

238109330 Prüfbericht-Nr.: 50289620 001 Auftrags-Nr.: Seite 1 von 37 Test Report No.: Order No.: Page 1 of 37

Kunden-Referenz-Nr.: N/A Auftragsdatum: 02-Jul-2019 Client Reference No.: Order date:

Auftraggeber: Pass & Seymour, Inc. d/b/a Legrand

Client: 301 Fulling Mill Road, Suite G, Middletown, PA 17057

Prüfgegenstand: Motion Sensor

Test item:

Bezeichnung / Typ-Nr.: HKMS2

Identification / Type No.:

Auftrags-Inhalt: FCC Part 15C / IC RSS-247 Test report

Order content.

Prüfgrundlage: Test specification: 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, March 2015

Wareneingangsdatum: 29-Aug-2019

Date of receipt:

Prüfmuster-Nr.: A000982201-001 Test sample No.: A000982201-002

Prüfzeitraum: 29-Aug-2019 ~ 24-Sep-2019

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:

01-Oct-2019 Mars Y.J. Lin/ Project Engineer 01-Oct-2019 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

Test item complete and undamaged Condition of the test item at delivery:

\* Legende: 1 = sehr 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: 2 = good3 = satisfactory 4 = sufficient

1 = very good 5 = 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 MAXIMUM CONDUCTED PEAK OUTPUT POWER

RESULT: Passed

5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT: Passed

**POWER DENSITY** 

RESULT: Passed

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

RESULT: Passed

5.1.5 Spurious Emission

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: 50289620 001 APPENDIXP)

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

(File Name: 50289620 001 APPENDIXD)

**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, March 2015

RSS-Gen, Issue 5, March 2019

ANSI C63.10:2013

KDB558074 D01 DTS Meas Guidance v05r02

KDB447498 D01 General RF Exposure Guidance v06

# 1.2 Decision Rule of conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.



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# 2. Test Sites

# 2.1 Test Laboratory

TUV Rheinland Taiwan Ltd. Taipei Testing Laboratories

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

# 2.2 Test Facility

TUV Rheinland Taiwan Ltd.

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

FCC Registration No.: 180491 IC Canada Registration No.: 9465A TAF Accredited NCC Test Lab. No.:3567

TAF ISO17025 Certification effective period: 6<sup>th</sup>-May-2019 to 05<sup>th</sup>-May-2022



Testing Laboratory 3567



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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
EMI Test Receiver	Rohde & Schwarz	ESR 7	101062	2018/10/01	2019/10/01
Spectrum Analyzer	Rohde & Schwarz	FSV-40	100921	2019/04/30	2020/04/30
Pre-Amplifier	Hewlett Packard	8447D	2944A06641	2019/01/08	2020/01/08
Pre-Amplifier	EM Electronics	EM01G18G	060558	2018/11/30	2019/11/30
Pre-Amplifier	EMC Instruments	EMC184045SE	980408	2019/06/12	2020/06/14
Bilog Antenna	TESEQ	CBL 6111D	29804	2019/07/12	2020/07/12
Horn Antenna	ETS-Lindgren	3117	00138160	2019/06/24	2020/06/24
Horn Antenna	Com-Power	AH-840	101029	2018/12/22	2019/12/22
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	2019/07/11	2020/07/11
Test Software	Audix	e3	Ver. 9	N/A	N/A
Spectrum Analyzer	Agilent	N9010A	MY53470241	2019/06/17	2020/06/17
Power Meter	Anritu	ML2495A	1901008	2019/04/29	2020/04/29

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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 <sup>-7</sup>
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 %

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# 3. General Product Information

## 3.1 Product Function and Intended Use

The EUT is a Motion Sensor. It contains a bluetooth compatible wireless 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	Motion Sensor
Type Designation	HKMS2
FCC ID	YV8-SA7161
IC	9922A-SA7161
HVIN	HKMS2

#### **Table 5: Technical Specification of EUT**

Technical Specification	Value
Operating Frequencies	2402~2480MHz
Channel number	40
Operation Voltage	3.6Vdc
Modulation	LE 1M: GFSK LE 2M: GFSK
Antenna gain	1.04dBi



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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 test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

