

Prüfbericht - Nr.: 10054928 001
Test Report No.:

Auftraggeber: Kodak Alaris Inc

Client: 2400 Mt. Read Blvd., Rochester, NY 14615 USA

Gegenstand der Prüfung: Bluetooth 4.0 Mini USB Adapter

Test item:

**Bezeichnung:** BTA-8000 **Serien-Nr.:** N/A *Identification:* Serial No.:

Wareneingangs-Nr.: BTA-8000 Eingangsdatum: 2015/12/09

Receipt No.: Date of receipt:

Prüfort: TÜV Rheinland Taiwan Ltd.

Testing location:

11F., No.758, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105 Taiwan

FCC Registration No.: 365730

Prüfgrundlage: FCC CFR47 Part 15: Subpart C Section 15.247

Test specification: RSS-247 (05-2015)

Prüfergebnis: Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).

Test Result: The test item passed the test specification(s).

Prüflaboratorium: TÜV Rheinland Taiwan Ltd.

Testing Laboratory:

geprüft/ tested by: kontrolliert/ reviewed by:

Ryan Chen / Project Manager Rene Charton/Senior Project Manager 2016-02-15 2016-02-15 Datum Name/Stellung Unterschrift Datum Name/Stellung Unterschrift Name/Position Name/Position Date Date Sianature Signature

Sonstiges/ Other Aspects:

BLE mode

entspricht Prüfgrundlage Abbreviations: Abkürzungen: P(ass) P(ass) passed F(ail) entspricht nicht Prüfgrundlage F(ail) . failed N/A nicht anwendbar N/A not applicable N/T nicht getestet

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.

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.



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## **TEST SUMMARY**

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

**5.1.2 OUTPUT POWER** 

RESULT: Passed

5.1.3 6DB BANDWIDTH

RESULT: Passed

5.1.4 99% BANDWIDTH

RESULT: Passed

5.1.5 CONDUCTED SPURIOUS EMISSIONS AND FREQUENCY BAND EDGE MEASURED IN 100KHZ

**BANDWIDTH** 

RESULT: Passed

5.1.6 PEAK POWER DENSITY

RESULT: Passed

5.1.7 Spurious Emission

RESULT: Passed

5.1.8 Mains Conducted Emission

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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## 1. General Remarks

## 1.1 Complementary Materials

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

**Appendix P: Photo** 

(File: 10054928APPENDIXP)

**Appendix D: Test Result of Radiated Emissions** 

(File: 10054928APPENDIXD)

**Test Specifications** 

The following standards were applied (in bold: product standards, otherwise: basic standards).

#### **Table 1: Applied Standard and Test Levels**

#### Radio

FCC CFR47 Part 15: Subpart C Section 15.247

RSS-247 Issue 1 May 2015

RSS-Gen, Issue 4, November 2014

ANSI C63.10:2013

KDB558074 D01 DTS Meas Guidance v03r03



Driifhariaht Nr. 40054029 004

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## 2. Test Sites

## 2.1 Test Facilities

TUV Rheinland Taiwan Ltd.

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.

Taipei City 105 Taiwan (R.O.C.)

FCC Registration No.: 365730



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## 2.2 List of Test and Measurement Instruments

**Table 2: List of Test and Measurement Equipment** 

| Kind of<br>Equipment             | Manufacturer   | Туре      | S/N        | Last<br>Calibration | Next<br>Calibration |
|----------------------------------|----------------|-----------|------------|---------------------|---------------------|
| EMI Test Receiver                | R&S            | ESR7      | 101062     | 10-Sep-15           | 19-Sep-16           |
| Bilog Antenna                    | TESEQ          | CBL6111D  | 29802      | 4-Jul-14            | 3-Jul-16            |
| Spectrum<br>Analyzer             | R&S            | FSV 40    | 100921     | 21-Dec-15           | 21-Dec-16           |
| Spectrum<br>Analyzer             | Agilent        | N9010A    | MY53470241 | 1-Apr-15            | 30-Mar-16           |
| Horn Antenna                     | ETS-Lindgren   | 3117      | 138160     | 12-Jan-15           | 11-Jan-17           |
| Horn Antenna<br>(18GHz~40GHz)    | COM-POWER      | AH840     | 101031     | 22-Oct-15           | 21-Oct-17           |
| Preamplifier<br>(30MHz -1GHz)    | HP             | 8447F     | 2805A03335 | 31-Aug-15           | 31-Aug-16           |
| Preamplifier (18<br>GHz -40 GHz) | COM-POWER      | PAM-840   | 461257     | 26-Aug-14           | 26-Aug-16           |
| Pre-Amplifier<br>(1GHz~18GHz)    | EM Electronics | EM30180   | 60558      | 4-Nov-15            | 3-Nov-16            |
| Loop Antenna                     | Schwarzbeck    | FMZB 1513 | 1513-076   | 21-Oct-14           | 20-Oct-16           |
| EMI Test Receiver                | R&S            | ESCI7     | 100797     | 28-Dec-15           | 27-Dec-16           |
| Spectrum<br>Analyzer             | R&S            | FSL3      | 101943     | 7-Sep-15            | 7-Sep-16            |
| LISN (1 phase)                   | R&S            | ENV216    | 101243     | 1-Jun-15            | 31-May-16           |
| LISN                             | R&S            | ENV216    | 101262     | 16-Jun-15           | 15-Jun-16           |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

