



EUROFINS TESTING TECHNOLOGY(SHENZHEN)Co., LTD.

FCC PART 15 RULES TEST REPORT

TEST REPORT NUMBER: EFSN13060712E-7



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Futian District, Shenzhen City, GD, Page 1 of 41
PRC 518040

General Information

Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

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Operator:

2013-7-17

Lody Guo



Date

Eurofins

Name

Signature

Technical responsibility for area of testing:

2013-7-17

Tom Tian



Date

Eurofins

Name

Signature

Test Report No.: EFSN13060712E-7

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All items were performed by Lody Guo at AGC.

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1. VERIFICATION OF CONFORMITY

Applicant	ARCHOS SA
Address	12 rue Ampère 91430 Igny, France
Manufacturer	ARCHOS SA
Address	12 rue Ampère 91430 Igny, France
Product Designation	10.1" platinum
Brand Name	ARCHOS
Test Model	AC101PL
Date of test	Jul.03 ~Jul.10, 2013
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-EC-IT/AC(2013-03-01)

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a “Communication Device”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.412 GHz~2.462GHz
Max. Output Power	IEEE 802.11g:18.79dBm(Max)
Modulation	CCK,OFDM,BPSK,DPSK,16-QAM,64-QAM
Data Rate	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11
Antenna Designation	Integrated Antenna
Antenna Gain	2.0dBi
Power Supply	DC 4.2V by Battery
Note: The EUT can be Operated during charging via USB (Adaptor or PC connecting).	

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11

2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS	NDBPS	Data rate(Mbps)
							800nsGI
					20MHz	20MHz	20MHz
0	1	BPSK	1/2	1	52	26	6.5
1	1	QPSK	1/2	2	104	52	13.0
2	1	QPSK	3/4	2	104	78	19.5
3	1	16-QAM	1/2	4	208	104	26.0
4	1	16-QAM	3/4	4	208	156	39.0
5	1	64-QAM	2/3	6	312	208	52.0
6	1	64-QAM	3/4	6	312	234	58.5
7	1	64-QAM	5/6	6	312	260	65.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID:** SOVAC101PL filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

Because the EUT received power from DC4.2V lithium battery, so only radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.6. SPECIAL ACCESSORIES

Refer to section 2.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB

Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating
Note: 1. Transmit by 802.11b with Data rate (1/2/5.5/11) Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54) Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)	

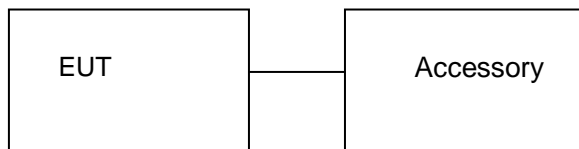
Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency individually.
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Table pc	ARCHOS	AC101PL	EUT
2	Battery	N/A	PL3669110P*2S	Accessory
3	Adapter	ARCHOS	THX-05200KDV	Accessory

Note: the following “EUT” in setup diagram means EUT system.

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

Note: The EUT received power from DC3.7V lithium battery.

6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	100323	07/18/2012	07/17/2013
RF attenuator	N/A	RFA20db	N/A	N/A	N/A
AGILENT	Agilent	E4440A	N/A	07/18/2012	07/17/2013
Spectrum Analyzer	Agilent	E4440A	N/A	07/18/2012	06/17/2013
Amplifier	EM	EM30180	0607030	07/18/2012	07/17/2013
Horn Antenna	EM	EM-AH-10180	N/A	07/18/2012	07/17/2013
Horn Antenna	A.H. Systems Inc.	SAS-574	--	07/18/2012	07/17/2013
EMI Test Receiver	Rohde & Schwarz	ESCI	N/A	07/18/2012	07/17/2013
Biological Antenna	A.H. Systems Inc.	SAS-521-4	N/A	07/18/2012	07/17/2013
Loop Antenna	A.H.	SAS-526B	264	07/18/2012	07/17/2013
Isolation Transformer	LETEAC	LTBK	--	07/18/2012	07/17/2013

7. PEAK OUTPUT POWER

For peak power test:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, middle and the bottom operation frequency individually.
4. Set the RBW=1M, VBW $\geq 3 \times$ RBW.
5. Record the maximum power from the Spectrum Analyzer.

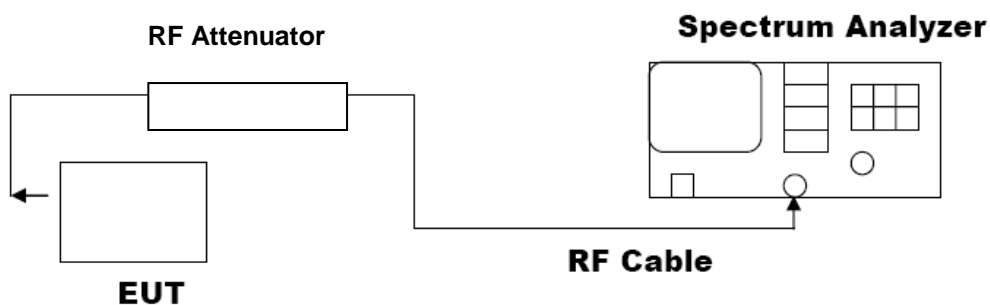
For average power test:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to power probe through an RF attenuator.
3. Connect the power probe to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.
5. The maximum peak power shall be less 1 Watt (30dBm).

