RADIO TEST REPORT

Report No: STS1705037F02

Issued for

Shenzhen GPD Technology Co., Ltd.

1006,Block 4D,Software Industry Base,High-Tech Industrial Park, Shenzhen ,518000, China

Product Name:	Pocket
Brand Name:	GPD
Model Name:	GPD Pocket
Series Model:	N/A
FCC ID:	2AJQ5GPDPOCKET
Test Standard:	FCC Part 15.247

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BZT Testing Technology Co., Ltd

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(Vita Li)

TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen GPD Technology Co., Ltd.		
Address:	1006,Block 4D,Software Industry Base,High-Tech Industrial Park, Shenzhen ,518000, China		
Manufacture's Name:	Shenzhen GPD Technology Co., Ltd.		
Address:	1006,Block 4D,Software Industry Base,High-Tech Industrial Park, Shenzhen ,518000, China		
Product description			
Product name:	Pocket		
Trademark:	GPD		
Model and/or type reference .:	GPD Pocket		
Series Model:	N/A		
Standards:	FCC Part15.247		
Test procedure	. ANSI C63.10-2013		
test (EUT) is in compliance with identified in the report. This report shall not be reproduct	s been tested by BZT, the test results show that the equipment under the FCC requirements. And it is applicable only to the tested sample sed except in full, without the written approval of BZT, this document T, personal only, and shall be noted in the revision of the document.		
Date of Test	:		
Date (s) of performance of tests.			
Date of Issue			
Test Result	: Pass		
Testing Engine	leo li		
	(Leo li)		
Technical Man	0		
	(Tony liu)		
Authorized Sig	gnatory:		

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APPENDIX - PHOTOS OF TEST SETUP

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	23 May. 2017	STS1705037F02	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v04

	FCC Part 15.247,Subpart C				
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)(3)	Output Power	PASS			
15.247 (c)	Radiated Spurious Emission	PASS			
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS			
15.247 (e)	Power Spectral Density	PASS			
15.205	Restricted Band Edge Emission	PASS			
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) all tests are according to ANSI C63.10-2013.

1.1 TEST FACTORY

BZT Testing Technology Co., Ltd.

Add.: Buliding 17, Xinghua Road Xingwei industrial Park Fuyong,

Baoan District, Shenzhen, Guangdong, China

FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
8	All emissions,radiated(>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Pocket		
Trade Name	GPD		
Model Name	GPD Pocket		
Series Model	N/A		
Model Difference	N/A		
	The EUT is a Pocke	et .	
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz	
	Modulation Type:	CCK/BPSK/QPSK/16QAM	
Product Description	Number Of Channel:	802.11b/g/n20: 11CH 802.11n 40: 7CH	
	Antenna Designation:	Please see Note 3.	
	Antenna Gain (dBi):	Antenna number: 2 Antenna A gain : -4dBi Antenna B gain : -4dBi MIMO technology Directional gain= -0.99dBi	
	Duty Cycle:	>98%	
Channel List	Please refer to the	Note 2.	
Adapter	Power supply and ADP(rating): Input:100V-240V,50/60Hz ,600mA Output: DC5V,3000mA		
Battery	Battery(rating): Rated Voltage: 3.8V Charge Limit: 4.35V Capacity:7000mAh		
Hardware version number	WINI7-V3.0-201704	125	
Software version number	Windows 10 Home		
Connecting I/O Port(s)	Please refer to the User's Manual		

NOTE: 802.11b/g: SISO mode only: 802.11n H20 /H40: MIMO mode only

Note:

2

1 For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

	Operation Frequency of channel				
8	802.11b/g/n(20MHz)		802.11n(40MHz)		
Channel	Frequency	Channel	Frequency		
01	2412	03	2422		
02	2417	04	2427		
03	2422	05	2432		
04	2427	06	2437		
05	2432	07	2442		
06	2437	08	2447		
07	2442	09	2452		
80	2447				
09	2452				
10	2457				
11	2462				

3 Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

- 4 KDB 662911 D01 Multiple Transmitter Output v02r01
 - 2) Directional Gain Calculations for In-Band Measurements
 - a) Basic methodology with NANT transmit antennas, each with the same directional gain GAN T dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:
 - (i) If any transmit signals are correlated with each other,

Directional gain = GANT + 10 log(NANT) dBi

(ii) If all transmit signals are completely uncorrelated with each other,

Directional gain = GANT

ANT A=-4 dBi

ANT B=-4 dBi

GANT + 10 log(NANT) dBi

Directional gain= -4+10log2=-0.99dBi

2.2 DESCRIPTION OF TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	SISO mode	1 Mbps
Mode 5	TX IEEE 802.11g CH1	6 Mbps
Mode 6	TX IEEE 802.11g CH6	6 Mbps
Mode 7	TX IEEE 802.11g CH11	6 Mbps
Mode 8	SISO mode	6 Mbps
Mode 9	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 10	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 11	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 12	keeping MIMO TX mode	MCS 0
Mode 13	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 14	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 15	TX IEEE 802.11n HT40 CH9	MCS 0
Mode 16	keeping MIMO TX mode	MCS 0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported (2) We have be tested for all avaiable U.S. voltage and frequencies(120V AC, 60Hz) for which the device is capable of operation.
- (3) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

AC Conducted Emission

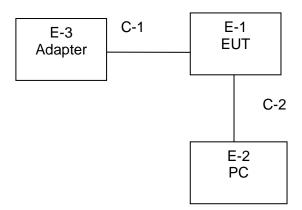
Test Case			
AC Conducted	Model 7: Keeping TV + W/LAN Link		
Emission	Mode17: Keeping TX + WLAN Link		

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2.3 BLOCK DIGRAM OF TEST CONFIGURATION Radiated Spurious EmissionTest

E-1 EUT

Conducted Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Pocket	GPD	GPD Pocket	N/A	EUT
E-2	Adapter	N/A	SAPA05013JP	N/A	N/A
E-3	Earphone	N/A	N/A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
	USB Cable			
C-1	shielded line	NO	100cm	N/A
	(Charging)			
C-2	Earphone Line	NO	110cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- For detachable type I/O cable should be specified the length in cm in Length column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

rtadiation root og	апринони				
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.05	2018.03.04
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2019.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.10.23	2017.10.22
PreAmplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Loop Antenna	EMCO	6502	9003-2485	2016.03.06	2019.03.05
Preamplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Low frequency cable	EM	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/9628 7	NCR	NCR
Semi-anechoic chamber	Changling	966	N/A	2016.10.23	2017.10.22

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.23	2017.10.22
LISN	EMCO	3810/2NM	000-23625	2016.10.23	2017.10.22
Conduction Cable	EM	C01	N/A	NCR	NCR
Shielding Room	Changling	854	N/A	2016.10.23	2017.10.22

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Signal Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15. 207(a) limit in the table below has to be followed.

