

Report No: FCS202108006W02

# Issued for

Applicant:	Shenzhen Wuhao Electronic Intelligent Technology Co., Ltd.		
Address:	Room 308, Phase III, Block C, No. 663 Bulong Road, Dafapo Community, Bantian Street, Longgang District, Shenzhen		
Product Name:	Android Tablet		
Brand Name:	AWOW		
Model Name:	CreaPad1001		
Series Model:	N/A		
FCC ID:	2A2V4-CP1001		
Issued By: Flux Compliance Service Laboratory			

Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road
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## **TEST RESULT CERTIFICATION**

• •	EST RESSET SERVICION
Applicant's Name:	Shenzhen Wuhao Electronic Intelligent Technology Co., Ltd.
Address:	Room 308, Phase III, Block C, No. 663 Bulong Road, Dafapo Community, Bantian Street, Longgang District, Shenzhen
Manufacture's Name:	Shenzhen Wuhao Electronic Intelligent Technology Co., Ltd.
Address:	Room 308, Phase III, Block C, No. 663 Bulong Road, Dafapo Community, Bantian Street, Longgang District, Shenzhen
<b>Product Description</b>	
Product Name:	Android Tablet
Model Name:	CreaPad1001
Series Model:	N/A
Test Standards:	FCC Rules and Regulations Part 15 Subpart C, Section 247
Test Procedure:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02
results show that the equipment u is applicable only to the tested sat This report shall not be reproduct Service Laboratory, this documents of the service	been tested by Flux Compliance Service Laboratory, the test nder test (EUT) is in compliance with the FCC requirements. And imple identified in the report.  ed except in full, without the written approval of Flux Compliance ent may be altered or revised by Flux Compliance Service all be noted in the revision of the document
Date (s) of performance of tests:	Aug 04, 2021 ~ Aug 17, 2021
Date of Issue:	Aug 17, 2021
Test Result::	Pass
Tested by	Scott shen

Tested by	:	Scott Shen
		(Scott Shen)
Reviewed by	:	Dute Que
		(Duke Qian)
Approved by	:	Kait Chen
		(Kait Chen)



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**Revision History** 

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Rev.	Issue Date	Effect Page	Contents
00	Aug 17, 2021	All	Initial Issue



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part 15.247,Subpart C					
Standard Section	Test Item	Judgment	Remark		
FCC 15.247 (a) (2)	6dB Bandwidth	PASS			
FCC 15.247 (b) (3)	Conducted Output Power	PASS			
FCC 15.247 (e)	Power Spectral Density	PASS			
FCC 15.247 (d)	Band-edge and Spurious Emissions (Conducted)	PASS			
FCC 15.247 (d)	Radiated Spurious Emissions	D4.00			
FCC 15.209 FCC 15.205	·	PASS			
FCC 15.247 (d)	Radiated Band Edge Compliance				
FCC 15.209 FCC 15.205	Tradiated Band Luge Compilance	PASS			
FCC 15.207	Power Line Conducted Emission	PASS			
FCC 15.203	Antenna requirement	PASS			
15.205	Restricted Band Edge Emission	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

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901

Report No.: FCS202108006W02

FCC Test Firm Registration Number: 514908

Designation number: CN0127

A2LA accreditation number: 5545.01

## 1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	±0.71dB
2	Unwanted Emissions, conducted	±2.988 dB
3	Conducted Emission (9KHz-150KHz)	±4.13 dB
4	Conducted Emission (150KHz-30MHz)	±4.74 dB
5	All emissions,radiated(<1G) 30MHz-1000MHz	±5.2 dB
6	All emissions,radiated 1GHz -18GHz	±4.66 dB
7	All emissions,radiated 18GHz -40GHz	±4.31 dB



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Android Tablet	
Trade Name	AWOW	
Model Name	CreaPad1001	
Series Model	N/A	
Model Difference	N/A	
Channel List	Please refer to the Note 2.	
	IEEE 802.11b: 2412MHz-2462MHz	
Operation frequency	IEEE 802.11g: 2412MHz-2462MHz	
oporation negatives	IEEE 802.11n HT20: 2412MHz-2462MHz	
	IEEE 802.11n HT40: 2422MHz-2452MHz	
	IEEE 802.11b: DSSS (CCK, QPSK, BPSK)	
Modulation:	IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)	
	IEEE 802.11b: 1, 2, 5.5, 11 Mbps	
Transmitter rate:	IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	IEEE 802.11n HT20: up to 150 Mbps, HT40: up to 300Mbps	
Power supply	Adapter: Input AC100-240V, 50/60Hz Output:DC 5V,2A	
Battery	Battery:3.7V,6000mAh.	
Hardware version number	V1.10	
Software version number	V1.10	
Connecting I/O Port(s)	Please refer to the User's Manual	

## Note:

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



2.

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
01	2412	05	2432	09	2452		
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447				

## 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	NA	PIFA Antenna	N/A	1.0B dBi	Antenna



#### 2.2 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

Block diagram of EUT configuration for test

EUT

Test software: the FCC tool

The test softeware was used to control EUT work in continuous TX mode, and select test channel, Wireless mode as below table

Tested mode, channel, and data rate information					
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)	
	8	1	LCH: CH1	2412	
IEEE 802.11b	8	1	MCH: CH6	2437	
	8	1	HCH: CH11	2462	
	20	6	LCH: CH1	2412	
IEEE 802.11g	20	6	MCH: CH6	2437	
	20	6	HCH: CH11	2462	
	20	MCS 8	LCH: CH1	2412	
IEEE 802.11n HT20	20	MCS 8	MCH: CH6	2437	
	20	MCS 8	HCH: CH11	2462	
	20	MCS 8	LCH: CH3	2422	
IEEE 802.11n HT40	20	MCS 8	MCH: CH6	2437	
	20	MCS 8	HCH: CH9	2452	

## Note:

- (1) According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test,
- (2) During the test, the dutycycle>98%, the test voltage was tuned from 85% to 115% of the Nominal rate supply votage, and found that the worst case was the nominal rated supply condition, So the report just shows that condition's data





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#### 2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

## Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

## Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

## Note:

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



## 2.4 EQUIPMENTS LIST

## Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2021.05.26	2022.05.25
Signal Analyzer	R&S	FSV40-N	FCS-E012	2021.05.05	2022.05.04
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2021.07.08	2022.07.07
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2021.07.26	2022.07.25
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2021.07.26	2022.07.25
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2021.05.26	2022.05.25
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2021.05.26	2022.05.25
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2021.05.03	2022.05.02
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2021.07.08	2022.07.07
Temperature & Humidity	HTC-1	victor	FCS-E005	2021.07.26	2022.07.25

Conduction Test equipment

Conduction real equipment					
Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2021.05.03	2022.05.02
LISN	R&S	ENV216	FCS-E007	2021.07.08	2022.07.07
LISN	ETS	3810/2NM	FCS-E009	2021.05.03	2022.05.02
Temperature & Humidity	HTC-1	victor	FCS-E008	2021.07.08	2022.07.07

## **RF Connected Test**

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2021.05.03	2022.05.02
Spectrum Analyzer	Agilent	E4447A	MY50180039	2021.07.08	2022.07.07
Spectrum Analyzer	R&S	FSV-40	101499	2021.07.26	2022.07.25

## 3. 6DB BANDWIDTH

## 3.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz



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## 3.2 Test Procedure

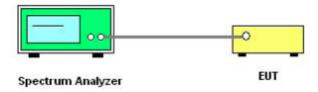
(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows

RBW: 100kHz
VBW: 300kHz
Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

(3) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

## 3.3 Test setup



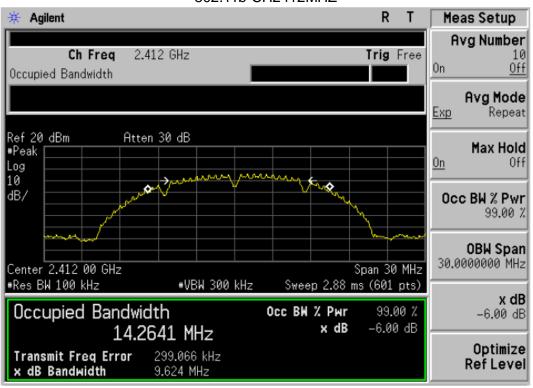
## 3.4 Test results



TestMode	Channel (MHz)	6dB Bandwidth (MHz)	Limit [MHz]	Verdict
802.11b	2412MHz	9.624	0.5	Pass
802.11b	2437MHz	9.652	0.5	Pass
802.11b	2462MHz	10.117	0.5	Pass
802.11g	2412MHz	15.825	0.5	Pass
802.11g	2437MHz	15.992	0.5	Pass
802.11g	2462MHz	16.227	0.5	Pass
802.11n 20	2412MHz	16.425	0.5	Pass
802.11n 20	2437MHz	17.257	0.5	Pass
802.11n 20	2462MHz	16.759	0.5	Pass
802.11n 40	2422MHz	35.165	0.5	Pass
802.11n 40	2437MHz	35.842	0.5	Pass
802.11n 40	2452MHz	36.180	0.5	Pass

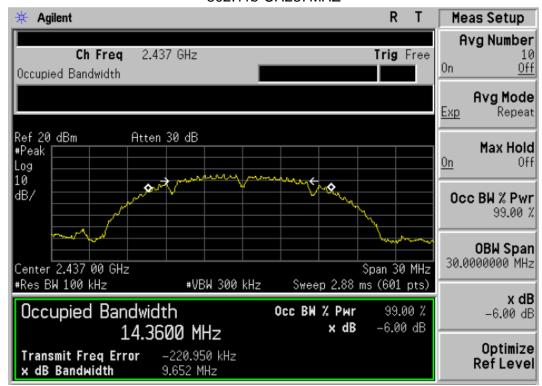
## 3.5 Original Test Data

#### 802.11b-CH2412MHZ

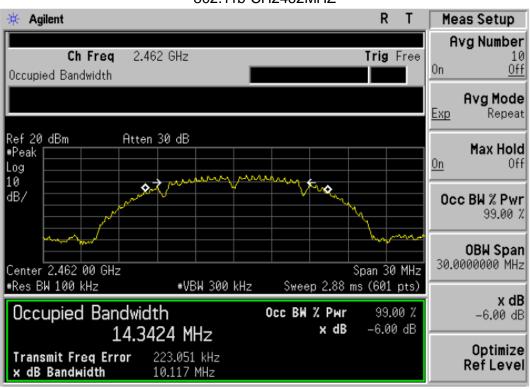




#### 802.11b-CH237MHZ

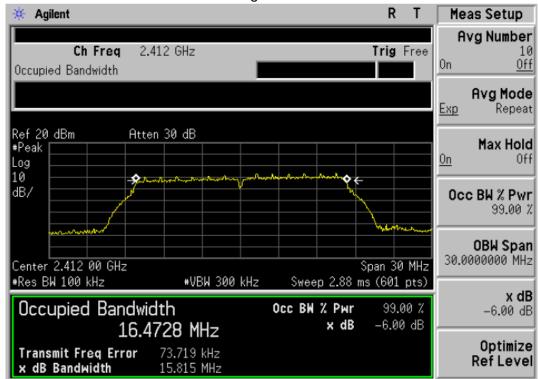


#### 802.11b-CH2462MHZ

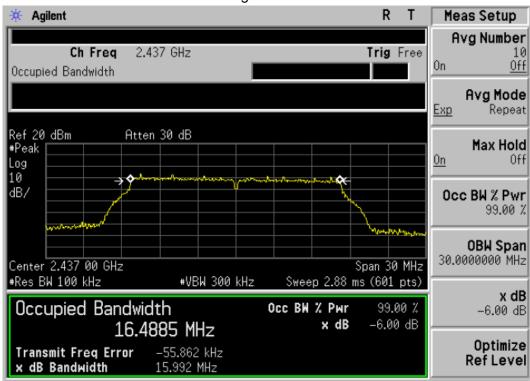




#### 802.11g H2412MHZ

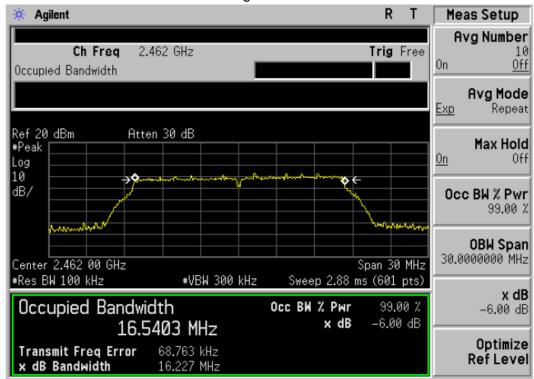


## 802.11g CH2437MHZ

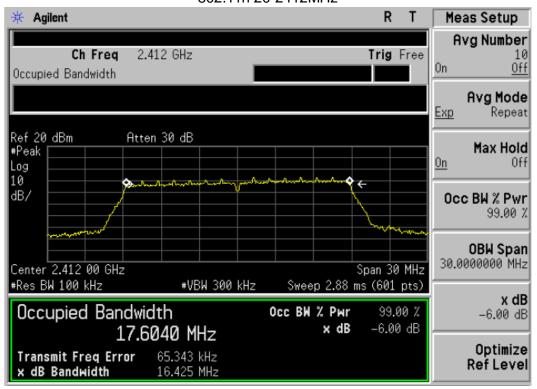




#### 802.11g CH2462MHZ

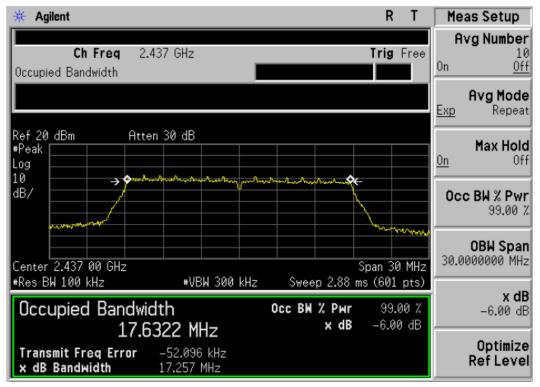


#### 802.11n 20-2412MHz

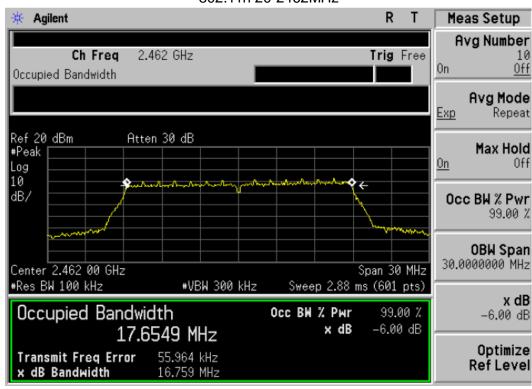




#### 802.11n 20-2437MHz

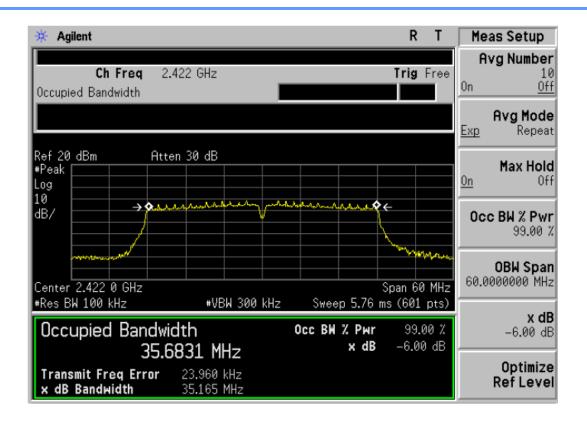


#### 802.11n 20-2462MHz

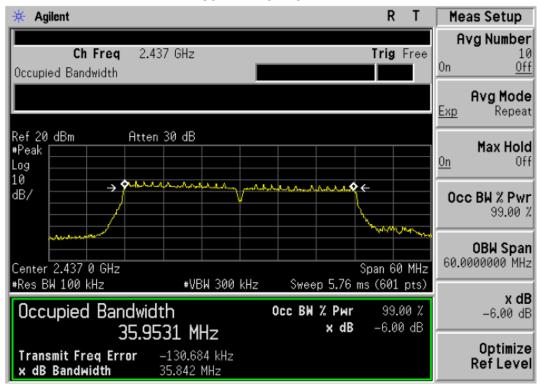


#### 802.11n 40-2422MHz



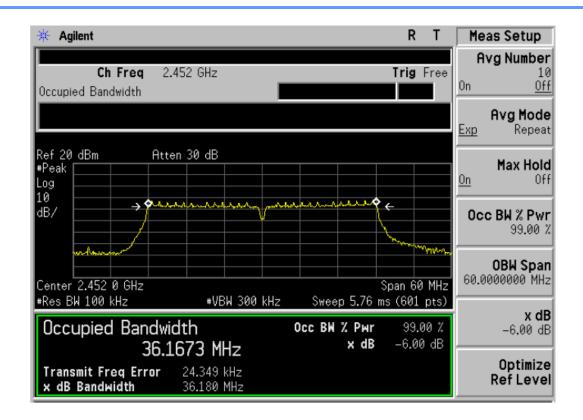


#### 802.11n 40-2437MHz



#### 802.11n 40-2452MHz







## **4 CONDUCTED OUTPUT POWER**

#### 4.1 limit

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## 4.2 test procedure

- a. Connect each EUT's antenna output to power sensor by RF cable and attenuator
- b. Measure the PK output power of each antenna port by power sensor.