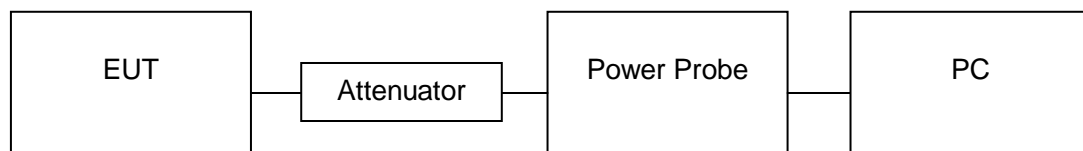
Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	PEAK POWER
TEST MODE	802.11b with data rate 1

LIMITS AND MEASUREMENT RESULT				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	14.32	16.19	30	Pass
2.437	14.52	16.37	30	Pass
2.462	15.45	17.33	30	Pass

TEST ITEM	PEAK POWER
TEST MODE	802.11g with data rate 6

LIMITS AND MEASUREMENT RESULT				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	16.45	18.32	30	Pass
2.437	16.78	18.66	30	Pass
2.462	16.98	18.79	30	Pass

TEST ITEM	PEAK POWER
TEST MODE	802.11n 20 with data rate 6.5

LIMITS AND MEASUREMENT RESULT				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	15.08	17	30	Pass
2.437	15.12	16.96	30	Pass
2.462	15.98	17.84	30	Pass

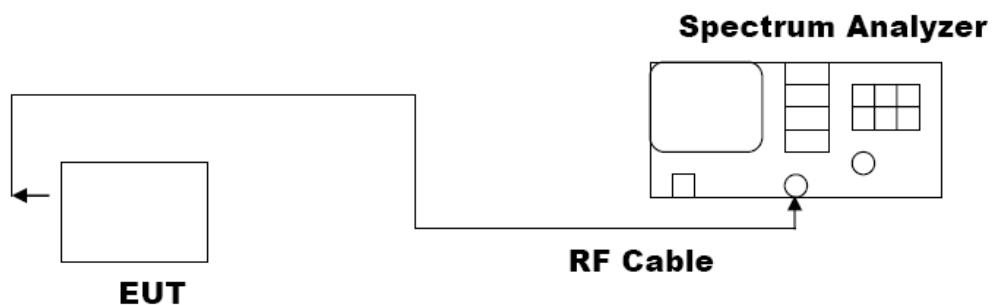
8. 6DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \geq RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11b with data rate 11

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	7.079	PASS
	Middle Channel	7.021	PASS
	High Channel	7.079	PASS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11g with data rate 54

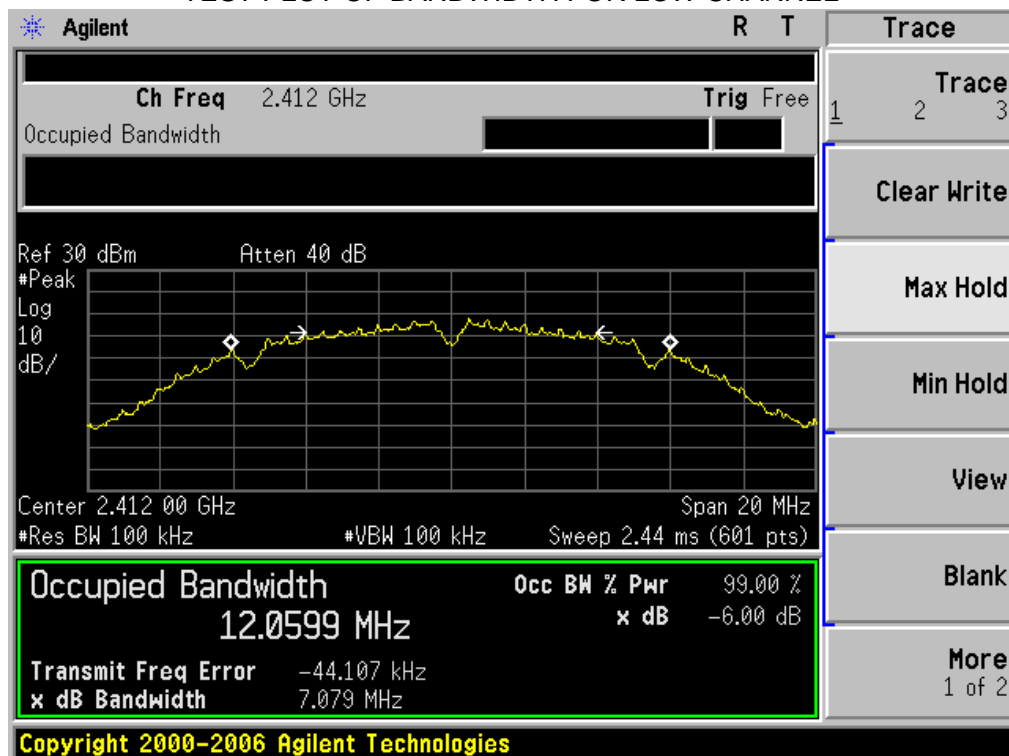
LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	15.952	PASS
	Middle Channel	15.104	PASS
	High Channel	15.124	PASS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 20 with data rate 65

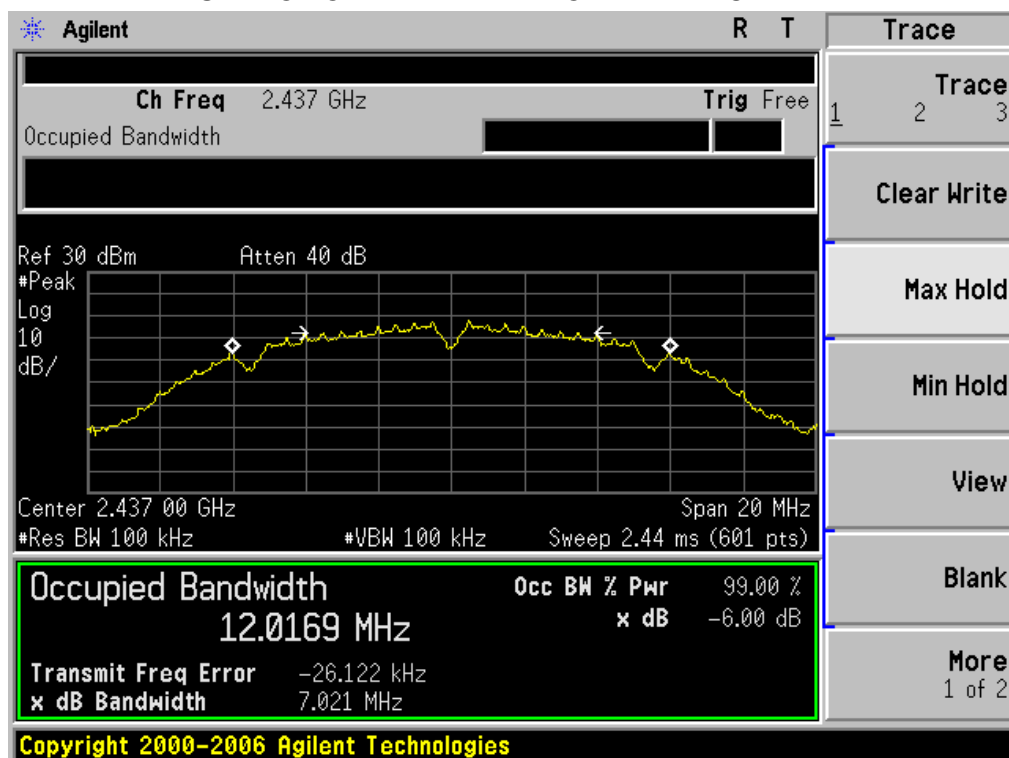
LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	17.050	PASS
	Middle Channel	17.325	PASS
	High Channel	17.311	PASS

