

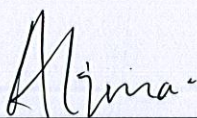
RF TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the R&TTE directive 1999/5/EC.

Applicant : SHENZHEN FENDA TECHNOLOGY CO., LTD.
Address : Fenda Hi-Tech Park, Zhoushi Road, Shiyan Town, Baoan District, Shenzhen City, Guangdong, China
Manufacturer/Factory : SHENZHEN FENDA TECHNOLOGY CO., LTD.
Address : Fenda Hi-Tech Park, Zhoushi Road, Shiyan Town, Baoan District, Shenzhen City, Guangdong, China
E.U.T. : 5.1 Speaker System
Brand Name : F&D
Model No. : F5060X, F5080X, 5090X, F6000X, F6600X
(For model difference refer to section 2.1)
Measurement Standard : ETSI EN 300328 V1.9.1: 2015
Date of Receiver : November 28, 2016
Date of Test : November 29, 2016 to December 19, 2016
Date of Report : December 19, 2016

This Test Report is Issued Under the Authority of :

Prepared by


Alina Guo / Engineer

Approved & Authorized Signer


Iori Fan / Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.



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1. GENERAL INFORMATION

PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST

- Model Name : F5060X, F5080X, 5090X, F6000X, F6600X
All tests were carried on model F5060X.
- Model difference : These models have the same circuit schematic, construction, PCB Layout and critical components. Their difference in model number, appearance and color due to trading purpose.
- Power Supply : AC 120-240V 50/60Hz 2.5A
- Test Voltage : AC 230V 50Hz
- Operating Temperature Range : 0°C to 35°C (Declaration by manufacturer)
- Adaptive/Non-Adaptive Equipment : Adaptive equipment
- Note : This report only applies to modulation technology DSSS.

Technical Specification:

For BT function
BT Version: 4.2+EDR and backward compatible BLE.
We prepare version BLE(V4.0) and 4.2+EDR for RF test..

Item	BT4.2+EDR	BLE(V4.0)
Frequency	2402-2480MHz	2402-2480MHz
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK	GFSK
Number of Channel	79	40
Channel space	1MHz	2MHz
Antenna Type	PCB antenna	PCB antenna
Antenna Gain	0.5 dBi (declared by manufacturer)	0.5 dBi (declared by manufacturer)

SUMMARY OF TEST RESULTS		
Section (ETSI EN 300328)	Description of Test	TEST RESULT
4.3.1.2 / 4.3.2.2	RF Output Power	Compliant
4.3.2.3	Power Spectral Density (Modulations other than FHSS equipment)	Compliant
4.3.1.3 / 4.3.2.4	Duty cycle, Tx-Sequence, Tx-gap (Non-adaptive equipment)	N/A <small>see note</small>
4.3.1.4	Dwell time, Minimum Frequency Occupation & Hopping Sequence (FHSS equipment)	N/A
4.3.1.5	Hopping Frequency Separation (FHSS equipment)	N/A
4.3.1.6 / 4.3.2.5	Medium Utilisation (Non-adaptive equipment)	N/A <small>see note</small>
4.3.1.7 / 4.3.2.6	Adaptivity	N/A <small>see note</small>
4.3.1.8 / 4.3.2.7	Occupied Channel Bandwidth	Compliant
4.3.1.9 / 4.3.2.8	Transmitter unwanted emission in the OOB domain	Compliant
4.3.1.10 / 4.3.2.9	Transmitter unwanted emissions in the spurious domain	Compliant
4.3.1.11 / 4.3.2.10	Receiver spurious emissions	Compliant
4.3.1.12 / 4.3.2.11	Receiver Blocking	N/A

Note: These requirements do not apply for equipment with a maximum declared RF Output power of less than 10dBm EIRP or for equipment when operating in a mode where the RF Output power is less than 10dBm EIRP.

2. DESCRIPTION OF TEST MODES

The EUT has been tested under Normal Operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed. All data rate and modulation type were tested, only the worst-case record in this report.

3. TEST FREQUENCIES AND SOFTWARE

For BLE Mode

Channel	Frequency MHz
0	2402
19	2442
39	2480

Test Item	Software	Description
Conducted RF Testing and Radiated testing	ACTsBTAPP	Set the EUT to different modulation and channel

4. TEST FACILITY

Site Description

EMC Lab : Listed by CNAS, August 14, 2015
 The certificate is valid until August 13, 2018
 The Laboratory has been assessed and proved to be in compliance with CNAS/CL01
 The Certificate Registration Number is L5795.

Listed by FCC, July 03, 2014
 The Certificate Number is 665078.