**Table 6: Table for Parameters of Test Software Setting** 

Mode	Channel Frequency		
Mode	2402 MHz	2440 MHz	2480 MHz
LE 1M	4	4	4
LE 2M	4	4	4

# 4.2 Test Operation and Test Software

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

This software nRF\_DTM 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: A000982201-001 Radiation: A000982201-002

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

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# 4.3 Special Accessories and Auxiliary Equipment

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

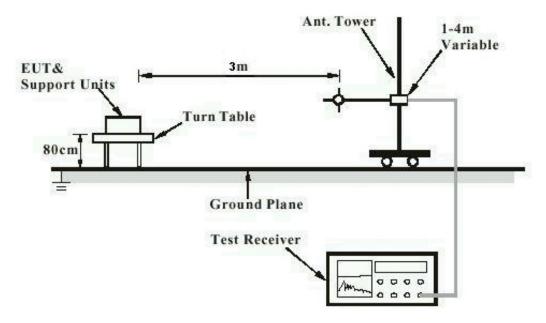
Description	Manufacturer	Model No.	Serial No.
Notebook(EMC-06)	Lenovo	TP00048A	PB-0F8B2

# 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

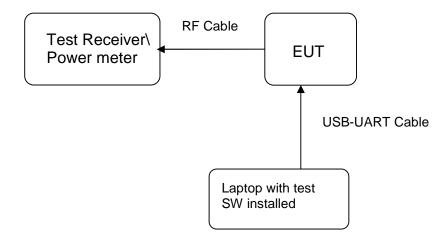


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Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement





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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 6.8

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 directional gain of 1.04 dBi. The antenna is 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 Maximum conducted Peak output power

**RESULT: Passed** 

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

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 7: Test result of Maximum conducted Peak output power, LE 1M

Channel	Channel Frequency	Output Power		Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	2402	2.44	0.00175	1
Middle Channel	2440	2.39	0.00173	1
High Channel	2480	2.27	0.00169	1

Table 8: Test result of Maximum conducted Peak output power, LE 2M

Channel	Channel Frequency	Output Power		Limit
	(MHz)	(dBm)	(W)	(W)
Low Channel	2402	2.46	0.00176	1
Middle Channel	2440	2.41	0.00174	1
High Channel	2480	2.27	0.00169	1



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#### 5.1.3 6dB Bandwidth and 99% Bandwidth

**RESULT: Passed** 

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

RSS-Gen

ANSI C63.10:2013, KDB558074 Basic standard

Kind of test site Shielded room

**Test setup** 

**Test Channel** Low/ Middle/ High

Test Channel : Operation Mode :

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

#### Table 9: Test result of 6dB Bandwidth, LE 1M

Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	701.9	>500	Pass
Mid Channel	2440	694.8	>500	Pass
High Channel	2480	697.1	>500	Pass

#### Table 10: Test result of 99% Bandwidth, LE 1M

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Mid Channel	2440	1.0548



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# Table 11: Test result of 6dB Bandwidth, LE 2M

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low Channel	2402	1.152	>500	Pass
Mid Channel	2440	1.163	>500	Pass
High Channel	2480	1.156	>500	Pass

# Table 12: Test result of 99% Bandwidth, LE 2M

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Mid Channel	2440	2.0672

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## Test Plot of 6dB Bandwidth, LE 1M

#### **Low Channel**



#### **Middle Channel**

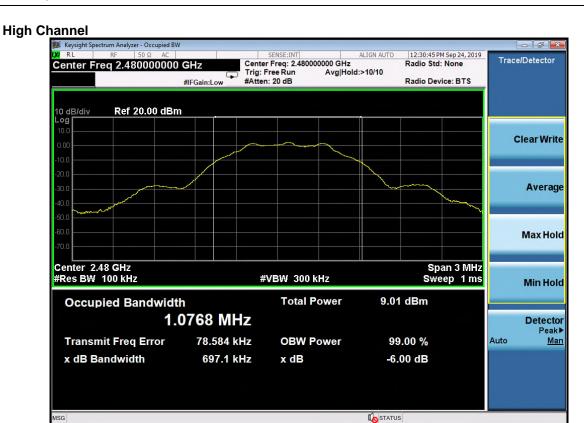




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#### **LE 2M**

#### Low Channel





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#### Middle Channel







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#### **LE 1M**

#### Middle Channel



#### LE 2M

#### **Middle Channel**





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**Power Density** 

**RESULT: Passed** 

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

Kind of test site Shielded room

**Test setup** 

Low/ Middle/ High

Test Channel : Low/ Middl Operation Mode : A Ambient temperature : 20-24°C Relative humidity : 50-65% Atmospheric pressure : 100-103 kPa