802.11b TEST RESULT

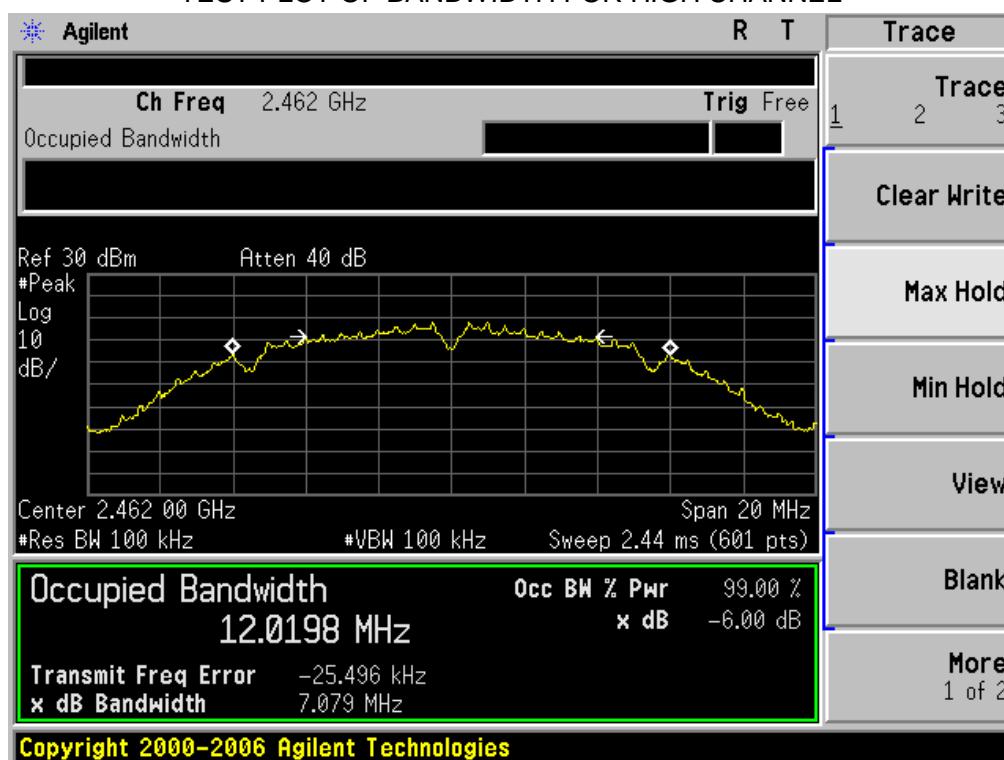
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