Listed by Industry Canada, June 18, 2014
 The Certificate Registration Number. Is 46405-9743

Name of Firm : Dongguan Nore Testing Center Co., Ltd.
 (Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science & Technology Park,
 Zhouxi Longxi Road, Nancheng District, Dongguan
 City, Guangdong Province, China

5. MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 1.42 \times 10^{-4}\%$
RF output power, conducted	$\pm 1.06\text{dB}$
Power Spectral Density, conducted	$\pm 1.06\text{dB}$
Unwanted Emissions, conducted	$\pm 2.51\text{dB}$
All emissions, radiated	$\pm 3.70\text{dB}$
Temperature	$\pm 0.8^\circ\text{C}$
Humidity	$\pm 3.2\%$
DC and low frequency voltages	$\pm 0.1\%$
Time	$\pm 5\%$
Duty cycle	$\pm 5\%$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$

6. SUPPORT EQUIPMENT

Notebook PC : Manufacturer: IBM Corporation
M/N: R50e
S/N: L3-HZNGO
P/N: 1834KDC

Adapter : Manufacturer: IBM Corporation
M/N: 08K8210
Input: AC100-240V 50/60Hz 0.5-1.0A
Output: DC 16V 4.5A

7. RF OUTPUT POWER

Limits

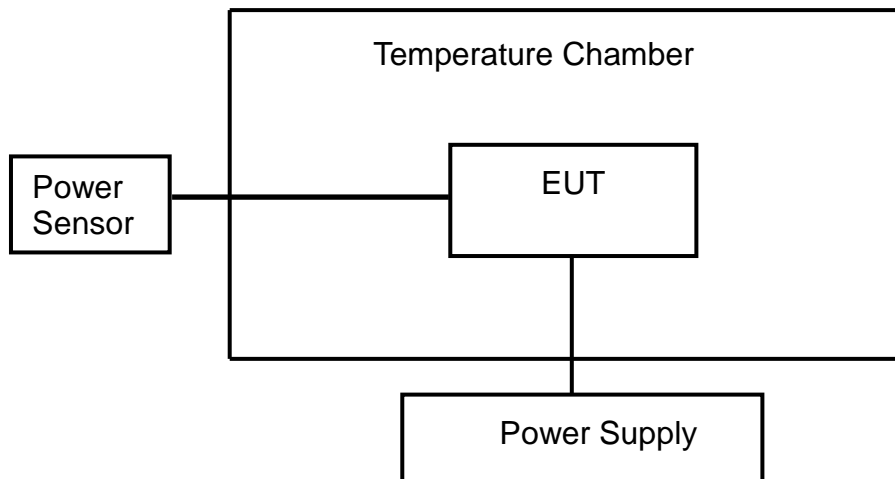
Frequency Band	Limit
2400 ~ 2483.5 MHz Adaptive frequency hopping systems	Equivalent isotropic radiated power (e.i.r.p.) ≤20 dBm

Test Method

1. Please refer to ETSI EN 300328 (V_{1.9.1}) clause 5.3.2.2.1 for conducted measurement method.
2. The measurements shall be performed at both normal environmental conditions and at The extremes of the operating temperature range.

Test Configuration

Temperature and Voltage Measurement



Test Result

Pass.

Please refer to following data tables.

BLE					
Humidity :		52 %	Temperature :		22 °C
Test Result:		PASS	Test By:		Sance
Antenna Assembly Gain:					0.5dBi
Cable Loss=					1.5dB
Number of Burst					>20
Temperature (°C)	Power Supplied	Reading dBm	EIRP dBm	Limit dBm	
Lowest channel					
25	AC 230V	-0.22	1.78	20	
0	AC 230V	-0.28	1.72	20	
35	AC 230V	-0.30	1.70	20	
Middle channel					
25	AC 230V	-0.28	1.72	20	
0	AC 230V	-0.30	1.70	20	
35	AC 230V	-0.36	1.64	20	
Highest channel					
25	AC 230V	-1.57	0.43	20	
0	AC 230V	-1.60	0.40	20	
35	AC 230V	-1.59	0.41	20	

Note: Calculated Power(dBm)=Output Power(dBm)+Cable Loss(dB)+Antenna Gain(dBi)

8. POWER SPECTRAL DENSITY

Limits

Frequency Band	Limit
2400 ~ 2483.5 MHz	Equivalent isotropic radiated power (e.i.r.p.) 10 dBm / MHz

Test Method

1. Please refer to ETSI EN 300328 (V_{1.9.1}) clause 5.3.3.2 for conducted measurement method.
2. The measurements shall be performed at normal environmental condition.

Test Configuration



Test Result

Pass.

Please refer to following data table.

BLE Mode			
Temperature:	21°C	Test Date:	December 15, 2016
Humidity:	50%	Test By:	Sance
RBW:	10KHz	VBW:	30KHz
TEST CONDITION	Measured data (dBm/MHz) Limited	(dBm/MHz)	
2402	1.56	10	
2442	1.49	10	
2480	0.22	10	

9. OCCUPIED CHANNEL BANDWIDTH

Limits

Condition	Limit
All types of equipment	Shall fall completely within the band 2400 to 2483.5 MHz
For non-adaptive using wide band modulations other than FHSS system and e.i.r.p > 10dBm	Less than 20MHz
For non-adaptive Frequency Hopping system and e.i.r.p > 10dBm	Less than 5MHz

Test Method

1. Please refer to ETSI EN 300328 (V_{1.9.1}) clause 5.3.8.2.1 for conducted measurement method.
2. The measurements shall be performed at normal environmental condition.

