


| | | | | |
|--|---|---|-----------------------------|--|
| Prüfbericht-Nr.: <i>Test Report No.:</i> | 50087670 001 | Auftrags-Nr.: <i>Order No.:</i> | 114061942 | Seite 1 von 42 <i>Page 1 of 42</i> |
| Kunden-Referenz-Nr.: <i>Client Reference No.:</i> | N/A | Auftragsdatum: <i>Order date:</i> | 16-Feb-2017 | |
| Auftraggeber: <i>Client:</i> | N.V. Nederlandsche Apparatenfabriek "Nedap", Parallelweg 2, 7141 DC Groenlo, The Netherlands | | | |
| Prüfgegenstand: <i>Test item:</i> | Data collector for the SENSIT parking system | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i> | SENSIT GATEWAY US | | | |
| Auftrags-Inhalt: <i>Order content:</i> | FCC/IC Test report | | | |
| Prüfgrundlage: <i>Test specification:</i> | FCC 47CFR Part 15: Subpart C Section 15.247 RSS-247 (02-2017) | | | |
| Wareneingangsdatum: <i>Date of receipt:</i> | 7-Jun-2017 | | | |
| Prüfmuster-Nr.: <i>Test sample No.:</i> | A000511382-005 | | | |
| Prüfzeitraum: <i>Testing period:</i> | 13-Jun-2017 – 22-Jun-2017 | | | |
| Ort der Prüfung: <i>Place of testing:</i> | EMC Laboratory Taipei | | | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TUV Rheinland Taiwan Ltd. | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | |
| geprüft von / tested by: | | kontrolliert von / reviewed by: | | |
| 5-Jul-2017 | Sam C.J. Kuo/Engineer |  | 5-Jul-2017 | Ryan W.T. Chen/Project Manager |
| Datum <i>Date</i> | Name / Stellung <i>Name / Position</i> | Unterschrift <i>Signature</i> | Datum <i>Date</i> | Name / Stellung <i>Name / Position</i> |
| Sonstiges / Other: | | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i> | | Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i> | | |
| * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet | | | | |
| Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(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. <i>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.</i> | | | | |

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: *Passed*

5.1.2 PEAK OUTPUT POWER

RESULT: *Passed*

5.1.3 20dB 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 SPURIOUS EMISSION

RESULT: *Passed*

5.1.7 FREQUENCY SEPARATION

RESULT: *Passed*

5.1.8 NUMBER OF HOPPING CHANNELS

RESULT: *Passed*

5.1.9 TIME OF OCCUPANCY

RESULT: *Passed*

5.2.1 MAINS CONDUCTED EMISSIONS

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 Documentation

(File Name: 50087670 001APPENDIX P)

Appendix D: Test Result of Radiated Emissions

(File Name: 50087670 001APPENDIX D)

Test Specifications

The following standards were applied

Table 1: Applied Standard and Test Levels

| Radio |
|---|
| FCC CFR47 Part 15: Subpart C Section 15.247 |
| RSS-247 Issue 2 Feb 2017 |
| RSS-Gen, Issue 4, November 2014 |
| ANSI C63.10:2013 |

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.: 799772
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

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

| Kind of Equipment | Manu-facturer | Type | S/N | Last Calibration | Next Calibration |
|-------------------------------|----------------|--------------|-------------|------------------|------------------|
| Test Software | Farad | EZ_EMG | Ver. TUV3A1 | N/A | N/A |
| EMI Test Receiver | R&S | ESR7 | 101062 | 2016/09/12 | 2017/09/12 |
| Spectrum Analyzer | R&S | FSV 40 | 100921 | 2017/05/02 | 2018/05/01 |
| Spectrum Analyzer | Agilent | N9010A | MY53470241 | 2017/05/23 | 2018/05/22 |
| Preamplifier (30MHz -1GHz) | HP | 8447F | 2805A03335 | 2016/07/29 | 2017/07/29 |
| Preamplifier (18 GHz -40 GHz) | COM-POWER | PAM-840 | 461257 | 2016/12/01 | 2017/12/01 |
| Pre-Amplifier (1GHz~18GHz) | EM Electronics | EM01G18G | 060558 | 2016/11/17 | 2017/11/17 |
| Bilog Antenna | TESEQ | CBL6111D | 29802 | 2016/08/10 | 2017/08/10 |
| Horn Antenna | ETS-Lindgren | 3117 | 138160 | 2017/05/25 | 2018/05/25 |
| Horn Antenna (18GHz~40GHz) | COM-POWER | AH-840 | 101031 | 2016/11/22 | 2017/11/22 |
| Loop Antenna | Schwarzbeck | FMZB 1513 | 1513-076 | 2017/06/14 | 2018/06/14 |
| EMI Test Receiver | R&S | ESC17 | 100797 | 2016/12/30 | 2017/12/30 |
| Spectrum Analyzer | R&S | FSL3 | 101943 | 2015/09/07 | 2017/09/07 |
| Temp. & Humid. Chamber | Giant Force | GCT-099-40-S | MAF0103-007 | 2015/07/13 | 2017/07/12 |
| LISN (1 phase) | R&S | ENV216 | 101243 | 2017/06/18 | 2018/06/18 |
| LISN | R&S | ENV216 | 101262 | 2017/06/22 | 2018/06/22 |

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.

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Table 3: Emission Measurement Uncertainty

| Parameter | Uncertainty |
|-------------------------------|------------------------|
| Radio Frequency | $\pm 1 \times 10^{-7}$ |
| 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 % |

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a data collector. It contains a 3G module enabling the user to communicate data through a Wireless interface.

