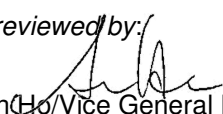


<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>50135911 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>114070584</b>	<b>Seite 1 von 39</b> <i>Page 1 of 39</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	19-Sep-2017		
<b>Auftraggeber:</b> <i>Client:</i>	Zentan Technology Co., Ltd. NO.92, Hsing-Sheng Road, Chia-Li District, Tainan City, 72254 Taiwan				
<b>Prüfgegenstand:</b> <i>Test item:</i>	Bluetooth And ANT+ Wireless Module				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	ZR7				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC Part15C Test report				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	FCC 47 CFR Part 15: Subpart C Section 15.247 FCC 47 CFR Part 2: Subpart J Section 2.1091				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	21-Feb-2018				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	A000643856-006 A000643856-007				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	23-Feb-2018 - 19-Mar-2018				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	EMC/RF Laboratory Taipei				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TUV Rheinland Taiwan Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass				
<b>Report Date / tested by:</b>			<b>kontrolliert von / reviewed by:</b>		
2018-04-13 SamC.J. Kuo/Engineer	2018-04-13	Arvin Ho/Vice General Manager			
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet	5 = mangelhaft
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested	5 = poor
<b>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.</b> <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 6dB BANDWIDTH 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*

### 5.2.1 MAINS CONDUCTED EMISSIONS

RESULT: *Passed*

### 6.1.1 ELECTROMAGNETIC FIELDS

RESULT: *Passed*

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## 1. General Remarks

### 1.1 Complementary Materials

These attachments are integral parts of this test report:

**Appendix P: Photo Documentation internal view**  
(File Name: 50135911APPENDIXP)

**Appendix D: Test Result of Radiated Emissions**  
(File Name: 50135911APPENDIXD)

Test Specifications

The following standards were applied.

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

<b>Radio</b>
FCC 47 CFR Part 15: Subpart C Section 15.247
FCC 47 CFR Part 2: Subpart J Section 2.1091
ANSI C63.10:2013
KDB558074 D01 DTS Meas Guidance v03r05
KDB447498 D01 General RF Exposure Guidance v06

## 2. Test Sites

### 2.1 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 periods: 2016-Jul-1<sup>st</sup> to 2019-Jun-30<sup>th</sup>



**Testing Laboratory**  
**0759**

## 2.2 List of Test and Measurement Instruments

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

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until	Used for test items
Test Software	Farad	EZ_EM C	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	2017/05/02	2018/05/01
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	60558	2017/11/21	2018/11/21
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	101029	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

## 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

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.

## 2.5 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	$\pm 1.5$ dB
RF power density, conducted	$\pm 3$ dB
spurious emissions, conducted	$\pm 3$ dB
all emissions, radiated	$\pm 6$ dB
Temperature	$\pm 1$ °C
Humidity	$\pm 5$ %
DC and low frequency voltages	$\pm 3$ %



## 3. General Product Information

### 3.1 Product Function and Intended Use

The EUT is a Bluetooth And ANT+ Wireless Module. It contains a Bluetooth low energy and ANT+ compatible 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	Bluetooth And ANT+ Wireless Module
Type Designation	ZR7
FCC ID	QSWDZRCS1

**Table 5: Technical Specification of EUT**

Technical Specification	Value
Operating Frequencies	Bluetooth: 2402~2480 MHz, ANT+: 2457MHz
Channel Spacing	2 MHz
Channel number	Bluetooth: 40, ANT+: 1
Operation Voltage	3.3Vdc
Modulation	GFSK
Antenna gain	3.45dBi

### 3.3 Independent Operation Modes

Basic operation modes are for BLE:

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

Basic operation modes are for ANT+:

- A. Transmitting
  - 1. 2457MHz
- 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

## 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 USB interface which makes it possible to control them through test software installed on a notebook computer.

This software, nRFgo is provided by manufacturer which 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.

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:

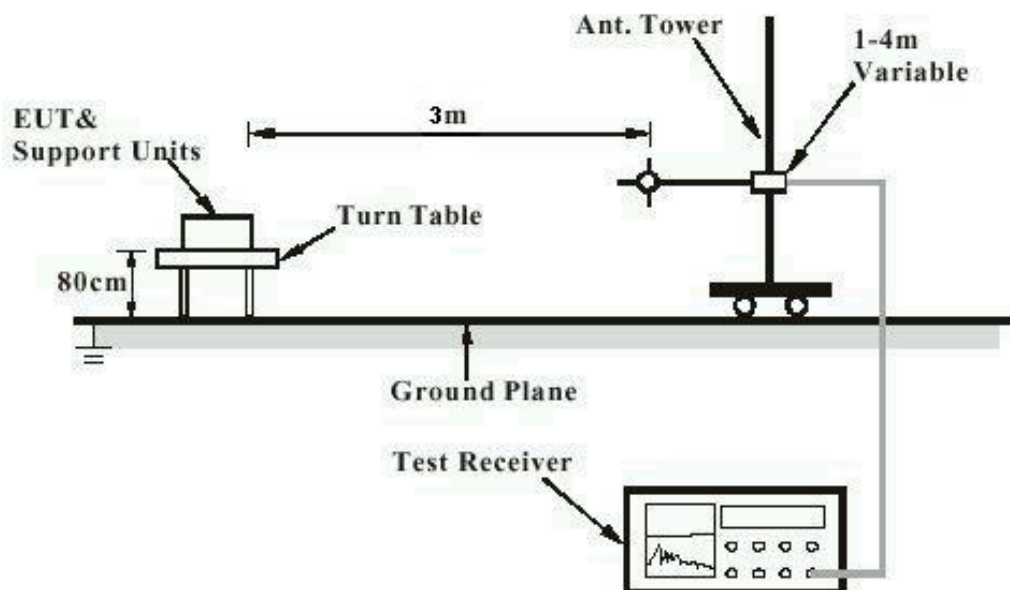
Description	Manufacturer	Model No.	Serial No.
Notebook(EMC-06)	Lenovo	TP00048A	PB-0F8B2