Test Configuration



Test Result

Pass.

Please refer to following data tables and test plots.

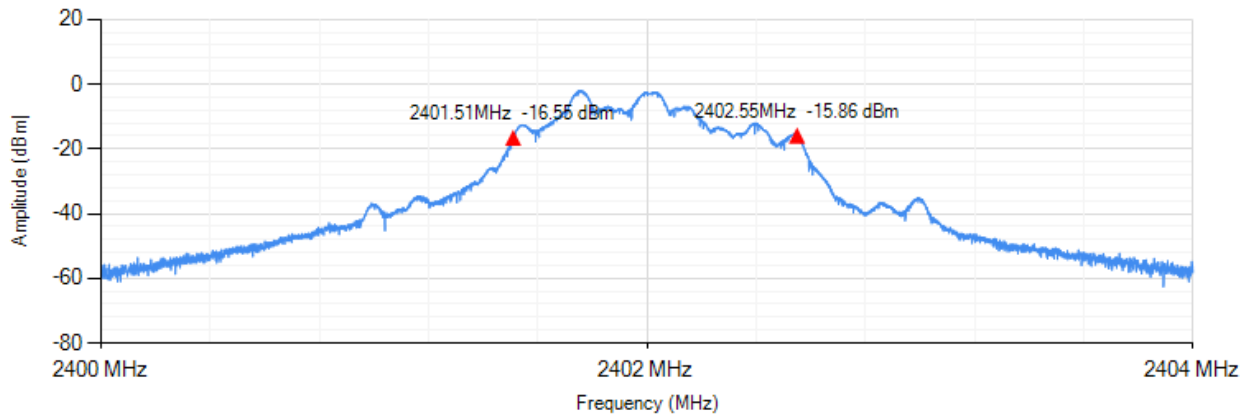
Temperature : 22 °C Humidity : 52%
 Test Date : December 15, 2016 Test Result: PASS
 Test By: Sance

Channel frequency (MHz)	99% Bandwidth (MHz)	FL at 99% BW (KHz)	FH at 99% BW (KHz)	Limit	Result
BLE Mode					
2402	1030	2401.51	2402.55	FL > 2.4 GHz and FH < 2.4835 GHz	Pass
2480	1030	2479.51	2480.55		Pass

Note: FL is the lowest frequency of the 99% occupied bandwidth of power envelope.
 FH is the highest frequency of the 99% occupied bandwidth of power envelope.