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 | Data collector for the SENSIT parking system |
| Type Identification | SENSIT GATEWAY US |
| FCC ID | CGDSENSITGW |
| Canada ID | 1444A-SENSITGW |
| Canada HVIN | SENSIT GATEWAY US |

Table 5: Technical Specification of EUT

| Technical Specification | Value |
|-------------------------|--------------------|
| Operating Frequency | 902.4 to 927.6 MHz |
| Channel Spacing | 400 kHz |
| Channel number | 63 |
| Operation Voltage | 115 Vac |
| Modulation | GFSK, Hopping |
| Antenna gain | 0dBi |

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Receiving

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

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:

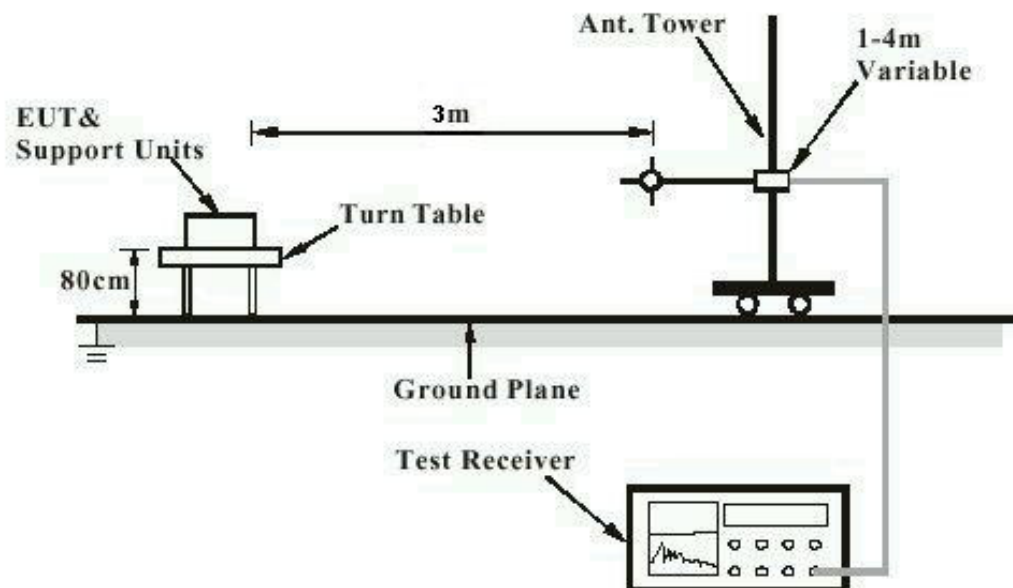
| Kind of Equipment | Manufacturer | Model Name | S/N |
|-------------------|--------------|--------------|------------|
| Laptop | HP | HSTNN-Q78C-3 | CNF0339QBM |

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested containing the noise suppression parts as in the Photo Appendix and the Test Setup Photos. 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

Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

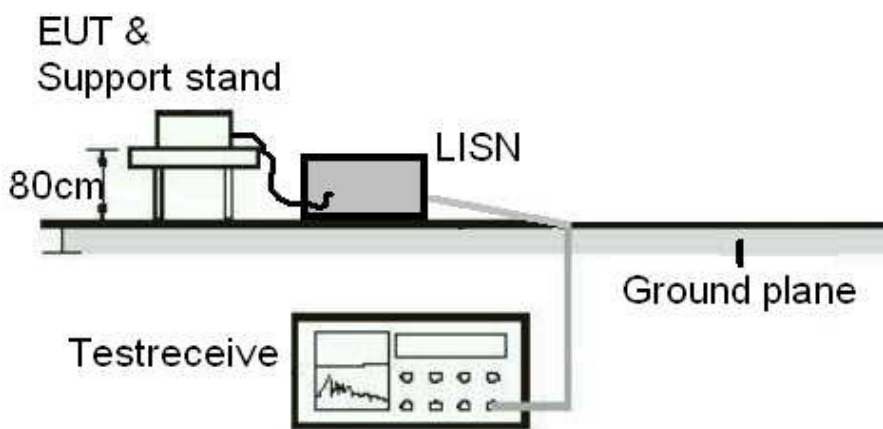
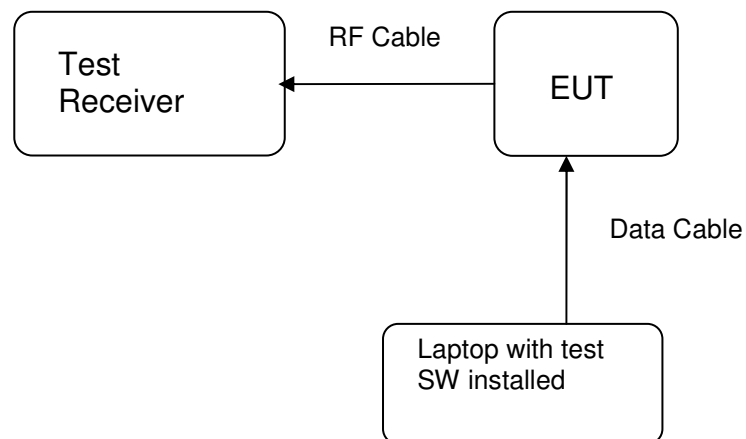


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Passed**

| | | |
|---------------|---|--|
| Test standard | : | LP0002(2011): 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 a directional gain of 0dBi.

The antenna connector is internal and not accessible to the end user. Installation is done professionally. Thus, there is no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision. The Antenna gain is declared to be 0 dBi

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test standard : FCC Part 15.247(b)(1),
 RSS-247 5.4(2)
 LP0002(2011): 3.10.1, (2)
 Basic standard : ANSI C63.10:2013
 LP0002(2011) Appendix II
 Kind of test site : Shielded room