#### 4.3 TEST SETUP



## 4.5 test results

TestMode	Channel (MHz)	Result (dBm)	Limit (dBm)	Verdict
802.11b	2412MHz	7.24	30	Pass
802.11b	2437MHz	6.95	30	Pass
802.11b	2462MHz	7.09	30	Pass
802.11g	2412MHz	7.02	30	Pass
802.11g	2437MHz	6.84	30	Pass
802.11g	2462MHz	7.03	30	Pass
802.11n 20	2412MHz	6.75	30	Pass
802.11n 20	2437MHz	6.71	30	Pass
802.11n 20	2462MHz	6.42	30	Pass
802.11n 40	2422MHz	4.70	30	Pass
802.11n 40	2437MHz	4.48	30	Pass
802.11n 40	2452MHz	4.40	30	Pass



## 5. POWER SPECTRAL DENSITY

#### 5.1 LIMIT

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

#### 5.2 TEST PROCEDURE

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the spectrum analyzer as follows:

Center frequency DTS Channel center frequency

RBW: 100 kHz ≤ RBW ≤500 kHz

VBW: ≥ 3RBW

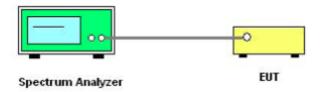
Span 1.5 times the DTS bandwidth

Detector Mode: Pake Sweep time: auto

Trace mode Max hold

- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW
- (4) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 5.3 TEST SETUP



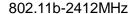


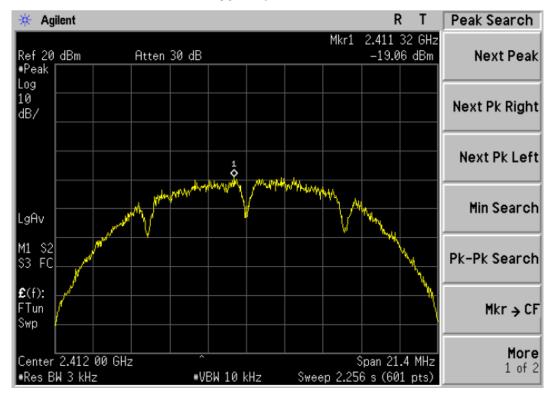
## 5.4 TEST RESULTS

TestMode	Channel (MHz)	Result (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
802.11b	2412MHz	-19.06	8	Pass
802.11b	2437MHz	-19.45	8	Pass
802.11b	2462MHz	-19.30	8	Pass
802.11g	2412MHz	-21.26	8	Pass
802.11g	2437MHz	-21.28	8	Pass
802.11g	2462MHz	-21.95	8	Pass
802.11n 20	2412MHz	-21.08	8	Pass
802.11n 20	2437MHz	-21.04	8	Pass
802.11n 20	2462MHz	-21.79	8	Pass
802.11n 40	2422MHz	-25.83	8	Pass
802.11n 40	2437MHz	-26.11	8	Pass
802.11n 40	2452MHz	-26.37	8	Pass