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### 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are  $\pm 3 dB$ .

Table 3: Emission Measurement Uncertainty

| Parameter  | Uncertainty            |
|--|------------------------|
| Radio Frequency                                      | ± 1 x 10 <sup>-7</sup> |
| RF power, conducted                                  | ± 1 dB                 |
| Adjacent channel power                               | ± 3 dB                 |
| Radiated emission of transmitter, valid up to 26 GHz | ± 6 dB                 |
| Radiated emission of receiver, valid up to 26 GHz    | ± 6 dB                 |
| Temperature  | ± 2 °C                 |
| Humidity   | ± 10 %                 |



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## 3. General Product Information

#### 3.1 Product Function and Intended Use

Bluetooth Ultimate USB Adapter BTA-8000 enables wireless connectivity of your existing PC or notebook using the latest Bluetooth Technology and compliant with Bluetooth Standard 4.0 which support Bluetooth low energy feature. For details refer to the User Guide, Data Sheet and Circuit Diagram.

## 3.2 Ratings and System Details

**Table 4: Technical Specification of EUT** 

| Technical Specification   | Value                                   |
|---------------------------|---|
| Kind of Equipment         | Bluetooth Ultimate USB Adapter          |
| FCC ID                    | VHVBTVD1154                             |
| Canada ID                 | 1016B-BTA8000                           |
| Canada HVIN               | VEN-077A-11                             |
| Type Designation          | BTA-8000                                |
| Operating Frequency       | 2402 MHz ~ 2480 MHz                     |
| Channel Spacing           | 1 MHz (BR and EDR Mode), 2Mhz (LE Mode) |
| Channel number            | 79 (BR and EDR Mode), 40 (LE Mode)      |
| Extreme Temperature Range | -10°C to 50°C                           |
| Operation Voltage         | DC 5.0V (from USB Port)                 |
| Modulation                | GFSK, π/4 QPSK, 8 DPSK                  |
| Antenna gain              | -11.27 dBi                              |

#### Note:

This test report is for the LE operation mode.

For the BR and EDR operation mode, please refer to test report No. 10054927 001



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## 3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. Receiving
- C. Standby
- D. Off



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## 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

## 3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description

- Circuit Diagram
- Instruction Manual
- Rating Label



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## 4. Test Set-up and Operation Modes

## 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

## 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 4. All testing were performed according to the procedures in ANSI C63.10: 2013.

Full test was applied on all test modes, but only worst case was shown.

## 4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

| Description      | Manufacturer | Model No. | Serial No. |
|------------------|--------------|-----------|------------|
| Notebook(EMC-06) | Lenovo       | TP00048A  | PB-0F8B2   |

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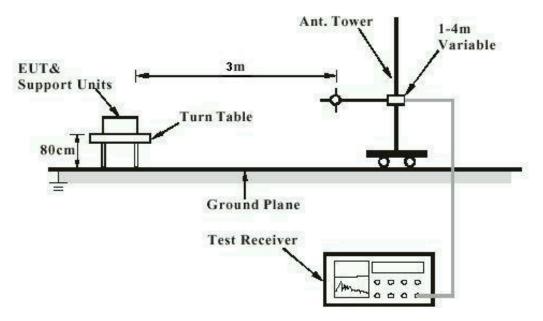
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## 4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

