

Prüfbericht-Nr.: 50145995 001 Auftrags-Nr.: 114075991 Seite 1 von 33 Test Report No.: Order No.: Page 1 of 33 Kunden-Referenz-Nr.: N/A Auftragsdatum: 30-Mar-2018 Client Reference No.: Order date: Auftraggeber: CUB ELECPARTS INC., - No.6, Lane 546, Sec.6, Changlu Road, Fuhsin Township, Client: Changhua County 506, Taiwan Prüfgegenstand: **BLE TPMS SENSOR** Test item: Bezeichnung / Typ-Nr.: Please refer page 9 for applied model list. 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: 30-Mar-2018 Date of receipt: Prüfmuster-Nr.: A000717260-010 Test sample No.: A000717260-011 Prüfzeitraum: 02-May-2018 - 02-May-2018 Testing period: Ort der Prüfung: EMC/RF Laboratory Taipei Place of testing: Prüflaboratorium: TUV Rheinland Taiwan Ltd. Testing laboratory: Pass Prüfergebnis*: Test result*: Report date / tested by: kontrolliert von / reviewed by: 16-May-2018 Jack Chang/Project Manager 16-May-2018 Arvin Ho/Vice General Manager Name / Stellung Datum Unterschrift Datum Name / Stellung Unterschrift Date Name / Position Signature Date Name / Position 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 4 = ausreichend 5 = mangelhaft 2 = aut3 = befriediaend P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet 3 = satisfactory 4 = sufficient Leaend: 1 = verv good 2 = aood5 = poorP(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested

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

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed



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1. General Remarks

Complementary Materials 1.1

The following attachments are integral parts of this test report:

Appendix P: Photo Documentation internal view

(File Name: 50145995APPENDIXP)

Appendix D: Test Result of Radiated Emissions

(File Name: 50145995APPENDIXD)

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



Products

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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	ESCI 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	MY53470241	2017/05/23	2018/05/22
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	60649	2017/07/28	2018/07/28
Bilog Antenna	TESEQ	CBL6111D	29804	2017/08/18	2018/08/18
Horn Antenna	ETS-Lindgren	3117	201918	2017/08/18	2018/08/18
Horn Antenna (18GHz~40GHz)	COM-POWER	AH-840	101031	2017/11/28	2018/11/28
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	2017/06/14	2018/06/14
LISN (1 phase)	R&S	ENV216	101243	2017/06/18	2018/06/18
LISN	R&S	ENV216	101262	2017/06/22	2018/06/21

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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 ºC
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 BLE TPMS SENSOR, which is Tire Pressure Monitoring Systems. It contains a Bluetooth Low Energy compatible module enabling the user to communicate data through a Wireless interface and transmitter only.

Due to all model electrical constructions are identical, except for model numbers, one representative model with number "BLE SENSOR 4" was tested only.

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	BLE TPMS SENSOR
FCC ID	ZPNBLESENSOR4
IC ID	9959A-BLESENSOR4
HVIN	BLE SENSOR 4

Applied model list:

VS-80W010	VS-80W010X	VS-80W010XX	VS-80W010XXX
VS-80W010-X	VS-80W010X-X	VS-80W010XX-X	VS-80W010XXX-X
VS-80W010-XX	VS-80W010X-XX	VS-80W010XX-XX	VS-80W010XXX-XX
VS-80W010-XXXX	VS-80W010X-XXXX	VS-80W010XX-XXXX	VS-80W010XXX-XXXX
VS-8XRXXX	VS-8XRXXXX	VS-8XRXXXXX	VS-8XRXXXXXX
VS-8XRXXX-X	VS-8XRXXXX-X	VS-8XRXXXXX-X	VS-8XRXXXXXXXX
VS-8XRXXX-XX	VS-8XRXXXX-XX	VS-8XRXXXXXX-XX	VS-8XRXXXXXXXXXX
VS-8XRXXX-XXXX	VS-8XRXXXX-XXXX	VS-8XRXXXXXX-XXXX	VS-8XRXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
VS-8XGXXX	VS-8XGXXXX	VS-8XGXXXXX	VS-8XGXXXXXX
VS-8XGXXX-X	VS-8XGXXXX-X	VS-8XGXXXXX-X	VS-8XGXXXXXXX-X
VS-8XGXXX-XX	VS-8XGXXXX-XX	VS-8XGXXXXXX-XX	VS-8XGXXXXXXX-XX
VS-8XGXXX-XXXX	VS-8XGXXXX-XXXX	VS-8XGXXXXXX-XXXX	VS-8XGXXXXXXX-XXXX
BLE SENSOR 4			
~ · · · · · · · · · · · · · · · · · · ·			

