

Prüfbericht-Nr.: 50160881 001 Auftrags-Nr.: 114078837 Seite 1 von 37 Test Report No.: Order No.: Page 1 of 37

Kunden-Referenz-Nr.: N/A Auftragsdatum: 15-Jun-2018

Client Reference No.: Order date:

Auftraggeber: TrickleStar Limited.

Client: Room 901, Centre Point, 181-185 Gloucester Road, Wan Chai, Hong Kong

Prüfgegenstand: **Bluetooth Module**

Test item:

Bezeichnung / Typ-Nr.: TS6001BT

Identification / Type No.:

Auftrags-Inhalt: FCC Part 15C / IC RSS-247 Test report (BLE) Order content.

Prüfgrundlage:

Test specification: FCC 47CFR Part 15: Subpart C Section 15.247(DTS)

RSS-247 (02-2017)

Wareneingangsdatum: 15-Jun-2018

Date of receipt:

Prüfmuster-Nr.: A000759744-002 Test sample No.: A000759744-003

22-Jun-2018 - 22-Jun-2018 Prüfzeitraum:

Testing period:

Ort der Prüfung: EMC/RF Laboratory Taipei

Place of testing:

Prüflaboratorium: TUV Rheinland Taiwan Ltd.

Testing laboratory:

Prüfergebnis*: **Pass**

Test result*:

Report date / tested by: kontrolliert von / reviewed by:

09-Aug-2018 Jack Chang/Project Manager

09-Aug-2018 Arvin Ho/Vice General Manager Datum Name / Stellung Unterschrift Datum Name / Stellung Unterschrift Name / Position Date Name / Position Signature Date Signature

Sonstiges / Other.

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged

* Legende: 1 = sehr gut 2 = gut 4 = ausreichend 3 = befriedigend 5 = mangelhaft

F(ail) = entspricht nicht o.g. Prüfgrundlage(n) P(ass) = entspricht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet

Legend: 2 = good3 = satisfactory4 = sufficient5 = poor1 = very good

N/T = not testedP(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable

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 only 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 test mark.



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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 PEAK OUTPUT POWER

RESULT: Passed

5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT: Passed

5.1.4 POWER DENSITY

RESULT: Passed

5.1.5 CONDUCTED SPURIOUS EMISSIONS AND FREQUENCY BAND EDGE MEASURED IN 100kHz BANDWIDTH

RESULT: Passed

5.1.6 Spurious Emission

RESULT: Passed

5.1.7 Mains Conducted Emissions

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

The following attachments are integral parts of this test report:

Appendix P: Photo Documentation internal view (File Name: 50160881APPENDIXP)

Appendix D: Test Result of Radiated Emissions (File Name: 50160881APPENDIXD)

Test Specifications

The following standards were applied.

Table 1: Applied Standard and Test Levels

Radio

FCC 47CFR Part 15: Subpart C Section 15.247 FCC 47CFR Part 2: Subpart J Section 2.1091

RSS-247 Issue 2 (Feb 2017)

RSS-102 Issue 5

RSS-Gen, Issue 5, April 2018

ANSI C63.10:2013

KDB558074 D01 DTS Meas Guidance v03r05

KDB447498 D01 General RF Exposure Guidance v06



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2. Test Sites

2.1 Test Laboratory

TUV Rheinland Taiwan Ltd. Taichung Branch Office

No.9, Lane 36, Minsheng Rd., Sec. 3, Daya District, Taichung City 428
Taiwan (R.O.C.)

2.2 Test Facility

TUV Rheinland Taiwan Ltd. Taipei Office

11F. No.758, Sec. 4, Bade Rd., Songshan Dist. Taipei City 105
Taiwan (R.O.C.)