EDECLIENCY (MLI-)	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

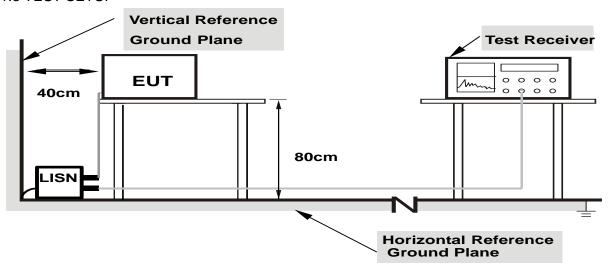
The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80

from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

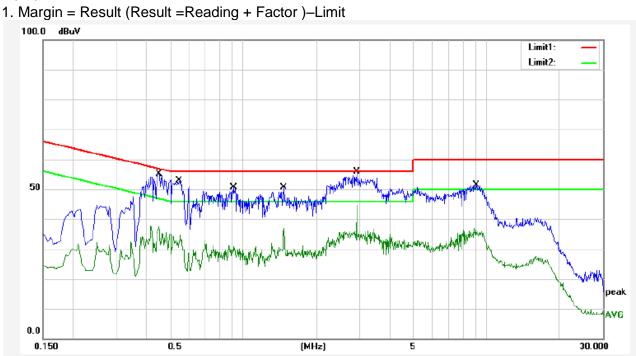
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.5 TEST RESULT

Temperature:	23.1 ℃	Relative Humidity:	61%
Pressure:	1010hPa	Phase:	L
Test Voltage :	DC 3.8V from Adapter	Test Mode :	Mode 17

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.4500	45.81	9.29	55.10	56.88	-1.78	QP
0.4500	28.20	9.29	37.49	46.88	-9.39	AVG
0.5464	43.61	9.16	52.77	56.00	-3.23	QP
0.5464	25.51	9.16	34.67	46.00	-11.33	AVG
0.9100	41.42	9.18	50.60	56.00	-5.40	QP
0.9100	20.20	9.18	29.38	46.00	-16.62	AVG
1.4660	41.37	9.20	50.57	56.00	-5.43	QP
1.4660	27.57	9.20	36.77	46.00	-9.23	AVG
2.9340	46.49	9.26	55.75	56.00	-0.25	QP
2.9340	33.65	9.26	42.91	46.00	-3.09	AVG
9.1020	41.99	9.43	51.42	60.00	-8.58	QP
9.1020	25.95	9.43	35.38	50.00	-14.62	AVG

Remark:

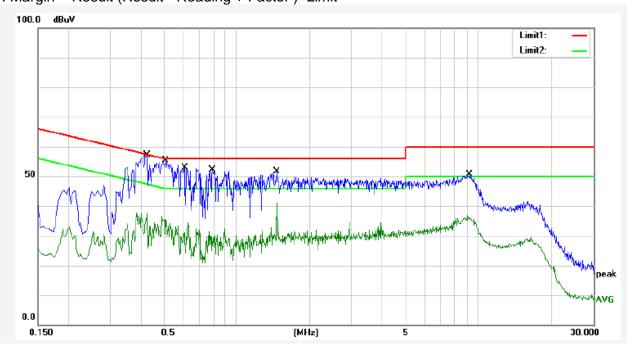


Temperature:	23.1 ℃	Relative Humidity:	61%
Pressure:	1010hPa	Phase:	N
Test Voltage :	DC 3.8V from Adapter	Test Mode:	Mode 17

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.4260	47.82	9.36	57.18	57.33	-0.15	QP
0.4260	28.23	9.36	37.59	47.33	-9.74	AVG
0.5100	46.28	9.15	55.43	56.00	-0.57	QP
0.5100	27.13	9.15	36.28	46.00	-9.72	AVG
0.6100	43.62	9.19	52.81	56.00	-3.19	QP
0.6100	20.48	9.19	29.67	46.00	-16.33	AVG
0.7940	42.81	9.22	52.03	56.00	-3.97	QP
0.7940	17.35	9.22	26.57	46.00	-19.43	AVG
1.4660	42.32	9.20	51.52	56.00	-4.48	QP
1.4660	17.37	9.20	26.57	46.00	-19.43	AVG
9.2460	41.11	9.45	50.56	60.00	-9.44	QP
9.2460	31.73	9.45	41.18	50.00	-8.82	AVG

Remark:

1. Margin = Result (Result = Reading + Factor)—Limit



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Enviro of 10 (B)/(12B)	EINITE OF TO ENGOIST METOCOTEMENT (0.0001/11/2)						
Frequencies	Field Strength	Measurement Distance					
(MHz)	(micorvolts/meter)	(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	3					
88~216	150	3					
216~960	200	3					
Above 960	500	3					

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
FREQUENCT (MITZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	4 MILI- /2MILI-		
band)	1 MHz /3MHz		

For Band edge

2. 2a.ia 2ag2	
Spectrum Parameter	Setting
Detector	Peak
Start/Stan Eraguanay	Lower Band Edge: 2300 to 2422 MHz
Start/Stop Frequency	Upper Band Edge: 2452 to 2500 MHz
RB / VB (emission in restricted band)	1 MHz /3MHz

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

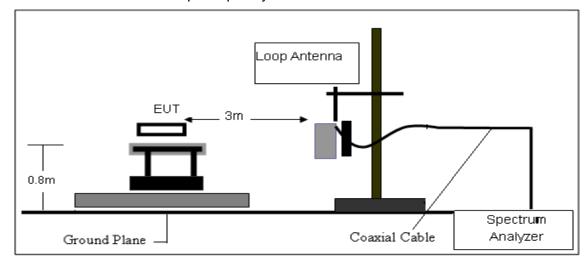
3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

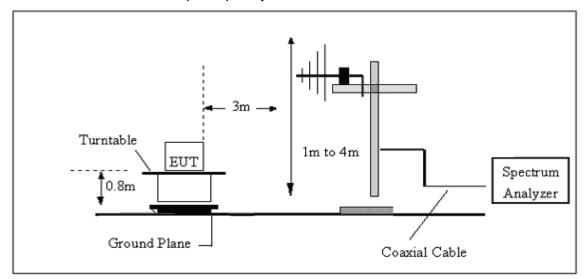
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

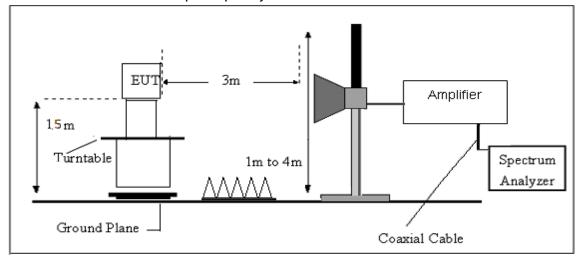
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

9KHz-30MHz

Temperature:	20 ℃	Relative Humidtity:	48%	
Pressure:	1010 hPa	Test Voltage:	DC 3.8V from Battery	
Test Mode:	TX Mode	Polarization:		

Freq.	Reading	Limit	Margin	State	Test
(MHz)	(dBuV/m)	(dBuV/m) (dB) P/F		Result	
					PASS
					PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB 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.

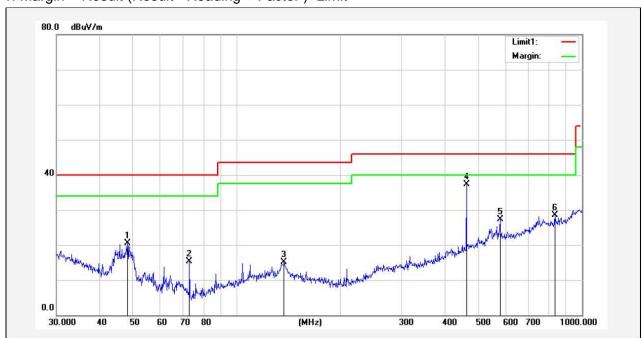
(30MHz - 1000MHz)

Temperature:	26 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 3.8V from Battery
LIAST MINAL .	Mode 1~16 (Mode 1-1M worst mode)	Polarization :	Horizontal

Frequency	Reading	Correct	Correct Result L		Margin	Remark
(MHz)	(dBuV)	Factor(dB/m) (dBuV/m) (dBuV/m)		(dBuV/m)	(dB)	
48.1626	41.08	-20.53	20.55	40.00	-19.45	QP
72.8466	38.91	-23.70	15.21	40.00	-24.79	QP
136.9391	6.9391 32.68 -17.52		15.16	43.50	-28.34	QP
462.3455	47.35	-10.05	37.30	46.00	-8.70	QP
578.6700	33.95	-6.70	27.25	46.00	-18.75	QP
833.3171	31.47	-3.01	28.46	46.00	-17.54	QP