BLE Mode Lowest Channel

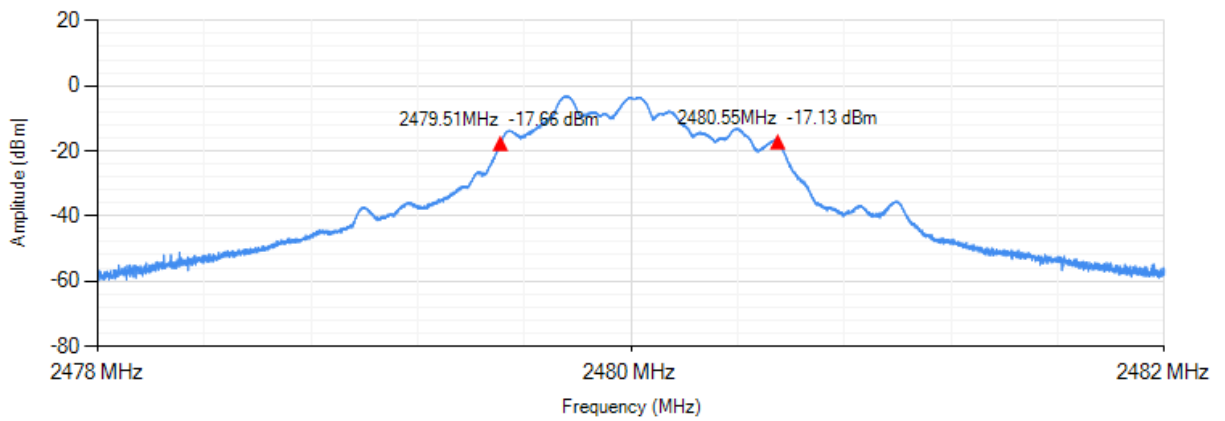
Occupied Channel Bandwidth



RBW: 50 KHz VBW: 100 KHz Sweep Points: 5001

Highest Channel

Occupied Channel Bandwidth



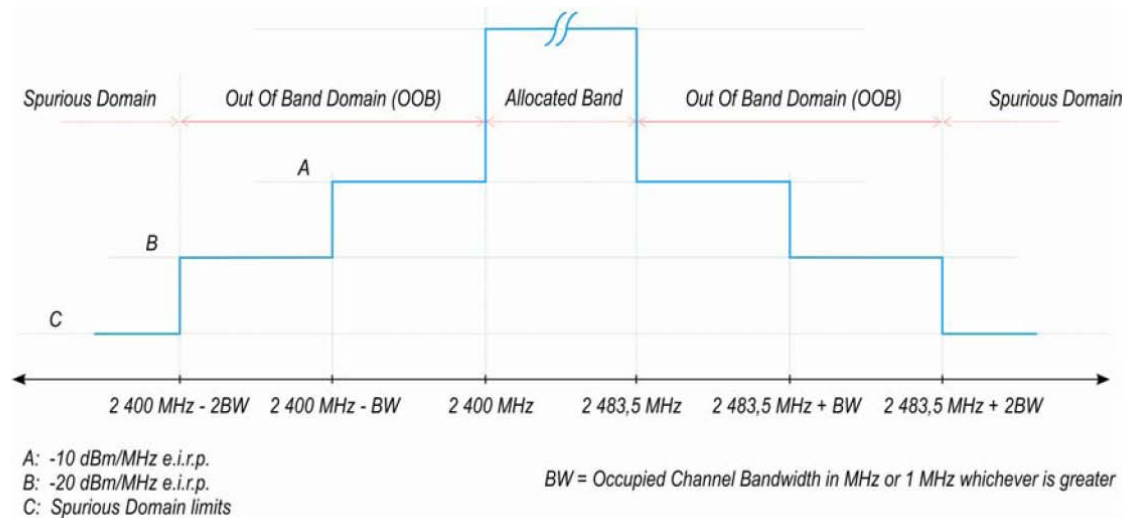
RBW: 50 KHz VBW: 100 KHz Sweep Points: 5001

10. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

Limits

The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask

Transmit mask

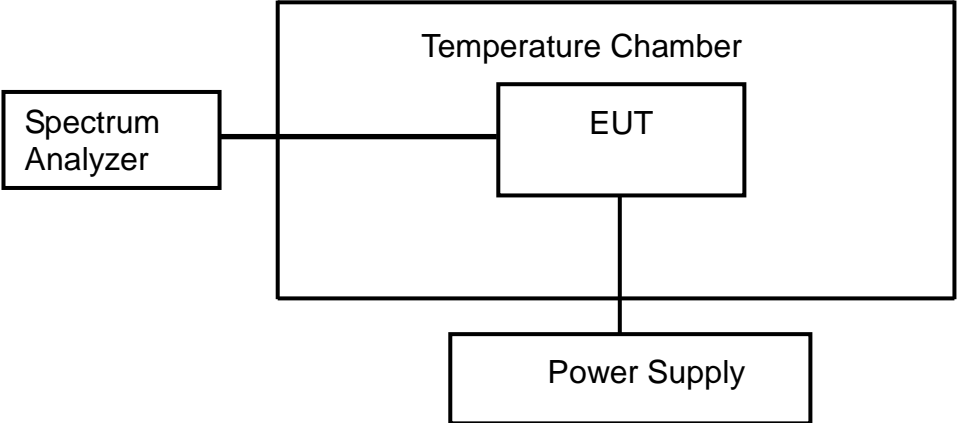


Test Method

1. Please refer to ETSI EN 300328 (V1.9.1) clause 5.3.9.2.1 for conducted measurement method.
2. The measurements shall be performed at both normal environmental conditions and at The extremes of the operating temperature range.

Test Configuration

Temperature and Voltage Measurement



Test Result

Pass.

Please refer to following data tables.

Temperature : 22 °C Humidity : 52%
 Test Date : December 15, 2016 Test Result: PASS
 RBW: 1MHz VBW: 3MHz
 Test By: Sance

Condition (°C)	Power Supplied	2400-BW~2400 / 2483.5+BW ~2483.5 (dBm/MHz)	Limit (dBm/MHz)	2400-2*BW~2400-BW / 2483.5+2*BW ~2483.5+BW (dBm/MHz)	Limit (dBm/MHz)	Result
BLE Mode (2402MHz)						
25	AC 230V	-34.884	-10	-48.894	-20	PASS
0	AC 230V	-34.891	-10	-48.896	-20	PASS
35	AC 230V	-34.889	-10	-48.914	-20	PASS
BLE Mode (2480MHz)						
25	AC 230V	-50.314	-10	-62.314	-20	PASS
0	AC 230V	-50.319	-10	-62.318	-20	PASS
35	AC 230V	-50.328	-10	-62.327	-20	PASS

11. TRANSMITTER SPURIOUS EMISSIONS

Limits:

The transmitter unwanted emissions in the spurious domain shall not exceed the values.