## 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.

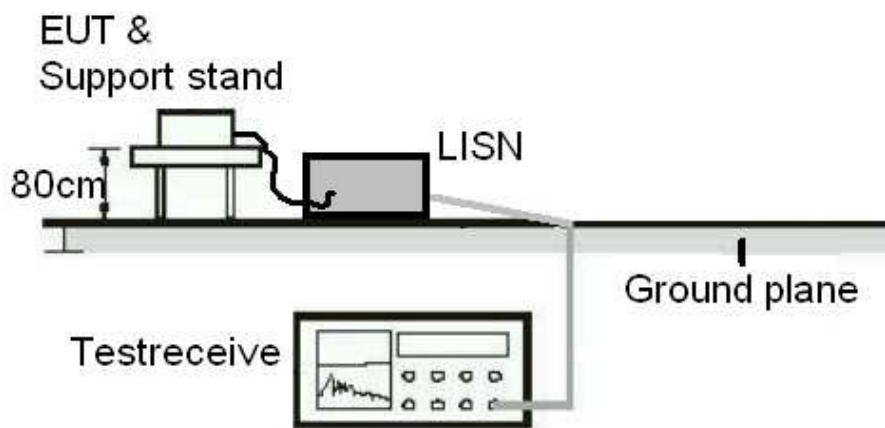
## 4.5 Test Setup Diagram

### Diagram of Measurement Configuration for Radiation Test

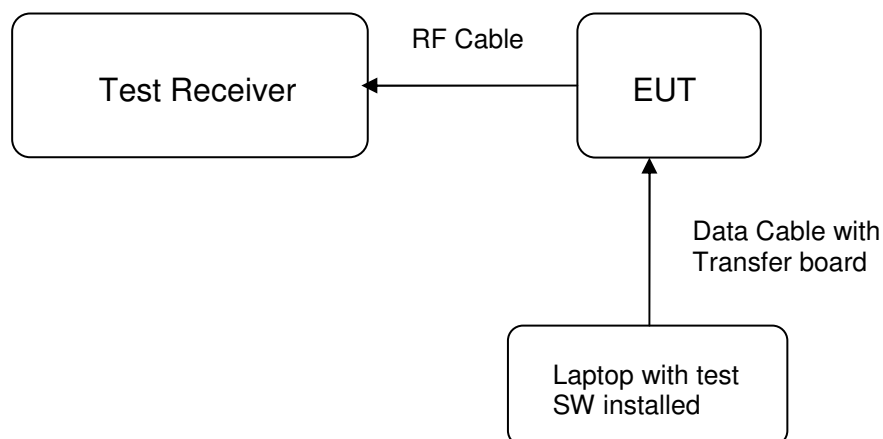


Note: Measurements above 1 GHz are done with a table height of 1.5m

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



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



## 4.6 Test Environment

Ambient temperature : 18-25°C  
Relative humidity : 50-65 %

## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:** **Passed**

Test standard	:	LP0002(2018): 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 3.45dBi. The antenna is a Chip Antenna soldered to the PCB 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.

### 5.1.2 Peak Output Power

**RESULT:**
**Passed**

Test standard : LP0002(2018): 3.10.1.2 (1) (C)  
 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/Conducted room

**Test setup**

Test Channel : Low/ Middle/ High for BLE, 2457MHz for ANT+  
 Operation Mode : A

**Table 6: Test result of Peak Output Power (BLE)**

Channel	Channel Frequency (MHz)	Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2402	-0.36	0.00092	1
Middle Channel	2440	-0.18	0.00096	1
High Channel	2480	0.15	0.00104	1

**Table 7: Test result of Peak Output Power (ANT+)**

Channel	Channel Frequency (MHz)	Output Power		Limit (W)
		(dBm)	(W)	
	2457	-0.07	0.00098	1

Maximum Output Power: 1.04mW



### 5.1.3 6dB Bandwidth 99% Bandwidth

**RESULT:**
**Passed**

Test standard : LP0002(2018): 3.10.1.6 (2)(A)  
 FCC Part 15.247(a)(2), RSS-247 5.2(1)  
 Basic standard : ANSI C63.10:2013, KDB558074  
 Kind of test site : Shielded room/Conducted room

**Test setup**

Test Channel : Low/ Middle/ High for BLE, 2457MHz for ANT+  
 Operation Mode : A

**Table 8: Test result of 6dB Bandwidth (BLE)**

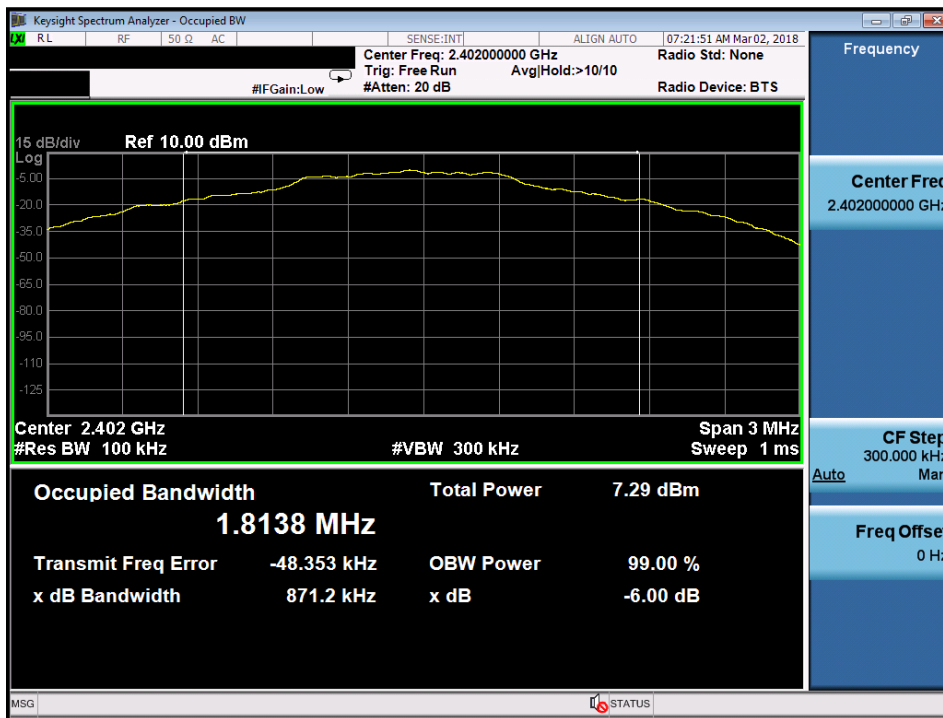
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	871.2	>500	Pass
Mid Channel	2440	832.9	>500	Pass
High Channel	2480	836	>500	Pass

**Table 9: Test result of 6dB Bandwidth (ANT+)**

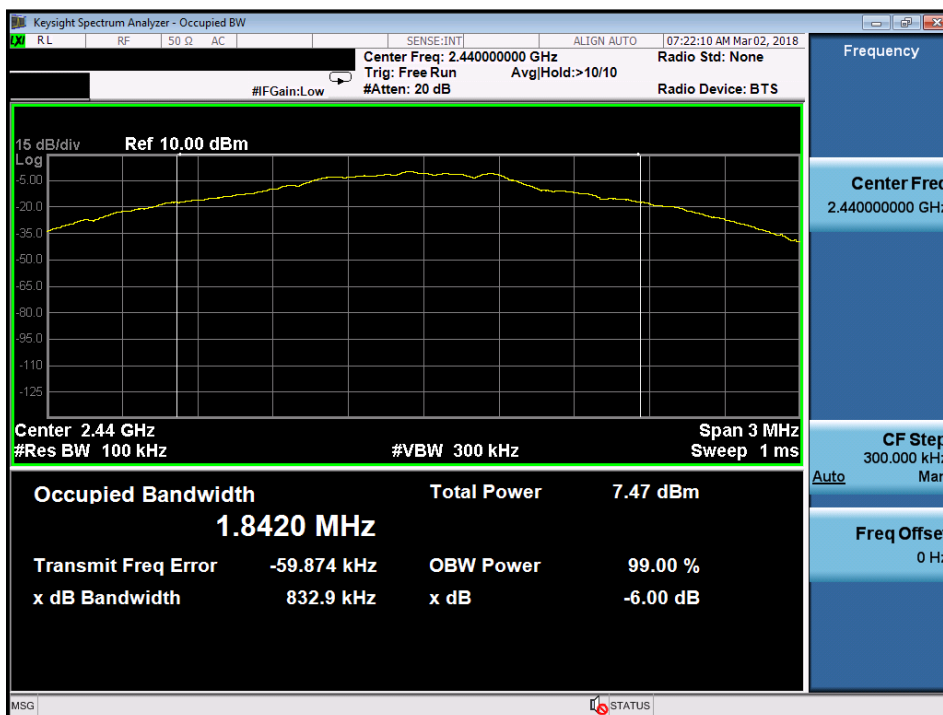
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
	2457	868.4	>500	Pass