#### **Diagram of Measurement Configuration for Radiation Test**



Note: Measurements above 1 GHz are done with a table height of 1.5m

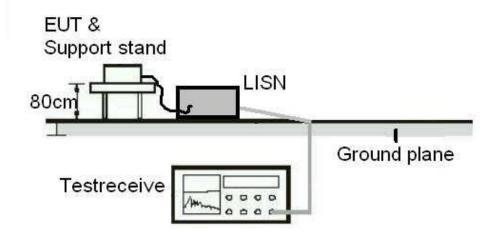


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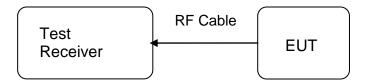
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## Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



# **Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement**





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## 5. Test Results

## **5.1 Transmitter Requirement & Test Suites**

## 5.1.1 Antenna Requirement

RESULT: Passed

Test standard : FCC Part 15.247(b)(4), Part 15.203 and

RSS-Gen 8.3

Limit : the use of antennas with directional gains that do

not exceed 6 dBi

According to the manufacturer declaration, the EUT has an internal antenna with an directional gain of -11.27 dBi, and the antenna is a printed PCB trace with no possibility of replacement. Therefore, the EUT is considered to comply the provision.

Refer to EUT photo for details.



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## 5.1.2 Output Power

**RESULT: Passed** 

2016-01-20 Test date

Test date
Test standard
Basic standard FCC Part 15.247(b)(3), RSS-247 5.4(4)

ANSI C63.10:2013, KDB558074

1 Watt Limit

Kind of test site Shielded room

**Test setup** 

Low/ Middle/ High

peration Mode :
Ambient temperature :
Relative humidity :
Atmospheric pressure **22**°C 52% 101 kPa

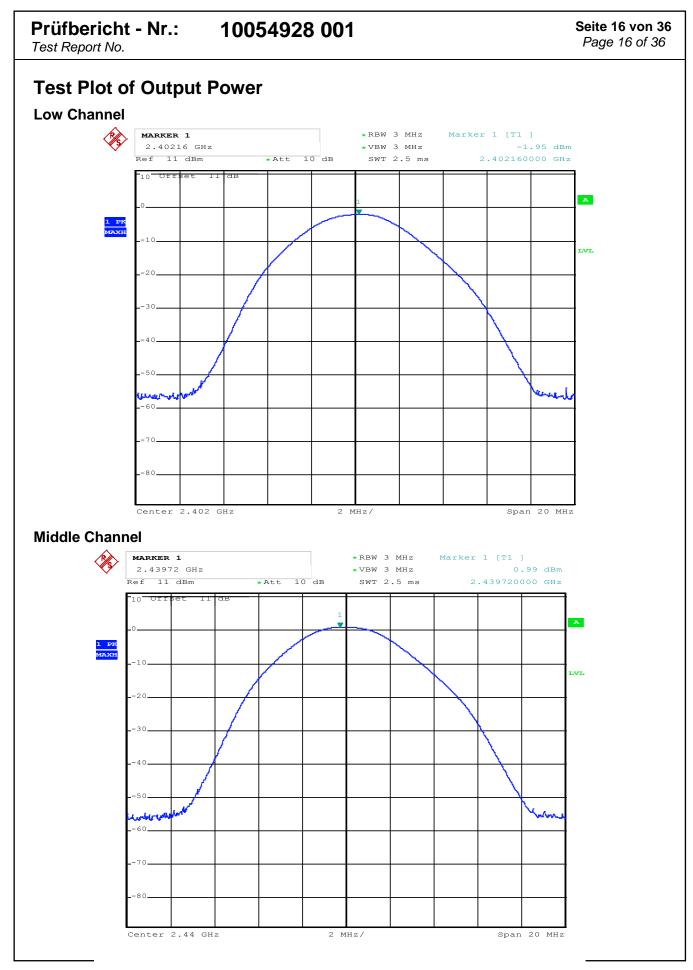
Table 5: Test result of Output Power, GFSK modulation

| Channel        | Channel<br>Frequency | Output | Power  | Limit |
|----------------|----------------------|--------|--------|-------|
|                | (MHz)                | (dBm)  | (W)    | (W)   |
| Low Channel    | 2402                 | -1.95  | 0.0006 | 1     |
| Middle Channel | 2440                 | 0.99   | 0.0013 | 1     |
| High Channel   | 2480                 | 1.43   | 0.0014 | 1     |