# Table 13: Test result of Power Density, LE 1M

Channel	Channel Frequency	Power Density	Limit
	(MHz)	(dBm)	(dBm)
Low Channel	2402	-12.90	8
Middle Channel	2440	-13.02	8
High Channel	2480	-13.18	8

#### Table 14: Test result of Power Density, LE 2M

Channel	Channel Frequency	Power Density	Limit
	(MHz)	(dBm)	(dBm)
Low Channel	2402	-15.52	8
Middle Channel	2440	-15.54	8
High Channel	2480	-15.67	8



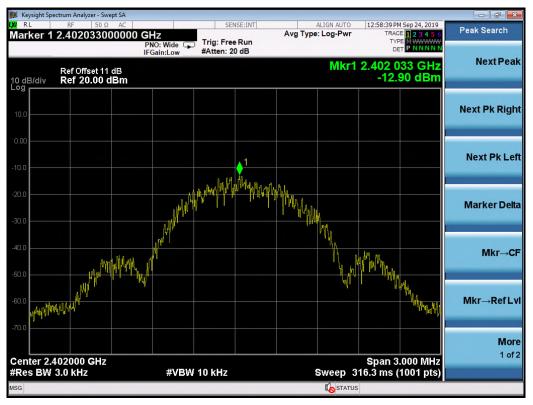
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# Test Plot of Power Density LE 1M

#### **Low Channel**



#### Middle Channel

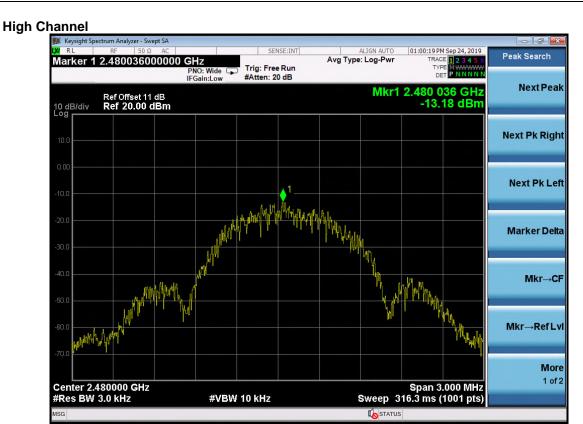




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#### LE 2M

#### **Low Channel**





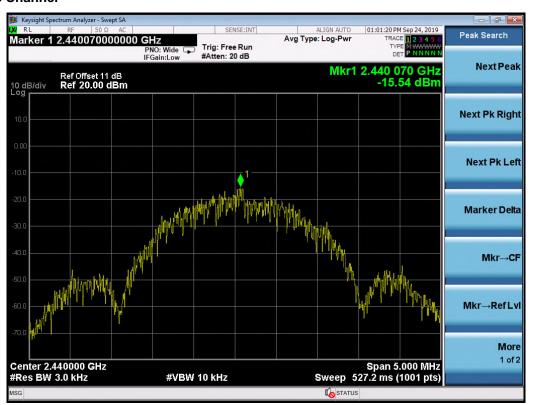
**Products** 

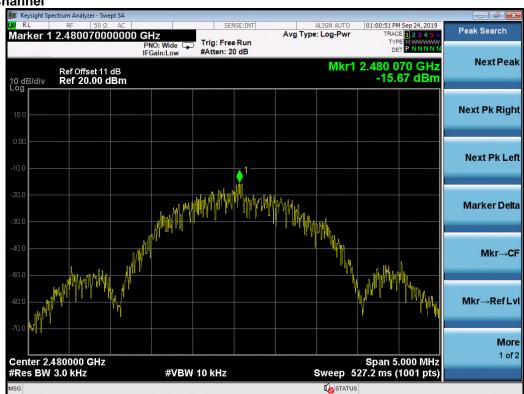
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#### Middle Channel







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

**RESULT: Passed** 

Test standard 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% 100-103 kPa Atmospheric pressure

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.