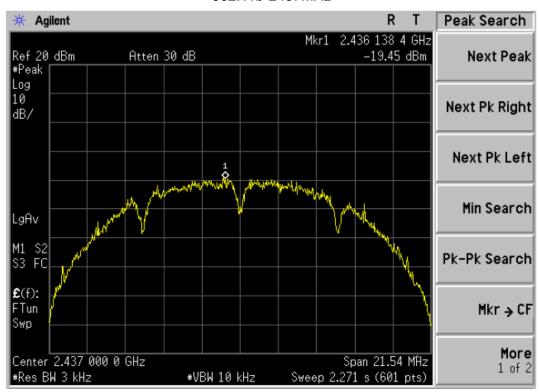


## 5.5 original test data



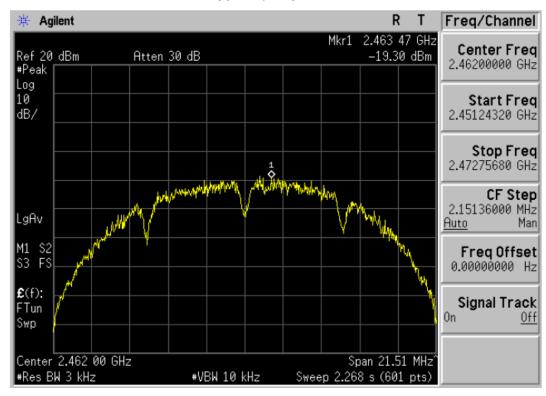


802.11b-2437MHz

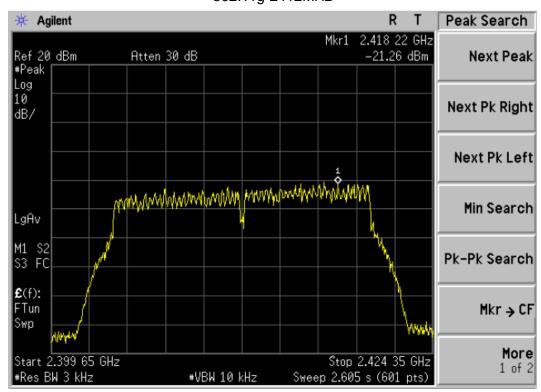




#### 802.11b-2462MHz

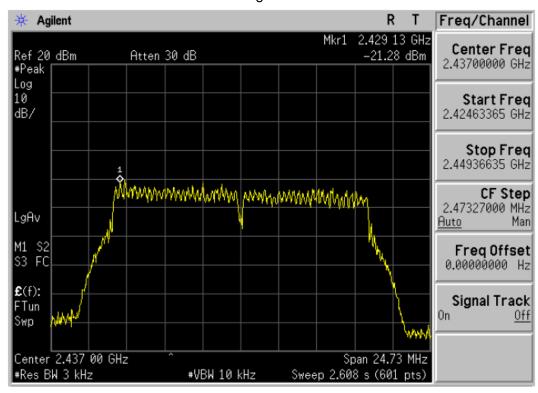


802.11g-2412MHz

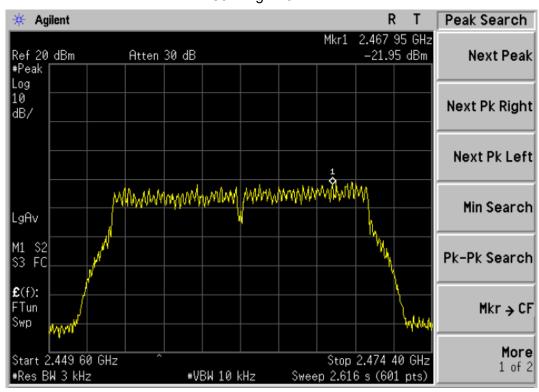




## 802.11g-2437MHz

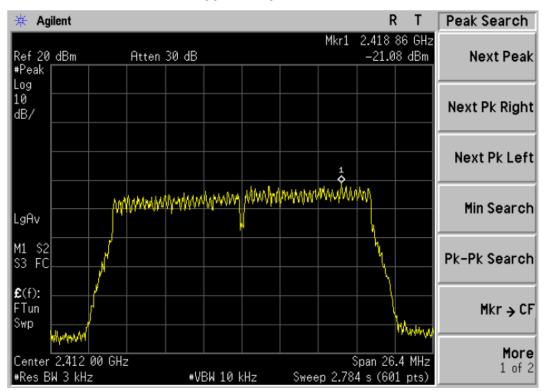


## 802.11g-2462MHz

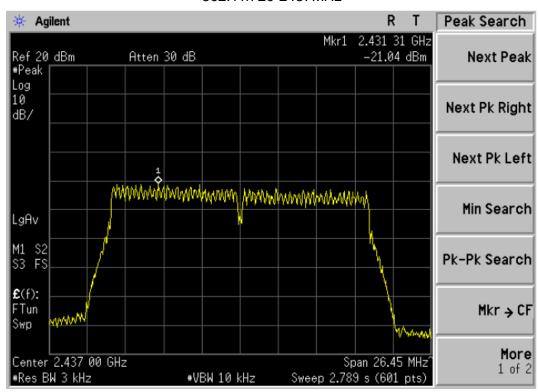




#### 802.11n 20-2412MHz

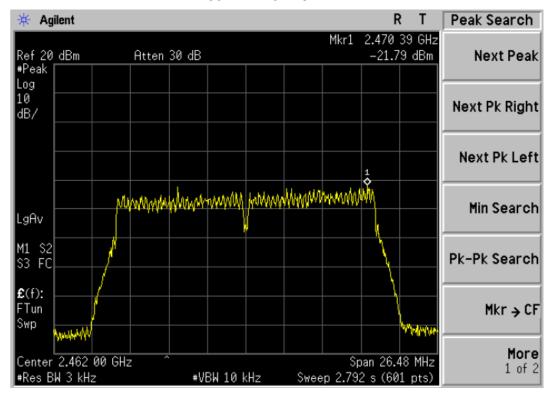


#### 802.11n 20-2437MHz

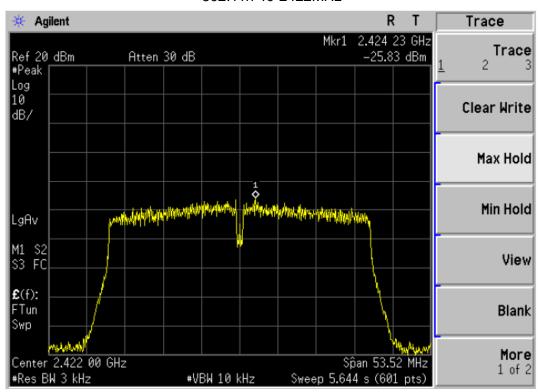




#### 802.11n 20-2462MHz

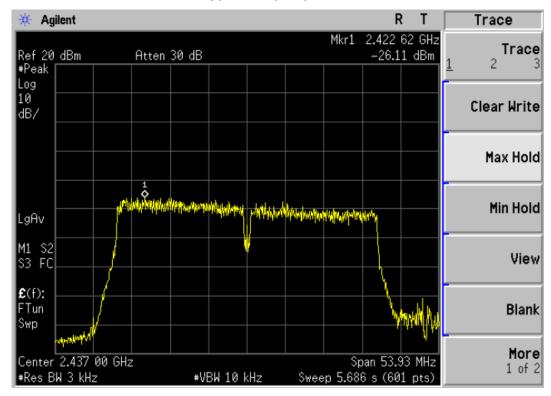


#### 802.11n 40-2422MHz

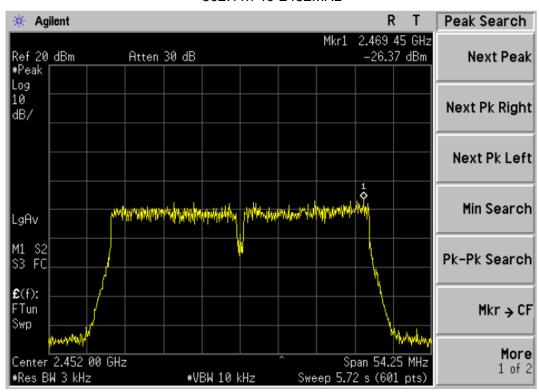




## 802.11n 40-2437MHz



#### 802.11n 40-2452MHz





## 6. Band edge and spurious(conducted)

#### 6.1 LIMIT

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 30dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

#### **6.2 TEST PROCEDURE**

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

Center frequency DTS Channel center

frequency

RBW: 100kHz VBW: 300kHz

Span 1.5times the DTS bandwidth

Detector Mode: Peak
Sweep time: auto

Trace mode Max hold

- (3) Establish Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Set the spectrum analyzer as follows:

RBW: 100kHz VBW: 300kHz

Span Encompass frequency range to be

measured

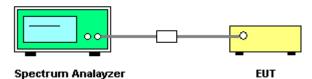
Number of measurement points ≥span/RBW

Detector Mode: Peak
Sweep time: auto

Trace mode Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

#### 6.3 TEST SETUP



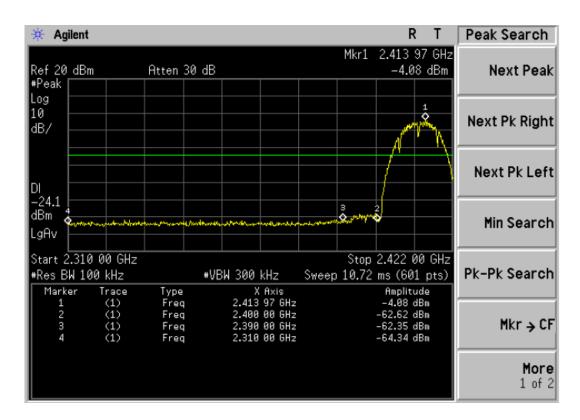


## 6.5 TEST RESULTS

Eut set mode	CH or Frequency	Result
802.11b	CH1	Pass
	CH11	Pass
802.11g	CH1	Pass
	CH11	Pass
802.11n 20	CH1	Pass
	CH11	Pass
802.11n 40	CH3	Pass
	CH9	Pass