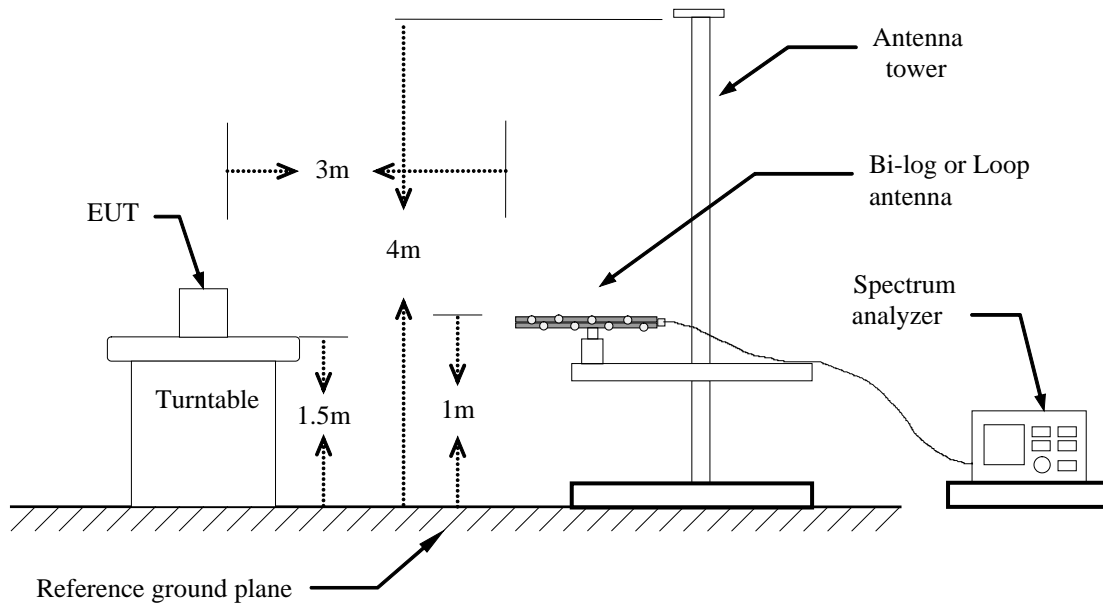
Frequency Range	Maximum power e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)	Bandwidth
30 MHz to 47MHz	-36 dBm	100KHz
47 MHz to 74MHz	-54 dBm	100KHz
74 MHz to 87.5MHz	-36 dBm	100KHz
87.5 MHz to 118MHz	-54 dBm	100KHz
118 MHz to 174MHz	-36 dBm	100KHz
174 MHz to 230MHz	-54 dBm	100KHz
230 MHz to 470MHz	-36 dBm	100KHz
470 MHz to 862MHz	-54 dBm	100KHz
862 MHz to 1GHz	-36 dBm	100KHz
1GHz to 12.75GHz	-30 dBm	1MHz

Test Method

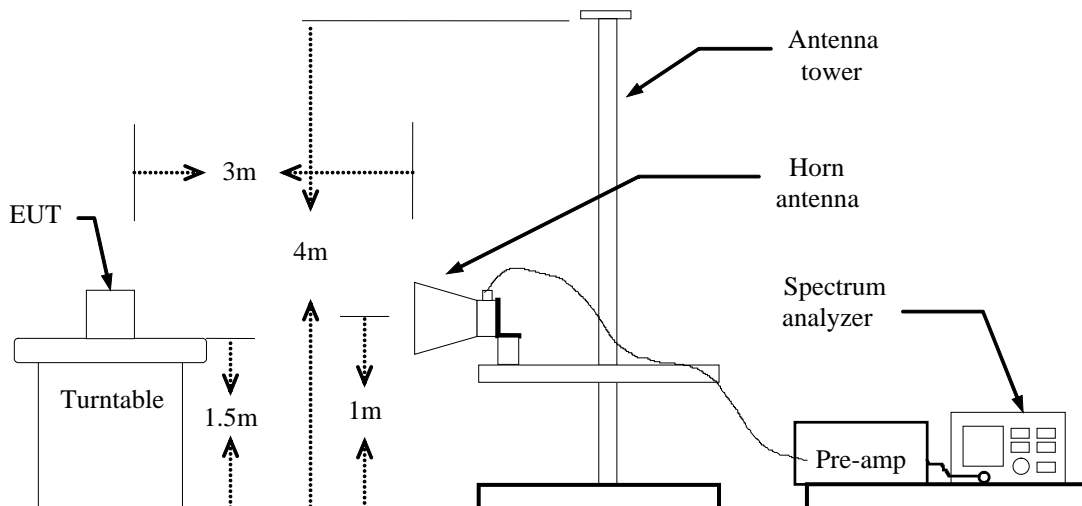
1. Please refer to ETSI EN 300328 (V_{1.9.1}) clause 5.3.10.2.2 for radiated measurement and clause 4.3.2.9 for conducted measurement method.
2. The measurements shall be performed at normal environmental condition.

Test Configuration

Below 1GHz



Above 1GHz



Test Result

Pass.

Please refer to following data tables of the worst case: Lowest channel.