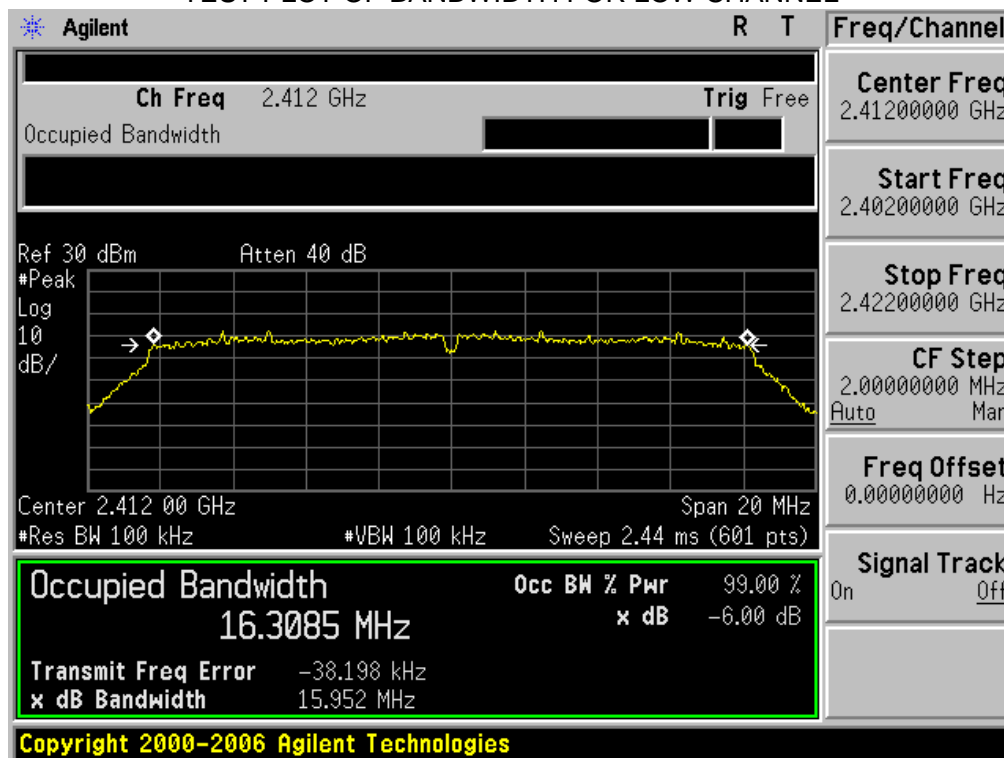


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

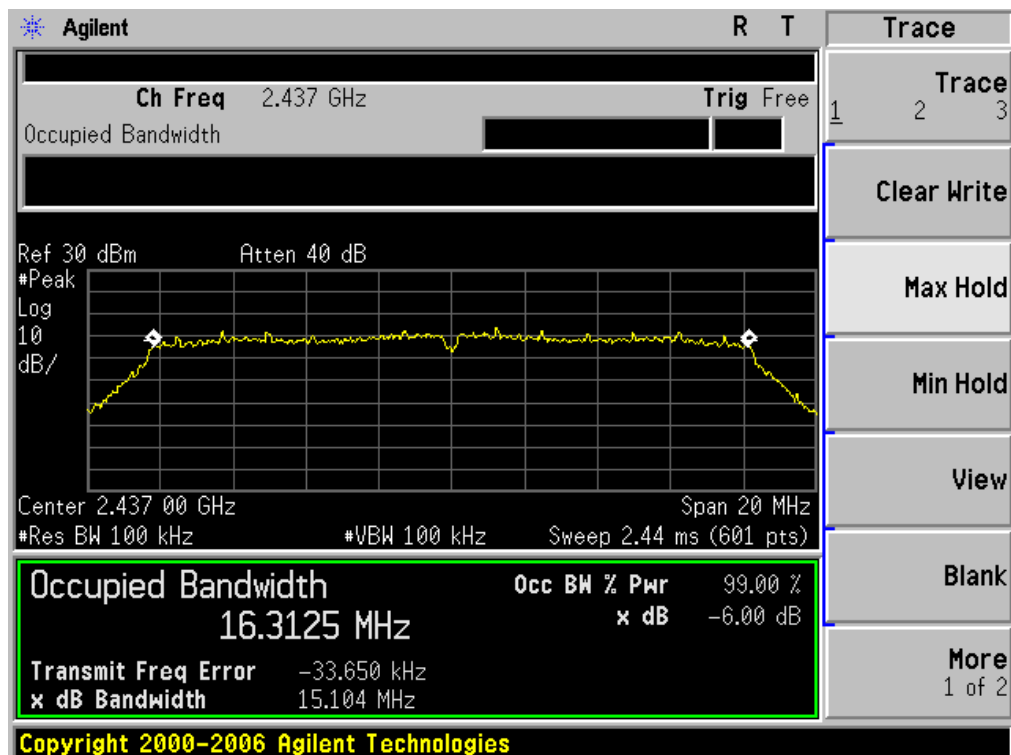


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

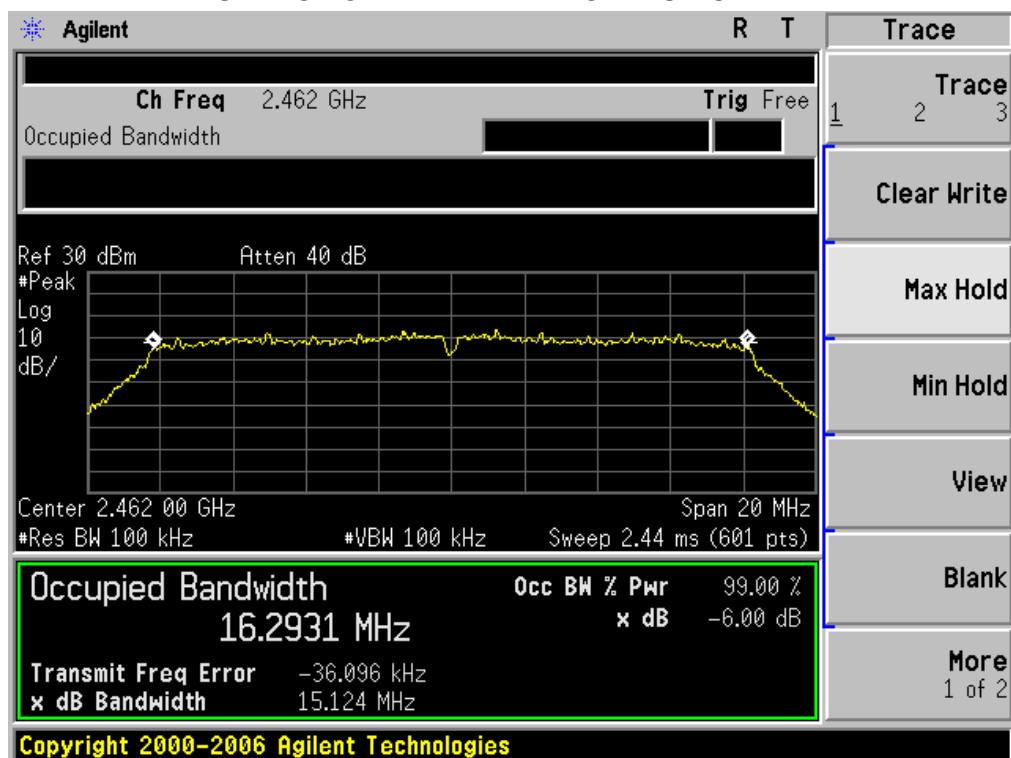
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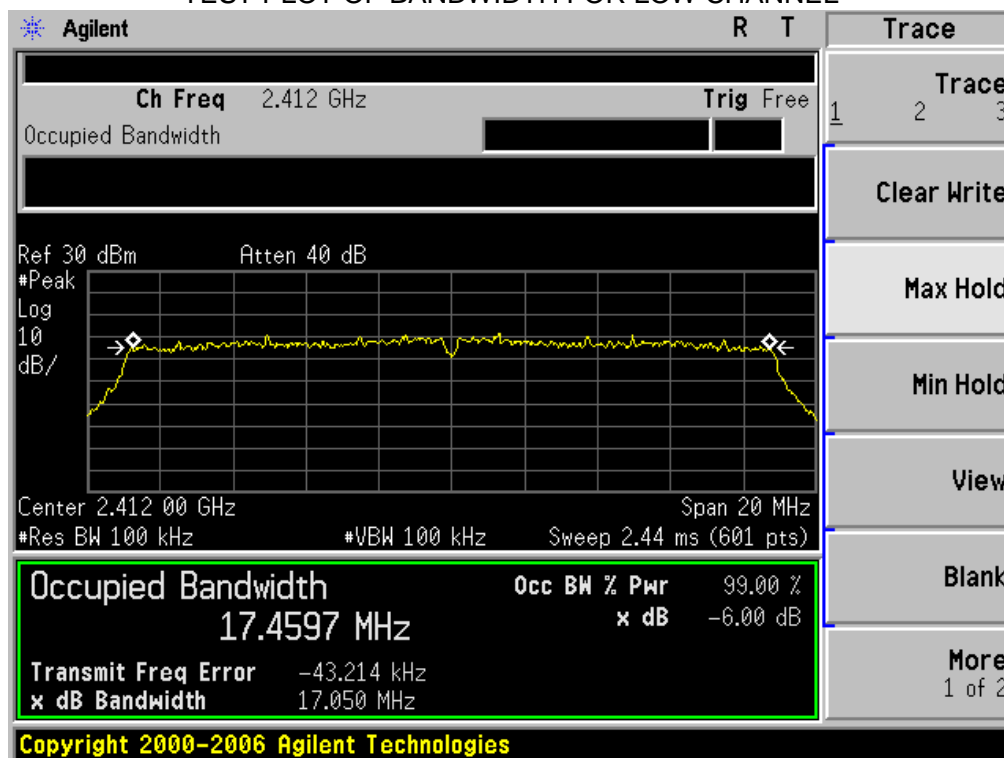