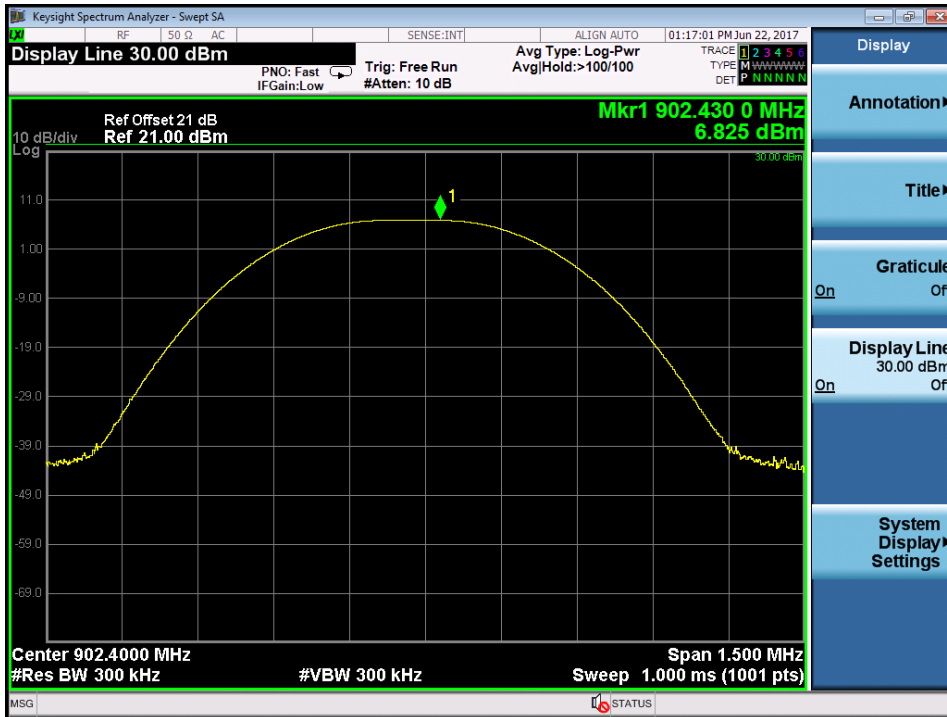
Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 22-26 °C
 Relative humidity : 50-65 %
 Atmospheric pressure : 100-103 kPa

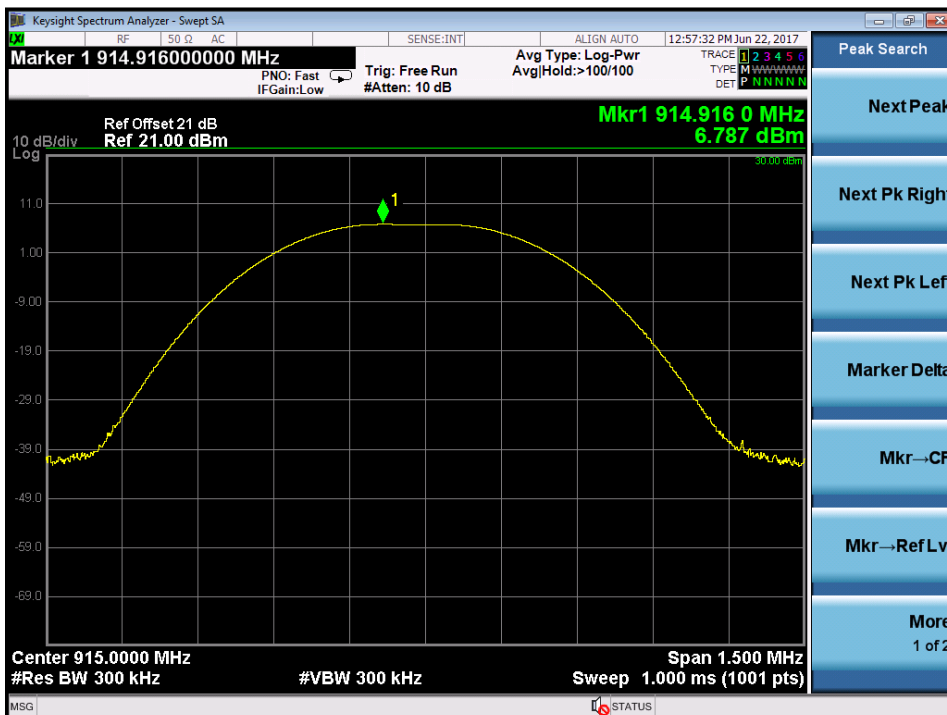
Table 6: Test result of Peak Output

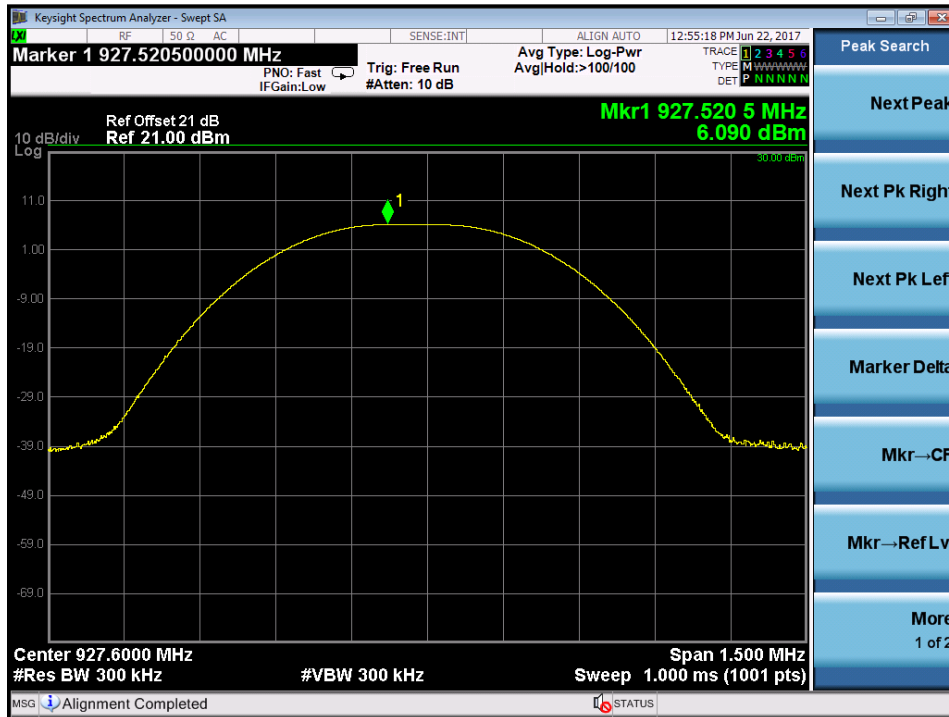
| Channel | Channel Frequency | Peak Output Power | | Limit |
|----------------|-------------------|-------------------|--------|-------|
| | (MHz) | (dBm) | (W) | (W) |
| Low Channel | 902.4 MHz | 6.825 | 0.0048 | 1 |
| Middle Channel | 915 MHz | 6.787 | 0.0047 | 1 |
| High Channel | 927.6 MHz | 6.090 | 0.0040 | 1 |