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit



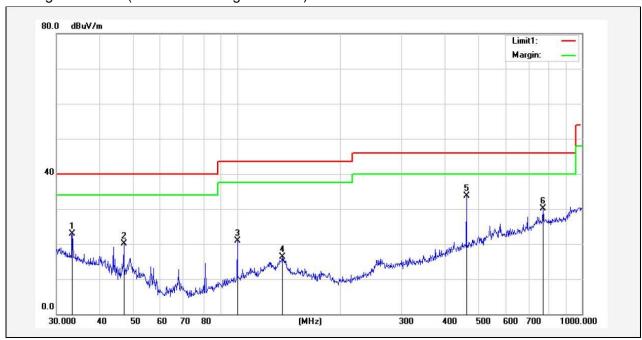
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Temperature:	26 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.8V from Battery
LIACT MANA	Mode 1~16 (Mode 1-1M worst mode)	Polarization :	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
33.3280	35.74	-12.90	22.84	40.00	-17.16	QP
46.9948	40.12	-19.94	20.18	40.00	-19.82	QP
100.2286	40.15	-19.17	20.98	43.50	-22.52	QP
135.5062	33.89	-17.52	16.37	43.50	-27.13	QP
462.3455	43.75	-10.05	33.70	46.00	-12.30	QP
771.4486	33.37	-3.32	30.05	46.00	-15.95	QP

Remark:.

1. Margin = Result (Result = Reading + Factor)—Limit



(1000MHz-25GHz) Restricted band and Spurious emission Requirements

802.11b Low Channel (Antenna A)

	Meter		002	Antenna	Orrected	Emission	<u>')</u>			
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Low Channel (2412 MHz)									
3264.85	48.76	44.70	6.70	28.20	-9.80	38.96	74.00	-35.04	PK	Vertical
3264.85	38.51	44.70	6.70	28.20	-9.80	28.71	54.00	-25.29	AV	Vertical
3264.62	48.90	44.70	6.70	28.20	-9.80	39.10	74.00	-34.90	PK	Horizontal
3264.62	37.98	44.70	6.70	28.20	-9.80	28.18	54.00	-25.82	AV	Horizontal
4824.43	58.90	44.20	9.04	31.60	-3.56	55.34	74.00	-18.66	PK	Vertical
4824.43	38.19	44.20	9.04	31.60	-3.56	34.63	54.00	-19.37	AV	Vertical
4824.39	58.88	44.20	9.04	31.60	-3.56	55.32	74.00	-18.68	PK	Horizontal
4824.39	38.74	44.20	9.04	31.60	-3.56	35.18	54.00	-18.82	AV	Horizontal
5359.83	45.04	44.20	9.86	32.00	-2.34	42.70	74.00	-31.30	PK	Vertical
5359.83	37.87	44.20	9.86	32.00	-2.34	35.53	54.00	-18.47	AV	Vertical
5359.73	46.17	44.20	9.86	32.00	-2.34	43.83	74.00	-30.17	PK	Horizontal
5359.73	37.95	44.20	9.86	32.00	-2.34	35.61	54.00	-18.39	AV	Horizontal
7235.86	51.34	43.50	11.40	35.50	3.40	54.74	74.00	-19.26	PK	Vertical
7235.86	33.41	43.50	11.40	35.50	3.40	36.81	54.00	-17.19	AV	Vertical
7235.77	50.64	43.50	11.40	35.50	3.40	54.04	74.00	-19.96	PK	Horizontal
7235.77	33.08	43.50	11.40	35.50	3.40	36.48	54.00	-17.52	AV	Horizontal
11035.81	40.13	43.60	14.30	39.50	10.20	50.33	74.00	-23.67	PK	Vertical
11035.81	30.85	43.60	14.30	39.50	10.20	41.05	54.00	-12.95	AV	Vertical
11036.10	40.56	43.60	14.30	39.50	10.20	50.76	74.00	-23.24	PK	Horizontal
11036.10	29.95	43.60	14.30	39.50	10.20	40.15	54.00	-13.85	AV	Horizontal
13299.25	39.86	42.60	15.90	38.90	12.20	52.06	74.00	-21.94	PK	Vertical
13299.25	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.38	40.86	42.60	15.90	38.90	12.20	53.06	74.00	-20.94	PK	Horizontal
13299.38	28.98	42.60	15.90	38.90	12.20	41.18	54.00	-12.82	AV	Horizontal
15999.88	40.10	42.70	18.00	37.10	12.40	52.50	74.00	-21.50	PK	Vertical
15999.88	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.56	40.79	42.70	18.00	37.10	12.40	53.19	74.00	-20.81	PK	Horizontal
15999.56	29.80	42.70	18.00	37.10	12.40	42.20	54.00	-11.80	AV	Horizontal
17997.77	30.58	42.70	19.40	46.50	23.20	53.78	74.00	-20.22	PK	Vertical
17997.77	19.30	42.70	19.40	46.50	23.20	42.50	54.00	-11.50	AV	Vertical
17997.74	30.10	42.70	19.40	46.50	23.20	53.30	74.00	-20.70	PK	Horizontal
17997.74	18.23	42.70	19.40	46.50	23.20	41.43	54.00	-12.57	AV	Horizontal

802.11b Mid Channel (Antenna A)

	Meter			Antenna	Orrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
				Mid Ch	nannel (2437 M	1Hz)				
3264.75	47.88	44.70	6.70	28.20	-9.80	38.08	74.00	-35.92	PK	Vertical
3264.75	39.23	44.70	6.70	28.20	-9.80	29.43	54.00	-24.57	AV	Vertical
3264.81	48.37	44.70	6.70	28.20	-9.80	38.57	74.00	-35.43	PK	Horizontal
3264.81	38.03	44.70	6.70	28.20	-9.80	28.23	54.00	-25.77	AV	Horizontal
4874.36	58.79	44.20	9.04	31.60	-3.56	55.23	74.00	-18.77	PK	Vertical
4874.36	39.54	44.20	9.04	31.60	-3.56	35.98	54.00	-18.02	AV	Vertical
4874.34	59.44	44.20	9.04	31.60	-3.56	55.88	74.00	-18.12	PK	Horizontal
4874.34	38.92	44.20	9.04	31.60	-3.56	35.36	54.00	-18.64	AV	Horizontal
5359.84	46.29	44.20	9.86	32.00	-2.34	43.95	74.00	-30.05	PK	Vertical
5359.84	37.60	44.20	9.86	32.00	-2.34	35.26	54.00	-18.74	AV	Vertical
5359.80	45.30	44.20	9.86	32.00	-2.34	42.96	74.00	-31.04	PK	Horizontal
5359.80	38.05	44.20	9.86	32.00	-2.34	35.71	54.00	-18.29	AV	Horizontal
7310.80	51.71	43.50	11.40	35.50	3.40	55.11	74.00	-18.89	PK	Vertical
7310.80	33.61	43.50	11.40	35.50	3.40	37.01	54.00	-16.99	AV	Vertical
7310.92	51.28	43.50	11.40	35.50	3.40	54.68	74.00	-19.32	PK	Horizontal
7310.92	33.33	43.50	11.40	35.50	3.40	36.73	54.00	-17.27	AV	Horizontal
9747.91	40.48	43.60	14.30	39.50	10.20	50.68	74.00	-23.32	PK	Vertical
9747.91	30.69	43.60	14.30	39.50	10.20	40.89	54.00	-13.11	AV	Vertical
9748.22	40.15	43.60	14.30	39.50	10.20	50.35	74.00	-23.65	PK	Horizontal
9748.22	30.18	43.60	14.30	39.50	10.20	40.38	54.00	-13.62	AV	Horizontal
13299.18	40.08	42.60	15.90	38.90	12.20	52.28	74.00	-21.72	PK	Vertical
13299.18	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.34	40.45	42.60	15.90	38.90	12.20	52.65	74.00	-21.35	PK	Horizontal
13299.34	28.79	42.60	15.90	38.90	12.20	40.99	54.00	-13.01	AV	Horizontal
15999.88	40.31	42.70	18.00	37.10	12.40	52.71	74.00	-21.29	PK	Vertical
15999.88	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.67	40.27	42.70	18.00	37.10	12.40	52.67	74.00	-21.33	PK	Horizontal
15999.67	29.25	42.70	18.00	37.10	12.40	41.65	54.00	-12.35	AV	Horizontal
17997.66	30.83	42.70	19.40	46.50	23.20	54.03	74.00	-19.97	PK	Vertical
17997.66	19.50	42.70	19.40	46.50	23.20	42.70	54.00	-11.30	AV	Vertical
17997.53	30.92	42.70	19.40	46.50	23.20	54.12	74.00	-19.88	PK	Horizontal
17997.53	19.17	42.70	19.40	46.50	23.20	42.37	54.00	-11.63	AV	Horizontal

