54             | -10.47      |
|         | Horizontal   | 2480(Pk)        | 86.01                           | -              | *           |
|         |              | 2480(Av)        | 82.21                           | -              | *           |
|         |              | 2483.5(Pk)      | 39.61                           | 74             | -34.39      |
|         |              | 2483.5(Av)      | 27.82                           | 54             | -26.18      |
|         |              | 4960(Pk)        | 54.08                           | 74             | -19.92      |
|         |              | 4960(Av)        | 43.27                           | 54             | -10.73      |

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

\* Decreases with the logarithm of the frequency

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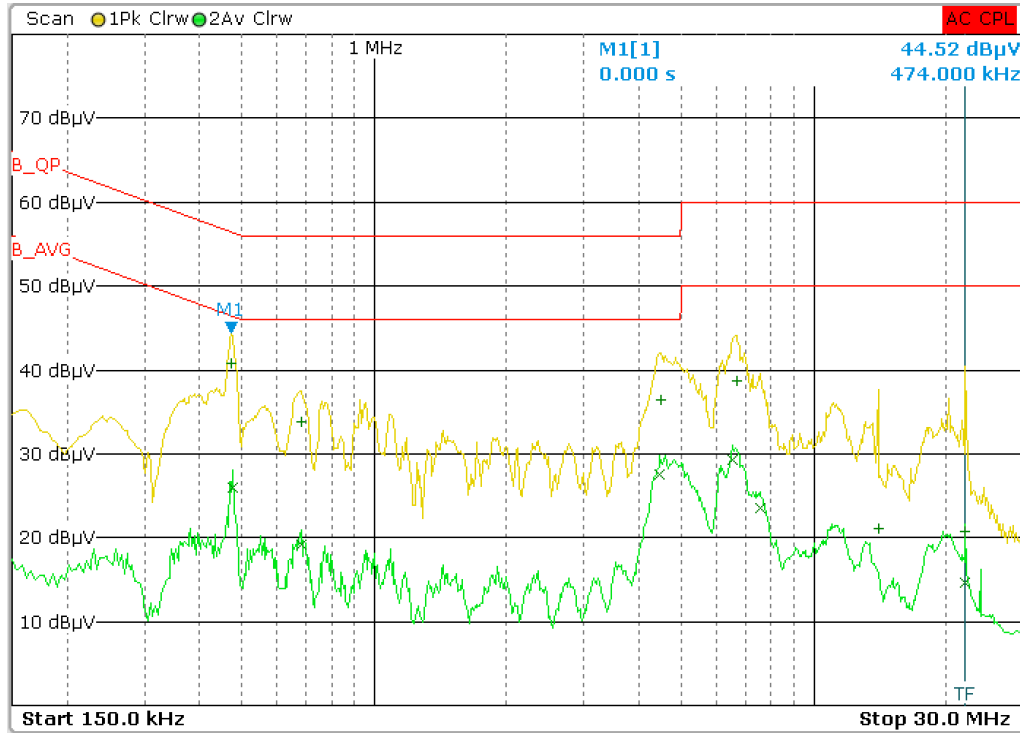
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**Test Result: LINE Graphs and Tables**

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



**Line Graph**

| Detector   | Frequency  | Level (dBμV) | Limit (dBμV) | Margin (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**