Max Value: 1.3900mW

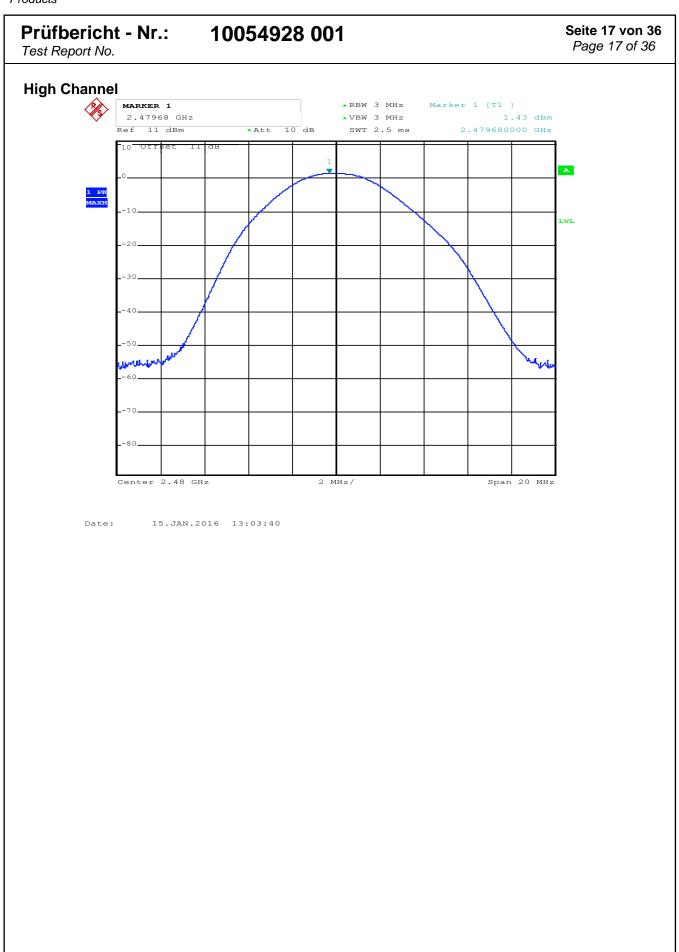


Products





**Products** 





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#### 5.1.3 6dB Bandwidth

**RESULT: Passed** 

FCC Part 15.247(a)(2), RSS-247 5.2(1) Test standard

Test standard : Basic standard : Kind of test site : ANSI C63.10: 2013 Shielded room

**Test setup** 

Low/ Middle/ High

Operation Mode :
Ambient temperature :
Relative humidity Α **24**℃ 53% Atmospheric pressure : 101 kPa

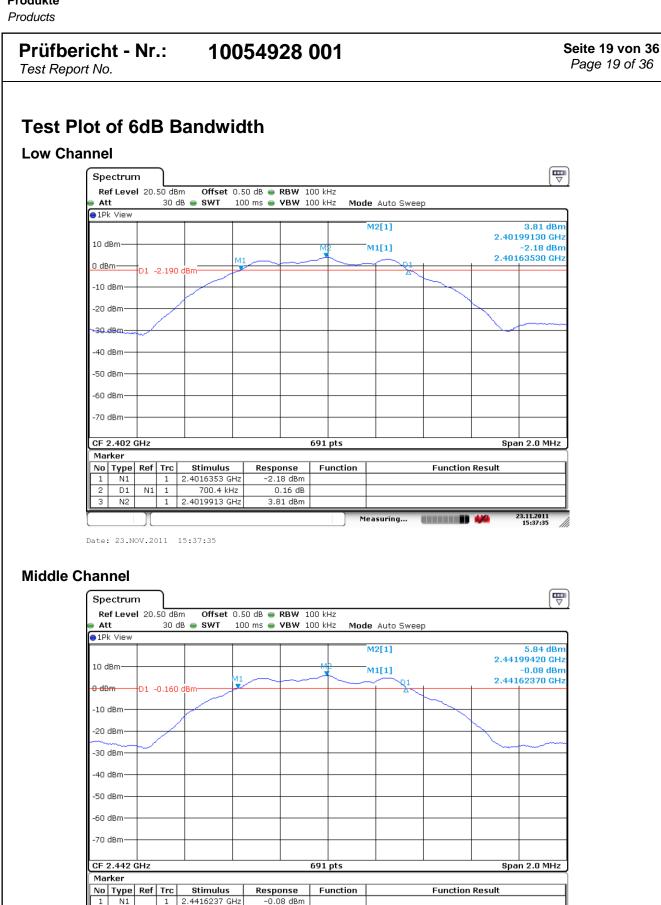
#### Table 6: Test result of 6dB Bandwidth, GFSK modulation