Below 1GHz Lowest channel				
Humidity : 54 %		Temperature : 22 °C		
Test Result: PASS		Test By: Sance		
RBW: 100KHz		VBW: 300KHz		
Test Mode: TX				
Frequency (MHz)	Antenna Polarization	Emission level (dBm)	Limit (dBm)	Margin (dB)
62.0099	Vertical	-57.83	-54.00	-3.83
494.6299	Vertical	-63.62	-54.00	-9.62
598.4198	Vertical	-68.11	-54.00	-14.11

219.1500	Horizontal	-60.89	-54.00	-6.89
624.6100	Horizontal	-62.61	-54.00	-8.61

Above 1GHz Lowest channel				
Humidity : 54 %		Temperature : 22 °C		
Test Result: PASS		Test By: Sance		
RBW: 1MHz		VBW: 3MHz		
Test Mode: TX				
Frequency (MHz)	Antenna Polarization	Emission level (dBm)	Limit (dBm)	Margin (dB)
4804	Vertical	-44.73	-30	-14.73
7206	Vertical	-41.20	-30	-11.20

4804	Horizontal	-45.36	-30	-15.36
7206	Horizontal	-42.18	-30	-12.18

- Note:**
1. Emission Level (dBm) = Reading level (dBm)+Correction Factor (dB)
 2. Data of measurement within this frequency range shown “ ---” in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
 3. The Test frequency range is 30MHz to12.75GHz.

12. RECEIVER SPURIOUS EMISSIONS

Limits

Frequency Range	Maximum power e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)	Bandwidth
30 MHz to 1GHz	-57 dBm	100KHz
1GHz to 12.75GHz	-47 dBm	1MHz

Test Method

1. Please refer to ETSI EN 300328 (V_{1.9.1}) clause 5.3.11.2.2 for radiated measurement method.
2. The measurements shall be performed at normal environmental condition.

Test Configuration

(Same as section 11 in this test report)

Test Result

Pass.

Please refer to following data tables.

Below 1GHz Lowest channel				
Humidity : 54 %		Temperature : 22 °C		
Test Result: PASS		Test By: Sance		
RBW: 100KHz		VBW: 300KHz		
Test Mode: RX				
Frequency (MHz)	Antenna Polarization	Emission level (dBm)	Limit (dBm)	Margin (dB)
61.0399	Vertical	-60.91	-57.00	-3.91
129.9096	Vertical	-62.47	-57.00	-5.47
468.4399	Vertical	-63.90	-57.00	-6.90

216.2400	Horizontal	-61.92	-57.00	-4.92
289.9599	Horizontal	-61.28	-57.00	-4.28
416.0600	Horizontal	-60.52	-57.00	-3.52

Above 1GHz Lowest channel				
Humidity : 54 %		Temperature : 22 °C		
Test Result: PASS		Test By: Sance		
RBW: 1MHz		VBW: 3MHz		
Test Mode: RX				
Frequency (MHz)	Antenna Polarization	Emission level (dBm)	Limit (dBm)	Margin (dB)
4804	Vertical	-56.65	-47	-9.65
7206	Vertical	-53.12	-47	-6.12

4804	Horizontal	-56.39	-47	-9.39
7206	Horizontal	-53.18	-47	-6.18

- Note:**
1. Emission Level (dBm) = Reading level (dBm)+Correction Factor (dB)
 2. Data of measurement within this frequency range shown “ ---” in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
 3. The Test frequency range is 30MHz to12.75GHz.

13. TEST EQUIPMENT LIST

Description	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due Date
Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 07, 2016	Mar. 07, 2017
DC Power Source	HUA YI	HY5003-2	N/A	Nov.02, 2016	Nov.01, 2017
Temperature & Humidity Chamber	HAIDA	DH-225T	N/A	Nov.04, 2016	Nov.03, 2017
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 07, 2016	Mar. 07, 2017
Horn Antenna	COM-Power	AH-118	071078	Mar. 07, 2016	Mar. 07, 2017
Pre-Amplifier	COM-Power	PAM-118	443007	Mar. 07, 2016	Mar. 07, 2017
Broadband Antenna	Schwarzbeck	VULB9162	9162-010	Apr. 25, 2016	Apr. 25, 2017
Pre-Amplifier	Agilent	8449B	3008A02964	Mar. 07, 2016	Mar. 07, 2017
Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 07, 2016	Mar. 07, 2017
Power Sensor	DARE	RPR3006 W	15I00041SN O64	Mar. 07, 2016	Mar. 06, 2017
Test Software	Acentest	AT890-SW	N/A	N/A	N/A

APPENDIX I

INFORMATION AS REQUIRED BY EN 300 328 V1.9.1

In accordance with EN 300 328, clause 5.3.1, the following information is provided by the supplier.