**Prüfbericht - Nr.:**

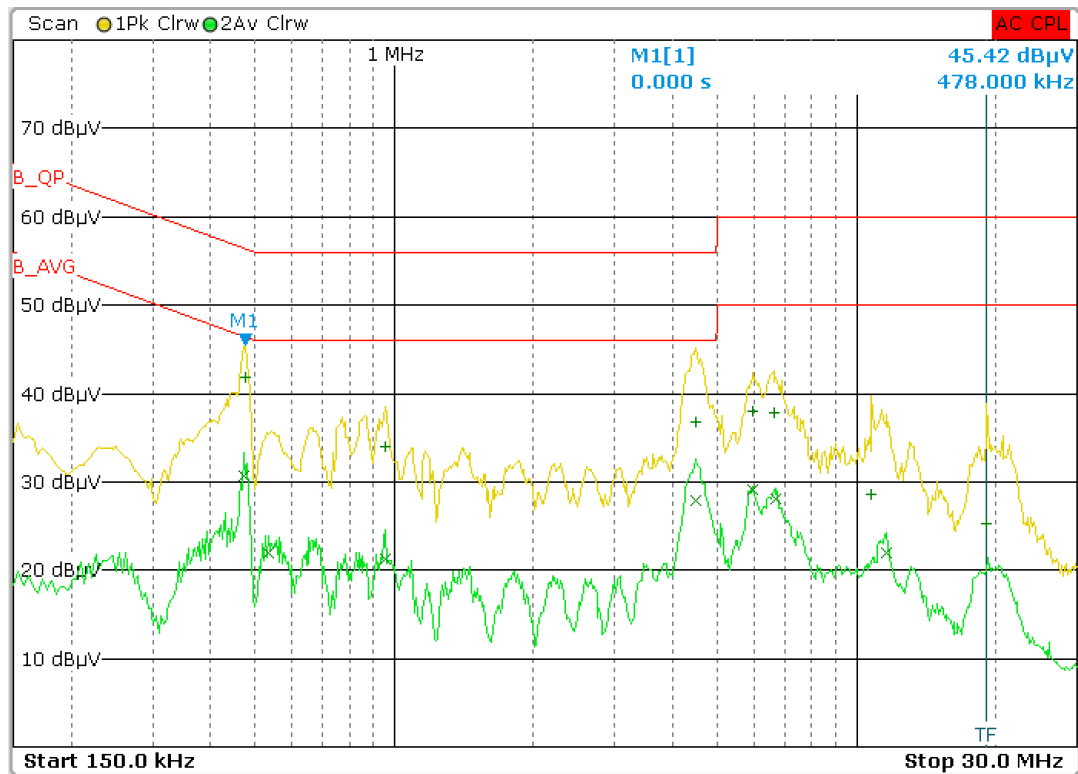
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**110v AC , 60Hz - Adapter 1 with Battery 2 combination**



**Line Graph**

| Detector   | Frequency  | Level (dBμV) | Limit (dBμV) | Margin (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**

**Prüfbericht - Nr.:**

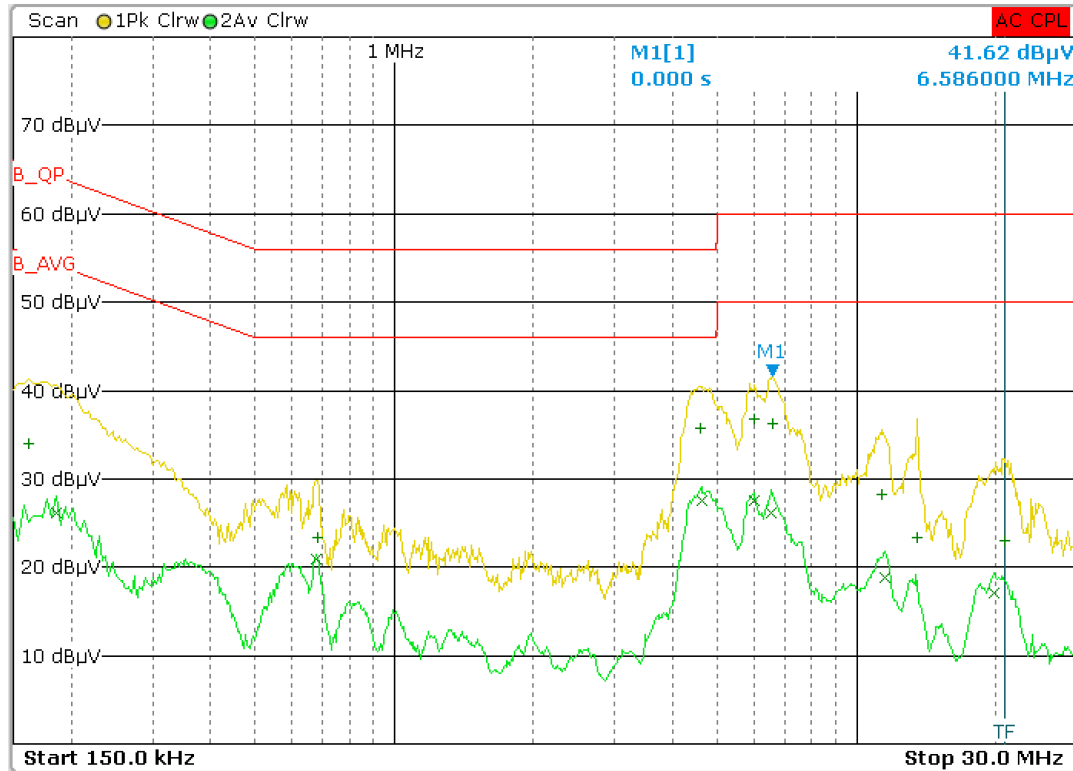
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**110v AC , 60Hz - Adapter 2 with Battery 1 combination**