(X= "a"-"z", "A"-"Z", or numeric character "0"-"9", or -, (,) , or blank or combination of alpha and numeric characters, indication difference of market purpose.)



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Table 5: Technical Specification of EUT

Technical Specification	Value
Operating Frequencies	2402, 2426, 2480MHz
Channel number	3
Operation Voltage	3Vdc
Modulation	GFSK
Antenna gain	2.5dBi



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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. Standby
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Circuit Diagram
- Instruction Manual
- 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 firmware for each channel.

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: A000717260-010 Radiation: A000717260-011

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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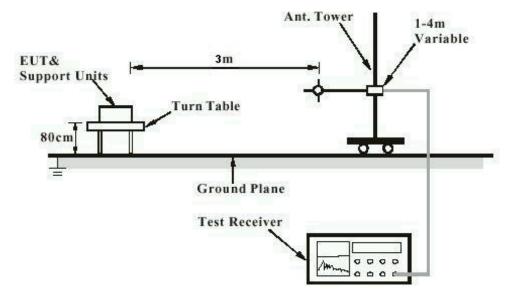
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4.4 Countermeasures to achieve EMC Compliance

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

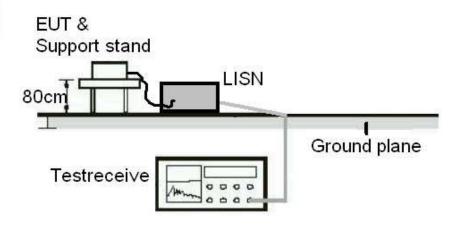
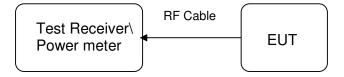


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement





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5. Test Results

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

use of approved antennas only with directional gains that Requirement

do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 2.5 dBi. The antenna is a Monopole Antenna 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

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

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 Lir		Limit
oname.	(MHz)	(dBm)	(W)	(W)
Low Channel	2402	3.71	0.00235	1
Middle Channel	2426	3.52	0.00225	1
High Channel	2480	3.38	0.00218	1

Pmax: 2.3496 mW



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5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT: Passed

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

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

Low/ Middle/ High

Test Channel : 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	694.5	>500	Pass
Mid Channel	2426	693.4	>500	Pass
High Channel	2480	706.5	>500	Pass

Table 8: Test result of 99% Bandwidth,

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	1.0793
Mid Channel	2426	1.0824
High Channel	2480	1.0779



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Test Plot of 6dB Bandwidth

Low Channel



Middle Channel





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High 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)

ANSI C63.10:2013, KDB558074 Basic standard

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 (dBm)	
	(MHz)	(dBm)	(dBm)	
Low Channel	2402	-7.44	8	
Middle Channel	2426	-7.73	8	
High Channel	2480	-9.42	8	



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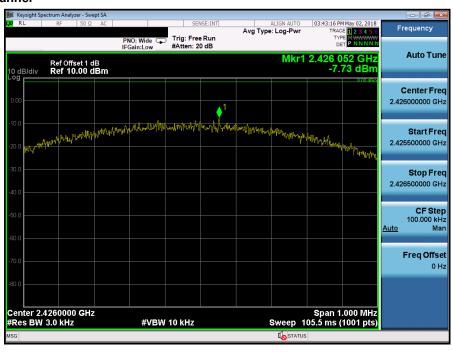
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Test Plot of Power Density

Low Channel



Middle Channel



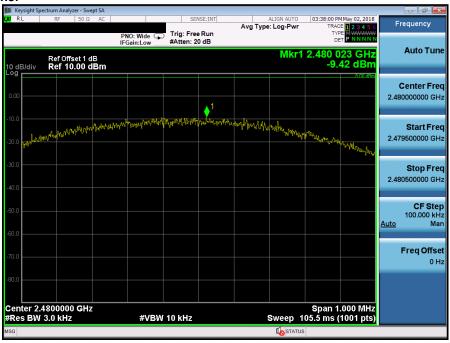


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High Channel

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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 : A

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.