802.11b High Channel(Antenna A)

	Meter			Antenna	Orrected	Emission	,			
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
				High C	hannel (2462 N	ЛНz)				
3264.80	47.90	44.70	6.70	28.20	-9.80	38.10	74.00	-35.90	PK	Vertical
3264.80	38.00	44.70	6.70	28.20	-9.80	28.20	54.00	-25.80	AV	Vertical
3264.62	49.08	44.70	6.70	28.20	-9.80	39.28	74.00	-34.72	PK	Horizontal
3264.62	38.24	44.70	6.70	28.20	-9.80	28.44	54.00	-25.56	AV	Horizontal
4924.38	59.00	44.20	9.04	31.60	-3.56	55.44	74.00	-18.56	PK	Vertical
4924.38	38.42	44.20	9.04	31.60	-3.56	34.86	54.00	-19.14	AV	Vertical
4924.57	58.63	44.20	9.04	31.60	-3.56	55.07	74.00	-18.93	PK	Horizontal
4924.57	39.29	44.20	9.04	31.60	-3.56	35.73	54.00	-18.27	AV	Horizontal
5359.71	44.99	44.20	9.86	32.00	-2.34	42.65	74.00	-31.35	PK	Vertical
5359.71	38.04	44.20	9.86	32.00	-2.34	35.70	54.00	-18.30	AV	Vertical
5359.68	46.22	44.20	9.86	32.00	-2.34	43.88	74.00	-30.12	PK	Horizontal
5359.68	38.34	44.20	9.86	32.00	-2.34	36.00	54.00	-18.00	AV	Horizontal
7385.69	50.97	43.50	11.40	35.50	3.40	54.37	74.00	-19.63	PK	Vertical
7385.69	33.41	43.50	11.40	35.50	3.40	36.81	54.00	-17.19	AV	Vertical
7385.86	51.17	43.50	11.40	35.50	3.40	54.57	74.00	-19.43	PK	Horizontal
7385.86	33.65	43.50	11.40	35.50	3.40	37.05	54.00	-16.95	AV	Horizontal
9847.90	40.36	43.60	14.30	39.50	10.20	50.56	74.00	-23.44	PK	Vertical
9847.90	30.41	43.60	14.30	39.50	10.20	40.61	54.00	-13.39	AV	Vertical
9848.14	41.19	43.60	14.30	39.50	10.20	51.39	74.00	-22.61	PK	Horizontal
9848.14	30.45	43.60	14.30	39.50	10.20	40.65	54.00	-13.35	AV	Horizontal
13299.15	40.68	42.70	18.00	37.10	12.40	53.08	74.00	-20.92	PK	Vertical
13299.15	28.54	42.70	18.00	37.10	12.40	40.94	54.00	-13.06	AV	Vertical
13299.32	40.13	42.70	18.00	37.10	12.40	52.53	74.00	-21.47	PK	Horizontal
13299.32	29.96	42.70	18.00	37.10	12.40	42.36	54.00	-11.64	AV	Horizontal
17997.87	30.28	42.70	19.40	46.50	23.20	53.48	74.00	-20.52	PK	Vertical
17997.87	18.82	42.70	19.40	46.50	23.20	42.02	54.00	-11.98	AV	Vertical
17997.62	30.58	42.70	19.40	46.50	23.20	53.78	74.00	-20.22	PK	Horizontal
17997.62	18.83	42.70	19.40	46.50	23.20	42.03	54.00	-11.97	AV	Horizontal

Remark:

- 1. Corrected Factor = Antenna Factor + Cable Loss Amplifier.
- 2. Scan with 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) all have been tested the antenna A and antenna B, the worst case is 802.11b of the antenna A

Emission Level = Meter Reading + Factor; Margin = Limit - Emission Leve

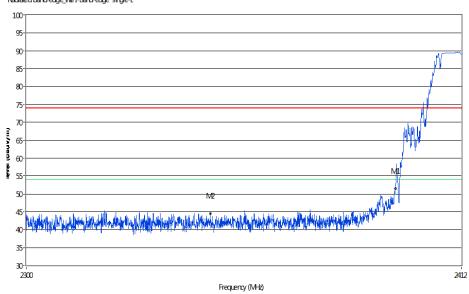
^{3.} The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

3.2.6 TEST RESULTS (Band edge Requirements)

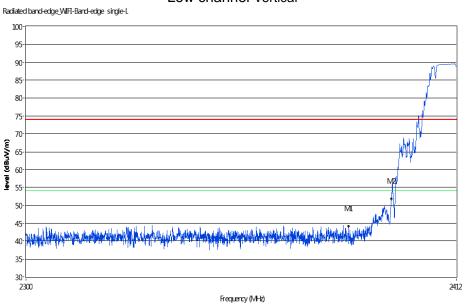
model	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	ANT
	2390.00	44.51	74.0	-29.49	Peak	Horizontal
802.11b	2390.00	34.20	54.0	-19.80	Average	Horizontal
002.110	2390.00	44.06	74.0	-29.94	Peak	Vertical
	2390.00	33.25	54.0	-20.75	Average	Vertical

Low channel Horizontal





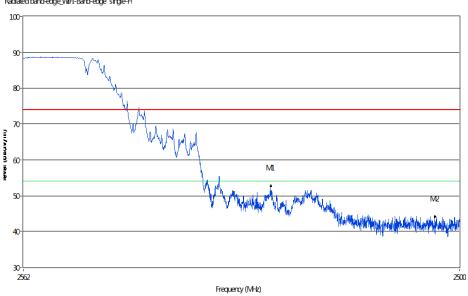
Low channel Vertical



model	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	ANT
	2483.50	52.33	74.0	-21.67	Peak	Horizontal
802.11b	2483.50	42.36	54.0	-11.64	Average	Horizontal
002.110	2483.50	51.07	74.0	-22.93	Peak	Vertical
	2483.50	41.58	54.0	-12.42	Average	Vertical

