FCC TEST REPORT

For

XIAMEN RONGTA TECHNOLOGY CO.,LTD.

Mobile Printer

Model No.: RPP300

Additional model No.: RPP200, RPP200WBU, RPP300BU, RPP300WBU

Prepared for : XIAMEN RONGTA TECHNOLOGY CO.,LTD.

Address : 3F-1/E Building, No. 195 Gaoqishe, Gaodian Village, Dianqian Street

Office, Huli District, Xiamen City, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Date of receipt of test sample : January 23, 2015

Number of tested samples : 1

Serial number : Prototype

Date of Test : January 23, 2015 – February 04, 2015

Date of Report : February 04, 2015

FCC TEST REPORT FCC CFR 47 PART 15 C(15.247): 2014

Report Reference No.: LCS1501230950E

Date of Issue: February 04, 2015

Testing Laboratory Name......: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure......: Full application of Harmonised standards

Partial application of Harmonised standards \Box

Other standard testing method \square

Applicant's Name.....: XIAMEN RONGTA TECHNOLOGY CO.,LTD.

Address: 3F-1/E Building, No. 195 Gaoqishe, Gaodian Village, Diangian

Street Office, Huli District, Xiamen City, China

Test Specification

Standard: FCC CFR 47 PART 15 C(15.247): 2014

Test Report Form No.....: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.: : Mobile Printer

Trade Mark: RONGTA

Model/ Type reference.....: RPP300

Ratings: DC 7.4 V by battery 14.8Wh

Result: Positive

Compiled by:

Supervised by:

Approved by:

Jacky Li/ File administrators

Danny Huang/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No.: LCS1501230950E

February 04, 2015

Date of issue

Type / Model..... : RPP300 : Mobile Printer Applicant..... : XIAMEN RONGTA TECHNOLOGY CO.,LTD. 3F-1/E Building, No. 195 Gaoqishe, Gaodian Village, Dianqian Street Address..... Office, Huli District, Xiamen City, China Telephone..... Fax..... : XIAMEN RONGTA TECHNOLOGY CO.,LTD. Manufacturer..... : 3F-1/E Building, No. 195 Gaoqishe, Gaodian Village, Dianqian Street Address..... Office, Huli District, Xiamen City, China Telephone..... Fax..... : XIAMEN RONGTA TECHNOLOGY CO.,LTD. Factory..... Address..... : 3F-1/E Building, No. 195 Gaoqishe, Gaodian Village, Dianqian Street Office, Huli District, Xiamen City, China Telephone..... Fax.....

D-10		The Thirty		
700	Test Result	Test Test	Positive	
TO 100 TO		4 65		

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

TABLE OF CONTENTS

1.1. DESCRIPTION OF DEVICE (EUT) 5 1.2. HOST SYSTEM CONFIGURATION LIST AND DETAILS 5 1.3. EXTERNAL I/O CABLE 6 1.4. DESCRIPTION OF TEST FACILITY 6 1.5. STATEMENT OF THE MEASUREMENT UNCERTAINTY 7 1.7. DESCRIPTION OF TEST MODES 7 2. TEST METHODOLOGY 9 2.1. EUT CONFIGURATION 9 2.2. EUT EXERCISE 9 2.3. GENERAL TEST PROCEDURES 9 3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12 5.2. POWER SPECTRAL DENSITY MEASUREMENT 14
1.3. External I/O Cable 6 1.4. Description of Test Facility 6 1.5. Statement of The Measurement Uncertainty 6 1.6. Measurement Uncertainty 7 1.7. Description Of Test Modes 7 2. TEST METHODOLOGY 9 2.1. EUT Configuration 9 2.2. EUT Exercise 9 2.3. General Test Procedures 9 3. SYSTEM TEST CONFIGURATION 10 3.1. Justification 10 3.2. EUT Exercise Software 10 3.3. Special Accessories 10 3.4. Block Diagram/Schematics 10 3.5. Equipment Modifications 10 3.6. Test Setup 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. Maximum Conducted Output Power Measurement 12
1.4. DESCRIPTION OF TEST FACILITY 6 1.5. STATEMENT OF THE MEASUREMENT UNCERTAINTY 6 1.6. MEASUREMENT UNCERTAINTY 7 1.7. DESCRIPTION OF TEST MODES 7 2. TEST METHODOLOGY 9 2.1. EUT CONFIGURATION 9 2.2. EUT EXERCISE 9 2.3. GENERAL TEST PROCEDURES 9 3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
1.5. STATEMENT OF THE MEASUREMENT UNCERTAINTY 6 1.6. MEASUREMENT UNCERTAINTY 7 1.7. DESCRIPTION OF TEST MODES 7 2. TEST METHODOLOGY 9 2.1. EUT CONFIGURATION 9 2.2. EUT EXERCISE 9 2.3. GENERAL TEST PROCEDURES 9 3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
1.6. Measurement Uncertainty 7 1.7. Description Of Test Modes 7 2. TEST METHODOLOGY 9 2.1. EUT Configuration 9 2.2. EUT Exercise 9 2.3. General Test Procedures 9 3. SYSTEM TEST CONFIGURATION 10 3.1. Justification 10 3.2. EUT Exercise Software 10 3.3. Special Accessories 10 3.4. Block Diagram/Schematics 10 3.5. Equipment Modifications 10 3.6. Test Setup 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. Maximum Conducted Output Power Measurement 12
1.7. DESCRIPTION OF TEST MODES 7 2. TEST METHODOLOGY 9 2.1. EUT CONFIGURATION 9 2.2. EUT EXERCISE 9 2.3. GENERAL TEST PROCEDURES 9 3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
2. TEST METHODOLOGY 9 2.1. EUT CONFIGURATION 9 2.2. EUT EXERCISE 9 2.3. GENERAL TEST PROCEDURES 9 3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
2.1. EUT CONFIGURATION 9 2.2. EUT EXERCISE 9 2.3. GENERAL TEST PROCEDURES 9 3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
2.2. EUT EXERCISE 9 2.3. GENERAL TEST PROCEDURES 9 3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
2.3. GENERAL TEST PROCEDURES 9 3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
3. SYSTEM TEST CONFIGURATION 10 3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
3.1. JUSTIFICATION 10 3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
3.2. EUT EXERCISE SOFTWARE 10 3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
3.3. SPECIAL ACCESSORIES 10 3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
3.4. BLOCK DIAGRAM/SCHEMATICS 10 3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
3.5. EQUIPMENT MODIFICATIONS 10 3.6. TEST SETUP 10 4. SUMMARY OF TEST RESULTS 11 5. TEST RESULT 12 5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 12
3.6. TEST SETUP
5. TEST RESULT
5. TEST RESULT
5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT
5.1. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT
5.3. 6 DB SPECTRUM BANDWIDTH MEASUREMENT 20
5.4. OCCUPIED BANDWIDTH MEASUREMENT 26
5.5. RADIATED EMISSIONS MEASUREMENT 28
5.6. CONDUCTED SPURIOUS EMISSIONS AND BAND EDGES TEST
5.7. POWER LINE CONDUCTED EMISSIONS 50
5.8. Antenna Requirements
6. LIST OF MEASURING EQUIPMENTS53
7. MANUFACTURER/ APPROVAL HOLDER DECLARATION54

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Mobile Printer

Model Number : RPP300

Power Supply : DC 7.4 V by battery 14.8Wh

Frequency Range : 2412.00~2462.00MHz for WIFI

2402.00~2480.00MHz for BT

Channel Spacing : 5MHz for WIFI; 1MHz for BT V3.0; 2MHz for BT V4.0

Channel Number : 11 Channels for WIFI 20MHz Bandwidth

79 Channels for BT V3.0 40 Channels for BT V4.0

Modulation Technology: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK)

GFSK, π /4-DQPSK, 8-DPSK for BT V3.0

GFSK for BT V4.0

Data Rates : IEEE 802.11b: 1-11Mbps

IEEE 802.11g: 6-54Mbps IEEE 802.11n: MCS0-MCS7

BT V4.0: 1 Mbps, 2 Mbps, 3 Mbps

BT V4.0: 1 Mbps

Antenna Type And Gain: PCB antenna, 1.5dBi(Max.)