| Channel      | Channel<br>Frequency<br>(MHz) | 6dB<br>Bandwidth<br>(kHz) | Limit<br>(MHz) | Result |
|--------------|-------------------------------|---------------------------|----------------|--------|
| Low Channel  | 2402                          | 700.4                     | >500 kHz       | Pass   |
| Mid Channel  | 2442                          | 703.3                     | >500 kHz       | Pass   |
| High Channel | 2480                          | 720.7                     | >500 kHz       | Pass   |



23.11.2011

### **Produkte**



703.3 kHz

1 2.4419942 GHz

D1 N1 1

Date: 23.NOV.2011 15:36:45

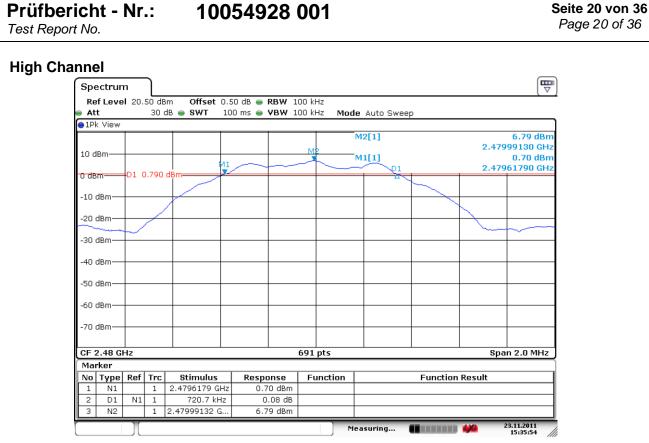
3 N2

0.17 dB

5.84 dBm



**Products** 



Date: 23.NOV.2011 15:35:54



**Products** 

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### 5.1.4 99% Bandwidth

**RESULT: Passed** 

Test standard RSS-Gen (Issue 4) Rest standard
Basic standard
Kind of test site RSS-Gen (Issue 4) Shielded room

**Test setup** 

Low/ Middle/ High

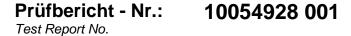
Test Channel :
Operation Mode :
Ambient temperature :
Relative humidity : Α **24**℃ 53% Atmospheric pressure : 101 kPa

Table 7: Test result of 99% Bandwidth, GFSK modulation

| Channel      | Channel<br>Frequency<br>(MHz) | 99%<br>Bandwidth<br>(kHz) | Limit<br>(MHz) | Result |
|--------------|-------------------------------|---------------------------|----------------|--------|
| Low Channel  | 2402                          | 1027.5                    |                | Pass   |
| Mid Channel  | 2442                          | 1021.7                    |                | Pass   |
| High Channel | 2480                          | 1027.5                    |                | Pass   |



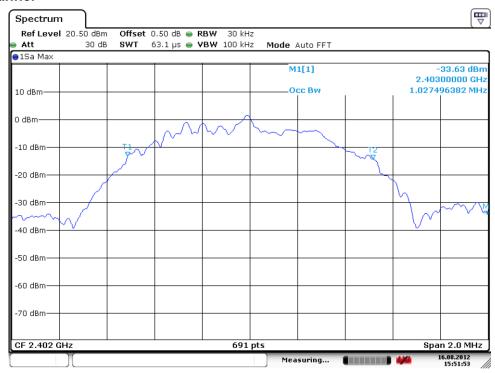
**Products** 



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### Test Plot of 99% Bandwidth

#### **Low Channel**



Date: 16.AUG.2012 15:51:54

#### **Middle Channel**



Date: 16.AUG.2012 15:51:39

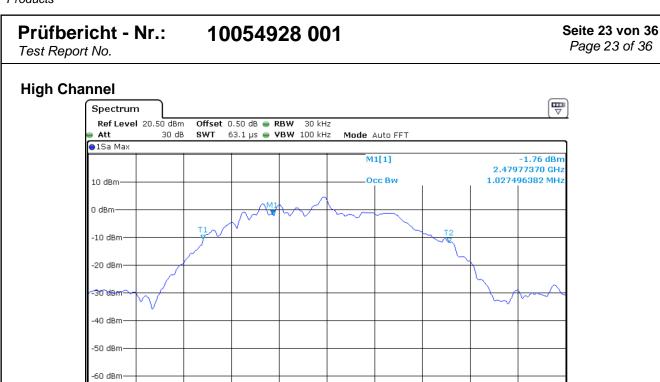


Span 2.0 MHz

16.08.2012 15:51:19

#### **Produkte**

**Products** 



691 pts

Measuring...