FCC RegistrationNo.: 340738

IC Canada Registration No.: 9465A-1 TAF Accredited NCC Test Lab. No.:0759

TAF ISO17025 Certification effective period: 2016-Jul-1st to 2019-Jun-30th



Testing Laboratory 0759



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2.3 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Kind of Equipment	Manu-facturer	Туре	S/N	Last Calibration	Next Calibration
Test Software	Farad	EZ_EMC	Ver. TUV3A1	N/A	N/A
EMI Test Receiver	R&S	ESR 7	101549	2017/11/10	2018/11/10
Spectrum Analyzer	R&S	FSV 40	100921	2018/05/02	2019/05/02
Spectrum Analyzer	Agilent	N9010A	MY52221334	2018/02/05	2019/02/05
Preamplifier (30MHz -1GHz)	HP	8447F	2805A03335	2017/08/14	2018/08/14
Preamplifier (18 GHz -40 GHz)	COM-POWER	PAM-840	461257	2018/01/18	2019/01/18
Pre-Amplifier (1GHz~18GHz)	EM Electronics	EM01G18G	060649	2017/07/28	2018/07/28
Bilog Antenna	TESEQ	CBL6111D	29802	2017/08/10	2018/08/10
Horn Antenna	ETS-Lindgren	3117	00138160	2018/06/01	2019/06/01
Horn Antenna (18GHz~40GHz)	COM-POWER	AH-840	101029	2017/11/28	2018/11/28
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	2018/06/21	2019/06/21
Temp. & Humid. Chamber	Giant Force	GCT-099- 40-S	MAF0103-007	2017/03/09	2019/03/09
LISN (1 phase)	R&S	ENV216	101243	2018/06/18	2019/06/18
LISN	R&S	ENV216	101262	2018/06/22	2019/06/22
Test Software	Audix	e3	Ver. 9	N/A	N/A
Test Software	Agilent	300328 testsystem	V1.9.1	N/A	N/A
Power sensor	Agilent	U2021XA	MY54020001	2018/03/31	2019/03/31

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2.4 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.

2.5 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular schedule using in house standards or comparisons.

2.6 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements .

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10 ⁻⁷
RF power, conducted	± 1.5 dB
RF power density, conducted	± 3 dB
spurious emissions, conducted	± 3 dB
all emissions, radiated	± 6 dB
Temperature	± 1 °C
Humidity	± 5 %
DC and low frequency voltages	±3 %

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3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth Module. The Module has RF Shield and u.FL connector for External Antenna(s).

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Table 4: Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Bluetooth Module
Type Designation	TS6001BT
FCC ID	2AG8Q-TS6001BT
IC ID	7723A-TS6001BT
HVIN	TS6001BT

Table 5: Technical Specification of EUT

Technical Specification	Value
Operating Frequencies	2402~2480MHz
Channel number	40
Operation Voltage	3.3Vdc
Modulation	GFSK
Antenna gain	1.65dBi



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3.3 Independent Operation Modes

Basic operation modes are:

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

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Circuit Diagram
- Blocking Diagram
- Rating Label
- Technical Description

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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

Setup for testing: Test samples are provided with a UART interface which makes it possible to control them through the test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed in section 3.3 as appropriate.

The samples were used as follows:

Conducted: A000759744-002 Radiation: A000759744-003

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

BLE mode:

Channel Low (2402MHz), Channel Mid (2440MHz) and Channel High (2480MHz) were chosen for full testing.

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
Test tool	Nordic	nRFgo Studio	N/A

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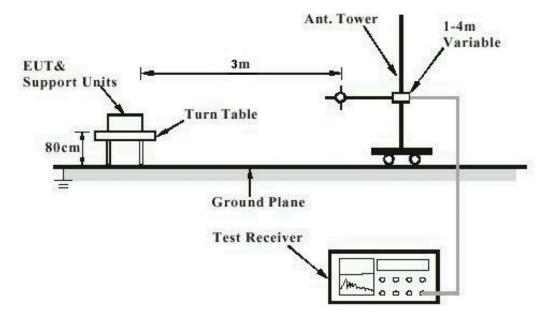
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4.4 Countermeasures to achieve EMC Compliance

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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Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)

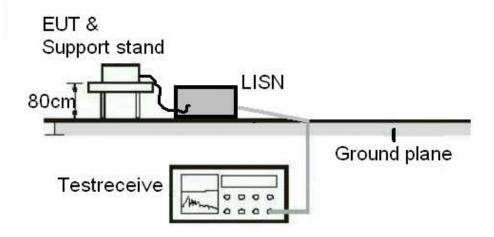
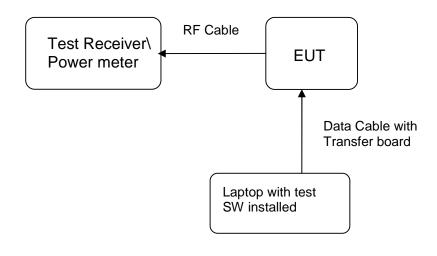


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement





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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Passed

Test standard : LP0002(2016): 2.2, 3.10.1, (3)

FCC Part 15.247(b)(4), Part 15.203 and RSS-

Gen 8.3

Requirement : use of approved antennas only with directional gains that

do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with Max directional gain of 1.65dBi. The antenna a printed PCB trace with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.