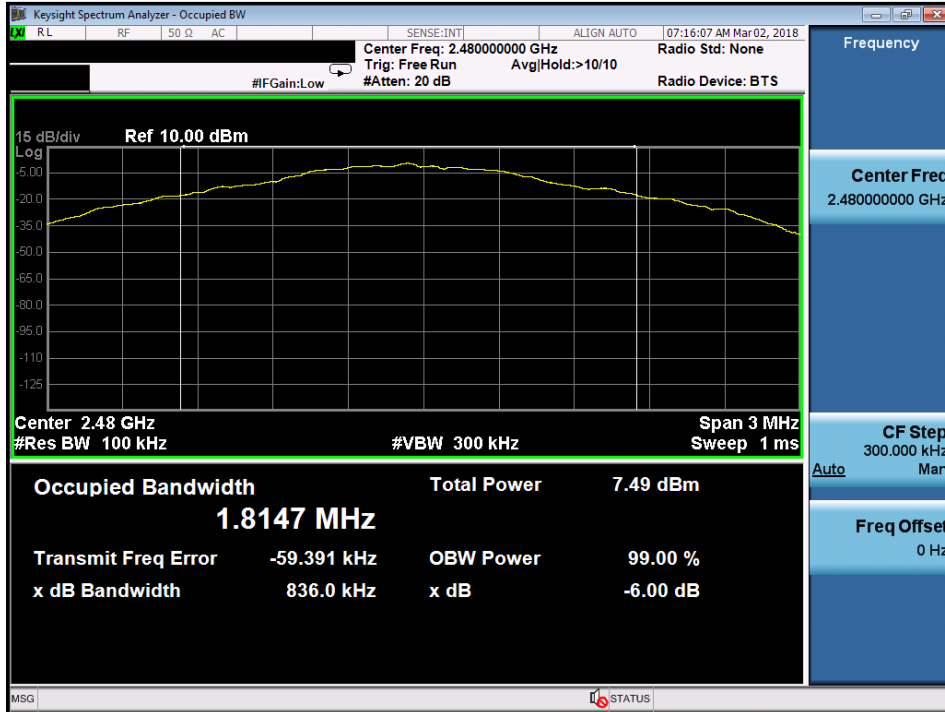
## Test Plot of 6dB Bandwidth (BLE)

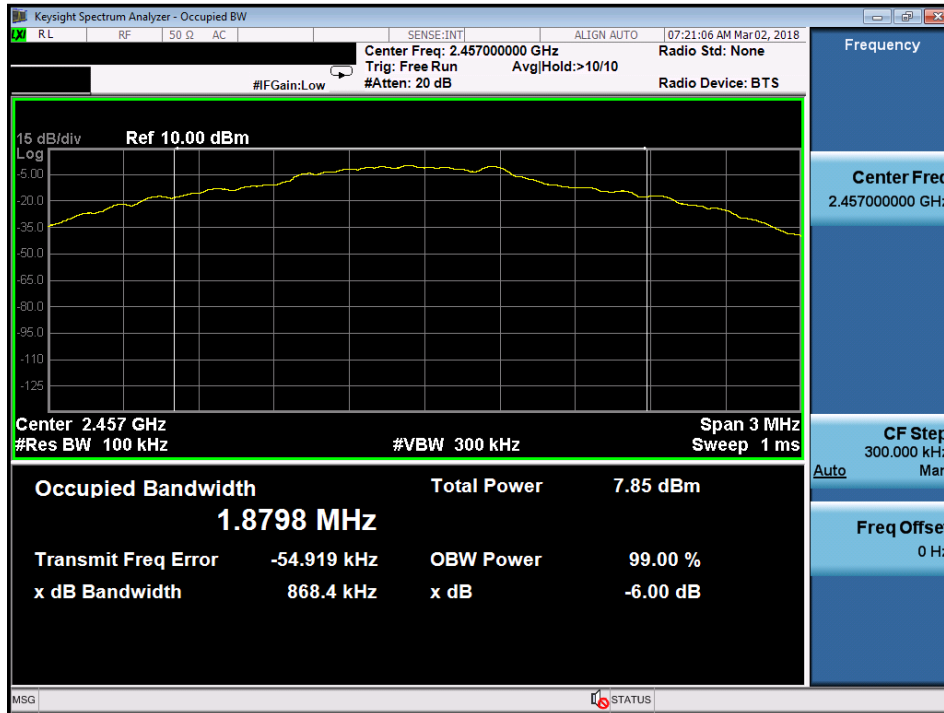
### Low Channel



### Middle Channel



**High Channel**


**Test Plot of 6dB Bandwidth (ANT+)**
**2457MHz**


### 5.1.4 Power Density

**RESULT:**
**Passed**

Test standard : LP0002(2018): 3.10.1,6 (2) (B)  
 FCC Part 15.247(e) , RSS-247 5.2(2)  
 Basic standard : ANSI C63.10:2013, KDB558074  
 Kind of test site : Shielded room/Conducted room

**Test setup**

Test Channel : Low/ Middle/ High for BLE, 2457MHz for ANT+  
 Operation Mode : A

**Table 10: Test result of Power Density (BLE)**

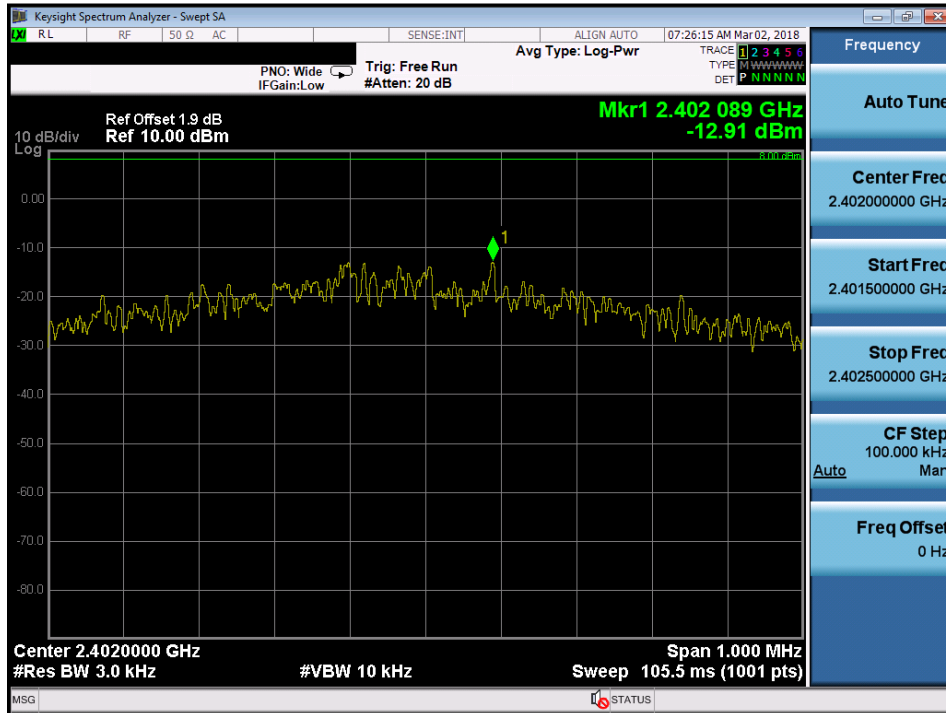
Channel	Channel Frequency (MHz)	Power Density	Limit
		(dBm)	(dBm)
Low Channel	2402	-12.91	8
Middle Channel	2440	-13.3	8
High Channel	2480	-11.15	8