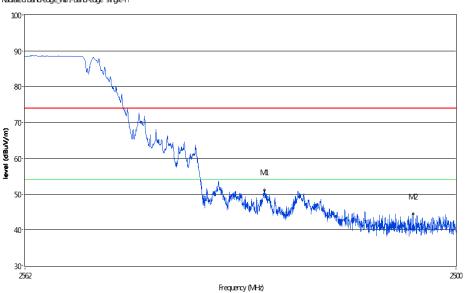
High channel Horizontal

Radiated band-edge_WIFI-Band-edge single-H



High channel Vertical

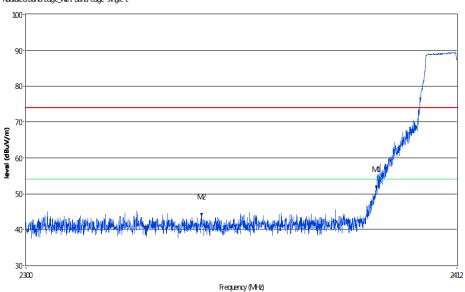
Radiated band-edge_WIFI-Band-edge single-H



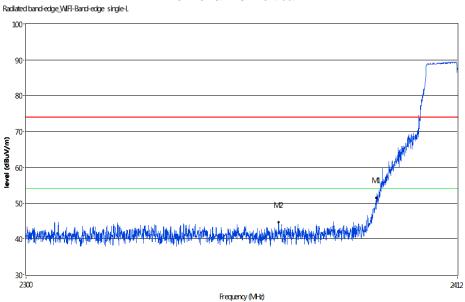
model	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	ANT
	2390.00	44.37	74.0	-29.63	Peak	Horizontal
000 44 ~	2390.00	35.69	54.0	-18.31	Average	Horizontal
802.11g	2390.00	44.70	74.0	-29.30	Peak	Vertical
	2390.00	35.14	54.0	-18.86	Average	Vertical

Low channel Horizontal

Radiated band-edge_WIFI-Band-edge single-L



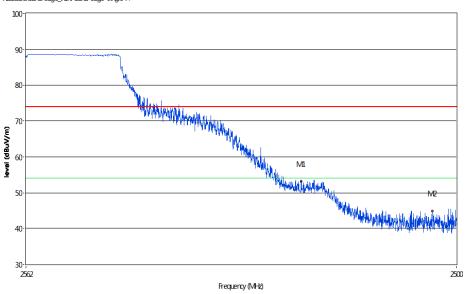
Low channel Vertical



model	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	ANT
	2483.50	53.13	74.0	-20.87	Peak	Horizontal
902 11 a	2483.50	43.25	54.0	-10.75	Average	Horizontal
802.11g	2483.50	53.52	74.0	-20.48	Peak	Vertical
	2483.50	43.63	54.0	-10.37	Average	Vertical

High channel Horizontal





High channel Vertical

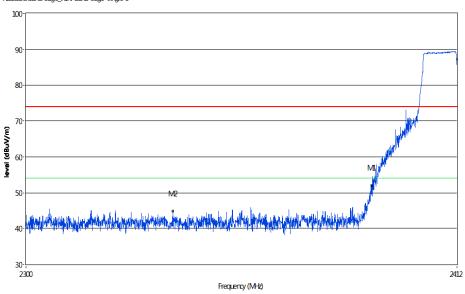
Radiated band-edge, WIFI-Band-edge single-H 100 90 80 70 40 260 250 250

Frequency (MHz)

model	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	ANT
	2390.00	44.81	74.0	-29.19	Peak	Horizontal
000 44 = (LIT00)	2390.00	35.10	54.0	-18.90	Average	Horizontal
802.11n(HT20)	2390.00	43.20	74.0	-30.80	Peak	Vertical
	2390.00	34.21	54.0	-19.79	Average	Vertical

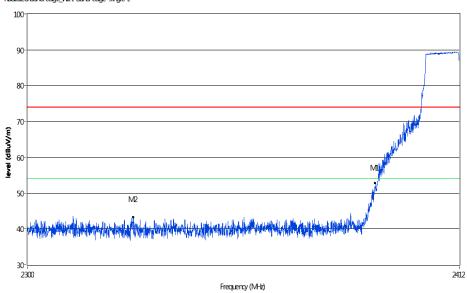
Low channel Horizontal

Radiated band-edge_WIFI-Band-edge single-L



Low channel Vertical

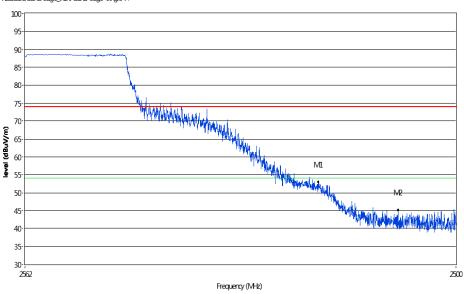
Radiated band-edge_WIFI-Band-edge_single-L



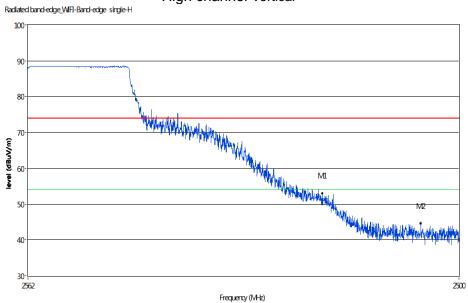
model	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	ANT
	2483.50	52.95	74.0	-21.05	Peak	Horizontal
802.11n(HT20)	2483.50	41.00	54.0	-13.00	Average	Horizontal
802.1111(1120)	2483.50	52.58	74.0	-21.42	Peak	Vertical
	2483.50	42.15	54.0	-11.85	Average	Vertical

High channel Horizontal





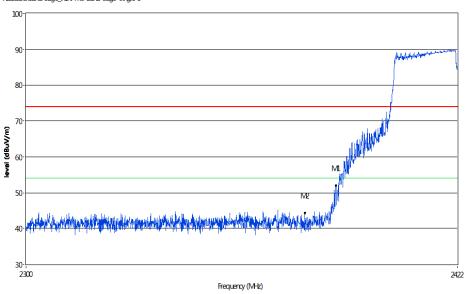
High channel Vertical



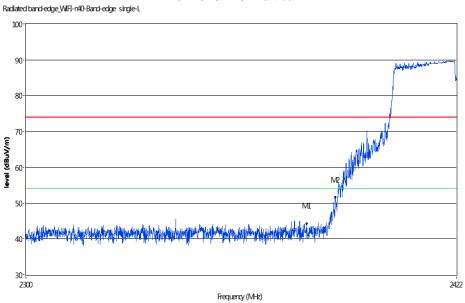
model	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	ANT
	2390.00	44.38	74.0	-29.62	Peak	Horizontal
000 11n/UT10\	2390.00	34.28	54.0	-19.72	Average	Horizontal
802.11n(HT40)	2390.00	44.28	74.0	-29.72	Peak	Vertical
	2390.00	34.74	54.0	-19.26	Average	Vertical

Low channel Horizontal

Radiated band-edge_WIFI-n40-Band-edge single-L

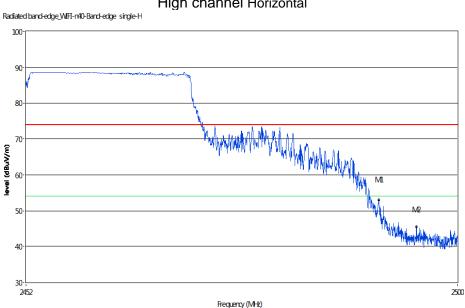


Low channel Vertical

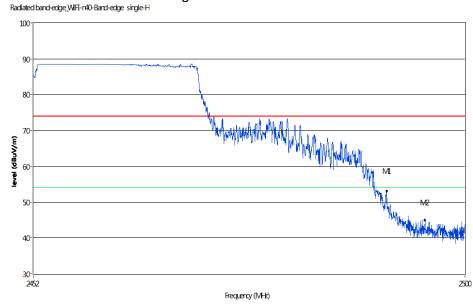


model	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	ANT
	2483.50	52.20	74.0	-21.80	Peak	Horizontal
802.11n(HT40)	2483.50	43.05	54.0	-10.95	Average	Horizontal
602.1111(H140)	2483.50	52.86	74.0	-21.14	Peak	Vertical
	2483.50	42.69	54.0	-11.31	Average	Vertical

High channel Horizontal



High channel Vertical



Remark:

Low measurement frequencies is range from 2300 to 2422 MHz, high measurement frequencies is range from 2452 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2300-2422 MHz and 2452-2500 MHz.