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5.1.2 Peak Output Power

RESULT: Passed

Test standard LP0002(2016): 3.10.1, (2)

FCC Part 15.247(b)(3), RSS-247 5.4(4)

Basic standard ANSI C63.10:2013, KDB558074

Limit 1 Watt

Kind of test site Shielded room

Test setup

Test Channel Low/ Middle/ High

Operation Mode

Ambient temperature : Relative humidity : Atmospheric pressure : 20-24 °C 50-65 % 100-103 kPa

Table 6: Test result of Peak Output Power

Channel	Channel Frequency	Output Power		Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	2402	-1.82	0.00066	1
Middle Channel	2440	-1.86	0.00065	1
High Channel	2480	-1.29	0.00074	1

Pmax: -1.29dBm, 0.743mW



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5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT: Passed

LP0002(2016): 3.10.1, (5) Test standard

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

RSS-Gen (Issue 5)

ANSI C63.10:2013, KDB558074 Basic standard

Kind of test site Shielded room

Test setup

Test Channel Low/ Middle/ High

Operation Mode

Ambient temperature : Relative humidity : 20-24°C Relative humidity 50-65% Atmospheric pressure : 100-103 kPa

Table 7: Test result of 6dB Bandwidth

Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	704.4	>500	Pass
Mid Channel	2440	702.0	>500	Pass
High Channel	2480	701.3	>500	Pass

Table 8: Test result of 99% Bandwidth,

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.0471
Mid Channel	2440	1.0478
High Channel	2480	1.0484

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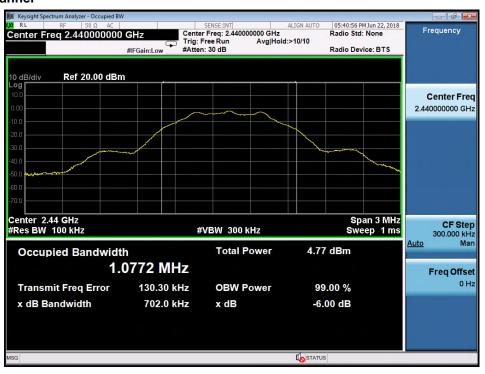
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Test Plot of 6dB Bandwidth

Low Channel



Middle Channel





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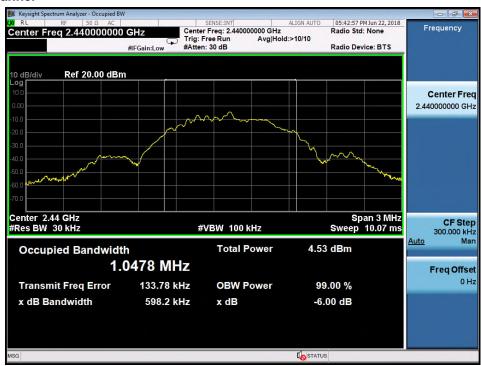
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Test Plot of 99% Bandwidth

Low Channel



Middle Channel





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5.1.4 Power Density

RESULT: Passed

Test standard LP0002(2016): 3.10.1, (6.2.2)

FCC Part 15.247(e), RSS-247 5.2(2)

Basic standard ANSI C63.10:2013, KDB558074

Kind of test site Shielded room

Test setup

Test Channel Low/ Middle/ High

Operation Mode

Ambient temperature 20-24°C Relative humidity 50-65% Atmospheric pressure 100-103 kPa

Table 9: Test result of Power Density

Channel	Channel Frequency	Power Density	Limit
	(MHz)	(dBm)	(dBm)
Low Channel	2402	-17.32	8
Middle Channel	2440	-17.11	8
High Channel	2480	-16.81	8