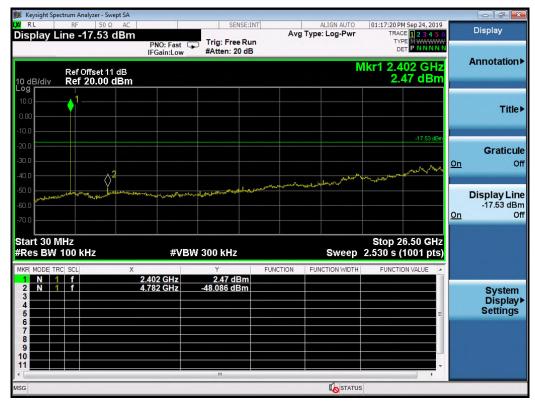
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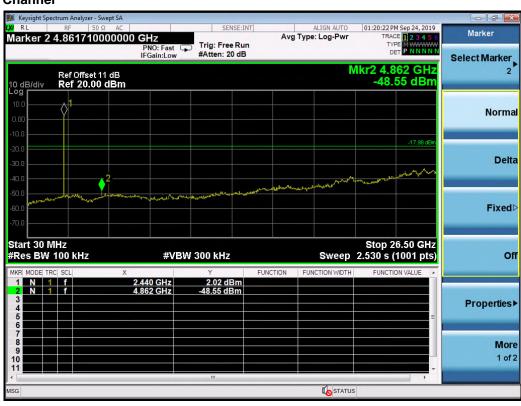
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# Test Plot 100kHz Conducted Emissions LE 1M

#### **Low Channel**



#### **Middle Channel**

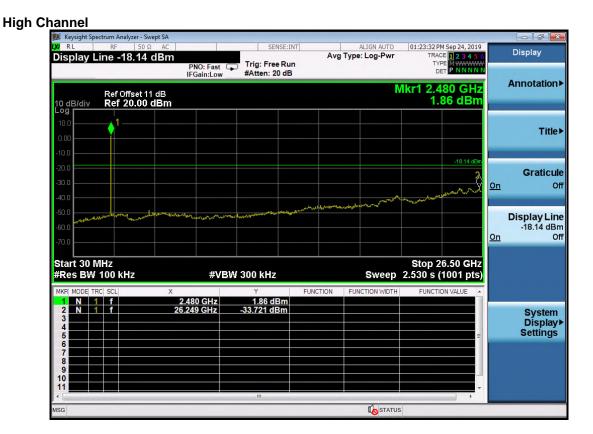




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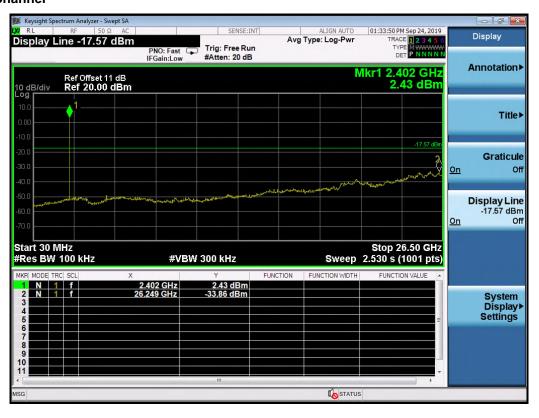
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#### LE 2M

#### Low Channel





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#### **Middle Channel**







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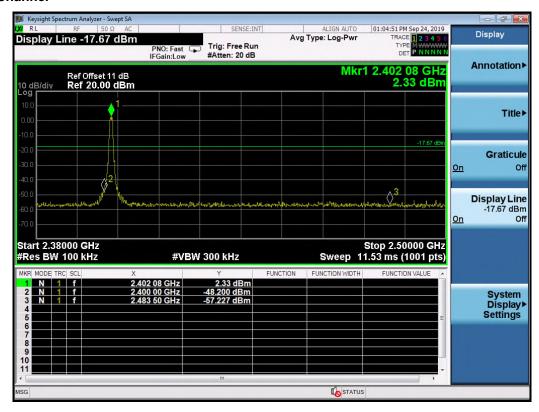
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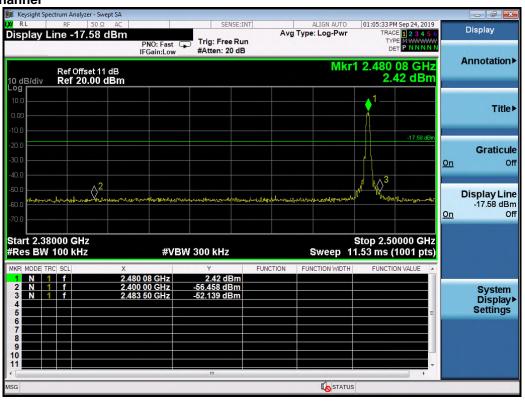
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## Test Plot 100kHz RBW of Band Edge LE 1M