a) The type of modulation used by the equipment:	<input type="checkbox"/> FHSS <input checked="" type="checkbox"/> other forms of modulation
b) In case of FHSS modulation:	<ul style="list-style-type: none"> • In case of non-Adaptive Frequency Hopping equipment: The number of Hopping Frequencies: _____ • In case of Adaptive Frequency Hopping Equipment: The maximum number of Hopping Frequencies: _____ The minimum number of Hopping Frequencies: _____ • The (Average) Dwell Time: _____
c) Adaptive / non-adaptive equipment:	<input type="checkbox"/> non-adaptive Equipment <input checked="" type="checkbox"/> adaptive Equipment without the possibility to switch to a non-adaptive mode <input type="checkbox"/> adaptive Equipment which can also operate in a non-adaptive mode
d) In case of adaptive equipment:	<p>The Channel Occupancy Time implemented by the equipment: _____ ms</p> <input type="checkbox"/> The equipment has implemented an LBT based DAA mechanism
e) In case of non-adaptive Equipment:	<p>• In case of equipment using modulation different from FHSS: <input type="checkbox"/> The equipment is Frame Based equipment <input checked="" type="checkbox"/> The equipment is Load Based equipment <input type="checkbox"/> The equipment can switch dynamically between Frame Based and Load Based equipment</p> <p>The CCA time implemented by the equipment: _____ μs</p> <input type="checkbox"/> The equipment has implemented an non-LBT based DAA mechanism <input type="checkbox"/> The equipment can operate in more than one adaptive mode
	<p>The maximum RF Output Power (e.i.r.p.): _____ dBm</p>
	<p>The maximum (corresponding) Duty Cycle: _____ %</p>
	<p>Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and orresponding power levels to be declared):</p>
f) The worst case operational mode for each of the following tests:	<ul style="list-style-type: none"> • RF Output Power <u>BLE CH0</u> • Power Spectral Density <u>BLE CH0</u> • Duty cycle, Tx-Sequence, Tx-gap <u>N/A</u> • Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment) <u>N/A</u> • Hopping Frequency Separation (only for FHSS equipment) _____ • Medium Utilisation <u>N/A</u> • Adaptivity & Receiver Blocking <u>N/A</u> • Nominal Channel Bandwidth <u>BLE CH0</u> • Transmitter unwanted emissions in the OOB domain <u>BLE CH0</u> • Transmitter unwanted emissions in the spurious domain <u>BLE CH0</u> • Receiver spurious emissions <u>BLE CH0</u>

g) The different transmit operating modes (tick all that apply):	<input checked="" type="checkbox"/> Operating mode 1: Single Antenna Equipment <input checked="" type="checkbox"/> Equipment with only 1 antenna <input type="checkbox"/> Equipment with 2 diversity antennas but only 1 antenna active at any moment in time <input type="checkbox"/> Smart Antenna Systems with 2 or more antennas, but operating in a (legacy) mode where only 1 antenna is used. (e.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)
	<input type="checkbox"/> Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming <input type="checkbox"/> Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode) <input type="checkbox"/> High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1 <input type="checkbox"/> High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2 NOTE: Add more lines if more channel bandwidths are supported.
	<input type="checkbox"/> Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming <input type="checkbox"/> Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode) <input type="checkbox"/> High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1 <input type="checkbox"/> High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2 NOTE: Add more lines if more channel bandwidths are supported.
h) In case of Smart Antenna Systems:	•The number of Receive chains: _____
	•The number of Transmit chains: _____ <input type="checkbox"/> symmetrical power distribution <input type="checkbox"/> asymmetrical power distribution
	In case of beam forming, the maximum beam forming gain: _____ NOTE: Beam forming gain does not include the basic gain of a single antenna.
i) Operating Frequency Range(s) of the equipment:	•Operating Frequency Range 1: <u>2402</u> MHz to <u>2480</u> MHz •Operating Frequency Range 2: _____ MHz to _____ MHz NOTE: Add more lines if more Frequency Ranges are supported.
j) Occupied Channel Bandwidth(s):	•Nominal Channel Bandwidth 1: <u>1030</u> KHz •Nominal Channel Bandwidth 2: _____ MHz NOTE: Add more lines if more channel bandwidths are supported.
k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.): Stand-alone	<input checked="" type="checkbox"/> Stand-alone <input type="checkbox"/> Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment) <input type="checkbox"/> Plug-in radio device (Equipment intended for a variety of host systems) <input type="checkbox"/> Other _____