802.11b , 802.11g: ANT A and ANT B all have been tested ,only worse case of ANT A is reported

802.11n20, 802.11n40: MIMO TX mode

4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 APPLIED PROCEDURES / LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

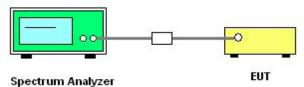
Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stan Fraguency	Lower Band Edge: 2300 to 2422 MHz		
Start/Stop Frequency	Upper Band Edge: 2452 to 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

4.3 DEVIATION FROM STANDARD No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

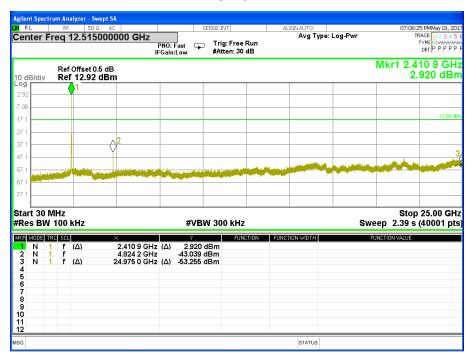
4.6 TEST RESULTS

Note: Antenna A Power> Antenna B Power, Both antenna A and B have been test, Only show the worst data of Antenna A

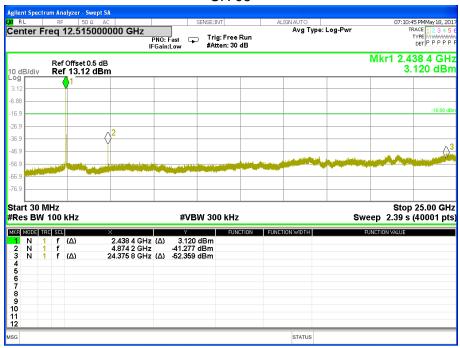
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b Mode /CH01, CH06, CH11		

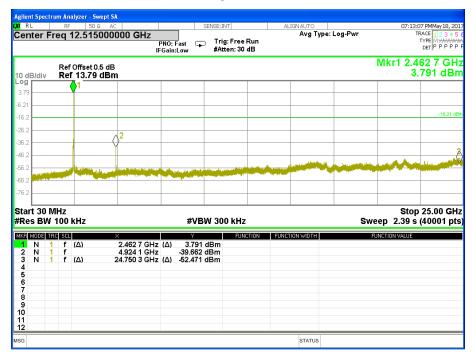
Antenna A

CH 01



CH 06





Band edge

CH 01



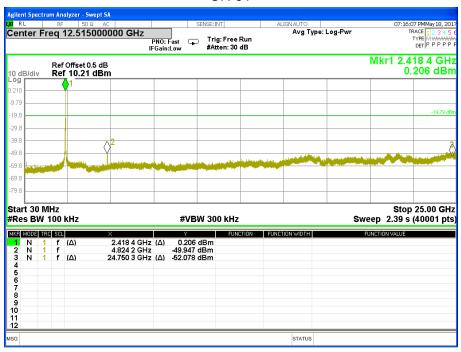


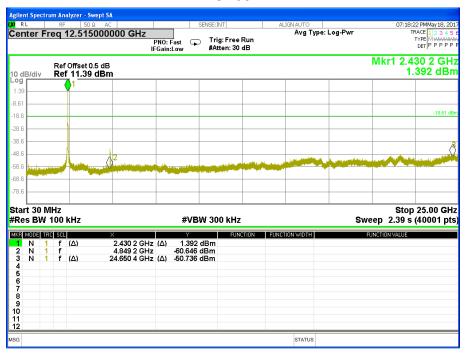
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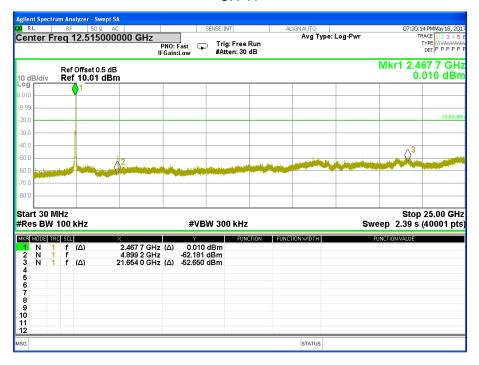
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Antenna A

CH 01







Band edge

CH 01



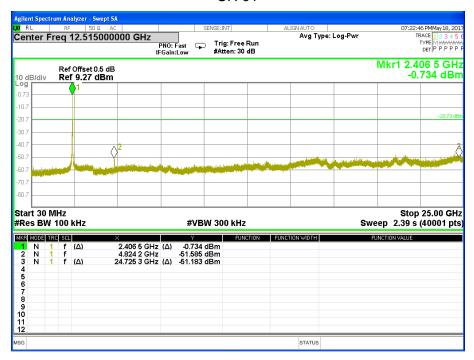


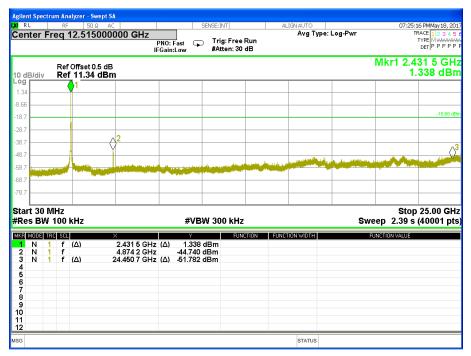
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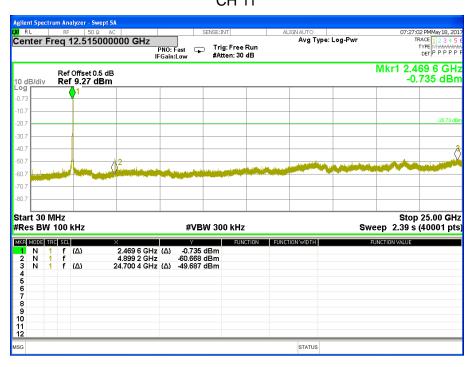
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Antenna A