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

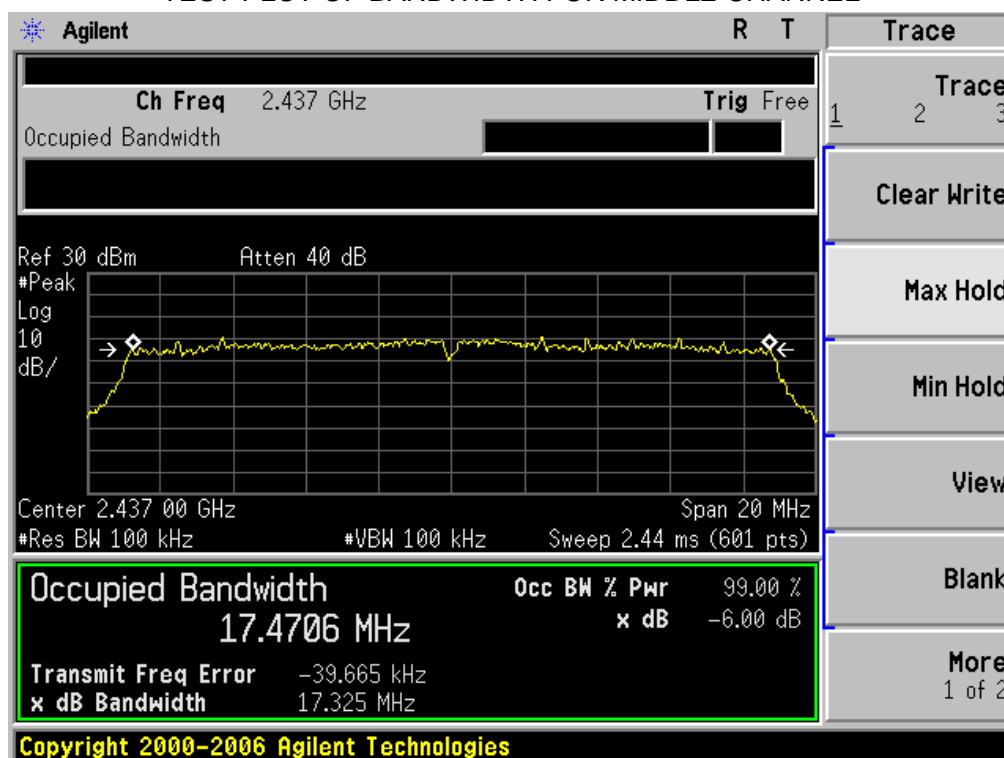


802.11n(20) TEST RESULT

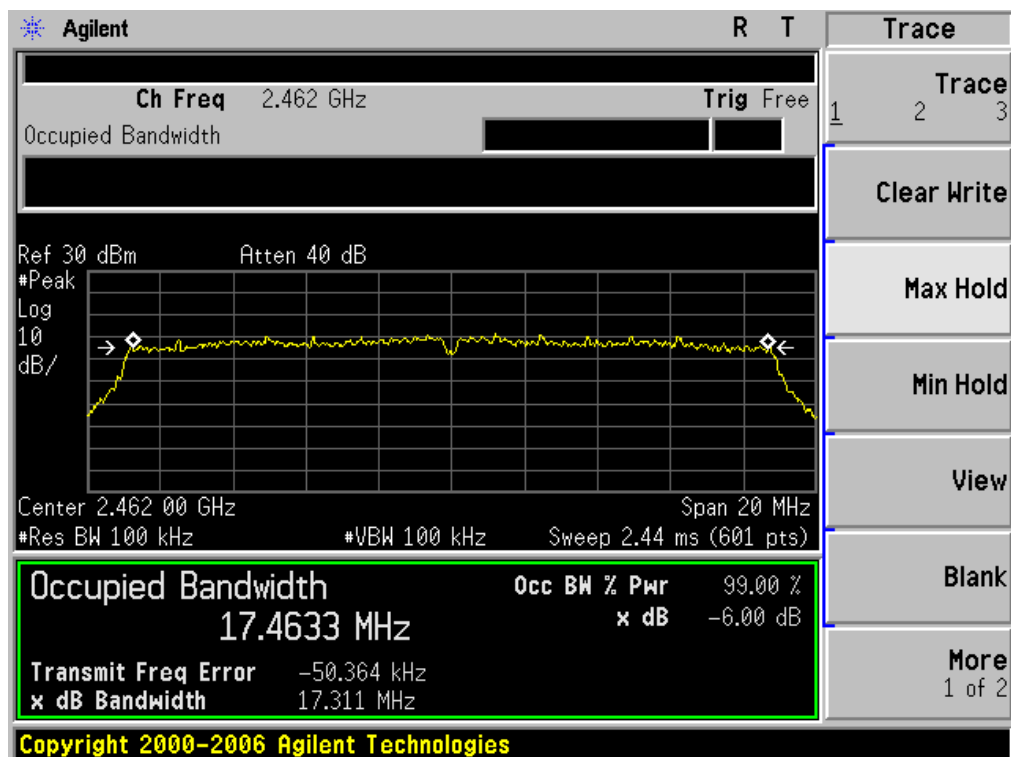
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 6.2