**Line Graph**

| Detector   | Frequency  | Level (dBμV) | Limit (dBμV) | Margin (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**

**Prüfbericht - Nr.:**

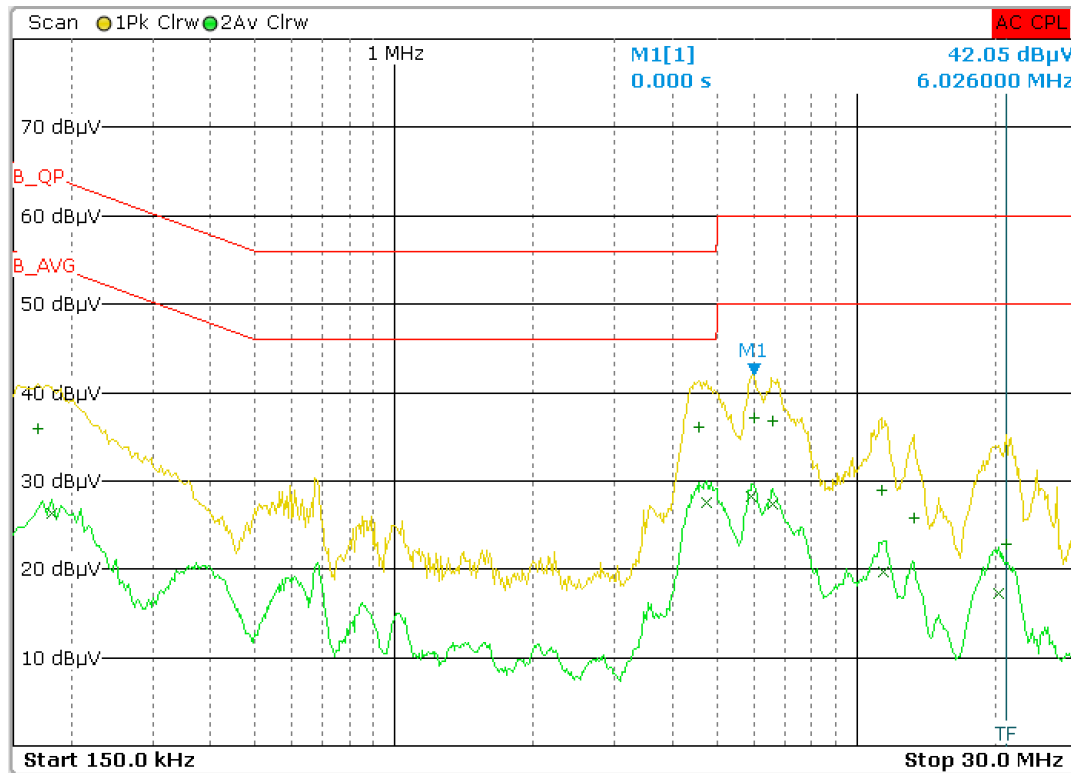
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**110v AC , 60Hz - Adapter 2 with Battery 2 combination**