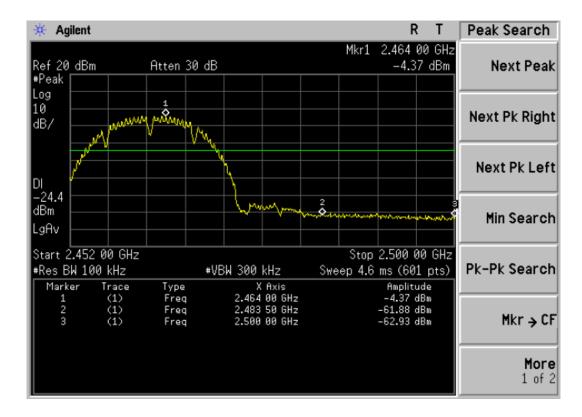
## 6.5 Original test data

#### 802.11b Low CH

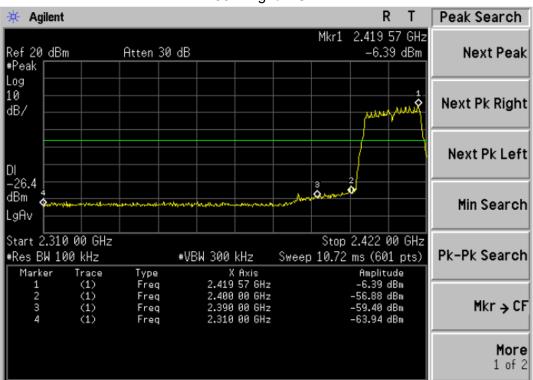




#### 802.11b High CH

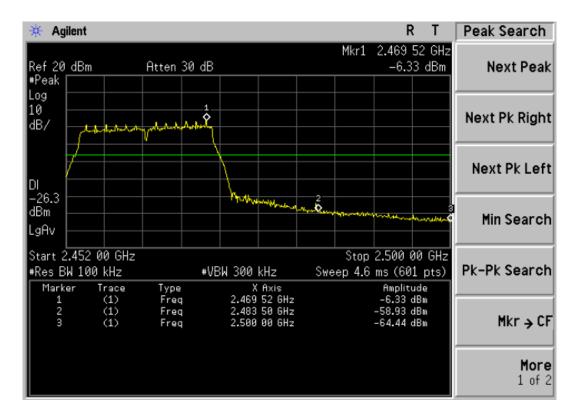


## 802.11g low CH

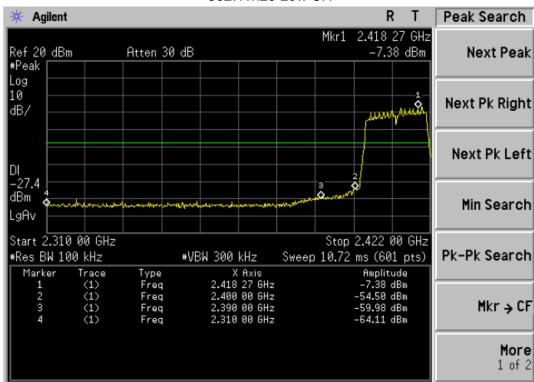




#### 802.11g high CH

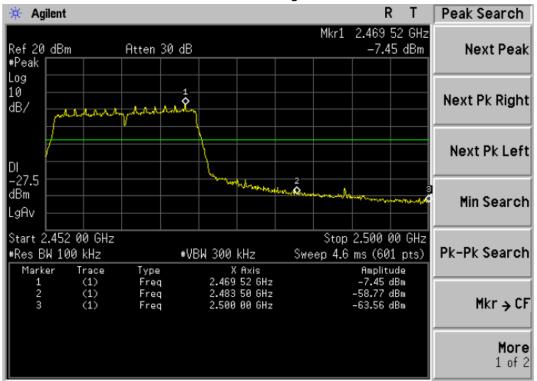


#### 802.11n20 Low CH

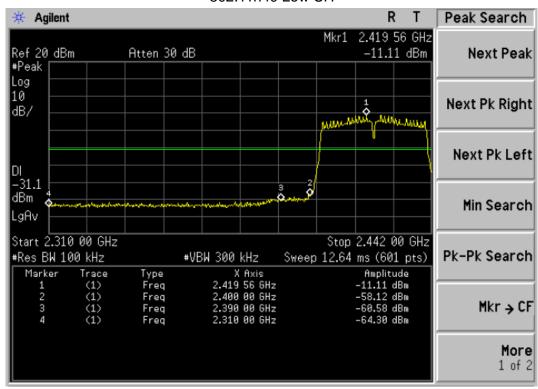




#### 802.11n20 High CH

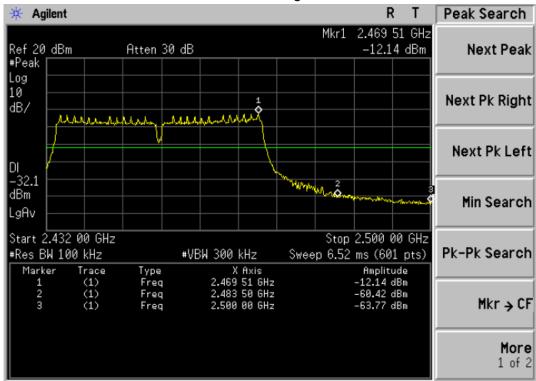


#### 802.11n40 Low CH





## 802.11n40 High CH

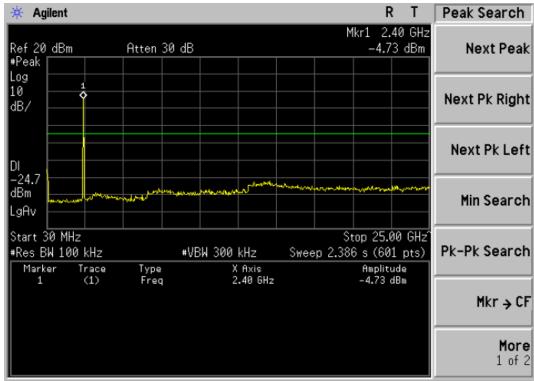




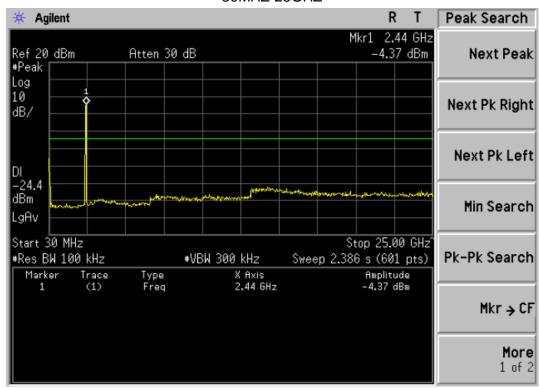
Report No.: FCS202108006W02

## Spurious emissions (802.11b)

## 802.11b low CH, 2412MHZ 30MHZ-25GHZ

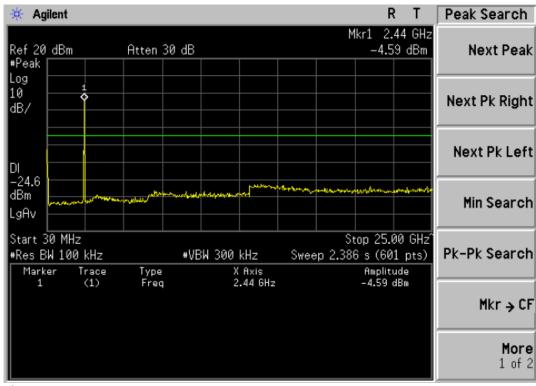


802.11b Middle CH, 2437MHz 30MHZ-25GHZ



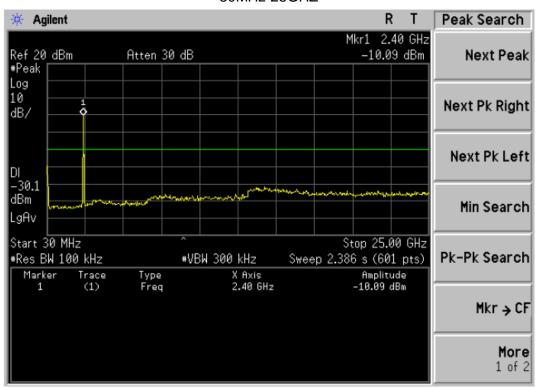


# 802.11b High CH, 2462MHz 30MHZ-25GHZ



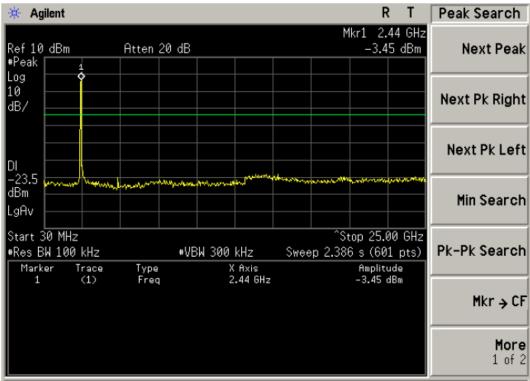
(802.11g)