1.2. Host System Configuration List and Details

	Manufacturer	Description	Model	Serial Number	Certificate
3	- CS	183-	P. 22 P.	- 1 m	1/52

1.3. External I/O Cable

	Cable Description	Length (M)	From/Port	То
3	DC	1.0	DC	DC
23	USB	1.0	USB	USB

1.4. Description of Test Facility

Site Description

EMC Lab.

: Accredited by CNAS, June 04, 2010

The Certificate Registration Number. is L4595.

Accredited by FCC, July 14, 2011

The Certificate Registration Number. is 899208.

Accredited by Industry Canada, May. 02, 2011 The Certificate Registration Number. is 9642A-1

Accredited by VCCI, Japan January 30, 2012

The Certificate Registration Number. is C-4260 and R-3804

Accredited by ESMD, April 24, 2012

The Certificate Registration Number. is ARCB0108.

Accredited by UL, June 11, 2012

The Certificate Registration Number. is 100571-492.

Accredited by TUV, November 21, 2012

The Certificate Registration Number. is SCN1081

Accredited by Intertek, December 21, 2012

The Certificate Registration Number. is 2011-RTL-L1-50.

1.5. Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
123	28	9KHz~30MHz	±3.10dB	(1)
3 63	1	30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty		200MHz~1000MHz	±3.10dB	(1)
(3)		1GHz~26.5GHz	±3.80dB	(1)
133		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description Of Test Modes

The EUT has been tested under operating condition.

The EUT works in the X-axis.

Worst-case mode and channel used for 150kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, that was determined to be 802.11b mode(Middle Channel).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be 802.11b mode(Middle Channel).

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

802.11b Mode: 1 Mbps, DSSS. 802.11g Mode: 6 Mbps, OFDM. 802.11n Mode HT20:.MCS0, OFDM.

Channel List & Frequency 802.11b/g/n(HT20)

Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
(3)	Lass	2412	7 3 7	2442
NES NE	3 2 3	2417	8	2447
2412 2462MHz	3	2422	9	2452
2412~2462MHz	3 4	2427	10	2457
133 133	5	2432	11,3	2462
	6	2437	To all	135

BT V4.0

Mode of Operations	Fred	Frequency Range		Data Rate	
		(MHz)		(Mbps)	
(3)	3	2402	63	3331	Res
GFSK	2440		183	1	
35 K. 63	(3)	2480	(35)	13	Bo
	For Cond	ucted Emissio	n		
Test Mode	133	135	TX M	Iode)
	For Radi	ated Emission	1		
Test Mode	1350	Res	TX M	Iode	35

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 DTS Meas. Guidance v03r02 and KDB 6622911 are required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmit condition. The duty cycle is 100% and the average correction factor is 0.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Result		
§15.247(b)	Maximum Conducted Output Power	Compliant		
§15.247(e)	Power Spectral Density	Compliant		
§15.247(a)(2)	6dB Bandwidth	Compliant		
§15.247(a)	Occupied Bandwidth	Compliant		
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	Compliant		
§15.205	Emissions at Restricted Band	Compliant		
§15.207(a)	Conducted Emissions	Compliant		
§15.203	Antenna Requirements	Compliant		
§15.247(i) §2.1093	RF Exposure	Compliant		

5. TEST RESULT

5.1. Maximum Conducted Output Power Measurement

5.1.1. Standard Applicable

According to §15.247(b): For systems using digital modulation in the 2400-2483.5 MHz and 5725-5850 MHz band, the limit for maximum peak conducted output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter peak output power.

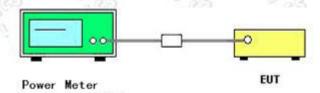
5.1.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the power meter.

5.1.3. Test Procedures

The transmitter output (antenna port) was connected to the power meter.

5.1.4. Test Setup Layout



5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Test Result of Maximum Conducted Output Power

Temperature	25°C	Humidty	60%
Test Engineer	Jacky	Configurations	802.11b/g/n & BLE

802.11b

Channel	Frequency (MHz)	Conducted Average Power (dBm)	Max. Limit (dBm)	Result
123	2412	8.26	30	Complies
6	2437	8.37	30	Complies
11	2462	8.19	30	Complies

802.11g

Channel	Frequency (MHz)	Conducted Average Power (dBm)	Max. Limit (dBm)	Result
13	2412	7.56	30	Complies
6	2437	7.32	30	Complies
11)	2462	7.64	30	Complies

802.11n HT20

Channel	Frequency (MHz)	Conducted Average Power (dBm)	Max. Limit (dBm)	Result
BEP.	2412	7.45	30	Complies
6	2437	7.28	30	Complies
11, 3	2462	7.36	30	Complies

BT V4.0

Channel	Frequency (MHz)	Conducted Average Power (dBm)	Max. Limit (dBm)	Result
3 2 3	2402	-1.54	30	Complies
19	2440	-1.49	30	Complies
40	2480	-1.28	30	Complies

5.2. Power Spectral Density Measurement

5.2.1. Standard Applicable

According to §15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of Spectrum Analyzer.

5.2.3. Test Procedures

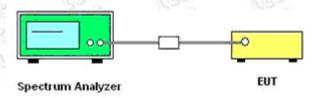
802.11b/g/n

- 1. The transmitter was connected directly to a Spectrum Analyzer through a directional couple.
- 2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
- 3. Set the RBW = 3 kHz.
- 4. Set the VBW > 3*RBW
- 5. Set the span to 1.5 times the DTS channel bandwidth.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum power level in any 3 kHz band segment within the fundamental EBW.

BLE

- 1. The transmitter was connected directly to a Spectrum Analyzer through a directional couple.
- 2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
- 3. Set the RBW = 3 kHz.
- 4. Set the VBW $\geq 3*RBW$
- 5. Set the span to 1.5 times the DTS channel bandwidth.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum power level in any 3 kHz band segment within the fundamental EBW.

5.2.4. Test Setup Layout



5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Test Result of Power Spectral Density

Temperature	25°C	Humidity	60%
Test Engineer	Jakcy	Configurations	802.11b/g/n & BLE

802.11b

(Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
S	1	2412	-17.374	8	Complies
Pigo	6	2437	-17.304	8	Complies
110	11	2462	-17.862	8	Complies

802.11g

Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
1333	2412	-26.863	8	Complies
6	2437	-26.823	8	Complies
28 11 E	2462	-27.438	8	Complies

802.11n HT20

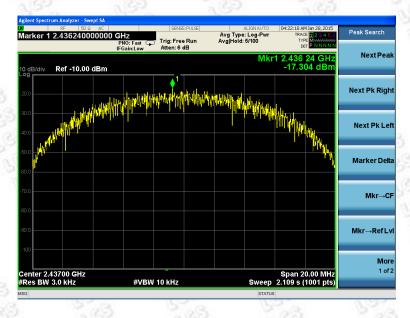
Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
31	2412	-26.612	8	Complies
6	2437	-26.325	8	Complies
11 3	2462	-26.634	8	Complies

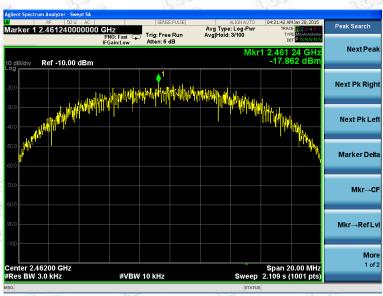
BT V4.0

Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
331	2402	-15.762	8	Complies
19	2440	-15.492	8	Complies
40	2480	-15.427	8 25	Complies