**Table 11: Test result of Power Density (ANT+)**

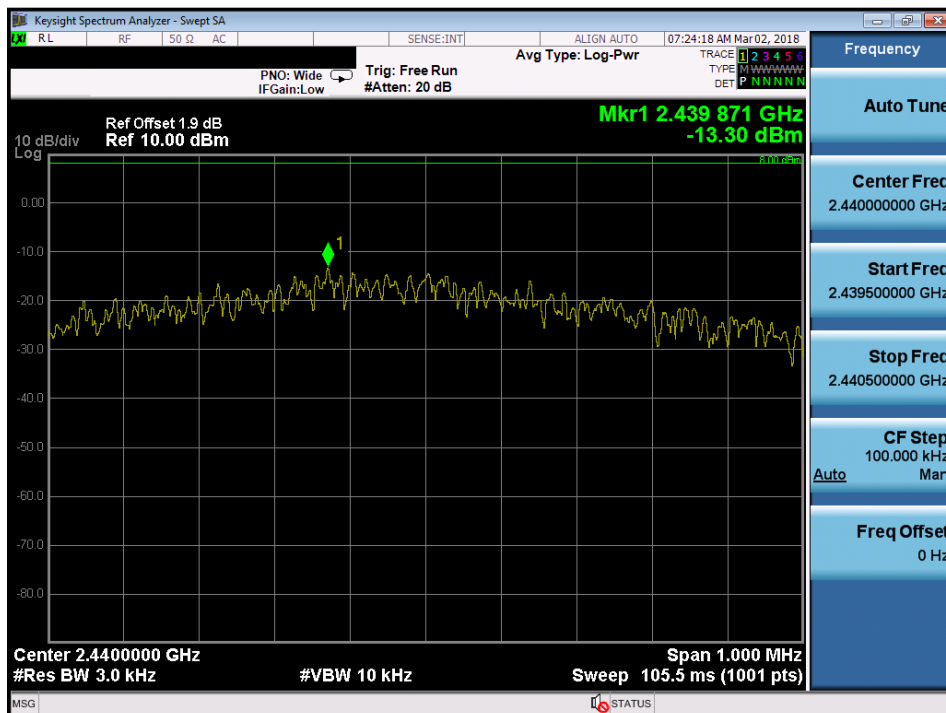
Channel	Channel Frequency (MHz)	Power Density	Limit
		(dBm)	(dBm)
	2457	-13.25	8

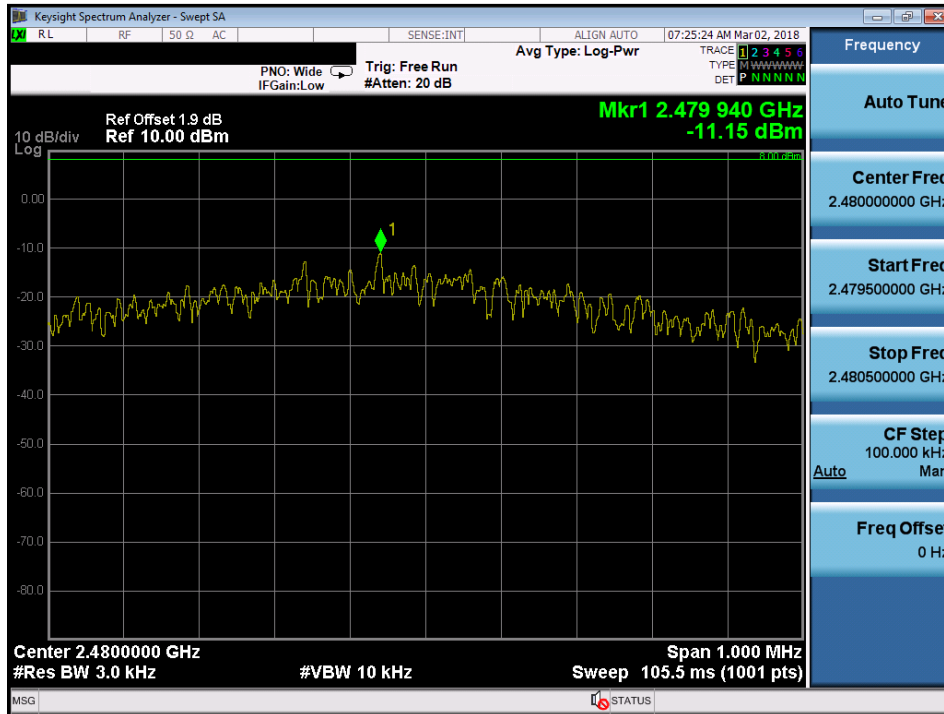
## Test Plot of Power Density (BLE)

### Low Channel



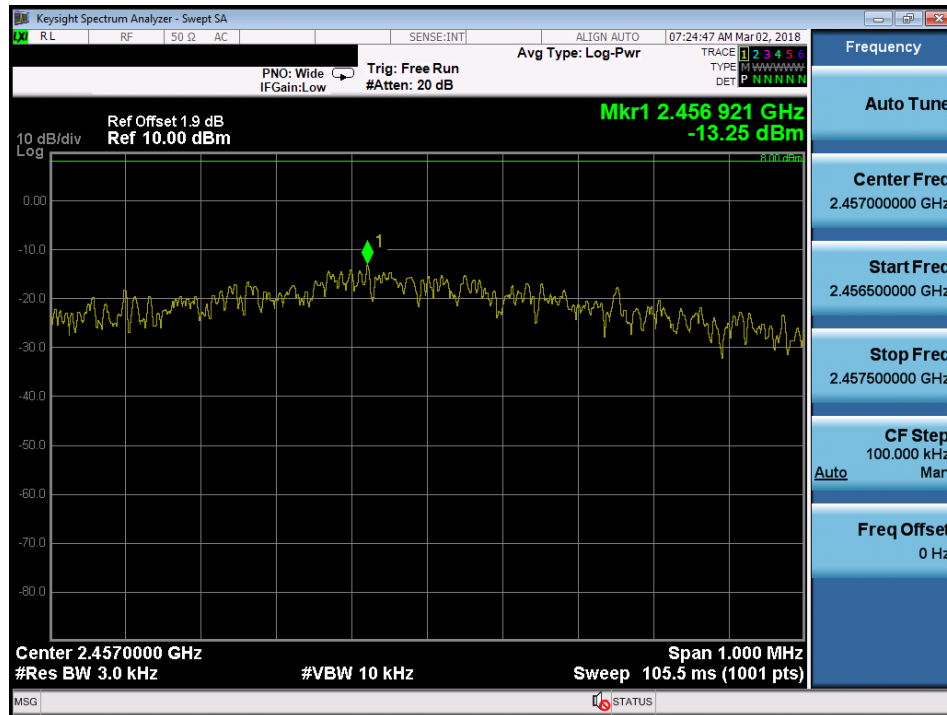
### Middle Channel



**High Channel**

### Test Plot of Power Density (ANT+)

2457MHz





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

**RESULT:****Passed**

Test standard	: LP0002(2018): 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/Conducted room