802.11g Low CH, 2412MHz 30MHz-25GHZ

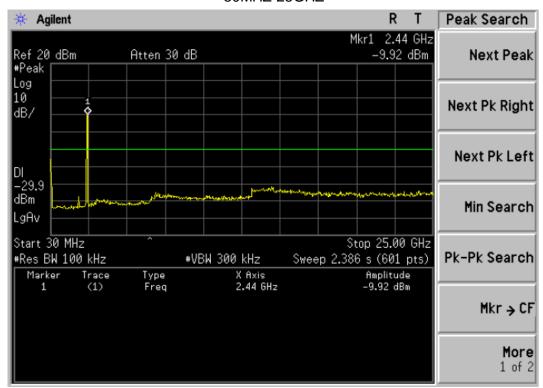




# 802.11g Middle CH, 2437MHz 30MHz-25GHZ

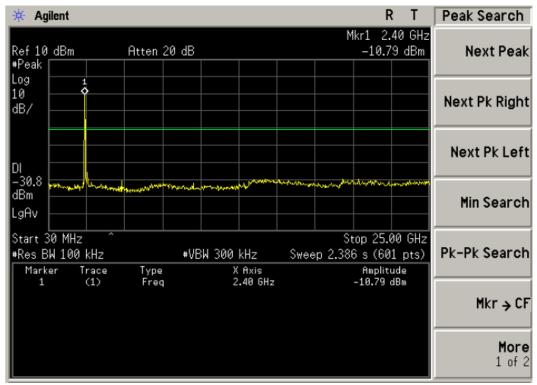


802.11g High CH, 2462MHz 30MHZ-25GHZ

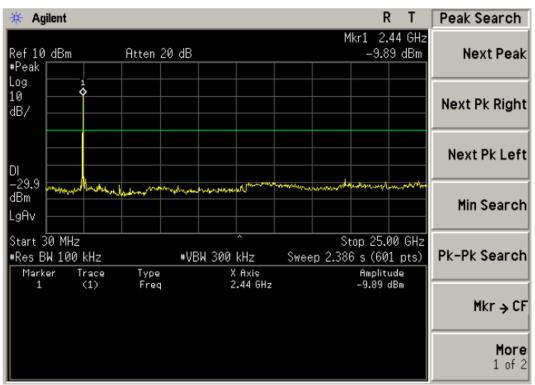




# 802.11n 20 Low CH, 2412MHz 30MHZ-25GHZ

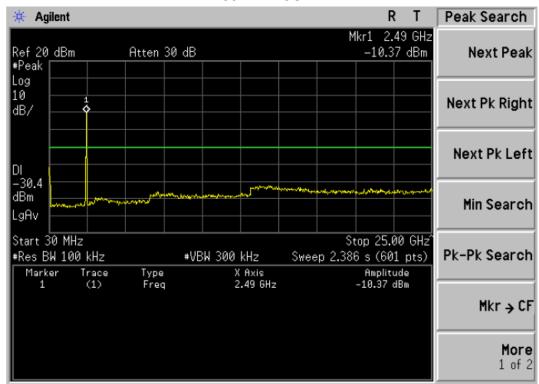


802.11n 20 Middle CH, 2437MHz 30MHZ-25GHZ

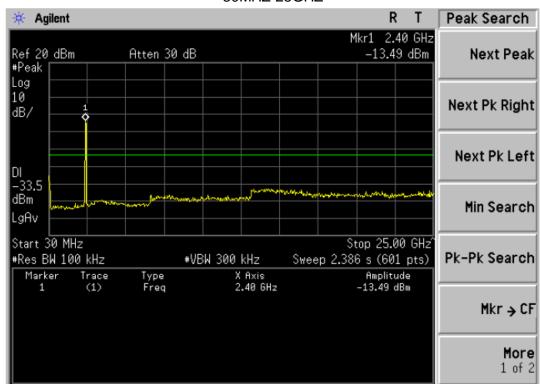




# 802.11n 20 High CH, 2462MHz 30MHZ-25GHZ

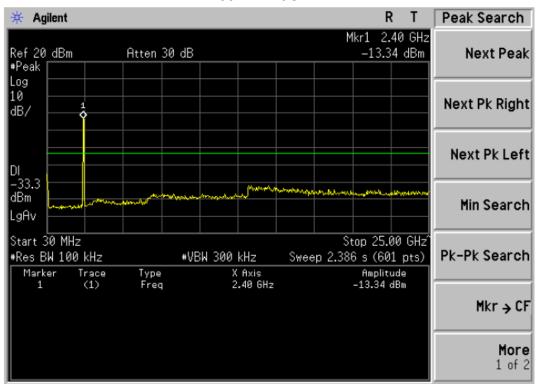


802.11n 40 Low CH, 2422MHz 30MHZ-25GHZ

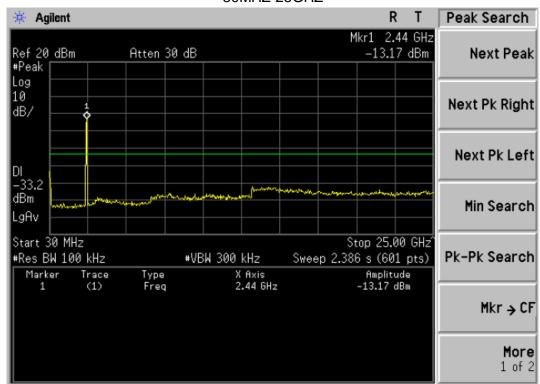




# 802.11n 40 Middle CH, 2437MHz 30MHZ-25GHZ



802.11n 40 High CH, 2452MHz 30MHZ-25GHZ





#### **7 RADIATED EMISSION MEASUREMENT**

#### 7.1 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)

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 (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
FREQUENCT (IVID2)	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/AV		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	DIC ANALIS (ANALIS ANALIS ANALIS (AO LIS		
band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz		

#### For Band edge

Spectrum Parameter	Setting		
Detector	Peak/AV		
Start/Stan Eraguanay	Lower Band Edge: 2300 to 2403 MHz		
Start/Stop Frequency	Upper Band Edge: 2479 to 2500 MHz		
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz / 10 Hz		



Receiver Parameter	Setting
Attenuation	Auto
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

#### 7.2 TEST PROCEDURE

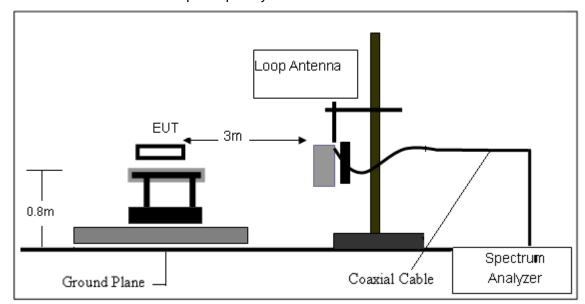
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to 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 QuasiPeak 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 performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

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

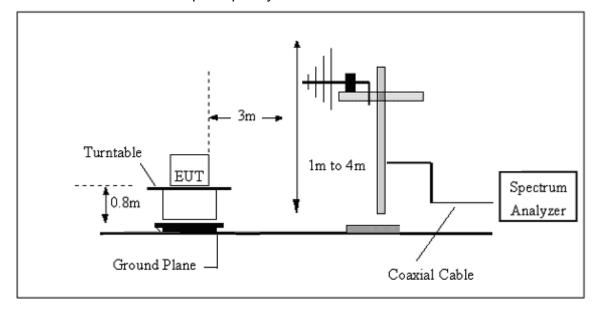


# 7.3 TESTSETUP

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

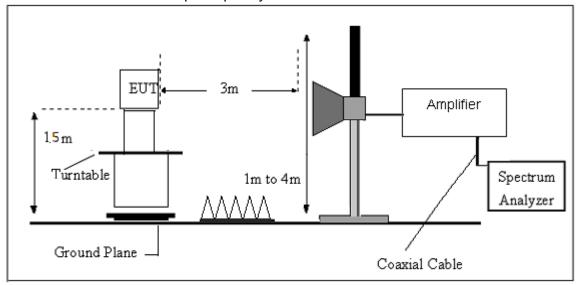


# (B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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





#### 7.4. TEST RESULTS

# (9KHz-30MHz)

Temperature:	22.7℃	Relative Humidity:	61%
Test Voltage:	DC 5V	Test Mode:	802.11b

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

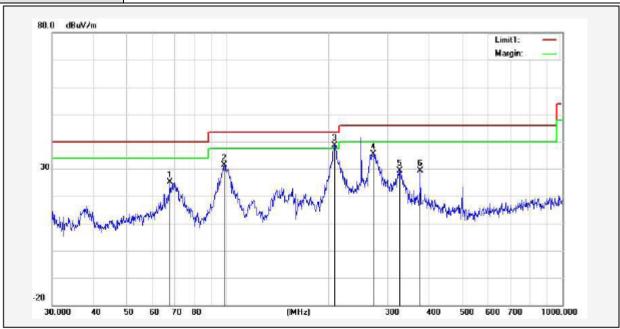
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

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



# (30MHz-1000MHz)

Temperature:	24.7℃	Relative Humidity:	61%
Test Voltage:	DC 5V	Phase:	Horizontal
Test Mode:	802.11b(worst)		