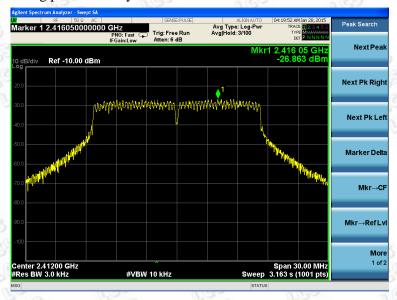
802.11b power density

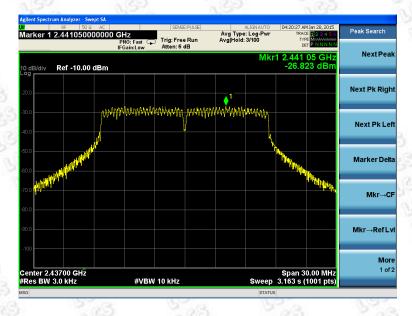


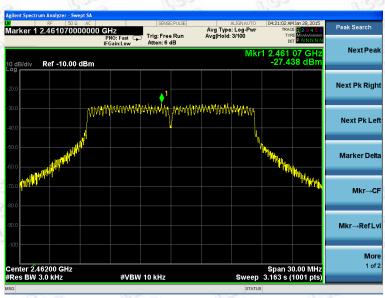




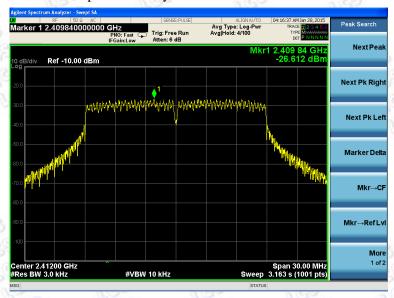
802.11g power density

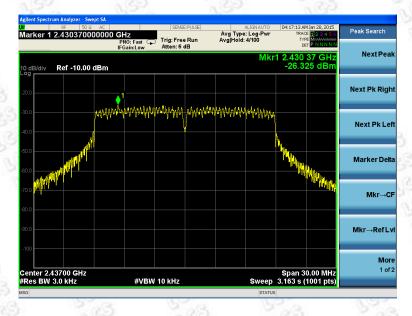


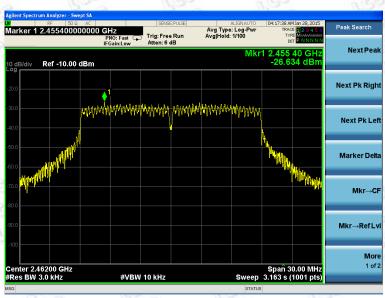




802.11n HT20 power density

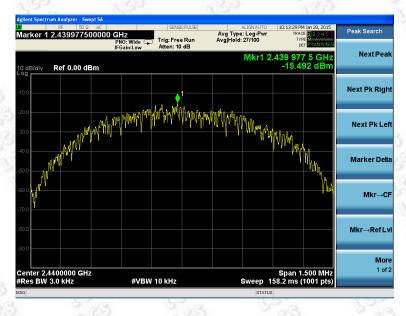


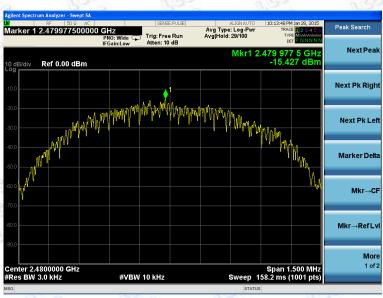




BLE power density







5.3. 6 dB Spectrum Bandwidth Measurement

5.3.1. Standard Applicable

According to §15.247(a)(2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

5.3.2. Measuring Instruments and Setting

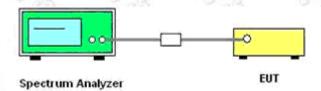
Please refer to section 6 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting	23	6.83	13.25
Attenuation	Auto	33	5,63	7.3
Span Frequency	> RBW	165	183	33
Detector	Peak	657	133	7,63
Trace	Max Hold	(180)	7,35	1,35
Sweep Time	100ms	17.35	J. C.	1,5

5.3.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- 2. The resolution bandwidth and the video bandwidth were set according to KDB558074.
- 3. Measured the spectrum width with power higher than 6dB below carrier.

5.3.4. Test Setup Layout



5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.6. Test Result of 6dB Spectrum Bandwidth

0	Temperature	2 5°C	Humidity	60%
9	Test Engineer	Jacky	Configurations	802.11b/g/n & BLE

802.11b

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (MHz)	Result
1,35	2412	10.18	0.5	Complies
6	2437	10.18	0.5	Complies
11	2462	10.18	0.5	Complies

802.11g

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (MHz)	Result
123	2412	16.55	0.5	Complies
6	2437	16.53	0.5	Complies
11	2462	16.56	0.5	Complies

802.11n HT20

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (MHz)	Result
150	2412	17.72	0.5	Complies
6	2437	17.71	0.5	Complies
11	2462	17.70	0.5	Complies

BT V4.0

Channel	Frequency	6dB Bandwidth	Min. Limit	Result
3 110111101	, ,	(kHz)	(kHz)	
3 1 S	2402	659.90	500	Complies
19	2440	661.60	500	Complies
40	2480	661.00	500	Complies

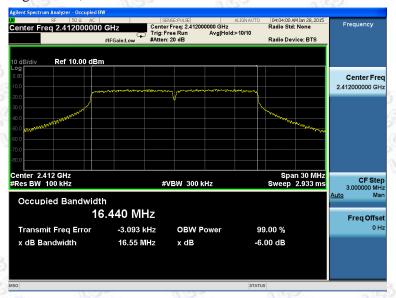
802.11b channel, 6dB bandwidth







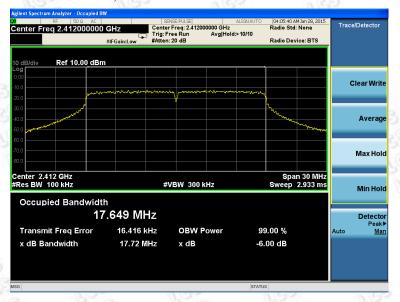
802.11g channel, 6dB bandwidth



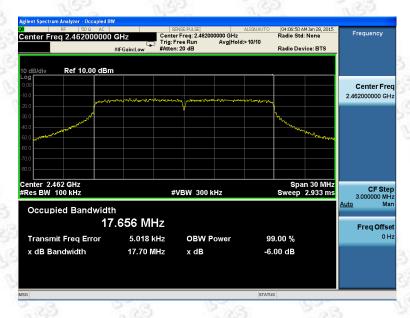




802.11n HT20 channel, 6dB bandwidth







BT V4.0, 6dB bandwidth







5.4. Occupied Bandwidth

5.4.1. Standard Applicable

According to §15.247(a): Operation under the provisions of this section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

For systems using digital modulation techniques, the EUT may operate in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

5.4.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

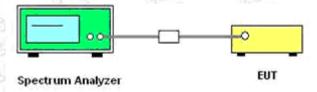
Spectrum Parameter	Setting	
Attenuation	Auto	Be
Span Frequency	> RBW	B
RBW	1% to 5% of the bandwidth	
VBW	3 times the RBW	
Detector	Peak	-5
Trace	Max Hold	5
Sweep Time	100ms	55

5

5.4.3. Test Procedures

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 5% of the bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal bandwidth measurement function is utilized.

5.4.4. Test Setup Layout



5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Test Result of 99% Occupied Bandwidth.