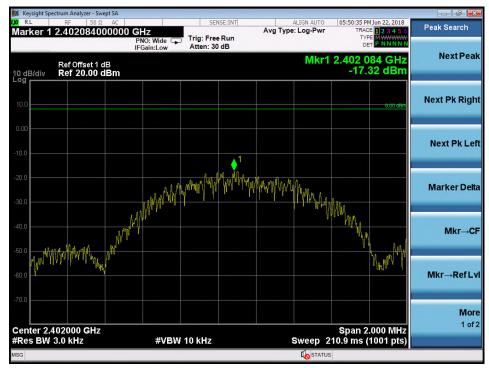
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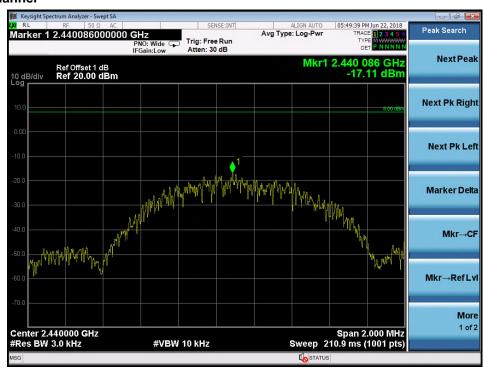
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Test Plot of Power Density

Low Channel



Middle Channel





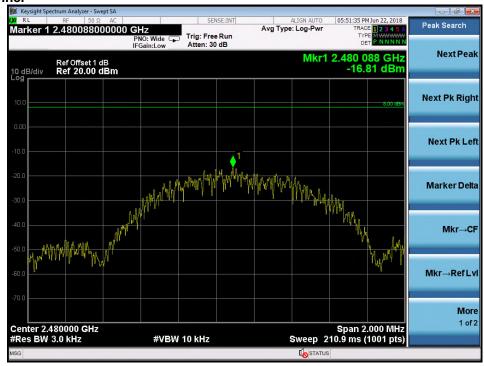
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High Channel





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

RESULT: Passed

Test standard LP0002(2016): 3.10.1, (5)

FCC part 15.247(d), RSS-247 5.5

Basic standard ANSI C63.10:2013, KDB558074

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/ Mid/ High for spurious, Low/ High for

Band Edge

Operation mode

Ambient temperature 20-24°C Relative humidity 50-65% Atmospheric pressure 100-103 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved 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 100kHz Conducted Emissions

Low Channel



Middle Channel





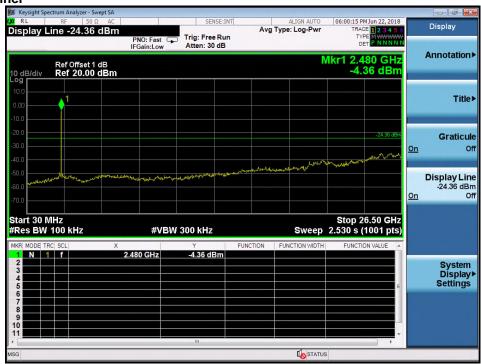
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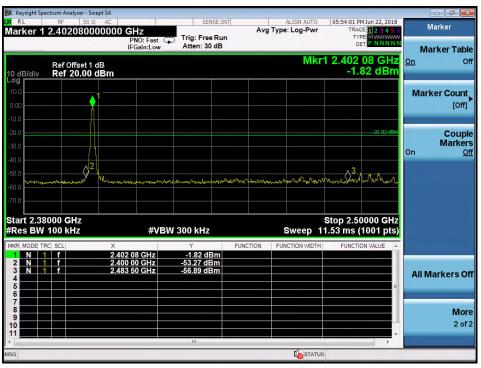
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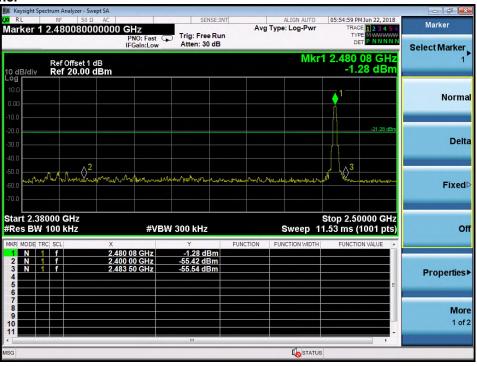
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Test Plot 100kHz RBW of Band Edge

Low Channel



High Channel





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5.1.6 Spurious Emission

RESULT: Passed

Test standard FCC part 15.247(d), FCC 15.205, FCC 15.209,

RSS-247 5.5 and RSS-Gen 8.9

LP0002(2016): 3.10.1, (5)

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 i5, 8.10 (Table 7), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-Gen i5, 8.9 (Table 5 and 6). Radiated emissions which fall in the restricted bands, as defined in LP0002(2016): 2.7, must comply with the radiated emission limits specified in LP0002(2016): 2.8 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 i5, 8.9

(Table 5 and 6).

Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in

LP0002(2016): 2.8

3m Semi-Anechoic Chamber Kind of test site

Test setup

Low/ Middle/ High **Test Channel**

Operation mode A, B

For details refer to Appendix D.

The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.



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Mains Emissions

5.1.7 Mains Conducted Emissions

RESULT: Passed

Test standard : FCC Part 15.207

FCC Part 15.107 RSS-Gen 8.8 LP0002: 2.3

Limits : Mains Conducted emissions as defined in

above test standards must comply with the mains conducted emission limits specified

Kind of test site : Shielded Room

Test setup

Test Channel : Middle Operation mode : A

Remark: For details refer to Appendix D.



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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 D01 v06

47CFR 1.1310 47CFR 2.1091 RSS-102 issue 5

FCC:

Therefore the maximum output power of the transmitter is 0.743mW < 10mW (Distance: 5 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

Canada:

Maximum conducted peak power: 0.743 mW
Antenna Gain: 1.65 dbi
Maximum EIRP available 1.1 mW

Since maximum output power of the transmitter is $1.1 \, \text{mW} < 10 \, \text{mW}$ (distance $\leq 5 \, \text{mm}$), hence the EUT is excluded from SAR evaluation according to Table 1 in RSS-102, For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 of RSS-102 are multiplied by a factor of 2.5.

---End---

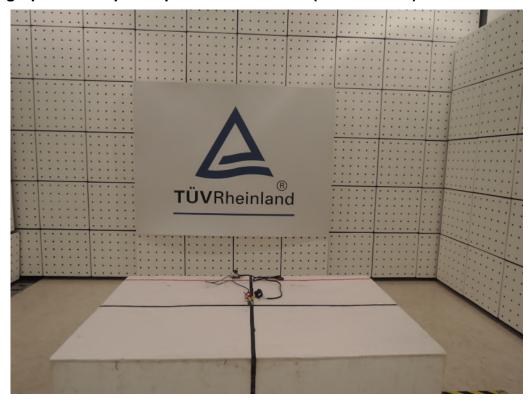
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7. Photographs of the Test Set-Up

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



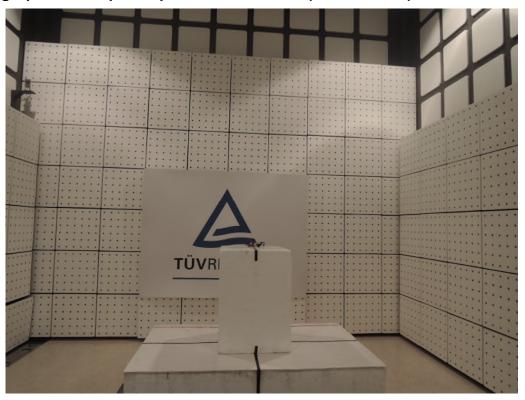


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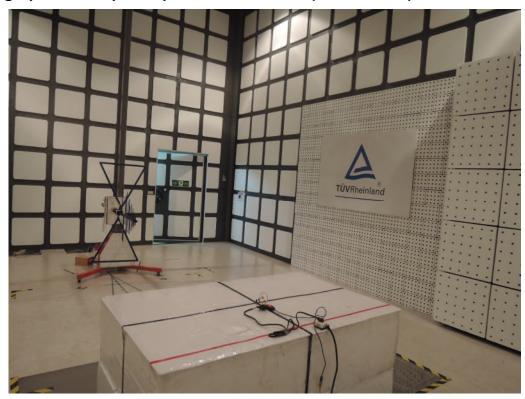
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Photograph 2: Set-up for Spurious Emissions (Front View 2)



Photograph 3: Set-up for Spurious Emissions (Back View 1)