Date: 16.AUG.2012 15:51:20

-70 dBm-

CF 2.48 GHz



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### 5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth

**RESULT: Passed** 

Date of testing 2011-11-23

Test standard FCC part 15.247(d), RSS-247 5.5

Basic standard ANSI C63.10: 2013

Limit 20dB (below that in the 100kHz bandwidth within

the band that contains the highest level of the

desired power)

Kind of test site Shielded room

**Test setup** 

Test Channel Low/ High

Operation mode Ambient temperature **22**℃ Relative humidity 52% Atmospheric pressure : 101 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achived as well.

Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.



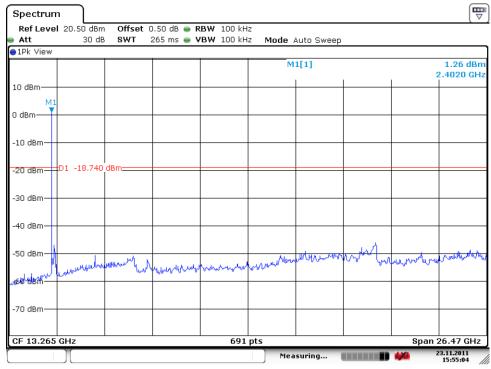
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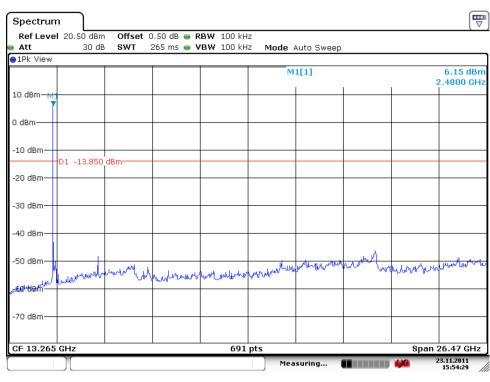
#### **Test Plot of 100kHz Conducted Emissions**

#### **Low Channel**



Date: 23.NOV.2011 15:55:04

#### **High Channel**

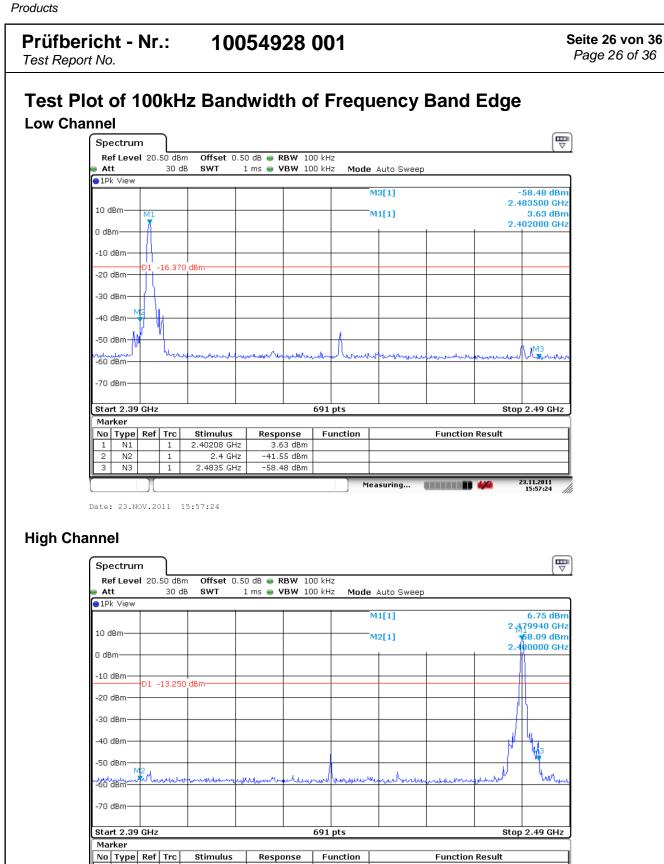


Date: 23.NOV.2011 15:54:29



23.11.2011 16:00:43

Produkte



Date: 23.NOV.2011 16:00:43

N2

NЗ

2.47994 GHz

2.4835 GHz

2.4 GHz

-58.09 dBm

-48.88 dBm



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## 5.1.6 Peak Power Density

**RESULT: Passed** 

Date of testing 2016-01-20

Test standard FCC Part 15.247(e), RSS-247 5.2(2) Basic standard ANSI C63.10:2013, KDB558074