**Line Graph**

| Detector   | Frequency  | Level (dBμV) | Limit (dBμV) | Margin (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**

**Prüfbericht - Nr.:**

Test Report No.:

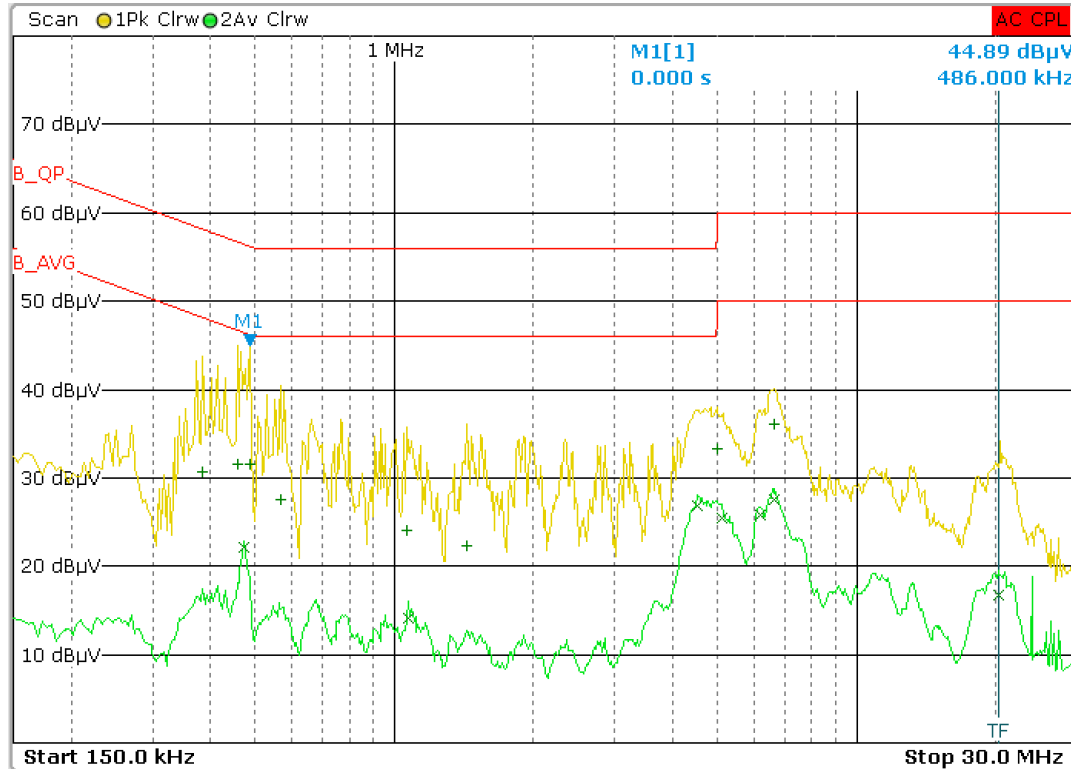
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**NEUTRAL Graphs and Tables**

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



**Neutral Graph**

| Detector   | Frequency  | Level (dBμV) | Limit (dBμV) | Margin (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      |