<p>l) The extreme operating conditions that apply to the equipment:</p>	<p>Operating temperature range: <u> 0 </u> °C to <u> 35 </u> °C</p> <p>Details provided are for the:</p> <p><input checked="" type="checkbox"/> stand-alone equipment</p> <p><input type="checkbox"/> combined (or host) equipment</p> <p><input type="checkbox"/> test jig</p>																																								
<p>m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p levels:</p>	<p>•Antenna Type:</p> <p><input checked="" type="checkbox"/> PCB Antenna:</p> <p style="margin-left: 20px;">Antenna Gain: <u> 0.5 </u> dBi</p> <p>If applicable, additional beamforming gain (excluding basic antenna gain): <u> </u> dB</p> <p><input type="checkbox"/> Temporary RF connector provided</p> <p><input type="checkbox"/> No temporary RF connector provided</p> <hr/> <p><input type="checkbox"/> Dedicated Antennas (equipment with antenna connector)</p> <p><input type="checkbox"/> Single power level with corresponding antenna(s)</p> <p><input type="checkbox"/> Multiple power settings and corresponding antenna(s)</p> <p style="margin-left: 40px;">Number of different Power Levels: <u> </u></p> <p style="margin-left: 40px;">Power Level 1: <u> </u> dBm</p> <p style="margin-left: 40px;">Power Level 2: <u> </u> dBm</p> <p style="margin-left: 40px;">Power Level 3: <u> </u> dBm</p> <p>NOTE 1: Add more lines in case the equipment has more power levels.</p> <p>NOTE 2: These power levels are conducted power levels (at antenna connector).</p> <p>• For each of the Power Levels, provide the intended antenna assemblies, their corresponding gains (G) and the resulting e.i.r.p. levels also taking into account the beamforming gain (Y) if applicable</p> <p>Power Level 1: <u> </u></p> <p>Number of antenna assemblies provided for this power level:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">Assembly #</th> <th style="width: 20%;">Gain (dBi)</th> <th style="width: 20%;">e.i.r.p.(dBm)</th> <th style="width: 45%;">Part number or model name</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Note: Add more rows in case more antenna assemblies are supported for this power level.</p> <p>Power Level 2: <u> </u></p> <p>Number of antenna assemblies provided for this power level:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">Assembly #</th> <th style="width: 20%;">Gain (dBi)</th> <th style="width: 20%;">e.i.r.p.(dBm)</th> <th style="width: 45%;">Part number or model name</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Note: Add more rows in case more antenna assemblies are supported for this power level.</p>	Assembly #	Gain (dBi)	e.i.r.p.(dBm)	Part number or model name	1				2				3				4				Assembly #	Gain (dBi)	e.i.r.p.(dBm)	Part number or model name	1				2				3				4			
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2																					
3																					
4																					
<p>n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:</p>	<p>Details provided are for the: <input type="checkbox"/> stand-alone equipment <input checked="" type="checkbox"/> combined (or host) equipment <input type="checkbox"/> test jig</p> <p>Supply Voltage <input checked="" type="checkbox"/> AC mains State AC voltage _____ 230 _____ V <input type="checkbox"/> DC State DC voltage _____ V</p> <p>In case of DC, indicate the type of power source</p> <p><input type="checkbox"/> Internal Power Supply <input type="checkbox"/> External Power Supply or AC/DC adapter <input type="checkbox"/> Battery <input type="checkbox"/> Other: _____</p>																				
<p>o) Describe the test modes available which can facilitate testing:</p>	<p>The EUT provides TX Mode to control RF signal transmission</p>																				
<p>p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], proprietary, etc.):</p>	<p>Bluetooth®</p>																				
<p>q) If applicable, the statistical analysis referred to in clause 5.3.1 q)</p>	<p>(to be provided as separate attachment)</p>																				
<p>r) If applicable, the statistical analysis referred to in clause 5.3.1 r)</p>	<p>(to be provided as separate attachment)</p>																				
<p>s) Geo-location capability supported by the equipment:</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user. <input type="checkbox"/> No</p>																				

E.2 Combination for testing	Highest overall e.i.r.p. value: <u> 1.78 </u> dBm
	Corresponding Antenna assembly gain: <u> 0.5 </u> dBi
	Corresponding conducted power setting: (also the power level to be used for testing) _____ dBm
	Antenna Assembly # _____
	Listed as Power Setting #: _____
E.3 Additional information provided by the applicant	
E.3.1 Modulation:	ITU Class(es) of emission: <u> DSSS </u> Can the transmitter operate unmodulated? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
E.3.2 Duty Cycle	The transmitter is intended for: <input type="checkbox"/> Continuous duty <input type="checkbox"/> Intermittent duty <input checked="" type="checkbox"/> Continuous operation possible for testing purposes
E.3.3 About the UUT	<input checked="" type="checkbox"/> The equipment submitted are representative production models <input type="checkbox"/> If not, the equipment submitted are pre-production models ? <input type="checkbox"/> If pre-production equipment are submitted, the final production equipment will be identical in all respects with the equipment tested <input type="checkbox"/> If not, supply full details <input checked="" type="checkbox"/> The equipment submitted is CE marked <input type="checkbox"/> In addition to the CE mark, the Class-II identifier (Alert Sign) is affixed.
E.3.4 Additional items and/or supporting equipment provided	<input type="checkbox"/> Spare batteries (e.g. for portable equipment) <input type="checkbox"/> Battery charging device <input type="checkbox"/> External Power Supply or AC/DC adapter <input type="checkbox"/> Test Jig or interface box <input type="checkbox"/> RF test fixture (for equipment with integrated antennas) <input type="checkbox"/> Host System Manufacturer: _____ Model #: _____ Model name: _____ <input type="checkbox"/> Combined equipment Manufacturer: _____ Model #: _____ Model name: _____ <input checked="" type="checkbox"/> User Manual <input checked="" type="checkbox"/> Technical documentation (Handbook and circuit diagrams)

APPENDIX II

PHOTOGRPHS OF TEST SETUP

Radiated Emission Below 1 GHz



Radiated Emission Above 1 GHz



---End---