Products

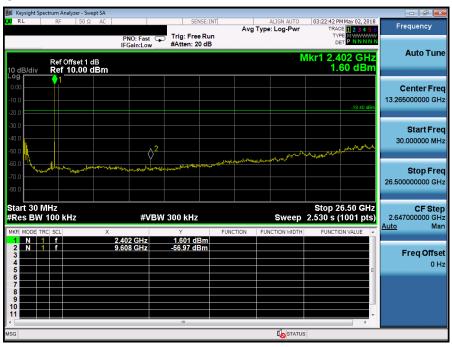
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Test Plot 100kHz Conducted Emissions

Low Channel



Middle Channel

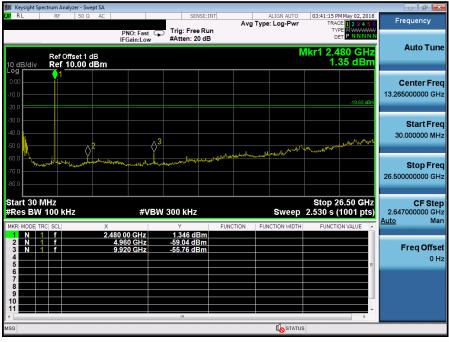




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High Channel





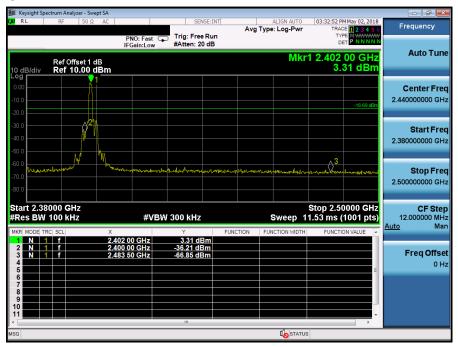
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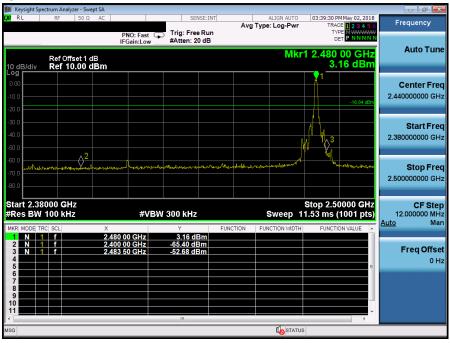
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Test Plot 100kHz RBW of Band Edge

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-210

2.2, 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

Test Channel Low/ Middle/ High

Operation mode

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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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, Table 4

Separation distance is more than 20 cm, thus mobile device exposure limits can be applied

Maximum Exposure:

Power to Antenna (mW)	2.3496 mW
Power to Antenna (dBm)	3.7 dBm
Antenna Gain	2.5 dBi
Power+Ant Gain	4.2 mW
Distance	20 cm
S=	0.001 mW/cm^2

Limit FCC:

0.3-1.34 MHz (100) mW/cm² 0.3-1.34 MHz (100) mW/cm² 1.34-30 MHz (180/f2) mW/cm² 30-300 MHz 0.2 mW/cm² 300-1500 MHz f/1500 mW/cm² (180/f2) mW/cm² 1500-100,000 MHz 1.0 mW/cm²

Limit Canada: 0.542 mW/cm²

---End---



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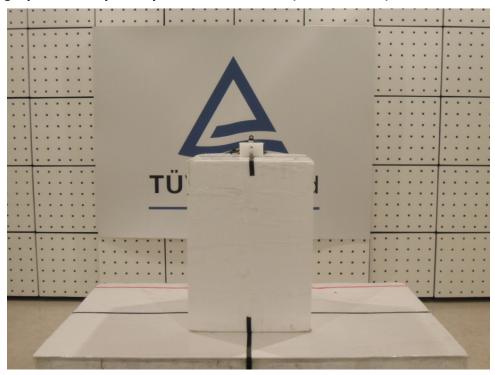
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7. Photographs of the Test Set-Up