**Test setup**

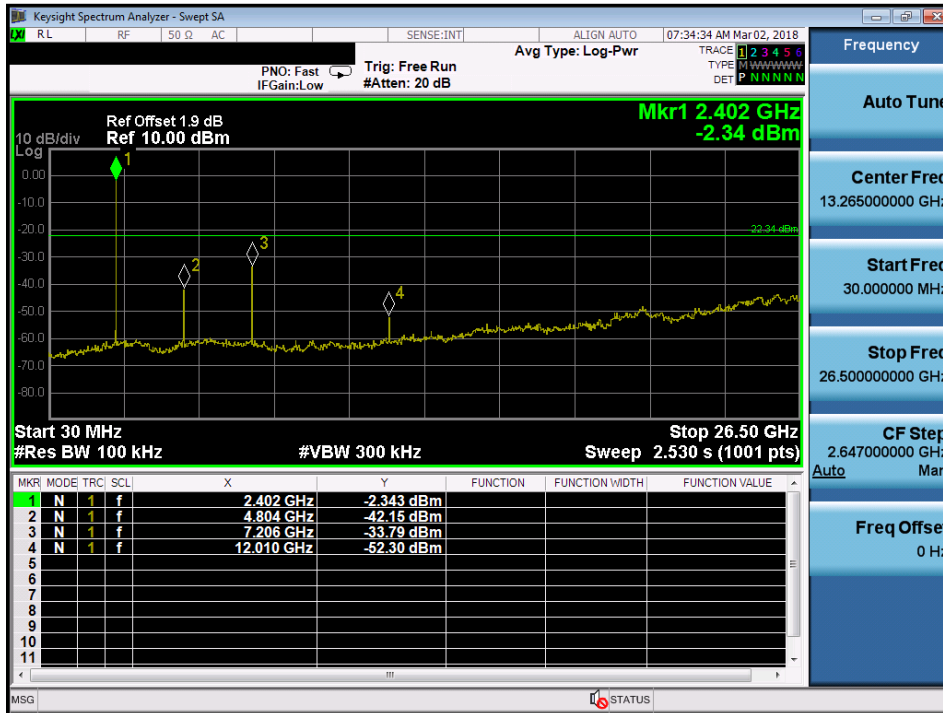
Test Channel	: Low/Mid/High/2457MHz for spurious emissions, Low/High for Band Edge
Operation mode	: A

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

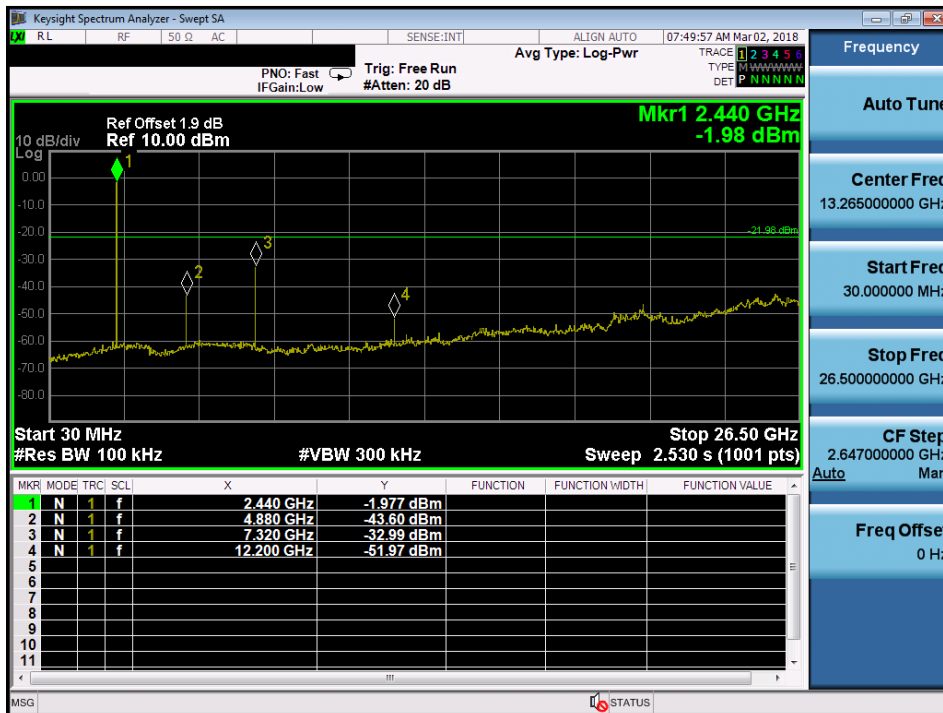
Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

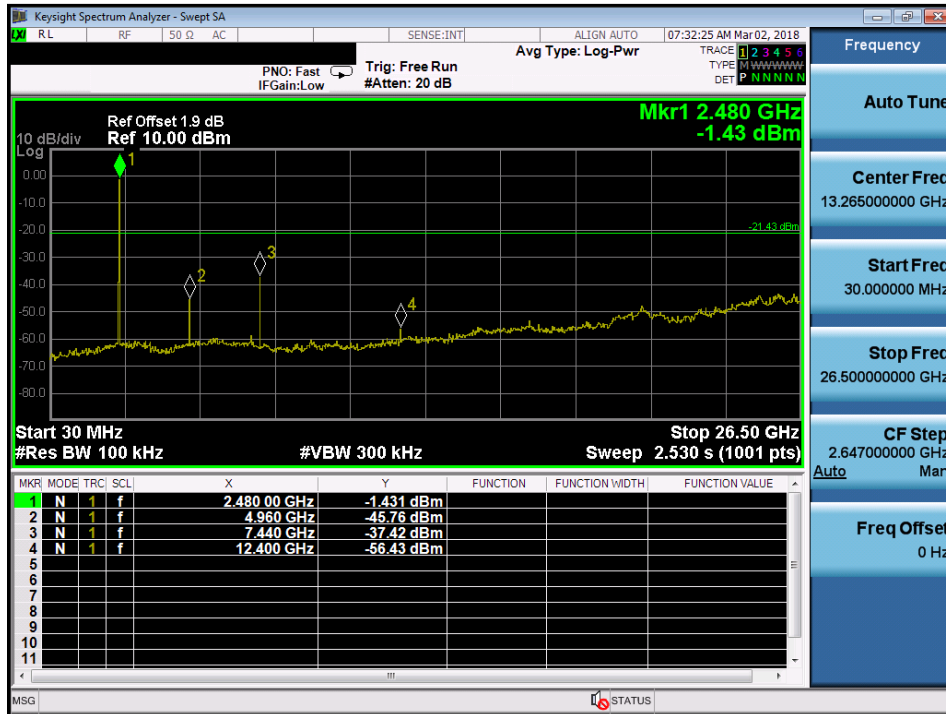
## Test Plot 100kHz Conducted Emissions (BLE)