Limit 8 dBm (in 3kHz band)

**Test setup** 

Test Channel Low/ Middle/ High

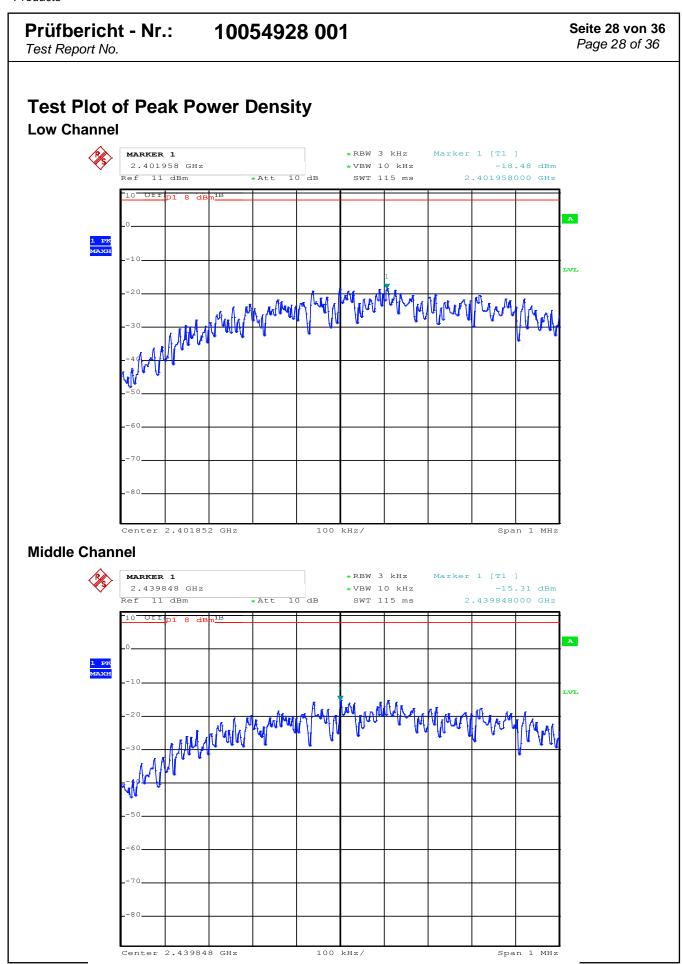
Operation Mode Ambient temperature **24**℃ Relative humidity 53% Atmospheric pressure : 101 kPa

#### **Table 8: Test result of Peak Power Density**

| Channel      | Channel<br>Frequency<br>(MHz) | Peak Power<br>Density<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Result |
|--------------|-------------------------------|-------------------------------------|---------------------|--------|
| Low Channel  | 2402                          | -18.48                              | 8                   | Pass   |
| Mid Channel  | 2440                          | -15.31                              | 8                   | Pass   |
| High Channel | 2480                          | -14.8                               | 8                   | Pass   |



**Products** 



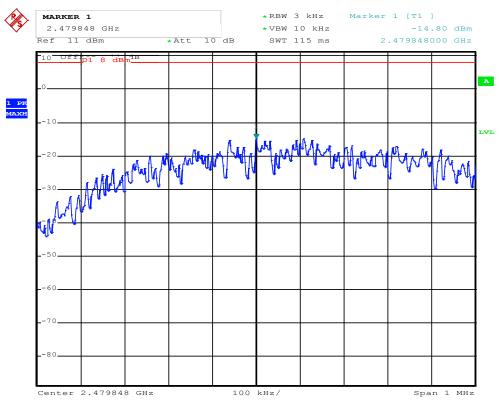


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## **High Channel**



Date: 15.JAN.2016 13:25:55



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### 5.1.7 Spurious Emission

**RESULT: Passed** 

Date of testing 2011-11-29

Test standard FCC part 15.247(d), FCC 15.205, FCC

15.209, RSS-210 2.2, RSS-247 5.5 and

RSS-Gen 8.9

Basic standard ANSI C63.10: 2013

Limits Radiated emissions which fall in the

> restricted bands, as defined in FCC 15.205(a) and RSS-Gen i4, 8.9 (Table 6), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-Gen i4, 8.9 (Table 4 and 5). Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in FCC 15.209(a) and FCC 15.249(a), RSS-Gen i4, 8.9 (Table 4 and 5) and RSS-210

A2.9(a).