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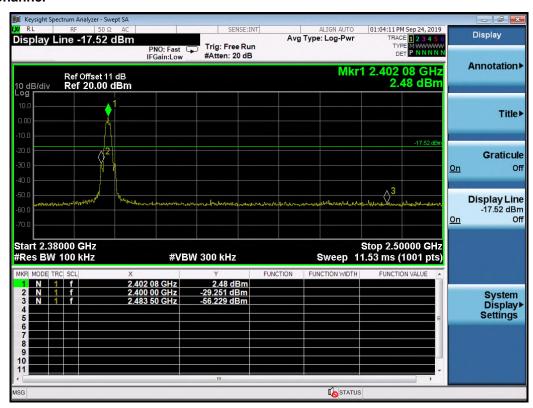
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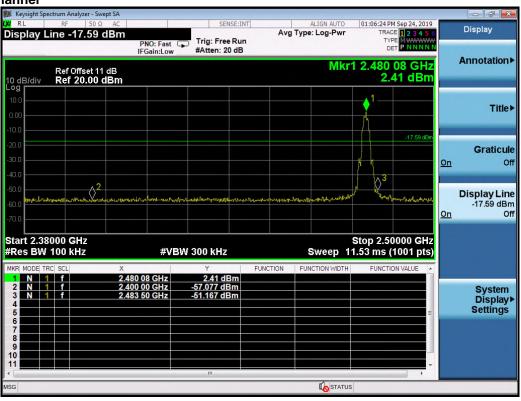
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#### LE 2M

#### **Low Channel**







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# 5.1.5 Spurious Emission

**RESULT: Passed** 

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

RSS-Gen 8.9 and RSS-Gen 8.10

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).

Emission radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in

FCC15.247(d) and RSS-247 i2, 5.5

Kind of test site 3m Semi-Anechoic Chamber

**Test setup** 

Test Channel Low/ Middle/ High

Operation mode Α

Factor (dB/m)=Antenna Factor(dB/m)+Cable loss (dB) Level(dBuV/m)=Reading(dBuV)+ Factor(dB/m)

Testing was carried out within frequency range 9kHz 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.



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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

RSS-102

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

**Maximum Exposure:** 

Power to Antenna (mW)	1.76 mW
Power to Antenna (dBm)	2.5 dBm
Antenna Gain	1.04 dBi
Power+Ant Gain	2.2 mW
Distance	20 cm
S=	0.000 mW/cm^2

Limit FCC:

0.3-1.34 MHz (100) mW/cm<sup>2</sup> 1.34-30 MHz (180/f2) mW/cm<sup>2</sup> 30-300 MHz 0.2 mW/cm<sup>2</sup> 300-1500 MHz f/1500 mW/cm<sup>2</sup> (180/f2) mW/cm<sup>2</sup> 1500-100,000 MHz 1.0 mW/cm<sup>2</sup>

**Limit Canada:**  $0.02619f^{0.6834}$ 



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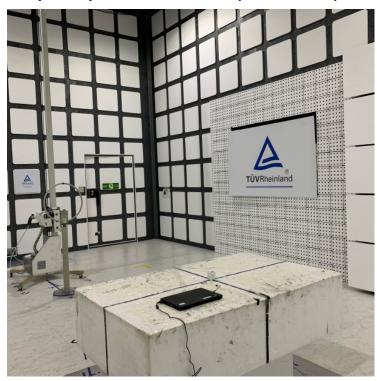
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# 7. Photographs of the Test Set-Up

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



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





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# **Photograph 3: Set-up for Spurious Emissions (Front View 2)**



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





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# **Photograph 5: Set-up for Conducted testing**



Photograph 6: Set-up for Conducted testing





**Products** 

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