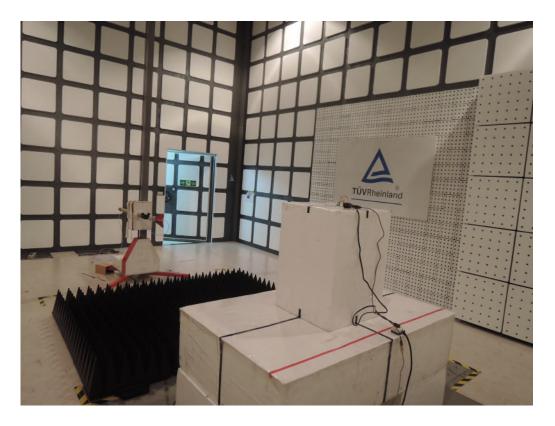




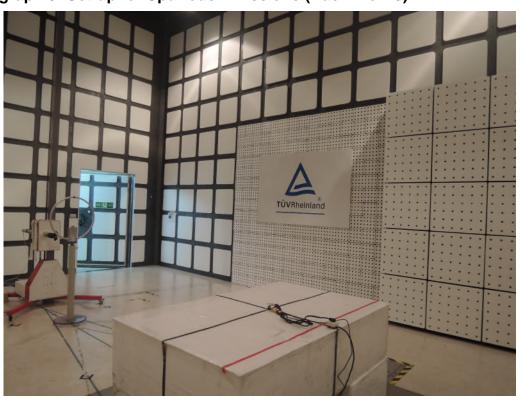
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Photograph 4: Set-up for Spurious Emissions (Back View 2)



Photograph 5: Set-up for Spurious Emissions (Back View 3)

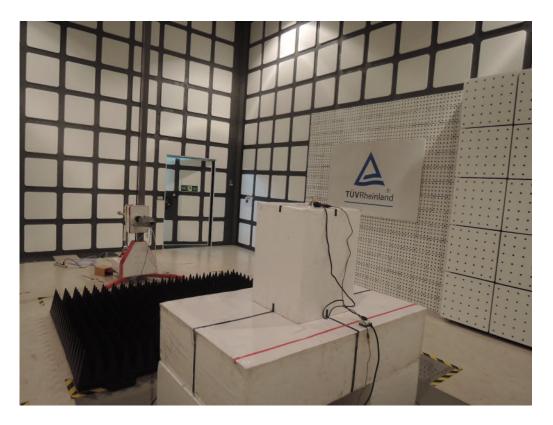




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Photograph 6: Set-up for Spurious Emissions (Back View 4)



Photograph 7: Set-up for Conducted testing



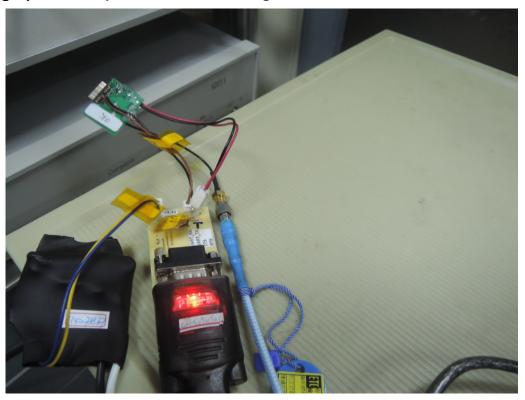




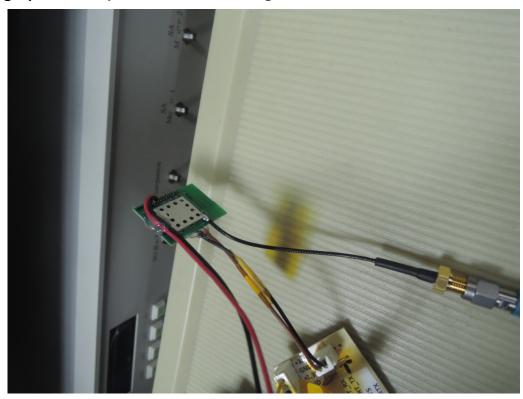
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Photograph 8: Set-up for Conducted testing



Photograph 9: Set-up for Conducted testing





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Photograph 10: Set-up for Mains Conducted testing Front



Photograph 11: Set-up for Mains Conducted testing Back





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