Test Plot of Peak Output Power, Low Channel



Middle Channel



High Channel


5.1.3 20dB Bandwidth

RESULT:
Passed

Test standard : FCC Part 15.247(a)(1),
 RSS-247 5.1(1)
 LP0002(2011): 3.10.1, (6.1.1)
 Basic standard : ANSI C63.10:2013
 LP0002(2011) Appendix II
 Kind of test site : Shielded room

Test setup

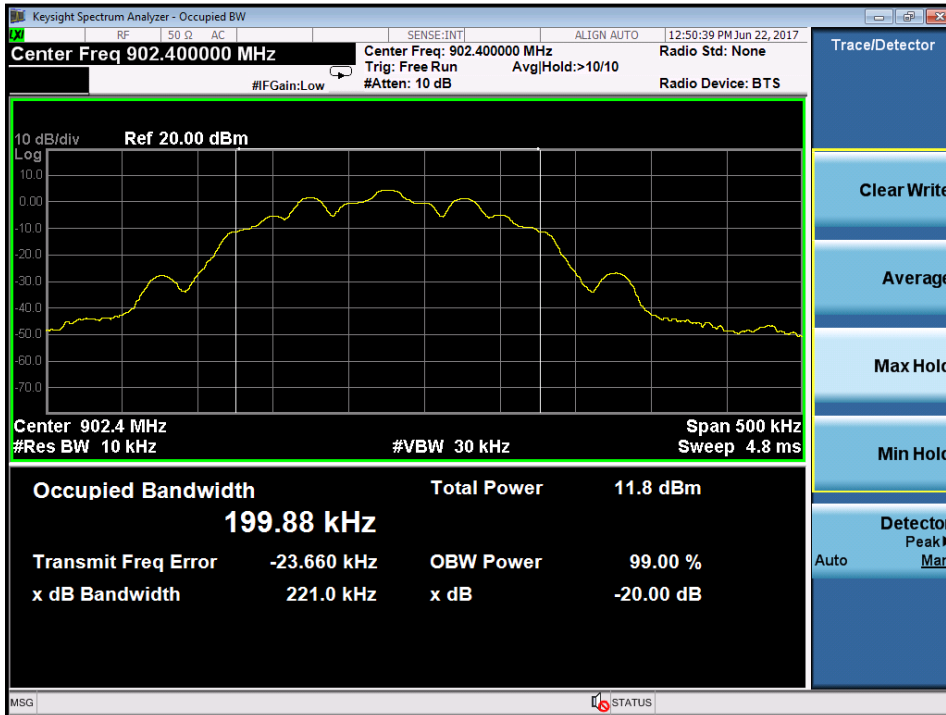
Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 22-26°C
 Relative humidity : 50-65%
 Atmospheric pressure : 100-103kPa

Table 7: Test result of 20dB Bandwidth,

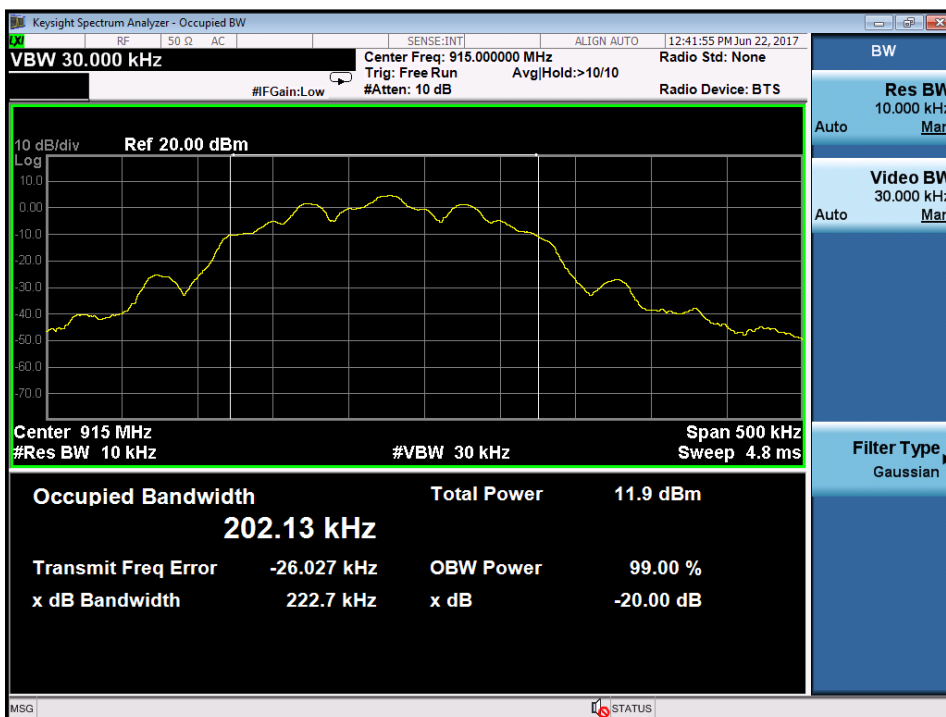
| Channel | Channel Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (kHz) | Result |
|--------------|-------------------------|----------------------|-------------|--------|
| Low Channel | 902.4 MHz | 221 | < 500 | Pass |
| Mid Channel | 915 MHz | 222.7 | < 500 | Pass |
| High Channel | 927.6 MHz | 218.7 | < 500 | Pass |