CH 01

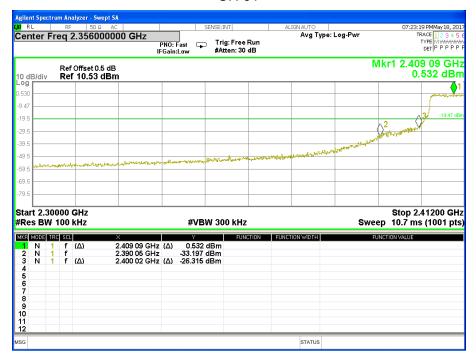






Band edge

CH 01



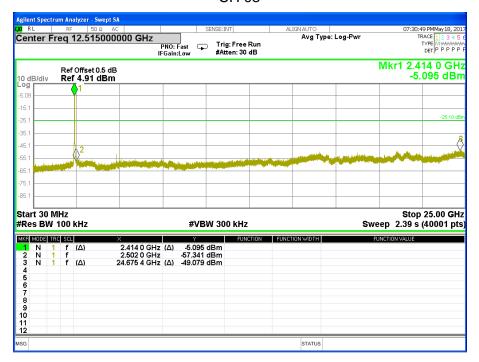
CH 11



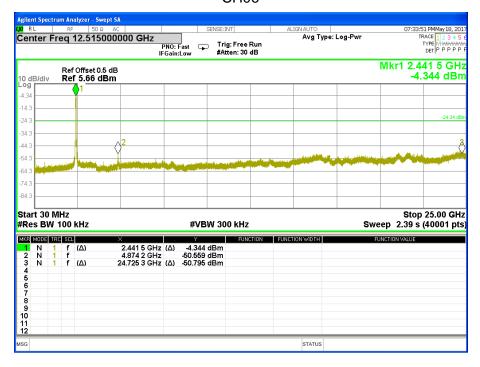
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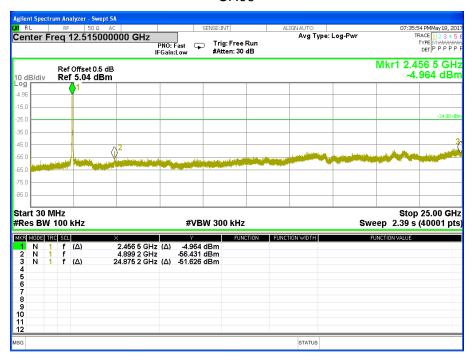
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Antenna A



CH06





Band edge

CH03





5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section Test Item Limit Frequency Range (MHz)				Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW ≥ 3KHz)	2400-2483.5	PASS

5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the 100 kHz \geq RBW \geq 3 kHz.
- 4. Set the VBW ≥ 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b Mode /CH01, CH06, CH11		

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	Po	ower Densit	у		
Frequency	ANT A (dBm)	ANT B (dBm)	TOTAL (dBm)	Limit (dBm)	Result
2412	-16.186	-16.23		≤8	PASS
2437	-16.470	-16.50		≤8	PASS
2462	-16.286	-16.36		≤8	PASS

Antenna A







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Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

	Po	ower Densit	у		
Frequency	ANT A (dBm)	ANT B (dBm)	TOTAL (dBm)	Limit (dBm)	Result
2412	-13.752	-13.80		≤8	PASS
2437	-12.496	-12.51	-	≤8	PASS
2462	-14.185	-14.20		≤8	PASS

Antenna A







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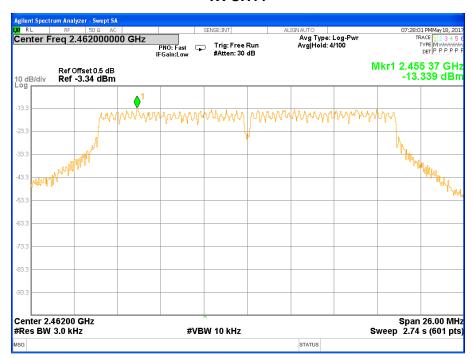
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

	Po	ower Densit	у		
Frequency	ANT A (dBm)	ANT B (dBm)	TOTAL (dBm)	Limit (dBm)	Result
2412	-13.004	-13.03	-10.00	≤8	PASS
2437	-12.221	-12.29	-9.25	≤8	PASS
2462	-13.339	-13.39	-10.35	≤8	PASS

Antenna A





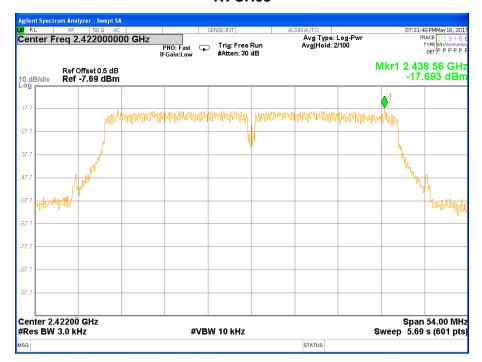


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Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

	Po	Power Density			
Frequency	ANT A (dBm)	ANT B (dBm)	TOTAL (dBm)	Limit (dBm)	Result
2422	-17.693	-17.73	-14.70	≤8	PASS
2437	-16.708	-16.75	-13.72	≤8	PASS
2452	-17.905	-17.94	-14.91	≤8	PASS

Antenna A







6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	≥500KHz (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

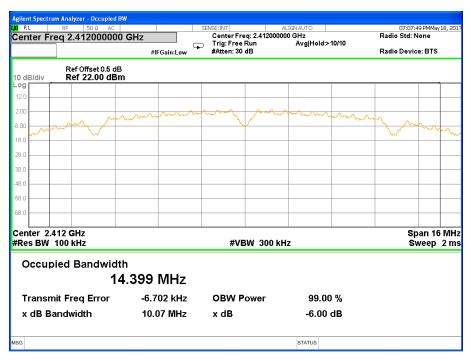
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

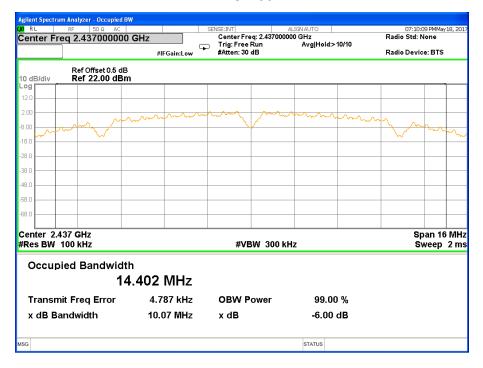
6.6 TEST RESULTS

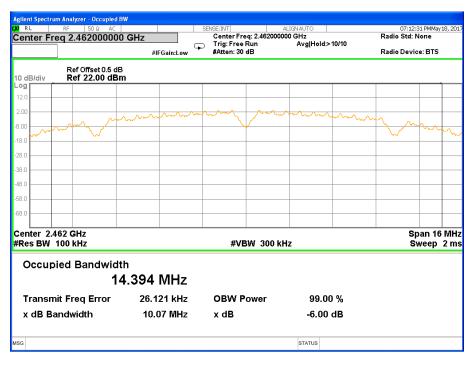
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)		Channel Separation	Result
	ANTENNA -A	ANTENNA -B	(KHz)	
2412 MHz	10.07	10.06	≥500KHz	PASS
2437 MHz	10.07	10.06	≥500KHz	PASS
2462 MHz	10.07	10.05	≥500KHz	PASS

Antenna A





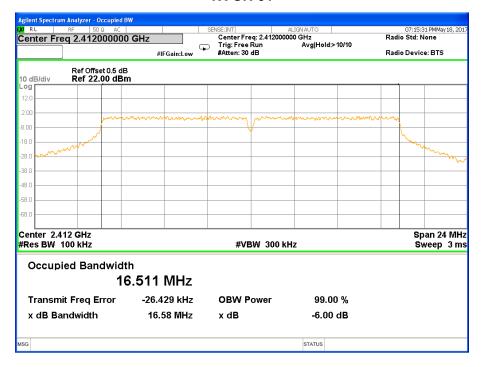


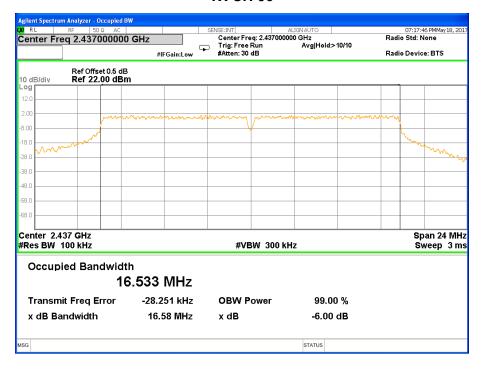
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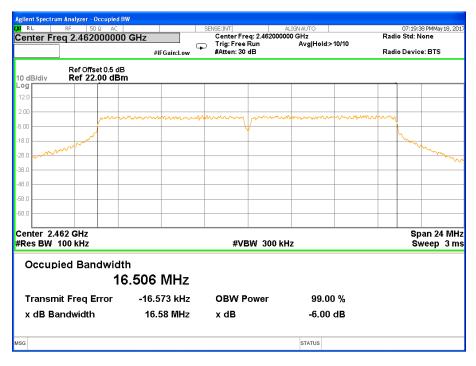
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)		Channel Separation	Result
	ANTENNA -A	ANTENNA -B	(KHz)	
2412 MHz	16.58	16.57	≥500KHz	PASS
2437 MHz	16.58	16.56	≥500KHz	PASS
2462 MHz	16.58	16.57	≥500KHz	PASS