Temperature	25°C	Humidity	60%
Test Engineer	Jacky	Configurations	802.11b/g/n/BT V4.0

802.11b

Channel	Frequency	99% OBW
Channe	(MHz)	(MHz)
્રહેંગ ્ર	2412	14.6200
6	2437	14.6610
11	2462	14.6840

802.11g

Channel	Frequency	99% OBW	
Channel	(MHz)	(MHz)	
1 3 1 3 S	2412	16.4400	
6	2437	16.4410	
(£11 (£3	2462	16.4500	

802.11n HT20

Channal	Frequency	99% OBW (MHz)	
Channel	(MHz)		
1 33	2412	17.6490	
6	2437	17.6550	
(3 11 (3)	2462	17.6560	

BT V4.0

	Frequency	99% OBW	
Channel	(MHz)	(MHz)	
150	2402	1.0265	
19	2440	1.0268	
40	2480	1.0275	

Test plot: Please refer to clause 5.3.6

5.5. Radiated Emissions Measurement

5.5.1. Standard Applicable

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies(MHz)	Field Strength(microvolts/meter)	Measurement Distance(meters)	
0.009~0.490	2400/F(KHz)	300	
0.490~1.705	24000/F(KHz)	30	
1.705~30.0	30	30	
30~88	100	<u>(3</u> 3	
88~216	150	3 3	
216~960	200	3	
Above 960	500	3	

5.5.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

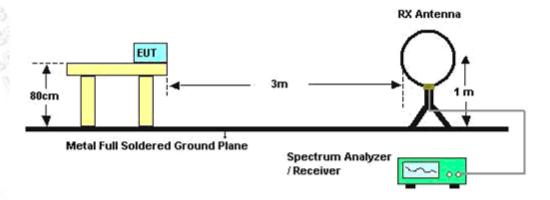
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

5.5.3. Test Procedures

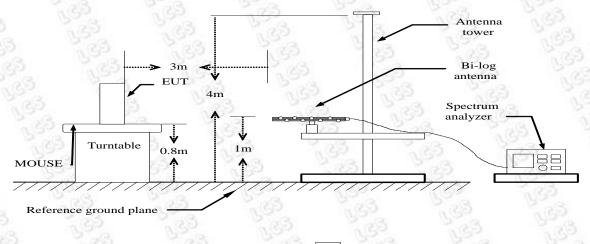
- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.

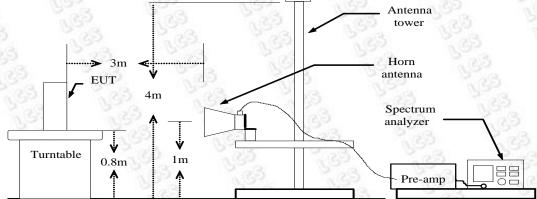
- 4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.
- 5.5.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz





Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distanc [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.5.6. Results of Radiated Emissions (9kHz~30MHz)

	Temperature	25°C	Humidty	60%
1	Test Engineer	Jacky	Configurations	802.11b/g/n & BLE

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
1150	- 1850 - 1850	135	133	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

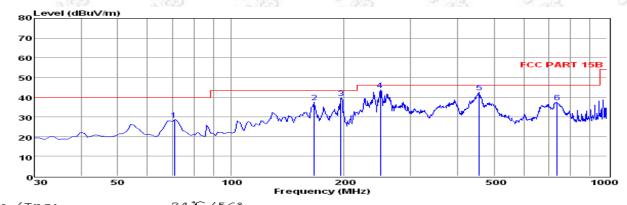
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

5.5.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	25°C	Humidty	60%
Test Engineer	Jacky	Configurations	802.11b (Middle CH)

Test result for 802.11b (Middle Channel)



Env./Ins: EUT: M/N: Power Rating: Test Mode: Operator:

pol:

Mobile Printer RPP300 AC 120V/60Hz

802.11B-Middle channel Jacky

ласку

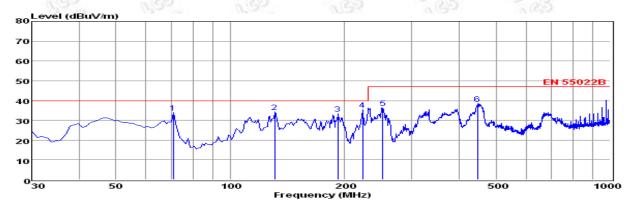
HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dВ	
1	70.74	19.34	0.55	8.52	28.41	40.00	-11.59	QP
2	166.77	27.86	0.77	8.87	37.50	43.50	-6.00	QP
3	195.87	27.97	0.96	10.57	39.50	43.50	-4.00	QP
4	249.22	30.68	1.02	12.07	43.77	46.00	-2.23	QP
5	456.80	25.79	1.26	15.59	42.64	46.00	-3.36	QP
6	736.16	16.55	1.66	19.26	37.47	46.00	-8.53	QP

Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: EUT: M/N: Power Rating: Test Mode: Operator: Memo:

pol:

24°C/56% Mobile Printer RPP300 AC 230V/50Hz TM1 Jackv

VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark	
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ		
1	70.74	24.97	0.55	8.52	34.04	40.00	-5.96	Peak	
2	130.88	24.43	0.76	8.86	34.05	40.00	-5.95	Peak	
3	191.99	21.94	0.76	10.56	33.26	40.00	-6.74	Peak	
4	223.03	23.09	0.95	11.33	35.37	40.00	-4.63	Peak	
5	252.13	23.41	0.90	12.07	36.38	47.00	-10.62	Peak	
6	447.10	21.29	1.42	15.57	38.28	47.00	-8.72	Peak	

Note: 1. All readings are Quasi-peak values.

Note:

Pre-scan all mode and recorded the worst case results in this report (802.11b (Middle Channel)). Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

^{2.} Measured= Reading + Antenna Factor + Cable Loss

^{3.} The emission that ate 20db blow the offficial limit are not reported

5.5.8. Results for Radiated Emissions (Above 1GHz)

802.11b

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	57.75	33.06	35.04	3.94	59.71	74	-14.29	Peak	Horizontal
4824.00	40.40	33.06	35.04	3.94	42.36	54	-11.64	Average	Horizontal
4824.00	56.14	33.06	35.04	3.94	58.10	74	-15.90	Peak	Vertical
4824.00	39.29	33.06	35.04	3.94	41.25	54	-12.75	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	57.44	33.16	35.15	3.96	59.41	74	-14.59	Peak	Horizontal
4874.00	40.12	33.16	35.15	3.96	42.09	54	-11.91	Average	Horizontal
4874.00	56.55	33.16	35.15	3.96	58.52	74	-15.48	Peak	Vertical
4874.00	39.46	33.16	35.15	3.96	41.43	54	-12.57	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	57.22	33.26	35.14	3.98	59.32	74	-14.68	Peak	Horizontal
4924.00	39.93	33.26	35.14	3.98	42.03	54	-11.97	Average	Horizontal
4924.00	56.01	33.26	35.14	3.98	58.11	74	-15.89	Peak	Vertical
4924.00	39.32	33.26	35.14	3.98	41.42	54	-12.58	Average	Vertical

802.11g

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	56.16	33.06	35.04	3.94	58.12	74	-15.88	Peak	Horizontal
4824.00	39.40	33.06	35.04	3.94	41.36	54	-12.64	Average	Horizontal
4824.00	54.09	33.06	35.04	3.94	56.05	74	-17.95	Peak	Vertical
4824.00	38.18	33.06	35.04	3.94	40.14	54	-13.86	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	56.79	33.16	35.15	3.96	58.76	74	-15.24	Peak	Horizontal
4874.00	39.08	33.16	35.15	3.96	41.05	54	-12.95	Average	Horizontal
4874.00	54.15	33.16	35.15	3.96	56.12	74	-17.88	Peak	Vertical
4874.00	38.37	33.16	35.15	3.96	40.34	54	-13.66	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	56.68	33.26	35.14	3.98	58.78	74	-15.22	Peak	Horizontal
4924.00	38.92	33.26	35.14	3.98	41.02	54	-12.98	Average	Horizontal
4924.00	54.05	33.26	35.14	3.98	56.15	74	-17.85	Peak	Vertical
4924.00	38.35	33.26	35.14	3.98	40.45	54	-13.55	Average	Vertical

802.11n HT20

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	56.16	33.06	35.04	3.94	58.12	74	-15.88	Peak	Horizontal
4824.00	39.78	33.06	35.04	3.94	41.74	54	-12.26	Average	Horizontal
4824.00	54.67	33.06	35.04	3.94	56.63	74	-17.37	Peak	Vertical
4824.00	38.18	33.06	35.04	3.94	40.14	54	-13.86	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	56.25	33.16	35.15	3.96	58.22	74	-15.78	Peak	Horizontal
4874.00	39.06	33.16	35.15	3.96	41.03	54	-12.97	Average	Horizontal
4874.00	54.44	33.16	35.15	3.96	56.41	74	-17.59	Peak	Vertical
4874.00	38.59	33.16	35.15	3.96	40.56	54	-13.44	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	56.17	33.26	35.14	3.98	58.27	74	-15.73	Peak	Horizontal
4924.00	39.20	33.26	35.14	3.98	41.30	54	-12.70	Average	Horizontal
4924.00	54.68	33.26	35.14	3.98	56.78	74	-17.22	Peak	Vertical
4924.00	38.35	33.26	35.14	3.98	40.45	54	-13.55	Average	Vertical