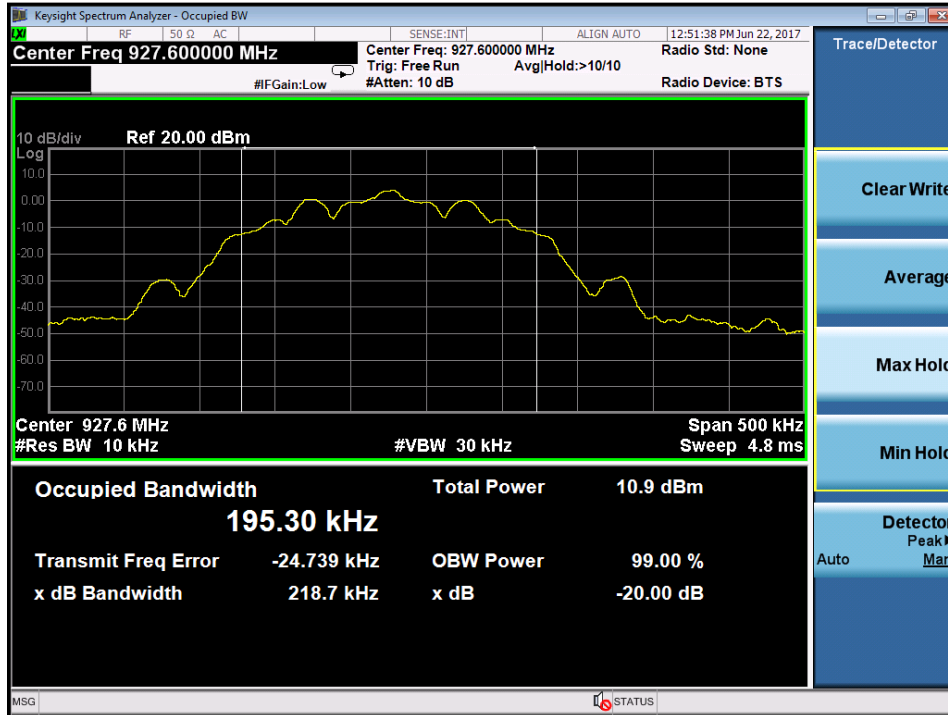
Test Plot of 20dB Bandwidth

Low Channel



Middle Channel



High Channel


5.1.4 99% Bandwidth

RESULT:**Passed**

Test standard : RSS-Gen, Issue 4, November 2014
Basic standard : ANSI C63.10:2013
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A

Ambient temperature : 22-26°C
Relative humidity : 50-65%
Atmospheric pressure : 100-103 kPa

Table 8: Test result of 99% Bandwidth

| Channel | Channel Frequency (MHz) | 99% Bandwidth (kHz) |
|-------------|-------------------------|---------------------|
| Mid Channel | 915 | 202.13 |

Test Plot of 99% Bandwidth

Middle Channel



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

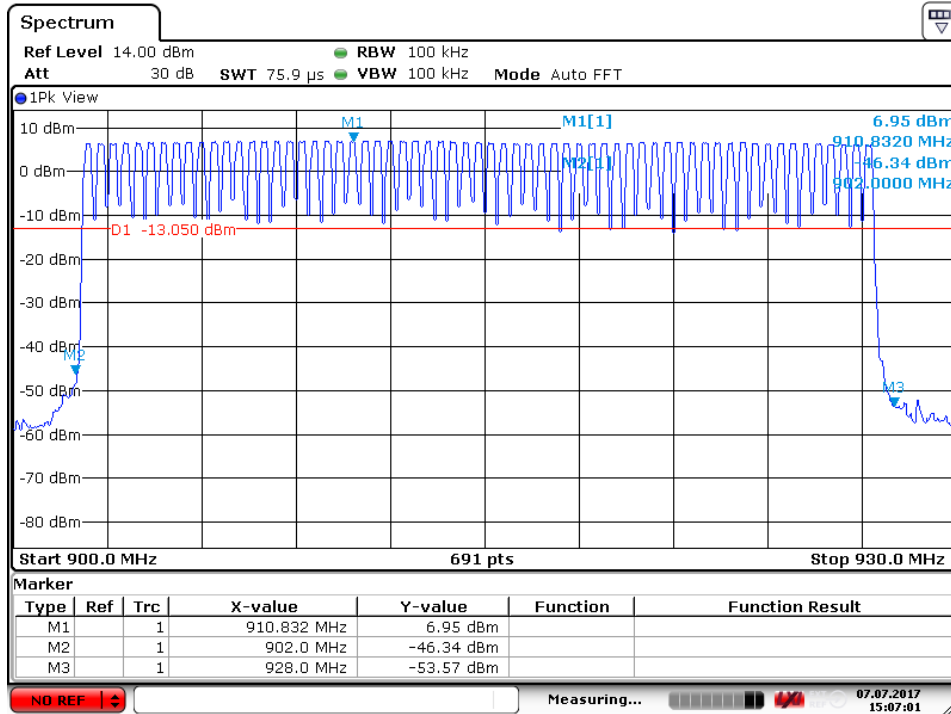
RESULT:**Passed**

| | | |
|-------------------|---|---|
| Test standard | : | FCC part 15.247(d), RSS-247 5.5 LP0002(2011): 3.10.1, (5) |
| Basic standard | : | ANSI C63.10:2013 LP0002(2011) Appendix II |
| 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/ Middle/ High |
| Operation Mode | : | A |
| Ambient temperature | : | 22-26°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 antenna and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

Hopping On


Date: 7 JUL 2017 15:07:00

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(2011): 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 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 -20dBc emission limits specified in FCC 15.247 and RSS-247 5.5 |
| Kind of test site | : | 3m Semi-Anechoic Chamber |

Test setup

| | | |
|----------------|---|-------------------|
| Test Channel | : | Low/ Middle/ High |
| Operation Mode | : | A |

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 worst-case Axis orientation is recorded in this test report.