Kind of test site 3m Semi-Anechoic Chamber

**Test setup** 

Test Channel Low/ Middle/ High

Operation mode A, C Ambient temperature **24**°C Relative humidity 56% Atmospheric pressure 101 kPa

Remark: Testing was carried out within frequency range 30MHz to the tenth harmonic. For details refer to Appendix D. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The Z Axis orientation is the worst-case and recorded in this test report. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.



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#### 5.1.8 Mains Conducted Emission

**RESULT: Passed** 

Date of testing 2011-10-24

Test standard
Basic standard FCC part 15.207(a) ANSI C63.10: 2013 Limits Refer to 15.207(a)

Kind of test site Shield room

**Test setup** 

Operation mode : A, C Ambient temperature : 26°C Relative humidity : 55% Atmospheric pressure : 101 kPa

Remark: For details refer to **Appendix D**.



| Pι | n | dı 16 | cts |
|----|---|-------|-----|

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## 6. Safety Human exposure

## **6.1 Radio Frequency Exposure Compliance**

## **6.1.1 Electromagnetic Fields**

RESULT: Passed

Test standard : FCC KDB Publication 447498

Since maximum peak output power of the transmitter is 1.4mW<10mW, hence the EUT is exclueded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

.

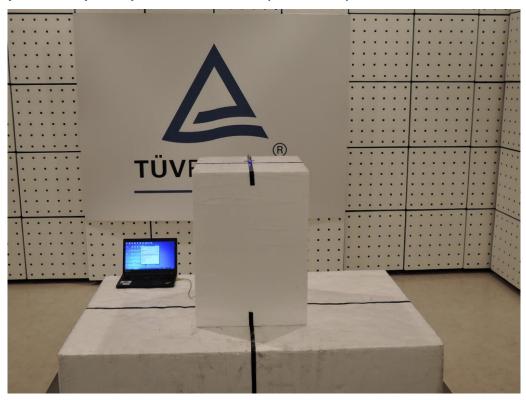


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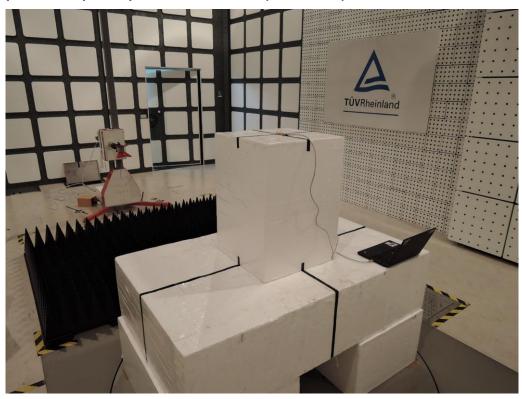
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## 7. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (Front View)



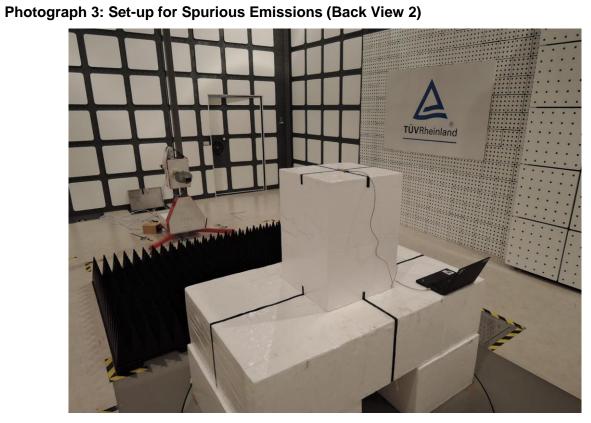
Photograph 2: Set-up for Spurious Emissions (Back View)





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Photograph 4: Set-up for Mains Conducted Emissions (Front View)





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Photograph 5: Set-up for Mains Conducted Emissions (Back View)





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