Antenna A





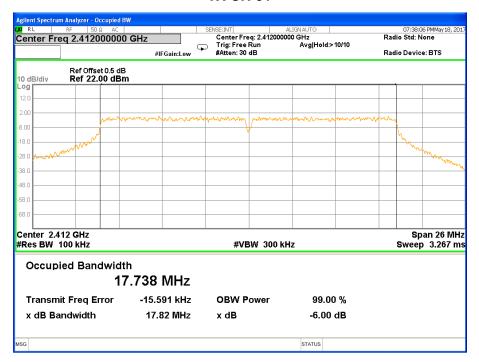


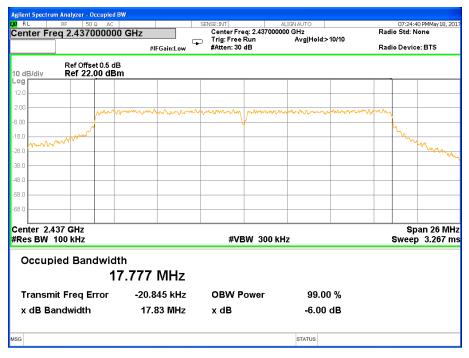
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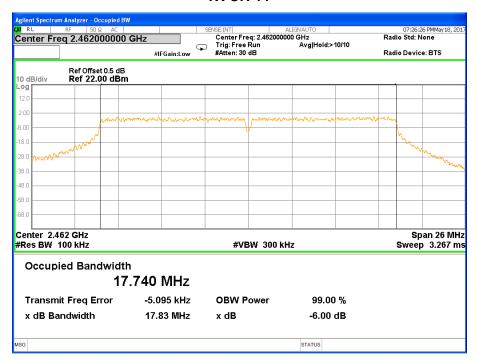
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)		Channel Separation	Result
	ANTENNA -A	ANTENNA -B	(KHz)	
2412 MHz	17.82	17.81	≥500KHz	PASS
2437 MHz	17.83	17.82	≥500KHz	PASS
2462 MHz	17.83	17.81	≥500KHz	PASS

Antenna A





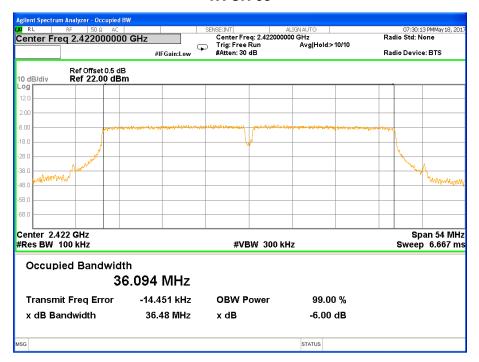


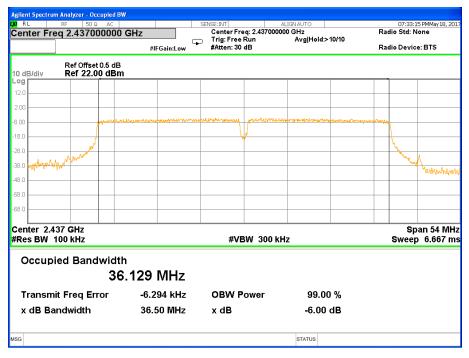
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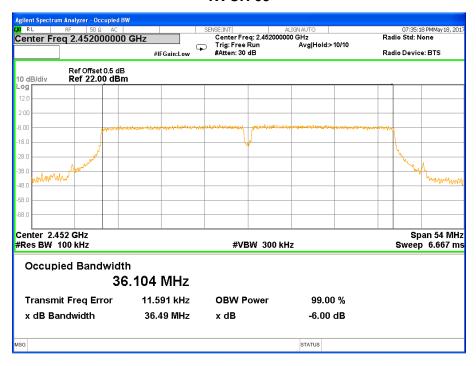
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)		Channel Separation	Result
	ANTENNA -A	ANTENNA -B	(KHz)	
2422 MHz	36.48	36.47	≥500KHz	PASS
2437 MHz	36.50	36.49	≥500KHz	PASS
2452 MHz	36.49	36.48	≥500KHz	PASS

Antenna A







7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&PC

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

EUT	Power Sensor
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7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V

Power

TX 802.11b Mode					
Test Channe	Frequency	ANT A	ANT B	ANT A+ANT B	LIMIT
	(MHz)	(dBm)	(dBm)	(dBm)	dBm
CH01	2412	10.78	10.26		30
CH06	2437	10.72	10.21		30
CH11	2462	10.69	10.16		30

TX 802.11g Mode					
Test Channe	Frequency	ANT A	ANT B	ANT A+ANT B	LIMIT
	(MHz)	(dBm)	(dBm)	(dBm)	dBm
CH01	2412	8.12	7.98		30
CH06	2437	8.05	7.92		30
CH11	2462	8.01	7.89		30

TX 802.11n20 Mode					
Test Channe	Frequency	ANT A	ANT B	ANT A+ANT B	LIMIT
	(MHz)	(dBm)	(dBm)	(dBm)	dBm
CH01	2412	8.08	7.95	11.03	30
CH06	2437	8.02	7.89	10.97	30
CH11	2462	7.98	7.65	10.83	30

TX 802.11n40 Mode					
Test Channe	Frequency	ANT A	ANT B	ANT A+ANT B	LIMIT
	(MHz)	(dBm)	(dBm)	(dBm)	dBm
CH03	2422	6.98	6.35	9.69	30
CH06	2437	6.96	6.32	9.66	30
CH09	2452	6.94	6.29	9.64	30

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

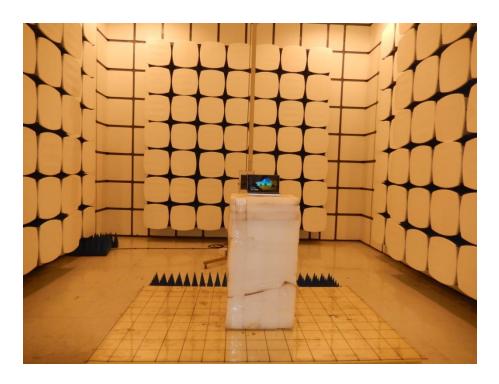
8.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.

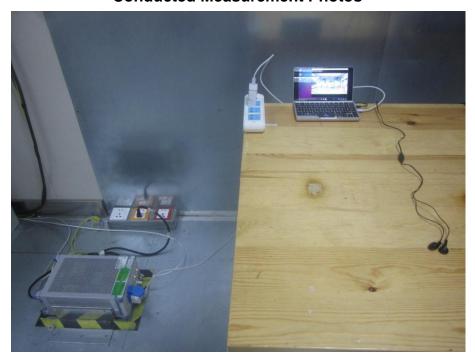
APPENDIX - PHOTOS OF TEST SETUP







Conducted Measurement Photos



* * * * * END OF THE REPORT * * * * *