BT V4.0

Channel 1

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	56.66	33.06	35.04	3.94	58.62	74	-15.38	Peak	Horizontal
4804.00	39.09	33.06	35.04	3.94	41.05	54	-12.95	Average	Horizontal
4804.00	54.16	33.06	35.04	3.94	56.12	74	-17.88	Peak	Vertical
4804.00	37.41	33.06	35.04	3.94	39.37	54	-14.63	Average	Vertical

Channel 20

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.00	56.87	33.16	35.15	3.96	58.84	74	-15.16	Peak	Horizontal
4880.00	39.06	33.16	35.15	3.96	41.03	54	-12.97	Average	Horizontal
4880.00	54.15	33.16	35.15	3.96	56.12	74	-17.88	Peak	Vertical
4880.00	37.48	33.16	35.15	3.96	39.45	54	-14.55	Average	Vertical

Channel 40

	Ciluinici	. 10							
Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	56.26	33.26	35.14	3.98	58.36	74	-15.64	Peak	Horizontal
4960.00	38.93	33.26	35.14	3.98	41.03	54	-12.97	Average	Horizontal
4960.00	54.32	33.26	35.14	3.98	56.42	74	-17.58	Peak	Vertical
4960.00	37.77	33.26	35.14	3.98	39.87	54	-14.13	Average	Vertical

Notes:

- 1. Measuring frequencies from 9k~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2. Radiated emissions measured in frequency range from 9k~10th harmonic or 40GHz (which is less) were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5.5.9. Results of Band Edges Test (Radiated)

802.11b

Tx-2412

17-2-12								
Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
52.96	32.89	35.16	3.51	54.20	74	-19.8	Peak	Horizontal
36.99	32.89	35.16	3.51	38.23	54	-15.77	Average	Horizontal
57.15	32.92	35.16	3.54	58.45	74	-15.55	Peak	Horizontal
40.48	32.92	35.16	3.54	41.78	54	-12.22	Average	Horizontal
51.78	32.89	35.16	3.51	53.02	74	-20.98	Peak	Vertical
37.17	32.89	35.16	3.51	38.41	54	-15.59	Average	Vertical
55.95	32.92	35.16	3.54	57.25	74	-16.75	Peak	Vertical
39.33	32.92	35.16	3.54	40.63	54	-13.37	Average	Vertical
	Readin g Level dBuV 52.96 36.99 57.15 40.48 51.78 37.17 55.95	Readin g Level dBuV Ant. Fac. dB/m 52.96 32.89 36.99 32.89 57.15 32.92 40.48 32.92 51.78 32.89 37.17 32.89 55.95 32.92	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB 52.96 32.89 35.16 36.99 32.89 35.16 57.15 32.92 35.16 40.48 32.92 35.16 51.78 32.89 35.16 37.17 32.89 35.16 55.95 32.92 35.16	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB 52.96 32.89 35.16 3.51 36.99 32.89 35.16 3.51 57.15 32.92 35.16 3.54 40.48 32.92 35.16 3.54 51.78 32.89 35.16 3.51 37.17 32.89 35.16 3.51 55.95 32.92 35.16 3.54	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB Measured dBuV/m 52.96 32.89 35.16 3.51 54.20 36.99 32.89 35.16 3.51 38.23 57.15 32.92 35.16 3.54 58.45 40.48 32.92 35.16 3.54 41.78 51.78 32.89 35.16 3.51 53.02 37.17 32.89 35.16 3.51 38.41 55.95 32.92 35.16 3.54 57.25	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB Measured dBuV/m Limit dBuV/m 52.96 32.89 35.16 3.51 54.20 74 36.99 32.89 35.16 3.51 38.23 54 57.15 32.92 35.16 3.54 58.45 74 40.48 32.92 35.16 3.54 41.78 54 51.78 32.89 35.16 3.51 53.02 74 37.17 32.89 35.16 3.51 38.41 54 55.95 32.92 35.16 3.54 57.25 74	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB Measured dBuV/m Limit dBuV/m Margin dB 52.96 32.89 35.16 3.51 54.20 74 -19.8 36.99 32.89 35.16 3.51 38.23 54 -15.77 57.15 32.92 35.16 3.54 58.45 74 -15.55 40.48 32.92 35.16 3.54 41.78 54 -12.22 51.78 32.89 35.16 3.51 53.02 74 -20.98 37.17 32.89 35.16 3.51 38.41 54 -15.59 55.95 32.92 35.16 3.54 57.25 74 -16.75	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB Measured dBuV/m Limit dBuV/m Margin dBuV/m Remark 52.96 32.89 35.16 3.51 54.20 74 -19.8 Peak 36.99 32.89 35.16 3.51 38.23 54 -15.77 Average 57.15 32.92 35.16 3.54 58.45 74 -15.55 Peak 40.48 32.92 35.16 3.54 41.78 54 -12.22 Average 51.78 32.89 35.16 3.51 53.02 74 -20.98 Peak 37.17 32.89 35.16 3.51 38.41 54 -15.59 Average 55.95 32.92 35.16 3.54 57.25 74 -16.75 Peak

Tx-2462

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	56.93	33.06	35.18	3.60	58.41	74	-15.59	Peak	Horizontal
2483.50	39.66	33.06	35.18	3.60	41.14	54	-12.86	Average	Horizontal
2483.50	55.88	33.06	35.18	3.60	57.36	74	-16.64	Peak	Vertical
2483.50	38.67	33.06	35.18	3.60	40.15	54	-13.85	Average	Vertical

802.11g

Tx-2412

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	53.12	32.89	35.16	3.51	54.36	74	-19.64	Peak	Horizontal
2390.00	36.86	32.89	35.16	3.51	38.10	54	-15.9	Average	Horizontal
2400.00	56.92	32.92	35.16	3.54	58.22	74	-15.78	Peak	Horizontal
2400.00	39.96	32.92	35.16	3.54	41.26	54	-12.74	Average	Horizontal
2390.00	52.17	32.89	35.16	3.51	53.41	74	-20.59	Peak	Vertical
2390.00	37.65	32.89	35.16	3.51	38.89	54	-15.11	Average	Vertical
2400.00	55.73	32.92	35.16	3.54	57.03	74	-16.97	Peak	Vertical
2400.00	39.42	32.92	35.16	3.54	40.72	54	-13.28	Average	Vertical

Tx-2462

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	56.61	33.06	35.18	3.60	58.09	74	-15.91	Peak	Horizontal
2483.50	39.75	33.06	35.18	3.60	41.23	54	-12.77	Average	Horizontal
2483.50	55.99	33.06	35.18	3.60	57.47	74	-16.53	Peak	Vertical
2483.50	38.68	33.06	35.18	3.60	40.16	54	-13.84	Average	Vertical

802.11n(HT20)