5.1.7 Frequency Separation

RESULT: **Passed**

Test standard : FCC part 15.247(a)(1)
 RSS-210 A8.1(b)
 LP0002(2011): 3.10.1, (6.1.1)

Basic standard : ANSI C63.10:2013
 LP0002(2011) Appendix II

Limit : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 24°C
 Relative humidity : 53%

Table 9: Test result of Frequency Separation

| Channel | Channel Frequency (MHz) | Measured Channel Separation (MHz) | Limit (kHz) | Result |
|----------------------|-------------------------|-----------------------------------|----------------|--------|
| Record Channel | 915 | 0.4 | ≥ 115 kHz | Pass |
| Record Channel adj 1 | | | | |
| Record Channel adj 2 | | | | |

5.1.8 Number of Hopping Channels

RESULT:**Passed**

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 5.1(5)
LP0002(2011): 3.10.1, (6.1.2)

Basic standard : ANSI C63.10:2013
LP0002(2011) Appendix II

Test setup

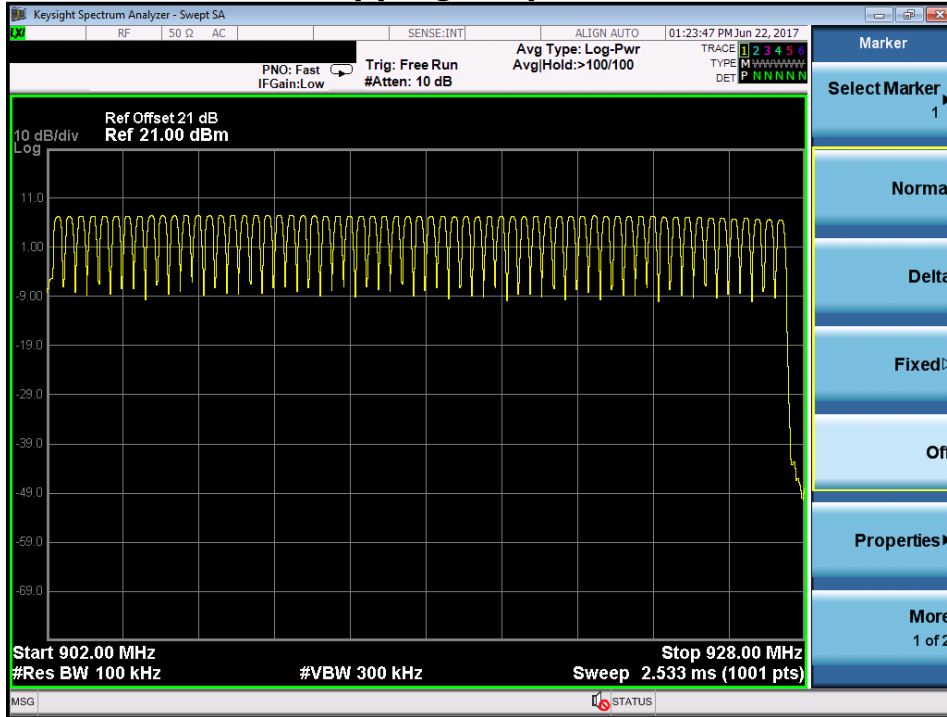
Test Channel : Hopping On
Operation Mode : A

Ambient temperature : 22-26°C
Relative humidity : 50-65%
Atmospheric pressure : 100-103 kPa

Table 10: Test result of Number of hopping frequency

| Frequency Range | Measured Number of Hopping Channel | Limit | Result |
|-----------------|------------------------------------|-------|--------|
| 902 to 928 MHz | 63 | ≥50 | Pass |

Test Plot of Number of hopping frequencies



5.1.9 Time of Occupancy

RESULT:
Passed

Test standard : FCC part 15.247(a)(1)(iii)
 RSS-247 5.1(5)
 LP0002(2011): 3.10.1, (6.1.2)
 Basic standard : ANSI C63.10:2013
 LP0002(2011) Appendix II
 Limits : 0.4s
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 22-26°C
 Relative humidity : 50-65%
 Atmospheric pressure : 100-103 kPa

Table 11: Test result of Time of Occupancy

| Data Mode | Captured Burst (s) | Dwell time (s) | On+Off time (s) | Limit (s) | Result |
|-----------|--------------------|----------------|-----------------|-----------|--------|
| GFSK | 0.142 | 0.327 | 8.683 | 0.4 | Pass |

Note:
 Dwell time = Pulse width x (20sec / On+Off time)

5.2 Mains Emissions

5.2.1 Mains Conducted Emissions

RESULT:**Passed**

Test standard : FCC Part 15.207
FCC Part 15.107
RSS-Gen 7.2.4
LP0002: 8.8

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.

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
RSS-102 issue 5, Table 1

FCC:

Since maximum peak output power of the transmitter is $4.81\text{mW} < 16\text{mW}$, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498: Mobile Portable RF Exposure

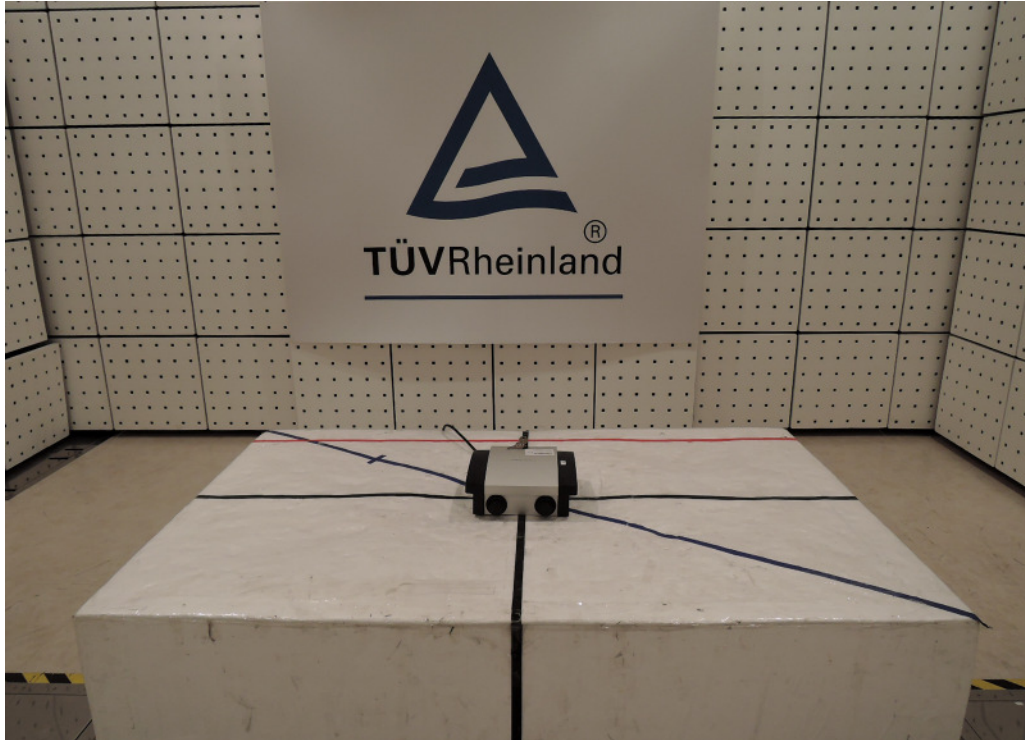
Canada:

Maximum Power available: 4.81mW

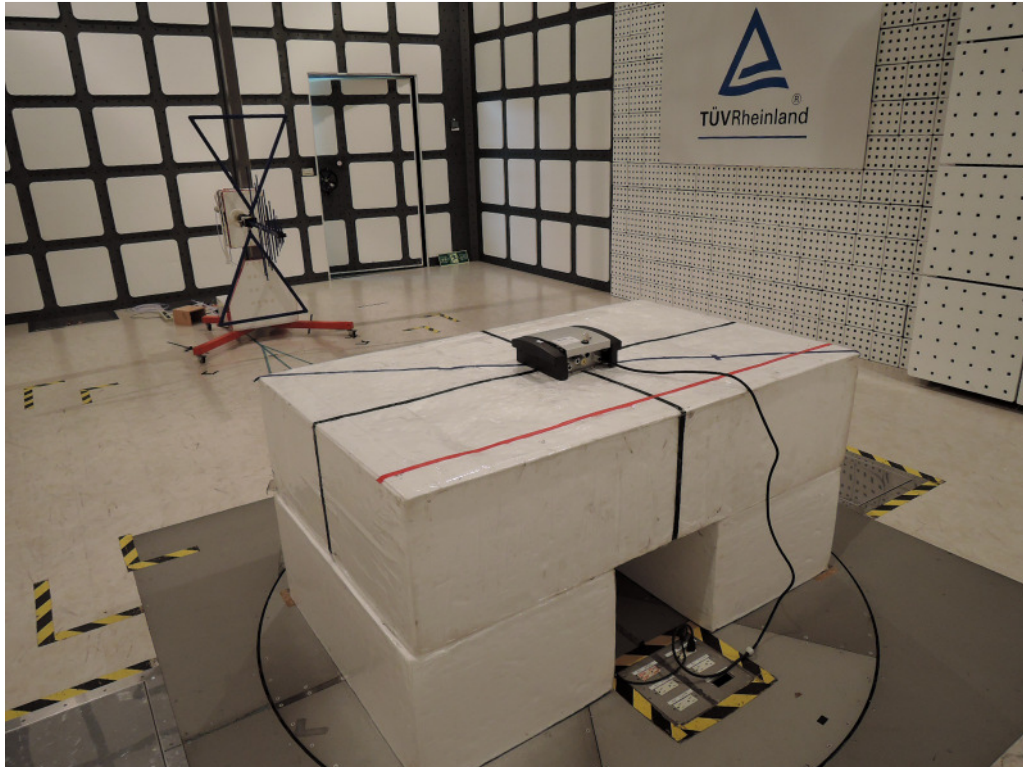
Since maximum output power, either EIRP or conducted, of the transmitter $< 17\text{mW}$, hence the EUT is excluded from SAR evaluation according to Table 1 in RSS-102

7. Photographs of the Test Set-Up

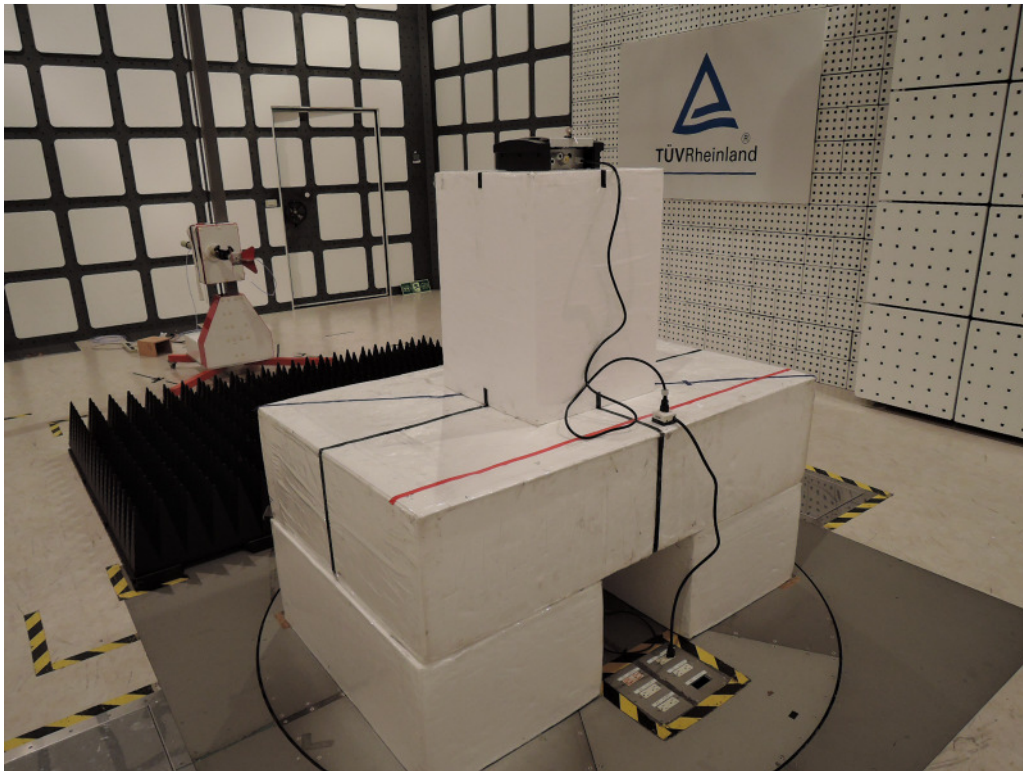
Photograph 1: Set-up for Spurious Emissions (Front View)