**Neutral Table**

**Prüfbericht - Nr.:**

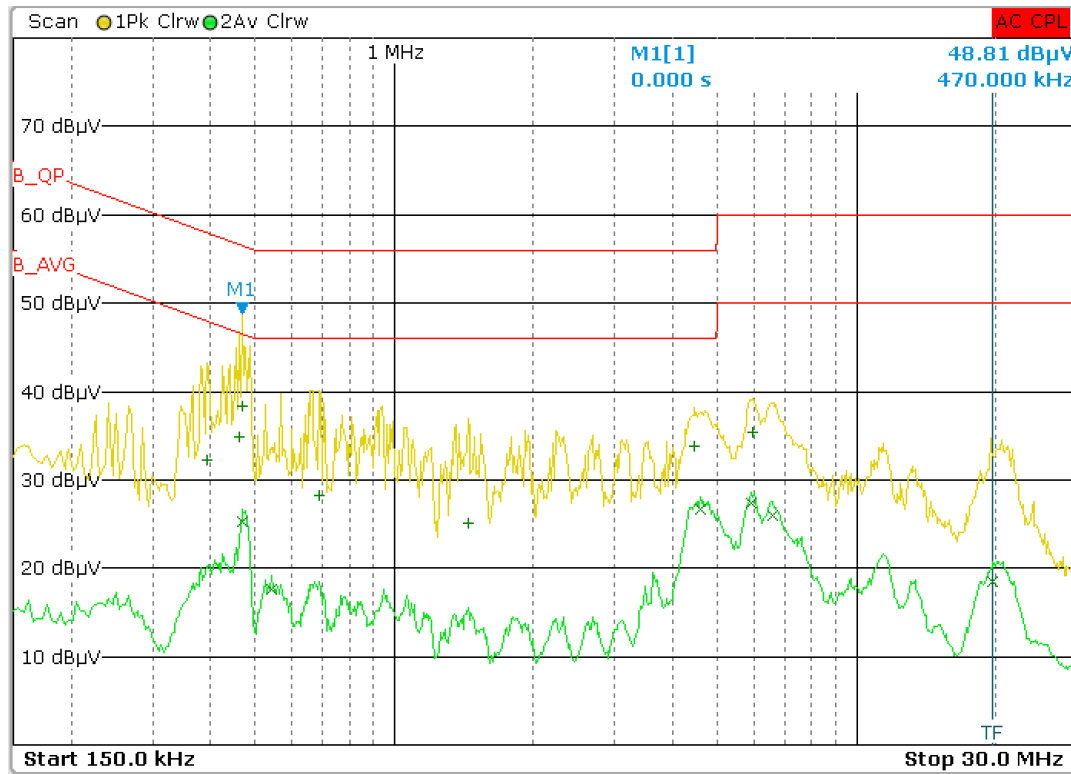
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**110v AC , 60Hz - Adapter 1 with Battery 2 combination**



**Neutral Graph**

| Detector   | Frequency  | Level (dBμV) | Limit (dBμV) | Margin (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      |

**Neutral Table**

**Prüfbericht - Nr.:**

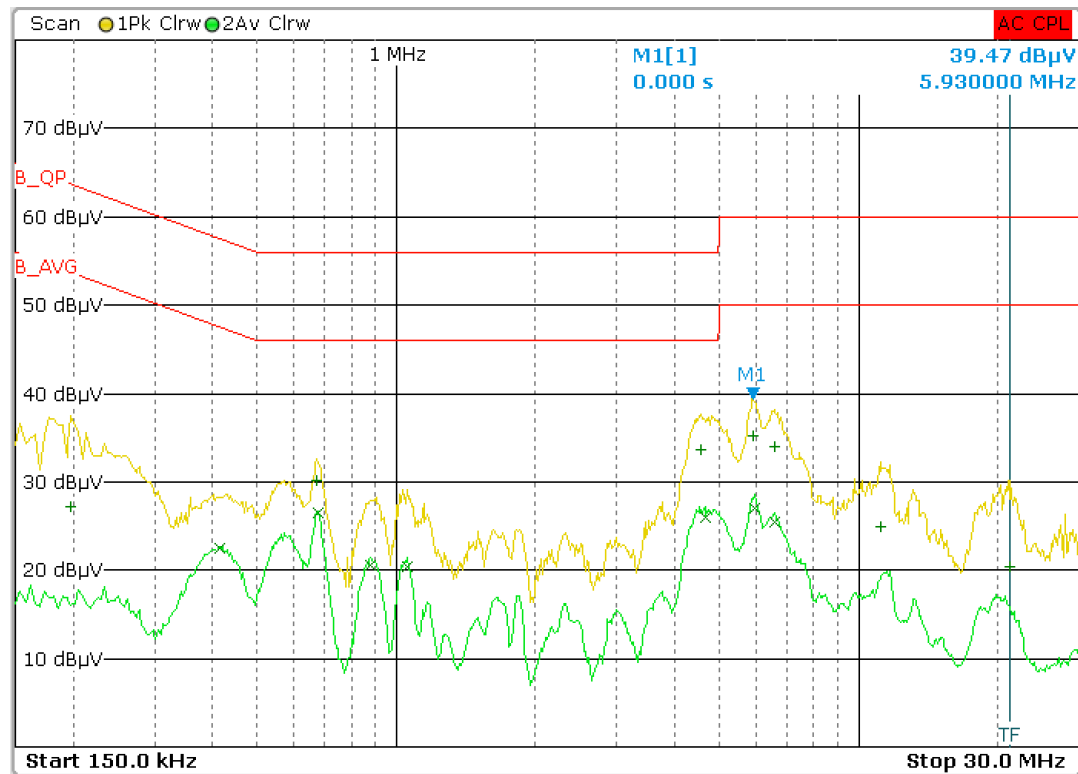
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**110v AC , 60Hz - Adapter 2 with Battery 1 combination**