Tx-2412

1A-2-12								
Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
53.45	32.89	35.16	3.51	54.69	74	-19.31	Peak	Horizontal
36.91	32.89	35.16	3.51	38.15	54	-15.85	Average	Horizontal
57.44	32.92	35.16	3.54	58.74	74	-15.26	Peak	Horizontal
40.29	32.92	35.16	3.54	41.59	54	-12.41	Average	Horizontal
52.12	32.89	35.16	3.51	53.36	74	-20.64	Peak	Vertical
37.17	32.89	35.16	3.51	38.41	54	-15.59	Average	Vertical
56.48	32.92	35.16	3.54	57.78	74	-16.22	Peak	Vertical
39.16	32.92	35.16	3.54	40.46	54	-13.54	Average	Vertical
	Readin g Level dBuV 53.45 36.91 57.44 40.29 52.12 37.17 56.48	Readin g Level dBuV Ant. Fac. dB/m 53.45 32.89 36.91 32.89 57.44 32.92 40.29 32.92 52.12 32.89 37.17 32.89 56.48 32.92	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB 53.45 32.89 35.16 36.91 32.89 35.16 57.44 32.92 35.16 40.29 32.92 35.16 52.12 32.89 35.16 37.17 32.89 35.16 56.48 32.92 35.16	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB 53.45 32.89 35.16 3.51 36.91 32.89 35.16 3.51 57.44 32.92 35.16 3.54 40.29 32.92 35.16 3.54 52.12 32.89 35.16 3.51 37.17 32.89 35.16 3.51 56.48 32.92 35.16 3.54	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB Measured dBuV/m 53.45 32.89 35.16 3.51 54.69 36.91 32.89 35.16 3.51 38.15 57.44 32.92 35.16 3.54 58.74 40.29 32.92 35.16 3.54 41.59 52.12 32.89 35.16 3.51 53.36 37.17 32.89 35.16 3.51 38.41 56.48 32.92 35.16 3.54 57.78	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB Measured dBuV/m Limit dBuV/m 53.45 32.89 35.16 3.51 54.69 74 36.91 32.89 35.16 3.51 38.15 54 57.44 32.92 35.16 3.54 58.74 74 40.29 32.92 35.16 3.54 41.59 54 52.12 32.89 35.16 3.51 53.36 74 37.17 32.89 35.16 3.51 38.41 54 56.48 32.92 35.16 3.54 57.78 74	Readin g Level dBuV Ant. Fac. dB/m dBuV Pre. Fac. dB Cab. Loss dB Measured dBuV/m Limit dBuV/m Margin dB 53.45 32.89 35.16 3.51 54.69 74 -19.31 36.91 32.89 35.16 3.51 38.15 54 -15.85 57.44 32.92 35.16 3.54 58.74 74 -15.26 40.29 32.92 35.16 3.54 41.59 54 -12.41 52.12 32.89 35.16 3.51 53.36 74 -20.64 37.17 32.89 35.16 3.51 38.41 54 -15.59 56.48 32.92 35.16 3.54 57.78 74 -16.22	Readin g Level dBuV Ant. Fac. dB/m Pre. Fac. dB Cab. Loss dB Measured dBuV/m Limit dBuV/m Margin dB Remark 53.45 32.89 35.16 3.51 54.69 74 -19.31 Peak 36.91 32.89 35.16 3.51 38.15 54 -15.85 Average 57.44 32.92 35.16 3.54 58.74 74 -15.26 Peak 40.29 32.92 35.16 3.54 41.59 54 -12.41 Average 52.12 32.89 35.16 3.51 53.36 74 -20.64 Peak 37.17 32.89 35.16 3.51 38.41 54 -15.59 Average 56.48 32.92 35.16 3.54 57.78 74 -16.22 Peak

Tx-2462

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	57.30	33.06	35.18	3.60	58.78	74	-15.22	Peak	Horizontal
2483.50	39.77	33.06	35.18	3.60	41.25	54	-12.75	Average	Horizontal
2483.50	55.55	33.06	35.18	3.60	57.03	74	-16.97	Peak	Vertical
2483.50	38.69	33.06	35.18	3.60	40.17	54	-13.83	Average	Vertical

BT V4.0

Tx-2402

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/ m	Margin dB	Remark	Pol.
2390.00	53.28	32.89	35.16	3.51	54.52	74	-19.48	Peak	Horizontal
2390.00	36.97	32.89	35.16	3.51	38.21	54	-15.79	Average	Horizontal
2400.00	57.11	32.92	35.16	3.54	58.41	74	-15.59	Peak	Horizontal
2400.00	40.35	32.92	35.16	3.54	41.65	54	-12.35	Average	Horizontal
2390.00	51.86	32.89	35.16	3.51	53.10	74	-20.9	Peak	Vertical
2390.00	37.54	32.89	35.16	3.51	38.78	54	-15.22	Average	Vertical
2400.00	56.06	32.92	35.16	3.54	57.36	74	-16.64	Peak	Vertical
2400.00	38.82	32.92	35.16	3.54	40.12	54	-13.88	Average	Vertical

T_{x-2480}

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	56.67	33.06	35.18	3.60	58.15	74	-15.85	Peak	Horizonta I
2483.50	39.96	33.06	35.18	3.60	41.44	54	-12.56	Average	Horizonta I
2483.50	56.39	33.06	35.18	3.60	57.87	74	-16.13	Peak	Vertical
2483.50	39.15	33.06	35.18	3.60	40.63	54	-13.37	Average	Vertical

5.6. Conducted Spurious Emissions and Band Edges Test

5.6.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.6.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting	
Detector	Peak	
Attenuation	Auto	
RB / VB (Emission in restricted band)	100KHz/300KHz	3
RB / VB (Emission in non-restricted band)	100KHz/300KHz	3

5.6.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9kHz to 25GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

5.6.4. Test Setup Layout

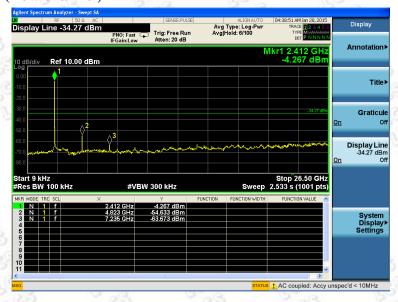
This test setup layout is the same as that shown in section 5.4.4.

5.6.5. EUT Operation during Test

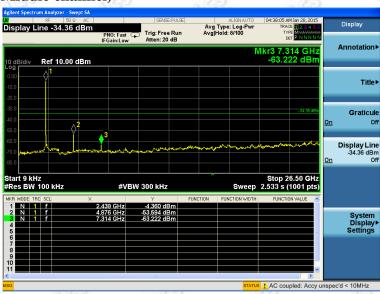
The EUT was programmed to be in continuously transmitting mode.

5.6.6. Test Results of Conducted Spurious Emissions

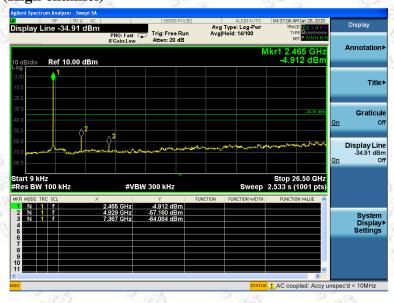
802.11b (Low channel)



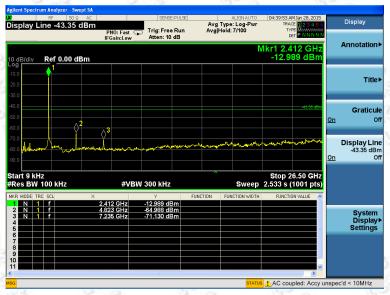
802.11b (Middle channel)



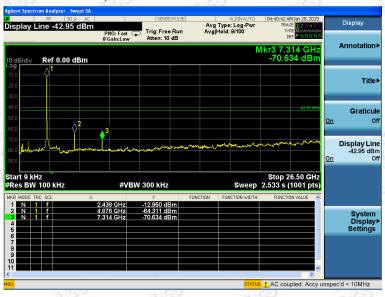
802.11b (High channel)



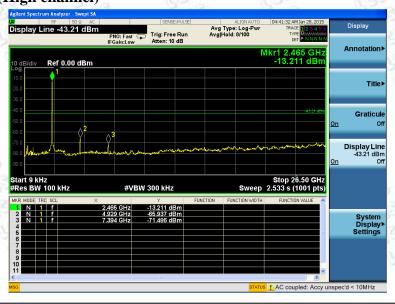
802.11g (Low channel)



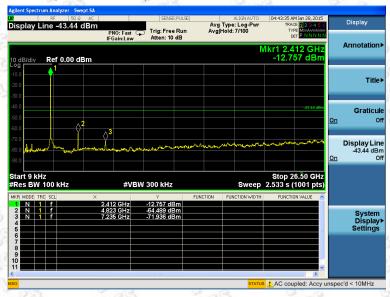
802.11g (Middle channel)



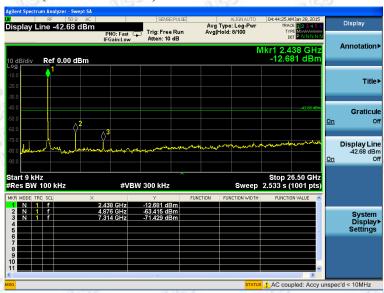
802.11g (High channel)