### Low Channel



### Middle Channel



**High Channel**


Frequency

Auto Tune

Center Freq  
13.265000000 GHz

Start Freq  
30.000000 MHz

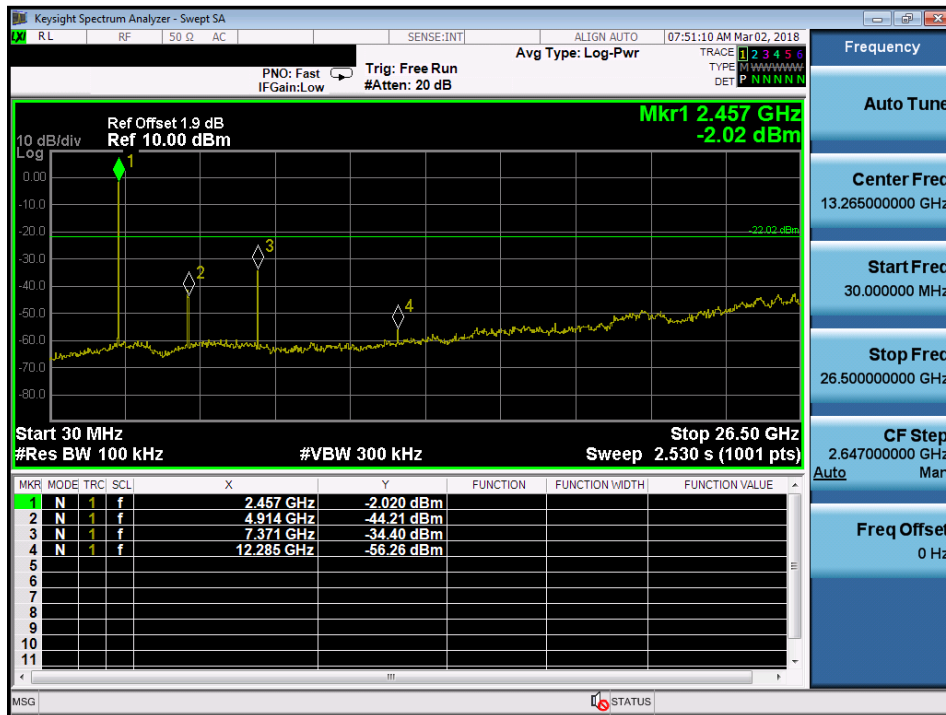
Stop Freq  
26.500000000 GHz

CF Step  
2.647000000 GHz  
Auto Man

Freq Offset  
0 Hz

## Test Plot 100kHz Conducted Emissions (ANT+)

2457MHz



Frequency

Auto Tune

Center Freq  
13.265000000 GHz

Start Freq  
30.000000 MHz

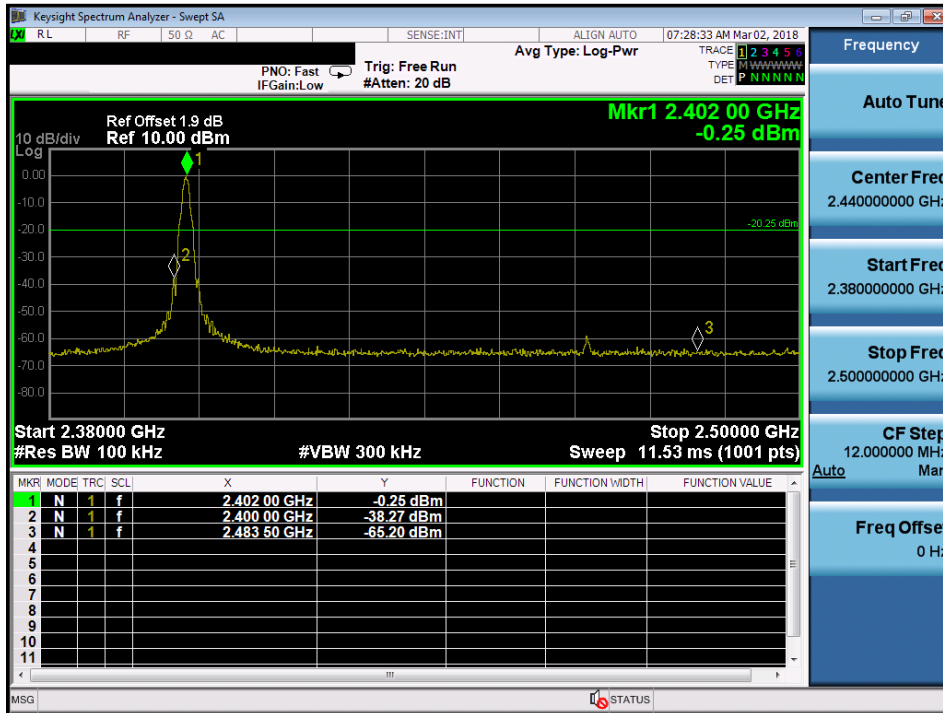
Stop Freq  
26.500000000 GHz

CF Step  
2.647000000 GHz  
Auto Man

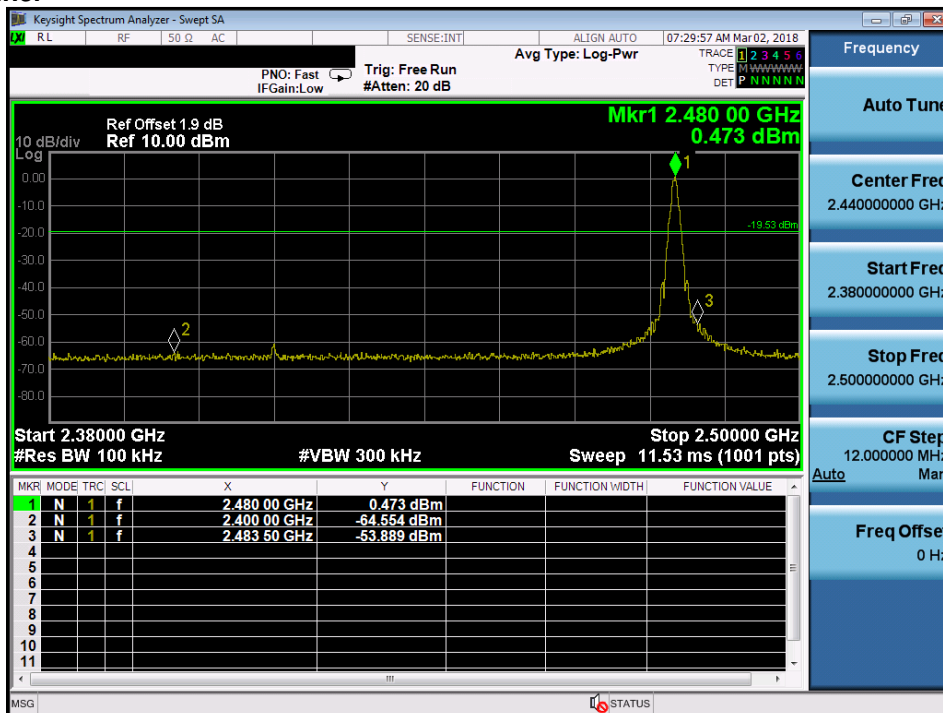
Freq Offset  
0 Hz

## Test Plot 100kHz RBW of Band Edge (BLE)

### Low Channel



### High Channel



## 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(2018): 3.10.1.5
Basic standard	:	ANSI C63.10: 2009
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). Radiated emissions which fall in the restricted bands, as defined in LP0002(2018): 2.7 , must comply with the radiated emission limits specified in LP0002(2018): 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 i4, 8.9 (Table 4 and 5) and RSS-210 A2.9(a). Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in LP0002(2018): 2.8
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.

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.

## 5.2 Mains Emissions

### 5.2.1 Mains Conducted Emissions

**RESULT:****Passed**

Test standard : FCC Part 15.207  
FCC Part 15.107  
RSS-Gen 8.8  
LP0002 (2018): 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.

## 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

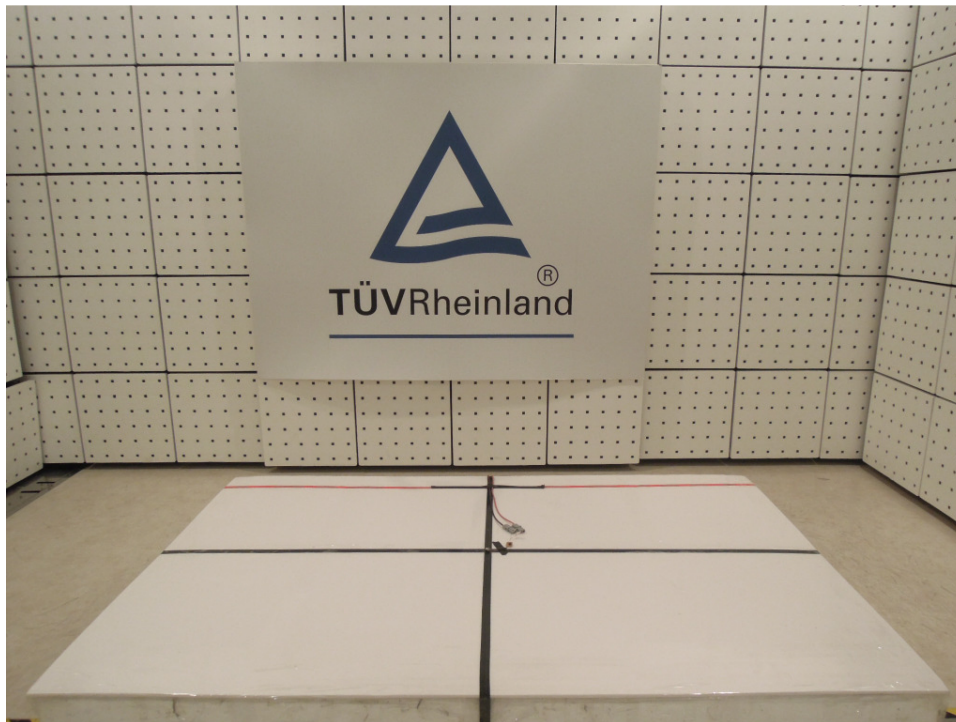
The maximum output power of the transmitter is 1.04mW < 10mW, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