**Neutral Graph**

| Detector   | Frequency  | Level (dBμV) | Limit (dBμV) | Margin (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      |

**Neutral Table**

**Prüfbericht - Nr.:**

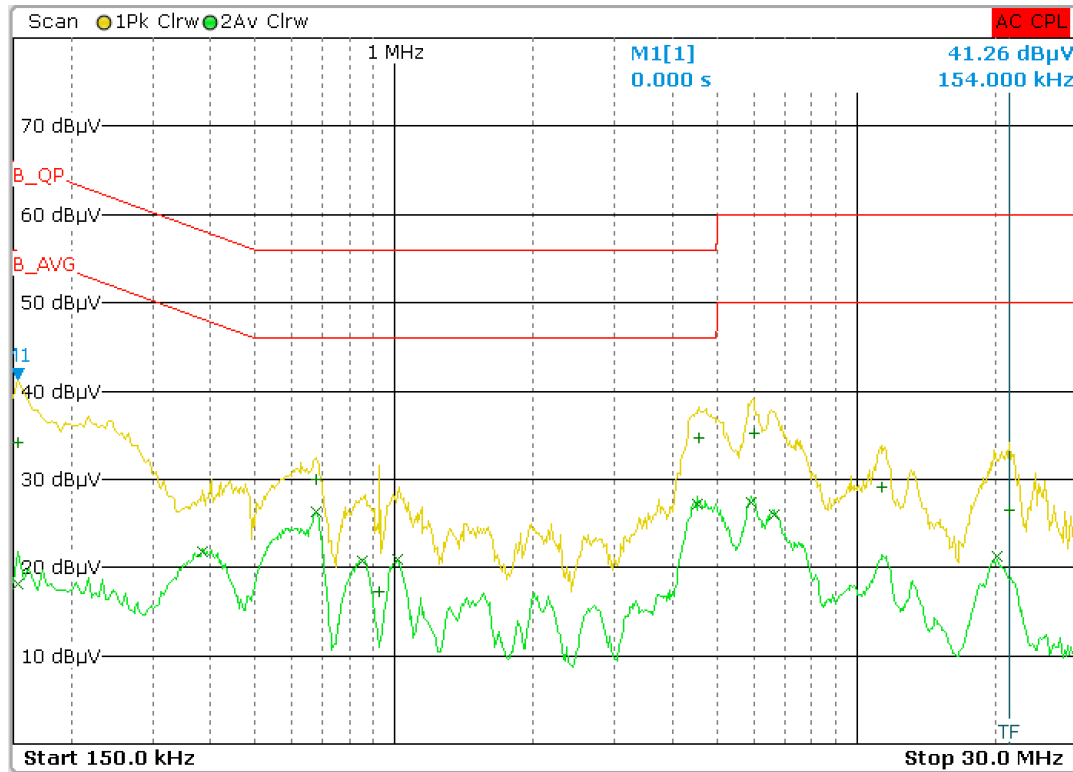
Test Report No.:

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



**Neutral Graph**

| Detector   | Frequency  | Level (dBμV) | Limit (dBμV) | Margin (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      |

**Neutral Table**

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