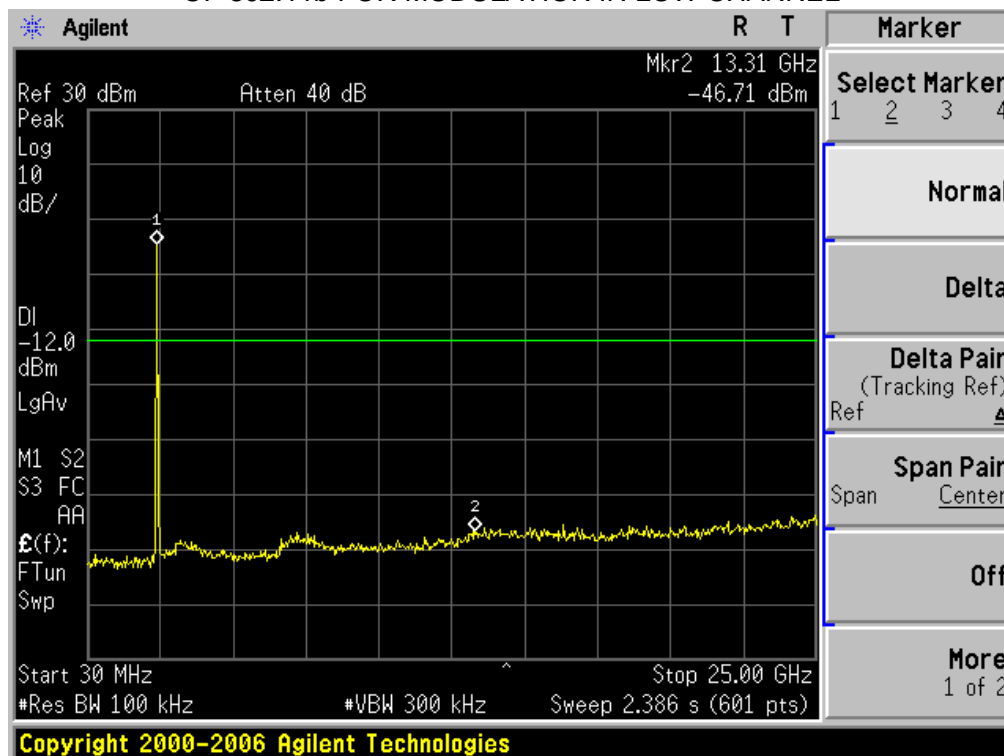
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

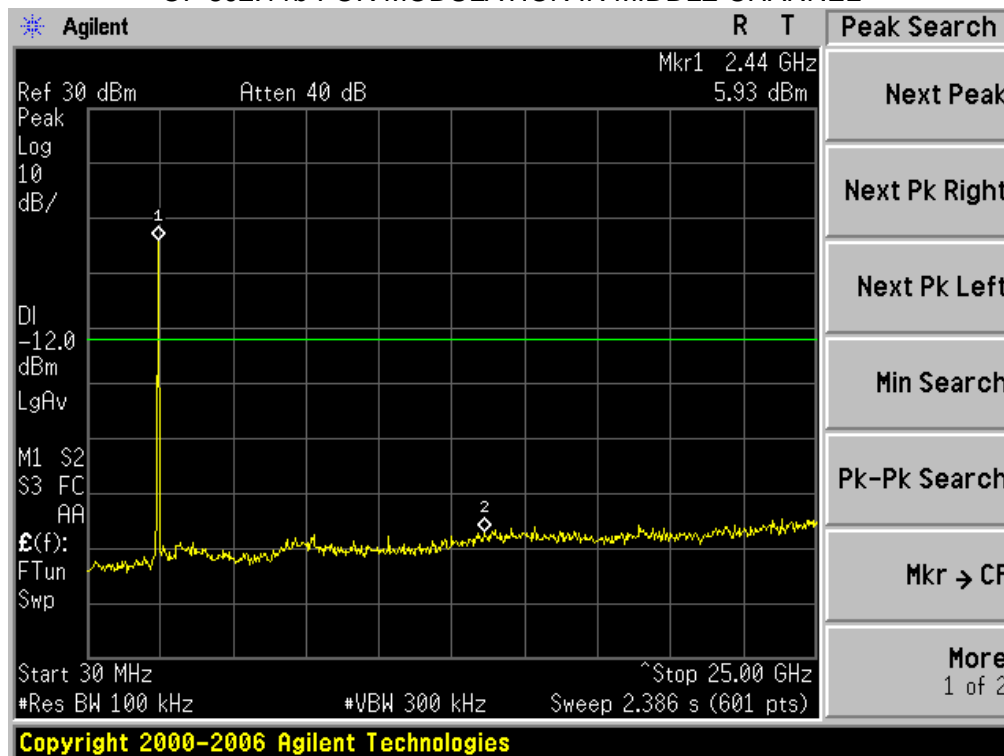
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