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



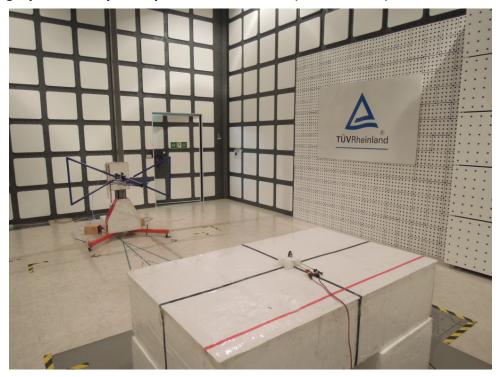
Photograph 2: Set-up for Spurious Emissions (Front View 2)



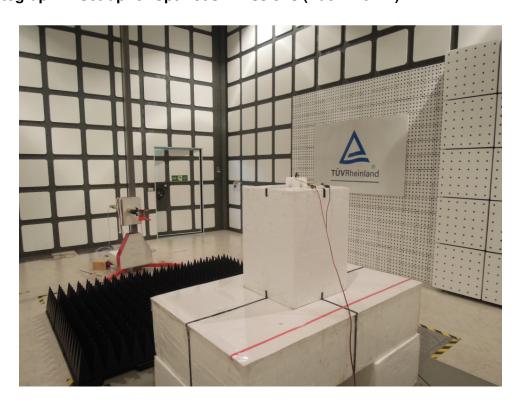
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Photograph 3: Set-up for Spurious Emissions (Back View 1)



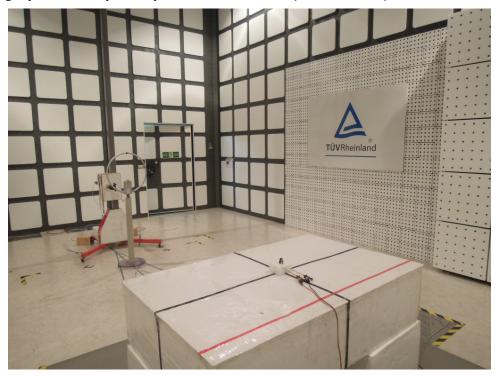
Photograph 4: Set-up for Spurious Emissions (Back View 2)



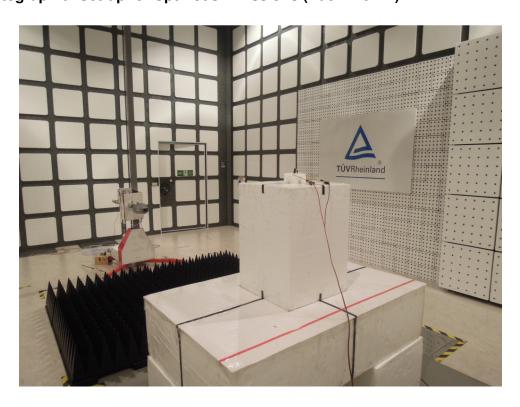
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Photograph 5: Set-up for Spurious Emissions (Back View 3)



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





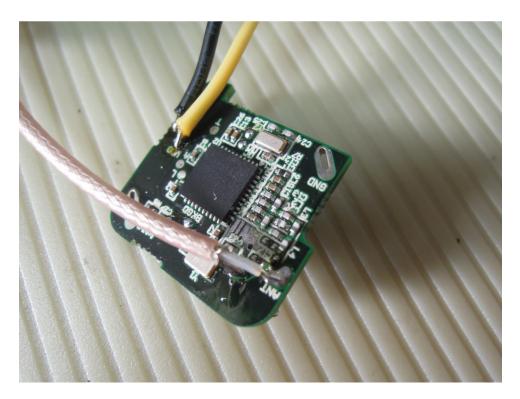
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Photograph 7: Set-up for Conducted testing



Photograph 8: Set-up for Conducted testing





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