---End---

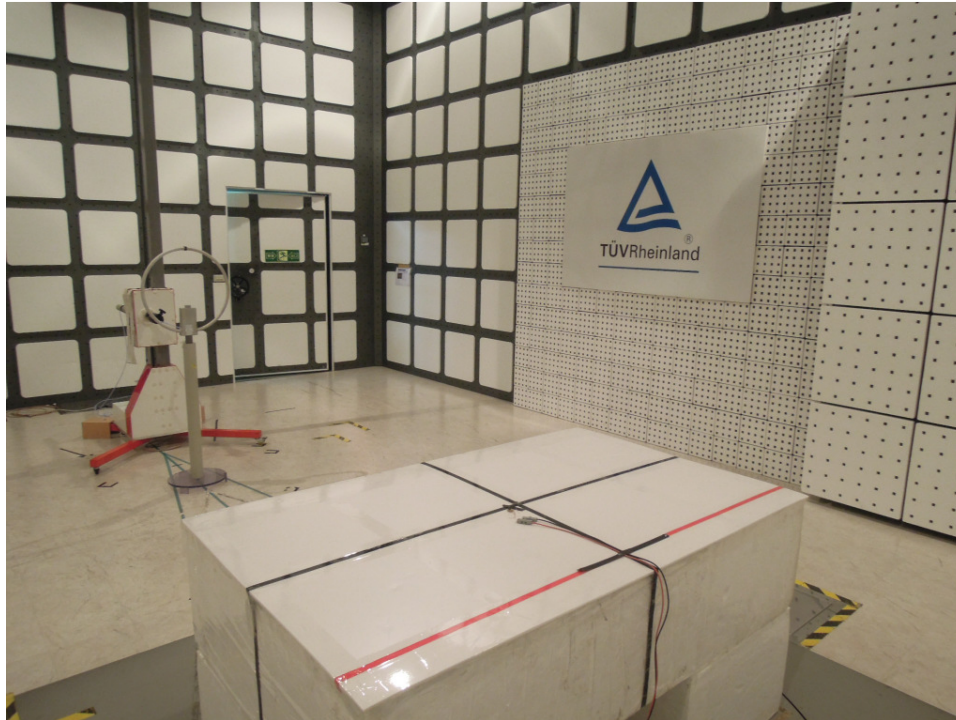


## 7. Photographs of the Test Set-Up

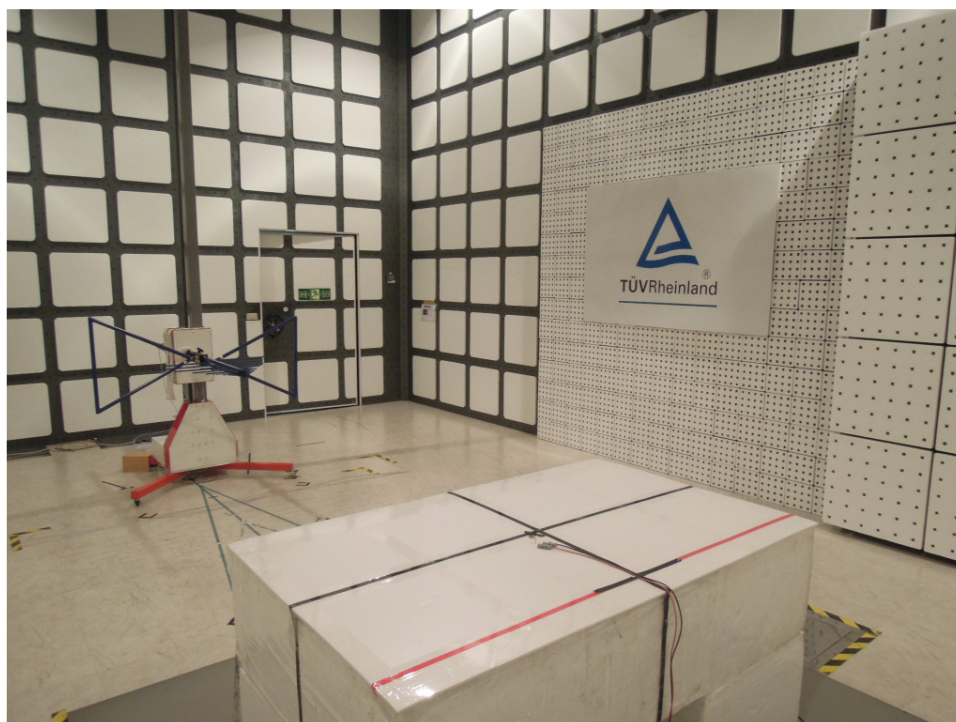
**Photograph 1: Set-up for Spurious Emissions (Front View)**