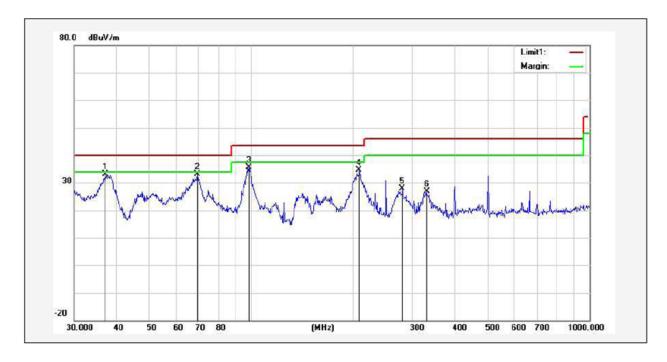
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	67.4382	44.58	-19.52	25.06	40.00	-14.94	QP
2	98.1420	50.35	-18.87	31.48	43.50	-12.02	QP
3	207.8501	56.55	-17.91	38.64	43.50	-4.86	QP
4	271.3246	52.41	-17.01	35.40	46.00	-10.60	QP
5	326.7395	44.81	-15.45	29.36	46.00	-16.64	QP
6	375.9385	44.40	-14.94	29.46	46.00	-16.54	QP

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

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



Temperature:	22.7°C	Relative Humidity:	61%
Test Voltage:	DC 5V	Phase:	Vertical
Test Mode:	ON		



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.1550	60.72	-27.61	33.11	40.00	-6.89	QP
2	69.3568	63.22	-30.21	33.01	40.00	-6.99	QP
3	98.4866	64.40	-28.81	35.59	43.50	-7.91	QP
4	208.5803	62.59	-27.91	34.68	43.50	-8.82	QP
5	280.0237	54.53	-26.72	27.81	46.00	-18.19	QP
6	330.1950	52.30	-25.38	26.92	46.00	-19.08	QP

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

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



# (1GHz~25GHz) Restricted band and Spurious emission Requirements 802.11b(Worst)-Low

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.80	31.79	8.62	32.10	48.11	74.00	-25.89	Vertical
7236.00	33.91	36.19	11.68	31.97	49.81	74.00	-24.19	Vertical
9648.00	32.49	38.07	14.16	31.56	53.16	74.00	-20.84	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.55	31.79	8.62	32.10	46.86	74.00	-27.14	Horizontal
7236.00	33.70	36.19	11.68	31.97	49.60	74.00	-24.40	Horizontal
9648.00	32.09	38.07	14.16	31.56	52.76	74.00	-21.24	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

# Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.93	31.79	8.62	32.10	37.24	54.00	-16.76	Vertical
7236.00	22.79	36.19	11.68	31.97	38.69	54.00	-15.31	Vertical
9648.00	22.85	38.07	14.16	31.56	43.52	54.00	-10.48	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.11	31.79	8.62	32.10	36.42	54.00	-17.58	Horizontal
7236.00	22.29	36.19	11.68	31.97	38.19	54.00	-15.81	Horizontal
9648.00	21.84	38.07	14.16	31.56	42.51	54.00	-11.49	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

#### Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



# 802.11b(Worst)-Middle

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.94	31.85	8.66	32.12	47.33	74.00	-26.67	Vertical
7311.00	34.03	36.37	11.71	31.91	50.20	74.00	-23.80	Vertical
9748.00	33.55	38.27	14.25	31.56	54.51	74.00	-19.49	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.49	31.85	8.66	32.12	47.88	74.00	-26.12	Horizontal
7311.00	32.71	36.37	11.71	31.91	48.88	74.00	-25.12	Horizontal
9748.00	33.45	38.27	14.25	31.56	54.41	74.00	-19.59	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.83	31.85	8.66	32.12	38.22	54.00	-15.78	Vertical
7311.00	22.36	36.37	11.71	31.91	38.53	54.00	-15.47	Vertical
9748.00	22.81	38.27	14.25	31.56	43.77	54.00	-10.23	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.62	31.85	8.66	32.12	38.01	54.00	-15.99	Horizontal
7311.00	21.80	36.37	11.71	31.91	37.97	54.00	-16.03	Horizontal
9748.00	23.17	38.27	14.25	31.56	44.13	54.00	-9.87	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal



# 802.11b(Worst)-High

#### Peak value:

	Dood	Antonna	Cable	Dragnan			Over	
Frequency (MHz)	Read Level (dBu∀)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.38	31.90	8.70	32.15	52.83	74.00	-21.17	∨ertical
7386.00	34.65	36.49	11.76	31.83	51.07	74.00	-22.93	Vertical
9848.00	36.80	38.62	14.31	31.77	57.96	74.00	-16.04	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.76	31.90	8.70	32.15	52.21	74.00	-21.79	Horizontal
7386.00	33.59	36.49	11.76	31.83	50.01	74.00	-23.99	Horizontal
9848.00	32.99	38.62	14.31	31.77	54.15	74.00	-19.85	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average var	uc.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.15	31.90	8.70	32.15	43.60	54.00	-10.40	Vertical
7386.00	24.45	36.49	11.76	31.83	40.87	54.00	-13.13	Vertical
9848.00	25.23	38.62	14.31	31.77	46.39	54.00	-7.61	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.00	31.90	8.70	32.15	42.45	54.00	-11.55	Horizontal
7386.00	22.88	36.49	11.76	31.83	39.30	54.00	-14.70	Horizontal
9848.00	22.18	38.62	14.31	31.77	43.34	54.00	-10.66	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal



# Radiated Band Edge data

Remark: All restriction band have been tested, and only the worst case is shown in report

#### 802.11 b low CH

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	51.73	27.59	5.38	34.01	50.69	74.00	-23.31	Horizontal
2400.00	60.76	27.58	5.39	34.01	59.72	74.00	-14.28	Horizontal
2390.00	53.41	27.59	5.38	34.01	52.37	74.00	-21.63	Vertical
2400.00	62.58	27.58	5.39	34.01	61.54	74.00	-12.46	Vertical

#### Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	38.47	27.59	5.38	34.01	37.43	54.00	-16.57	Horizontal
2400.00	46.77	27.58	5.39	34.01	45.73	54.00	-8.27	Horizontal
2390.00	40.29	27.59	5.38	34.01	39.25	54.00	-14.75	Vertical
2400.00	47.90	27.58	5.39	34.01	46.86	54.00	-7.14	Vertical

# 802.11 b High CH

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	52.42	27.53	5.47	33.92	51.50	74.00	-22.50	Horizontal
2500.00	48.22	27.55	5.49	29.93	51.33	74.00	-22.67	Horizontal
2483.50	54.69	27.53	5.47	33.92	53.77	74.00	-20.23	Vertical
2500.00	50.74	27.55	5.49	29.93	53.85	74.00	-20.15	Vertical

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.84	27.53	5.47	33.92	37.92	54.00	-16.08	Horizontal
2500.00	34.93	27.55	5.49	29.93	38.04	54.00	-15.96	Horizontal
2483.50	40.80	27.53	5.47	33.92	39.88	54.00	-14.12	Vertical
2500.00	36.81	27.55	5.49	29.93	39.92	54.00	-14.08	Vertical



# 802.11 g Low CH

# Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.31	27.59	5.38	34.01	49.27	74.00	-24.73	Horizontal
2400.00	58.88	27.58	5.39	34.01	57.84	74.00	-16.16	Horizontal
2390.00	51.90	27.59	5.38	34.01	50.86	74.00	-23.14	Vertical
2400.00	60.32	27.58	5.39	34.01	59.28	74.00	-14.72	Vertical

# Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.46	27.59	5.38	34.01	36.42	54.00	-17.58	Horizontal
2400.00	45.61	27.58	5.39	34.01	44.57	54.00	-9.43	Horizontal
2390.00	39.17	27.59	5.38	34.01	38.13	54.00	-15.87	Vertical
2400.00	46.63	27.58	5.39	34.01	45.59	54.00	-8.41	Vertical

# 802.11 g High CH

# Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.40	27.53	5.47	33.92	49.48	74.00	-24.52	Horizontal
2500.00	46.65	27.55	5.49	29.93	49.76	74.00	-24.24	Horizontal
2483.50	52.38	27.53	5.47	33.92	51.46	74.00	-22.54	Vertical
2500.00	48.91	27.55	5.49	29.93	52.02	74.00	-21.98	Vertical