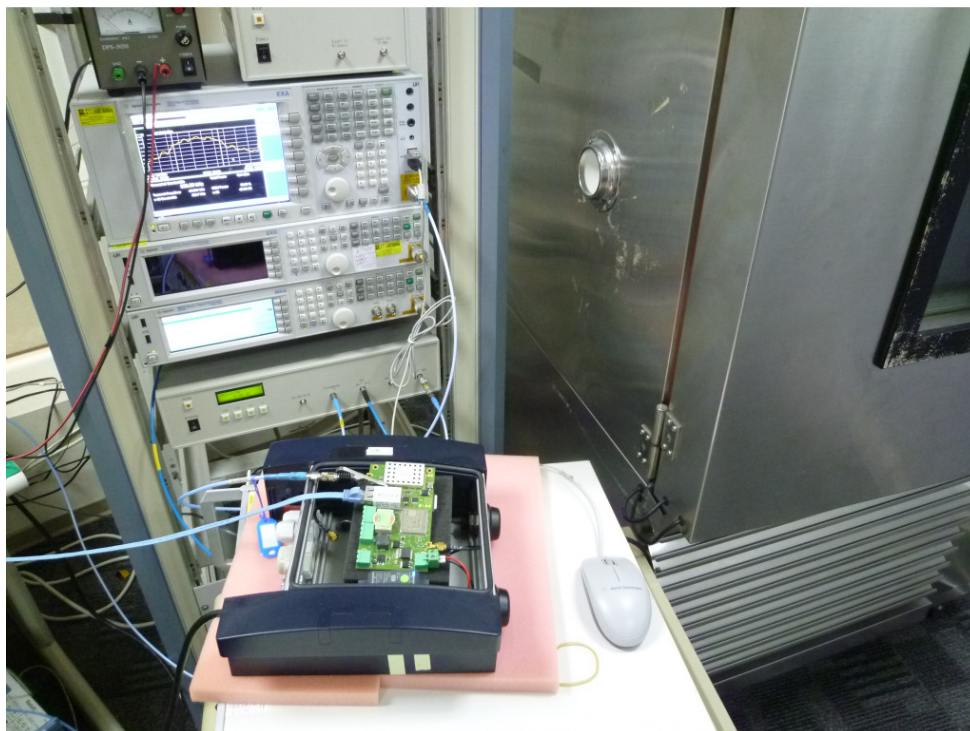
Photograph 2: Set-up for Spurious Emissions (Back View 1)



Photograph 3: Set-up for Spurious Emissions (Back View 2)



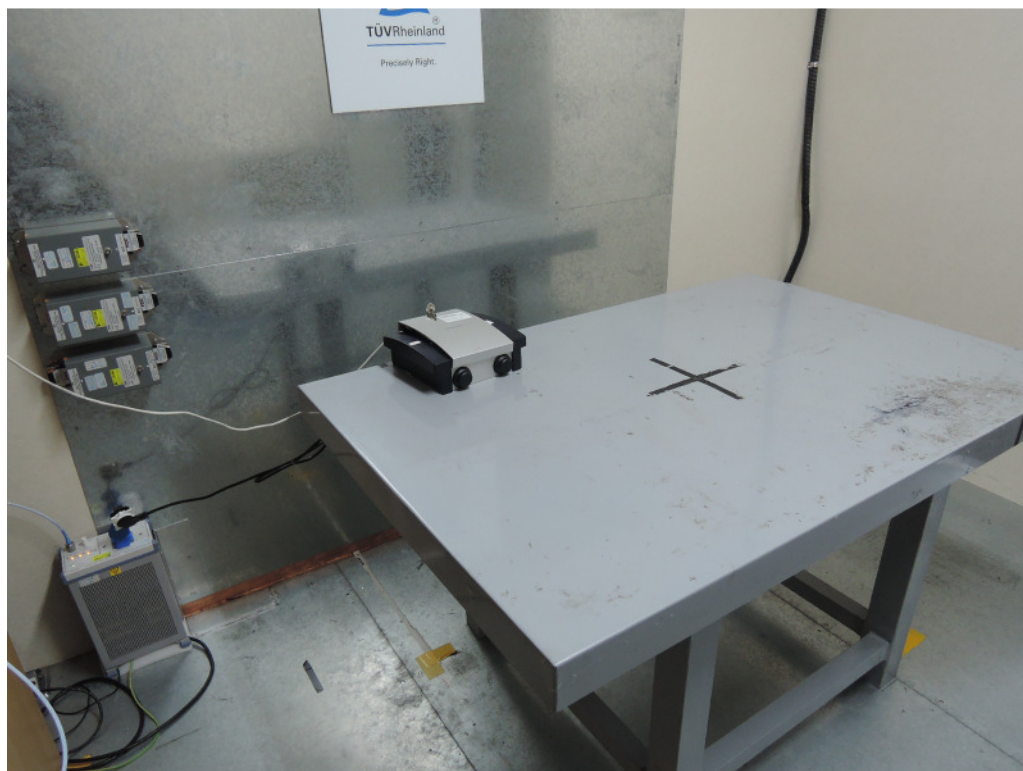
Photograph 4: Set-up for Conducted testing



Photograph 5: Set-up for Mains Conducted testing (Back view)



Photograph 6: Set-up for Mains Conducted testing (Front view)



8. List of Tables

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