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

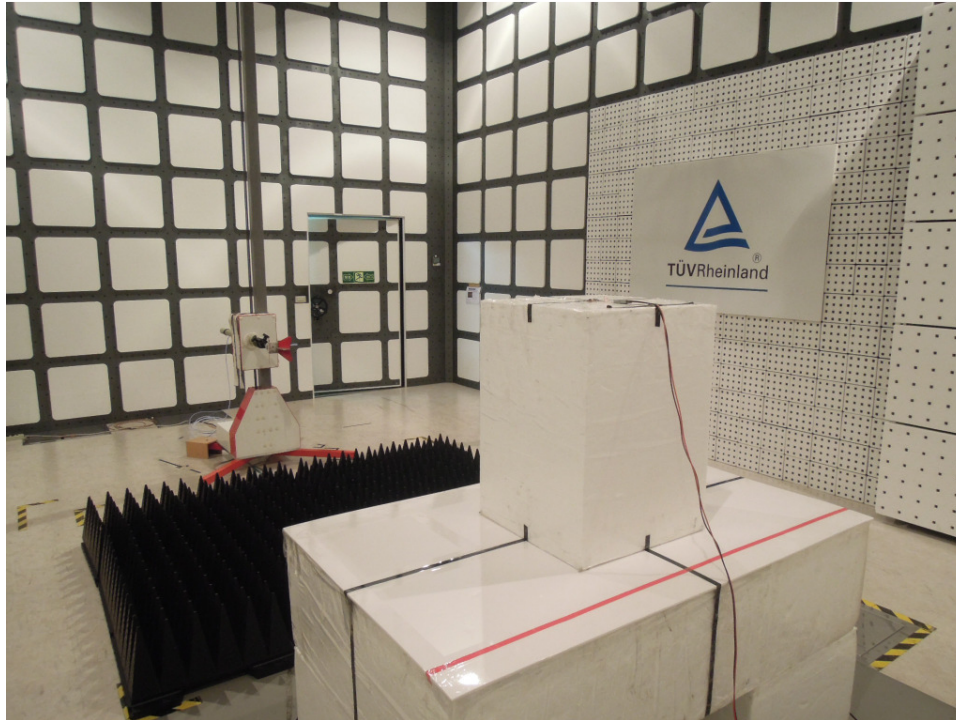


**Photograph 3: Set-up for Spurious Emissions (Back View 2)**

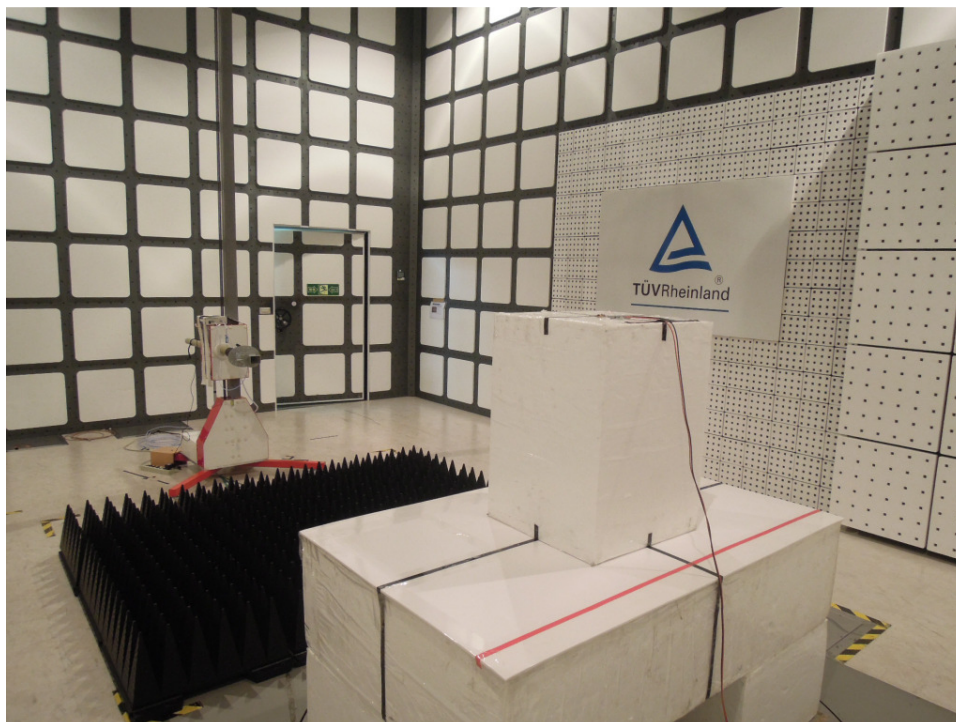




**Photograph 4: Set-up for Spurious Emissions (Back View 3)**



**Photograph 5: Set-up for Spurious Emissions (Back View 4)**

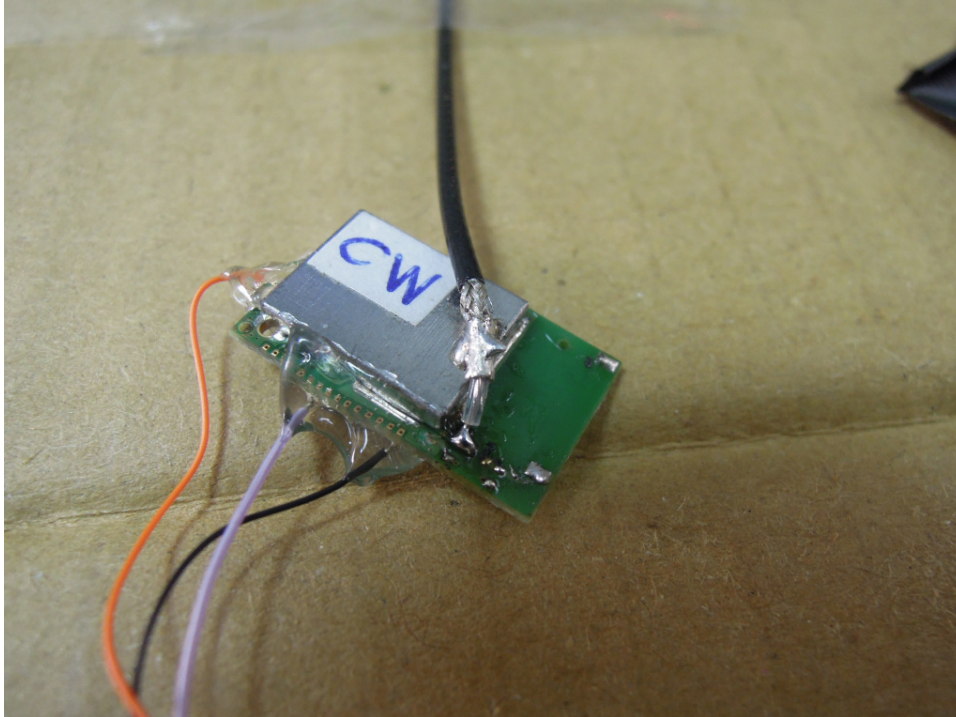


**Photograph 6: Set-up for Conducted testing**





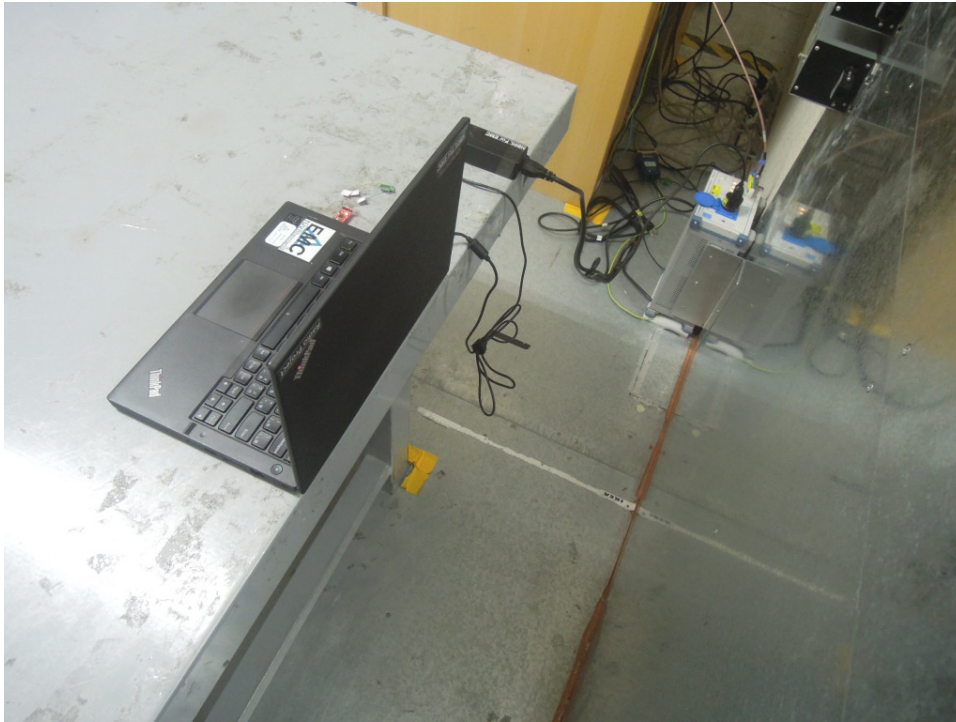
**Photograph 7: Set-up for Conducted testing**



**Photograph 8: Set-up for Mains Emissions (Front View)**



**Photograph 9: Set-up for Mains Emissions (Back View)**



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