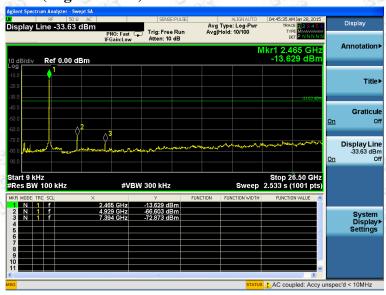
802.11n HT20 (Low channel)



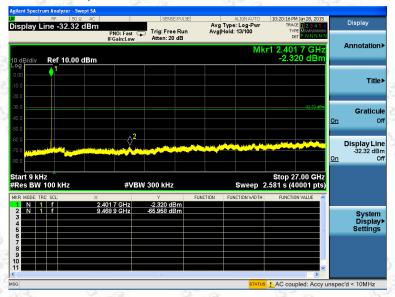
802.11n HT20 (Middle channel)



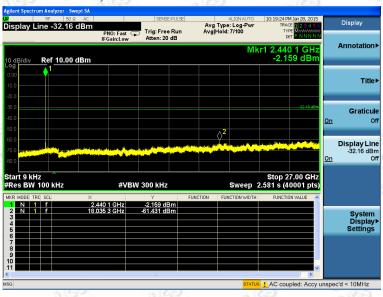
802.11n HT20 (High channel)



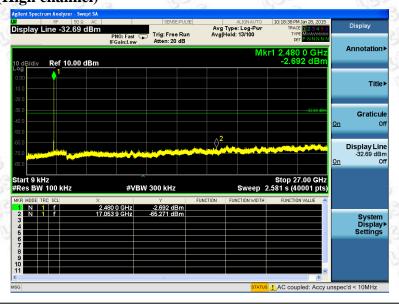
BT V4.0 (Low channel)



BT V4.0 (Middle channel)



BT V4.0 (High channel)



5.6.7. Test Results of Band Edges Test

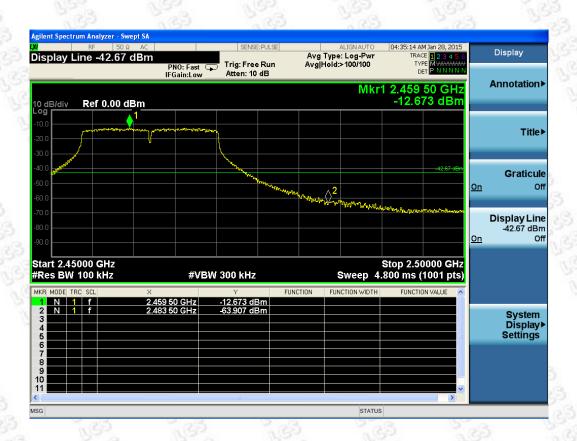
802.11b





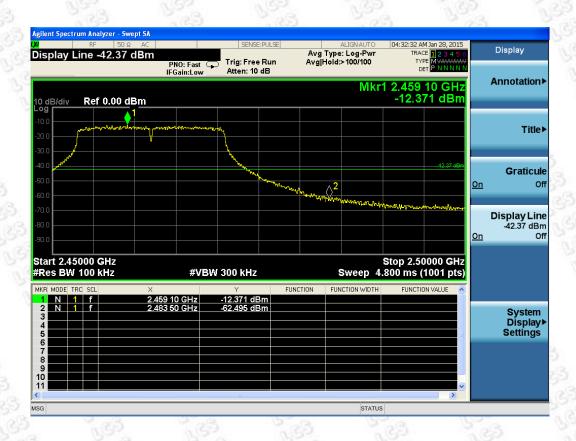
802.11g



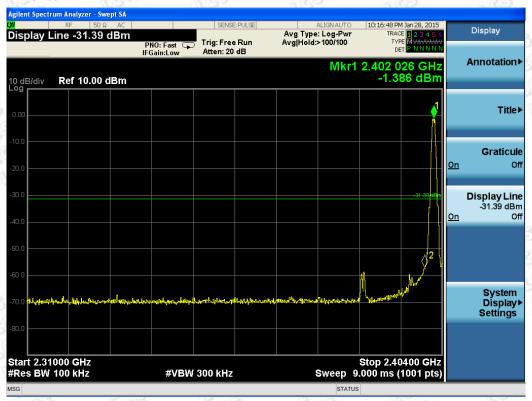


802.11n HT20





BT V4.0





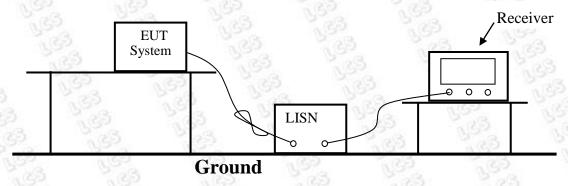
5.7. Power line conducted emissions

5.7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range	Limits	(dBµV)
(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

5.7.2 Block Diagram of Test Setu

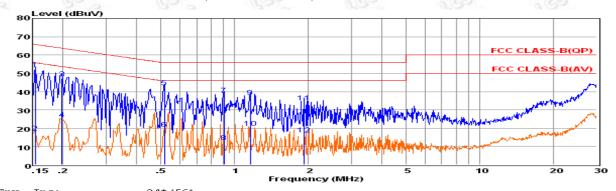


5.7.3 Test Results

PASS.

The test data please refer to following page.

Test result for 802.11b (Middle Channel)



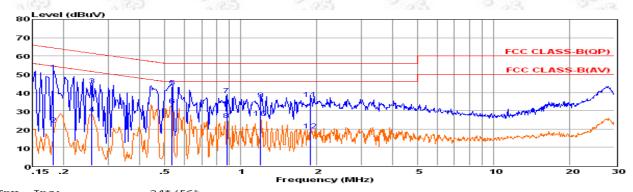
Env. Ins: EUT: M/N: Power Rating: Test Mode: Operator: 24*/56% Mobile Printer RPP300 AC 120V/60Hz 802.11b-Middle channel

Jacky

Memo: NEUTRAL Pol:

Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	0ver	Remark
MHz	dBuV	dВ	dВ	dB	dBu∀	dBuV	dВ	
0.15403	32.65	9.69	0.02	10.00	52.36	65.78	-13.42	QP
0.15413	-2.10	9.69	0.02	10.00	17.61	55.77	-38.16	Average
0.19758	27.76	9.59	0.02	10.00	47.37	63.71	-16.34	QP
0.19768	5.37	9.59	0.02	10.00	24.98	53.71	-28.73	Average
0.51824	22.83	9.62	0.04	10.00	42.49	56.00	-13.51	QP
0.51834	-0.12	9.62	0.04	10.00	19.54	46.00	-26.46	Average
0.90394	18.69	9.63	0.05	10.00	38.37	56.00	-17.63	QP
0.90470	-7.17	9.63	0.05	10.00	12.51	46.00	-33.49	Average
1.15955	17.61	9.63	0.05	10.00	37.29	56.00	-18.71	QP
1.16055	0.64	9.63	0.05	10.00	20.32	46.00	-25.68	Average
1.91817	14.59	9.63	0.05	10.00	34.27	56.00	-21.73	QP
1.91917	-3.15	9.63	0.05	10.00	16.53	46.00	-29.47	Average
	MHz 0.15403 0.15413 0.19758 0.19768 0.51824 0.51834 0.90394 0.90470 1.15955	MHz dBuV	MHz dBuV dB 0.15403 32.65 9.69 0.15413 -2.10 9.69 0.19758 27.76 9.59 0.51824 22.83 9.62 0.51834 -0.12 9.62 0.90394 18.69 9.63 0.90470 -7.17 9.63 1.15955 17.61 9.63 1.16055 0.64 9.63 1.91817 14.59 9.63	MHz dBuV dB dB 0.15403 32.65 9.69 0.02 0.15413 -2.10 9.69 0.02 0.19768 27.76 9.59 0.02 0.51824 22.83 9.62 0.04 0.51834 -0.12 9.62 0.04 0.90394 18.69 9.63 0.05 0.90470 -7.17 9.63 0.05 1.15955 17.61 9.63 0.05 1.16055 0.64 9.63 0.05 1.91817 14.59 9.63 0.05	MHz dBuV dB dB dB dB 0.15403 32.65 9.69 0.02 10.00 0.15413 -2.10 9.69 0.02 10.00 0.19768 27.76 9.59 0.02 10.00 0.51824 22.83 9.62 0.04 10.00 0.51834 -0.12 9.62 0.04 10.00 0.90394 18.69 9.63 0.05 10.00 0.90470 -7.17 9.63 0.05 10.00 1.15955 17.61 9.63 0.05 10.00 1.16055 0.64 9.63 0.05 10.00 1.91817 14.59 9.63 0.05 10.00	MHz dBuV dB dB dB dB dBuV 0.15403 32.65 9.69 0.02 10.00 52.36 0.15413 -2.10 9.69 0.02 10.00 17.61 0.19758 27.76 9.59 0.02 10.00 47.37 0.19768 5.37 9.59 0.02 10.00 24.98 0.51824 22.83 9.62 0.04 10.00 42.49 0.51834 -0.12 9.62 0.04 10.00 19.54 0.90394 18.69 9.63 0.05 10.00 38.37 0.90470 -7.17 9.63 0.05 10.00 38.37 1.15955 17.61 9.63 0.05 10.00 37.29 1.16055 0.64 9.63 0.05 10.00 37.29 1.16055 0.64 9.63 0.05 10.00 32.2 1.91817 14.59 9.63 0.05 10.00 34.27	MHz dBuV dB dB dB dB dBuV dBuV 0.15403 32.65 9.69 0.02 10.00 52.36 65.78 0.15413 -2.10 9.69 0.02 10.00 17.61 55.77 0.19758 27.76 9.59 0.02 10.00 47.37 63.71 0.19768 5.37 9.59 0.02 10.00 24.98 53.71 0.51824 22.83 9.62 0.04 10.00 42.49 56.00 0.51834 -0.12 9.62 0.04 10.00 19.54 46.00 0.90394 18.69 9.63 0.05 10.00 38.37 56.00 0.90470 -7.17 9.63 0.05 10.00 37.29 56.00 1.16055 0.64 9.63 0.05 10.00 37.29 56.00 1.91817 14.59 9.63 0.05 10.00 34.27 56.00	MHz dBuV dB dB dB dB dBuV dBuV dB 0.15403 32.65 9.69 0.02 10.00 52.36 65.78 -13.42 0.15413 -2.10 9.69 0.02 10.00 17.61 55.77 -38.16 0.19758 27.76 9.59 0.02 10.00 47.37 63.71 -16.34 0.19768 5.37 9.59 0.02 10.00 24.98 53.71 -28.73 0.51824 22.83 9.62 0.04 10.00 24.98 53.71 -28.73 0.51834 -0.12 9.62 0.04 10.00 42.49 56.00 -13.51 0.51834 -0.12 9.62 0.04 10.00 19.54 46.00 -26.46 0.90394 18.69 9.63 0.05 10.00 38.37 56.00 -17.63 0.90470 -7.17 9.63 0.05 10.00 38.37 56.00 -33.49 1.15955 17.61 9.63 0.05 10.00 37.29 56.00 -18.71 1.16055 0.64 9.63 0.05 10.00 37.29 56.00 -18.71 1.16055 0.64 9.63 0.05 10.00 34.27 56.00 -21.73

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
2. The emission levels that are 20dB below the official limit are not reported.



M/N: Power Rating: Test Mode: Operator:

Memo:

Pol:

24*/56% Mobile Printer RPP300

AFF300 AC 120V/60Hz 802.1lb-Middle channel Jacky

LINE

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	0ver	Remark
	MHz	dBuV	dВ	dВ	dВ	dBu∀	dBu∀	dВ	
1	0.18152	31.69	9.61	0.02	10.00	51.32	64.42	-13.10	QP
2	0.18162	2.84	9.61	0.02	10.00	22.47	54.41	-31.94	Average
3	0.25751	24.26	9.63	0.03	10.00	43.92	61.51	-17.59	QP
4	0.25761	8.95	9.63	0.03	10.00	28.61	51.51	-22.90	Average
- 5	0.53498	23.39	9.62	0.04	10.00	43.05	56.00	-12.95	QP
6	0.53508	13.36	9.62	0.04	10.00	33.02	46.00	-12.98	Average
7	0.88031	18.86	9.63	0.04	10.00	38.53	56.00	-17.47	QP
8	0.88041	5.31	9.63	0.04	10.00	24.98	46.00	-21.02	Average
9	1.19700	16.63	9.63	0.05	10.00	36.31	56.00	-19.69	QP
10	1.19800	6.47	9.63	0.05	10.00	26.15	46.00	-19.85	Average
11	1.88792	16.90	9.64	0.05	10.00	36.59	56.00	-19.41	QP
12	1.88892	-0.37	9.64	0.05	10.00	19.32	46.00	-26.68	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. 2. The emission levels that are 20dB below the official limit are not reported.

***Note: Pre-scan all mode and recorded the worst case results in this report (802.11b (Middle Channel)).

5.8. Antenna Requirements

5.8.1. Standard Applicable

According to §15.203 & RSS-Gen, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.8.2. Antenna Connector Construction

The directional gains of the PCB antenna used for transmitting is 1.5dBi and no consideration of replacement. Please see EUT photo for details.

5.8.3. Results: Compliance.

6. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	June 18, 2014	June 17, 2015
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	July 16, 2014	July 15, 2015
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	June 18, 2014	June 17, 2015
LISN (Support Unit)	EMCO	3819/2NM	9703-1839	9KHz-30MHz	June 18, 2014	June 17, 2015
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	June 18, 2014	June 17, 2015
ISN	SCHAFFNER	ISN ST08	21653	9KHz-30MHz	June 18, 2014	June 17, 2015
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30M-1GHz 3m	June 18, 2014	June 17, 2015
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHzz	June 18, 2014	June 17, 2015
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 16, 2014	July 15, 2015
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	July 16, 2014	July 15, 2015
Spectrum Analyzer	Agilent	E4407B	MY41440292	9k-26.5GHz	July 16, 2014	July 15, 2015
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	June 18, 2014	June 17, 2015
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	30MHz-1GHz	June 10, 2014	June 09, 2015
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 10, 2014	June 09, 2015
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	June 10, 2014	June 09, 2015
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 18, 2014	June 17, 2015
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	June 18, 2014	June 17, 2015
Spectrum Meter	R&S	FSP 30	100023	9kHz-30GHz	July 16, 2014	July 15, 2015
Power Meter	R&S	NRVS	100444	DC-40GHz	June 18, 2014	June 17, 2015
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	June 18, 2014	June 17, 2015
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	June 18, 2014	June 17, 2015
AC Power Source	HPC	HPA-500E	HPA-9100024	AC 0~300V	June 18, 2014	June 17, 2015
DC power Soure	GW	GPC-6030D	C671845	DC 1V-60V	June 18, 2014	June 17, 2015
Temp. and Humidigy	Giant Force	GTH-225-20-S	MAB0103-00	N/A	June 18, 2014	June 17, 2015
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	June 18, 2014	June 17, 2015
RF CABLE-2m	JYE Bao	RG142	CB)35-2m	20MHz-1GHz	June 18, 2014	June 17, 2015
Vector signal Generator	R&S	SMU200A	102098	100kHz~6GHz	June 18, 2014	June 17, 2015
Signal Generator	R&S	SMR40	10016	10MHz~40GHz	July 16, 2014	July 15, 2015
Universal Radio Communication	R&S	CMU200	112012	N/A	July 18, 2014	July 17, 2015

 $Note: All\ equipment\ through\ GRGT\ EST\ calibration$

7. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following series model(s):

RPP200 RPP200WBU RPP300BU RPP300WBU

Belong to the tested device:

Product description : Mobile Printer

Model name : RPP300

Remark: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.

-----THE END OF REPORT-----