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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.62	27.53	5.47	33.92	36.70	54.00	-17.30	Horizontal
2500.00	33.98	27.55	5.49	29.93	37.09	54.00	-16.91	Horizontal
2483.50	39.45	27.53	5.47	33.92	38.53	54.00	-15.47	Vertical
2500.00	35.81	27.55	5.49	29.93	38.92	54.00	-15.08	Vertical



#### 802.11 N 20 Low CH

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.30	27.59	5.38	34.01	49.26	74.00	-24.74	Horizontal
2400.00	58.86	27.58	5.39	34.01	57.82	74.00	-16.18	Horizontal
2390.00	51.88	27.59	5.38	34.01	50.84	74.00	-23.16	Vertical
2400.00	60.29	27.58	5.39	34.01	59.25	74.00	-14.75	Vertical

# Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.45	27.59	5.38	34.01	36.41	54.00	-17.59	Horizontal
2400.00	45.60	27.58	5.39	34.01	44.56	54.00	-9.44	Horizontal
2390.00	39.16	27.59	5.38	34.01	38.12	54.00	-15.88	Vertical
2400.00	46.62	27.58	5.39	34.01	45.58	54.00	-8.42	Vertical

# 802.11 N 20 High CH

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.95	27.53	5.47	33.92	50.03	74.00	-23.97	Horizontal
2500.00	47.08	27.55	5.49	29.93	50.19	74.00	-23.81	Horizontal
2483.50	53.02	27.53	5.47	33.92	52.10	74.00	-21.90	Vertical
2500.00	49.42	27.55	5.49	29.93	52.53	74.00	-21.47	Vertical

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.96	27.53	5.47	33.92	37.04	54.00	-16.96	Horizontal
2500.00	34.24	27.55	5.49	29.93	37.35	54.00	-16.65	Horizontal
2483.50	39.82	27.53	5.47	33.92	38.90	54.00	-15.10	Vertical
2500.00	36.08	27.55	5.49	29.93	39.19	54.00	-14.81	Vertical



#### 802.11 N 40 Low CH

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.61	27.59	5.38	34.01	48.57	74.00	-25.43	Horizontal
2400.00	57.94	27.58	5.39	34.01	56.90	74.00	-17.10	Horizontal
2390.00	51.15	27.59	5.38	34.01	50.11	74.00	-23.89	Vertical
2400.00	59.19	27.58	5.39	34.01	58.15	74.00	-15.85	Vertical

# Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.96	27.59	5.38	34.01	35.92	54.00	-18.08	Horizontal
2400.00	45.03	27.58	5.39	34.01	43.99	54.00	-10.01	Horizontal
2390.00	38.62	27.59	5.38	34.01	37.58	54.00	-16.42	Vertical
2400.00	46.00	27.58	5.39	34.01	44.96	54.00	-9.04	Vertical

# 802.11 N 40 High CH

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.39	27.53	5.47	33.92	48.47	74.00	-25.53	Horizontal
2500.00	45.87	27.55	5.49	29.93	48.98	74.00	-25.02	Horizontal
2483.50	51.24	27.53	5.47	33.92	50.32	74.00	-23.68	Vertical
2500.00	48.00	27.55	5.49	29.93	51.11	74.00	-22.89	Vertical

# Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.02	27.53	5.47	33.92	36.10	54.00	-17.90	Horizontal
2500.00	33.51	27.55	5.49	29.93	36.62	54.00	-17.38	Horizontal
2483.50	38.78	27.53	5.47	33.92	37.86	54.00	-16.14	Vertical
2500.00	35.31	27.55	5.49	29.93	38.42	54.00	-15.58	Vertical

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



#### **8 CONDUCTED EMISSION TEST**

#### 8.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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

EDEOLIENCY (MH-)	Conducted Emissionlimit (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

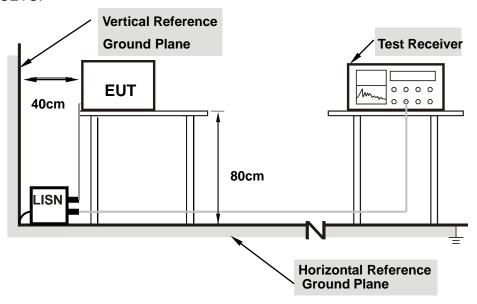
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



#### 8.1.2 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.

#### 8.1.3 TEST SETUP



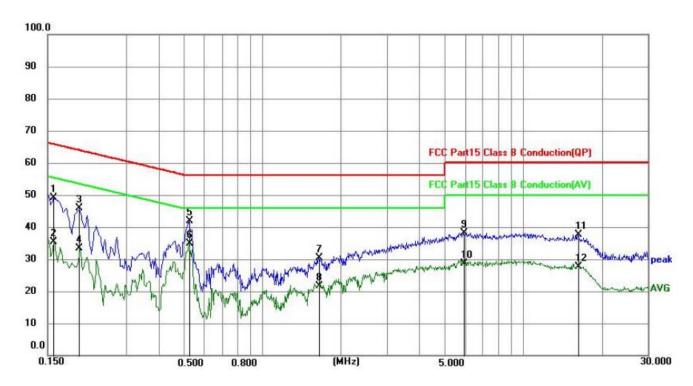
Note: 1.Support units were connected to second LISN.

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



# 8.1.4 TEST RESULT

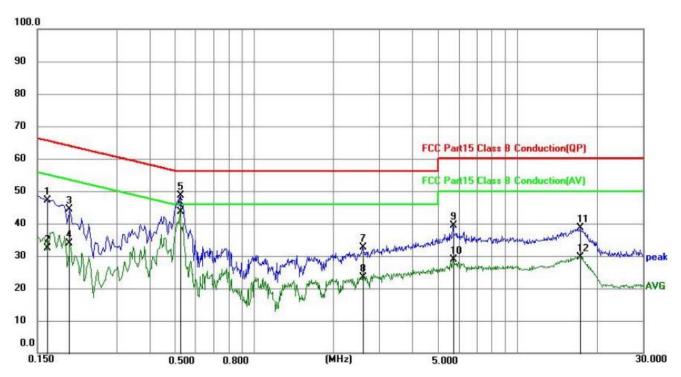
Temperature:	22.1 °C	Relative Humidity:	56%
Test Voltage:	DC 5V	Phase:	L
Test Mode:	802.11b(worst)		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1590	39.28	9.78	49.06	65.52	16.46	QP
2	0.1590	25.58	9.78	35.36	55.52	20.16	AVG
3	0.1995	36.01	9.80	45.81	63.63	17.82	QP
4	0.1995	23.69	9.80	33.49	53.63	20.14	AVG
5	0.5235	32.01	9.87	41.88	56.00	14.12	QP
6	0.5235	25.07	9.87	34.94	46.00	11.06	AVG
7	1.6440	17.30	13.15	30.45	56.00	25.55	QP
8	1.6440	8.45	13.15	21.60	46.00	24.40	AVG
9	5.9055	18.23	19.97	38.20	60.00	21.80	QP
10	5.9055	8.65	19.97	28.62	50.00	21.38	AVG
11	16.2060	17.50	20.13	37.63	60.00	22.37	QP
12	16.2060	7.58	20.13	27.71	50.00	22.29	AVG



Temperature:	22.1 °C	Relative Humidity:	56%		
Test Voltage:	DC 5V	Phase:	N		
Test Mode:	802.11b(worst)				



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1624	37.31	9.77	47.08	65.34	18.26	QP
2	0.1624	22.64	9.77	32.41	55.34	22.93	AVG
3	0.1995	34.47	9.80	44.27	63.63	19.36	QP
4	0.1995	24.10	9.80	33.90	53.63	19.73	AVG
5	0.5235	38.78	9.87	48.65	56.00	7.35	QP
6	0.5235	33.80	9.87	43.67	46.00	2.33	AVG
7	2.5845	16.78	15.93	32.71	56.00	23.29	QP
8	2.5845	7.47	15.93	23.40	46.00	22.60	AVG
9	5.7120	19.43	20.05	39.48	60.00	20.52	QP
10	5.7120	8.82	20.05	28.87	50.00	21.13	AVG
11	17.2950	18.42	20.22	38.64	60.00	21.36	QP
12	17.2950	9.33	20.22	29.55	50.00	20.45	AVG



#### 9. ANTENNA REQUIREMENT

#### 9.1 STANDARD REQUIREMENT

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 9.2 RESULT

The antennas used for this product are PIFA antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.0dBi.

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