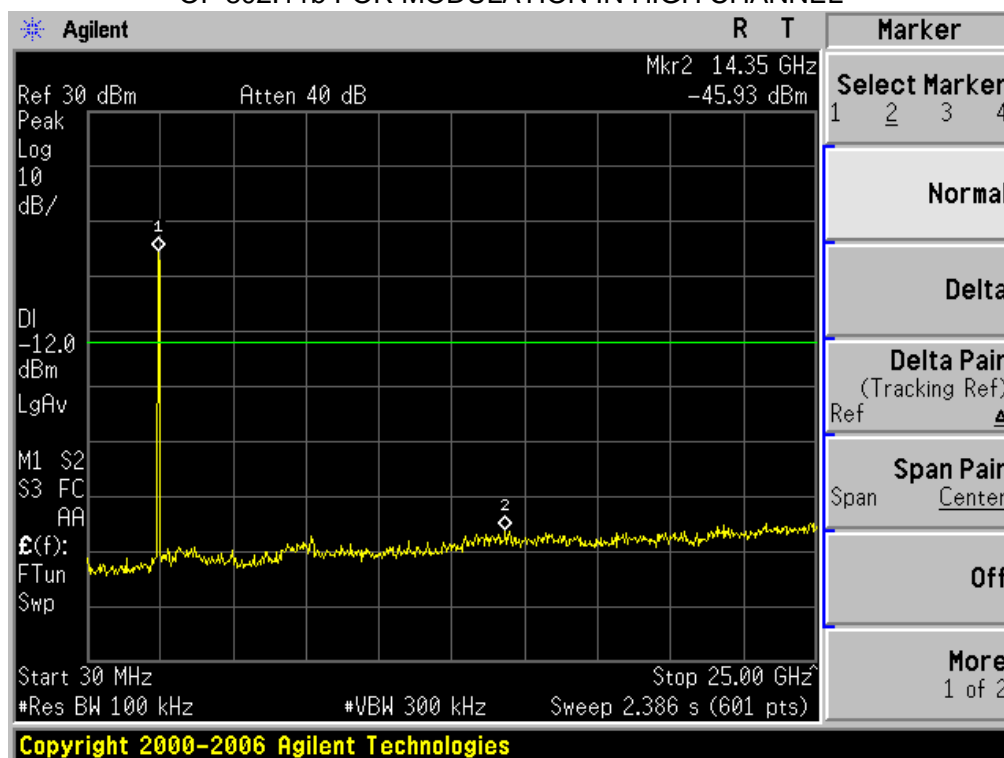
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11b FOR MODULATION IN LOW CHANNEL



TEST PLOT OF OUT OF BAND EMISSIONS
OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



TEST PLOT OF OUT OF BAND EMISSIONS OF 802.11b FOR MODULATION IN HIGH CHANNEL



10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW= 100 kHz, VBW \geq 300kHz, SPAN to 5-30 % greater than the EBW, Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3 \text{ kHz}/100\text{kHz}) = -15.2 \text{ dB}$.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 6.2

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.3

10.4 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11b with data rate 1

Channel No.	Reading Value (dBm)	BWCF (dB)	PSD (dBm)	Limit (dBm)	Result
Low Channel	-5.69	-15.2	-20.89	8	Pass
Middle Channel	-6.98	-15.2	-22.18	8	Pass
High Channel	-6.01	-15.2	-21.21	8	Pass

TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11g with data rate 6

Channel No.	Reading Value (dBm)	BWCF (dB)	PSD (dBm)	Limit (dBm)	Result
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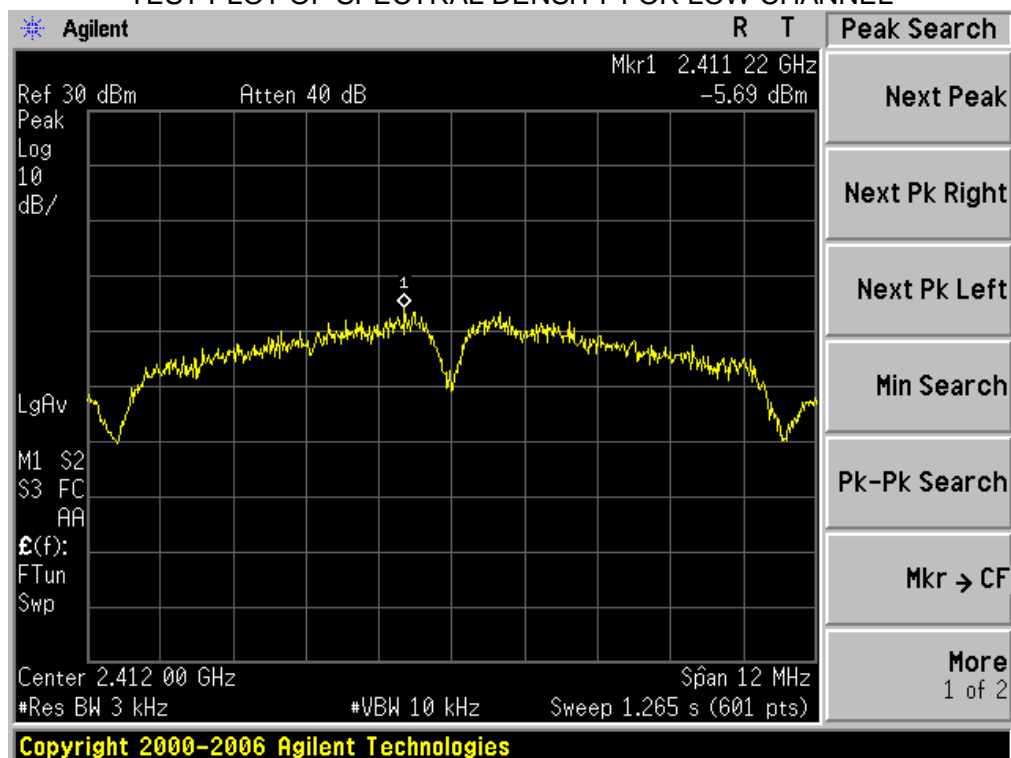
Low Channel	-10.52	-15.2	-25.72	8	Pass
Middle Channel	-10.24	-15.2	-25.44	8	Pass
High Channel	-10.18	-15.2	-25.38	8	Pass

TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11n 20 with data rate 6.5

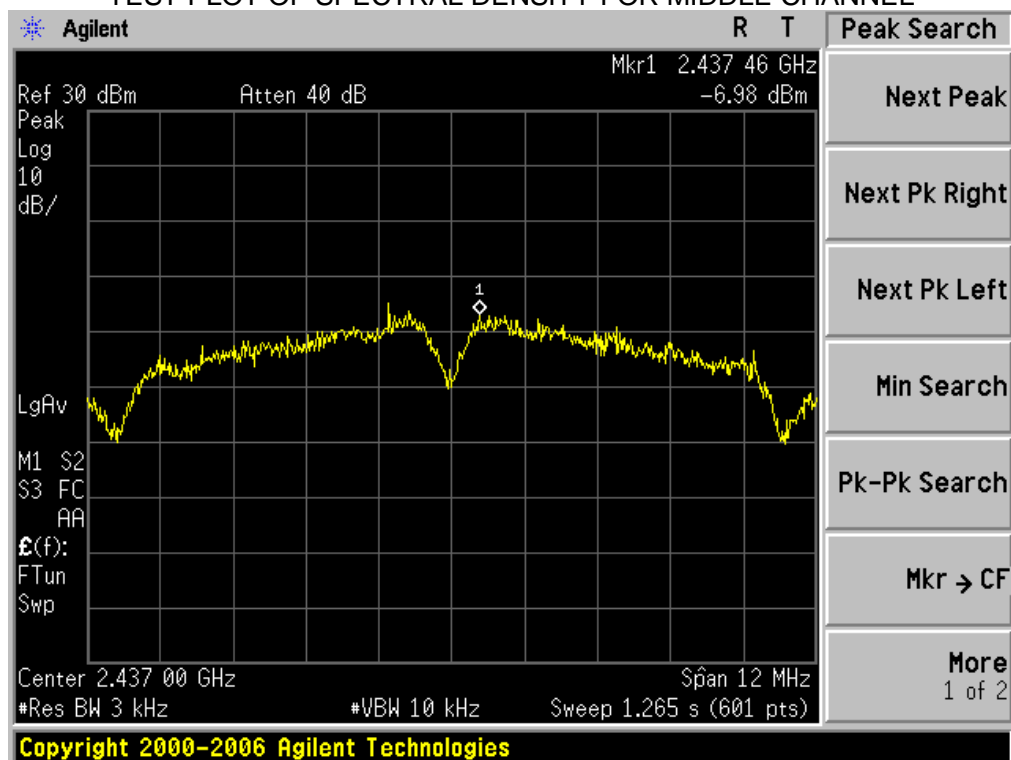
Channel No.	Reading Value (dBm)	BWCF (dB)	PSD (dBm)	Limit (dBm)	Result
Low Channel	-12.4	-15.2	-27.6	8	Pass
Middle Channel	-10.96	-15.2	-26.16	8	Pass
High Channel	-12.17	-15.2	-27.37	8	Pass

802.11b TEST RESULT

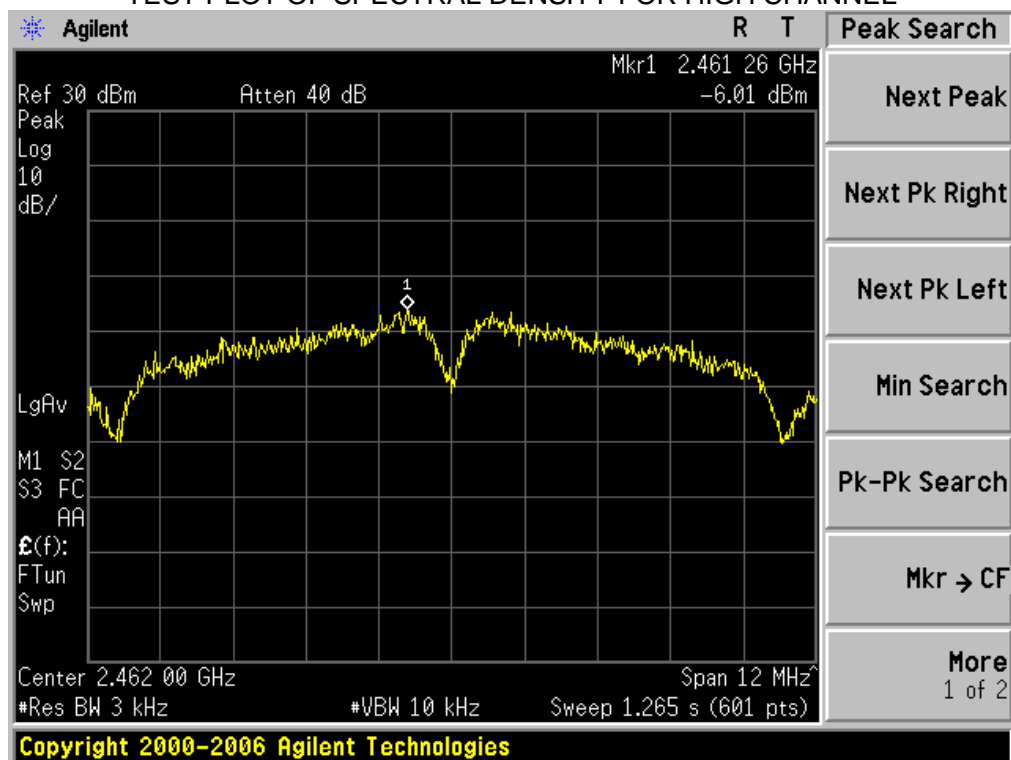
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

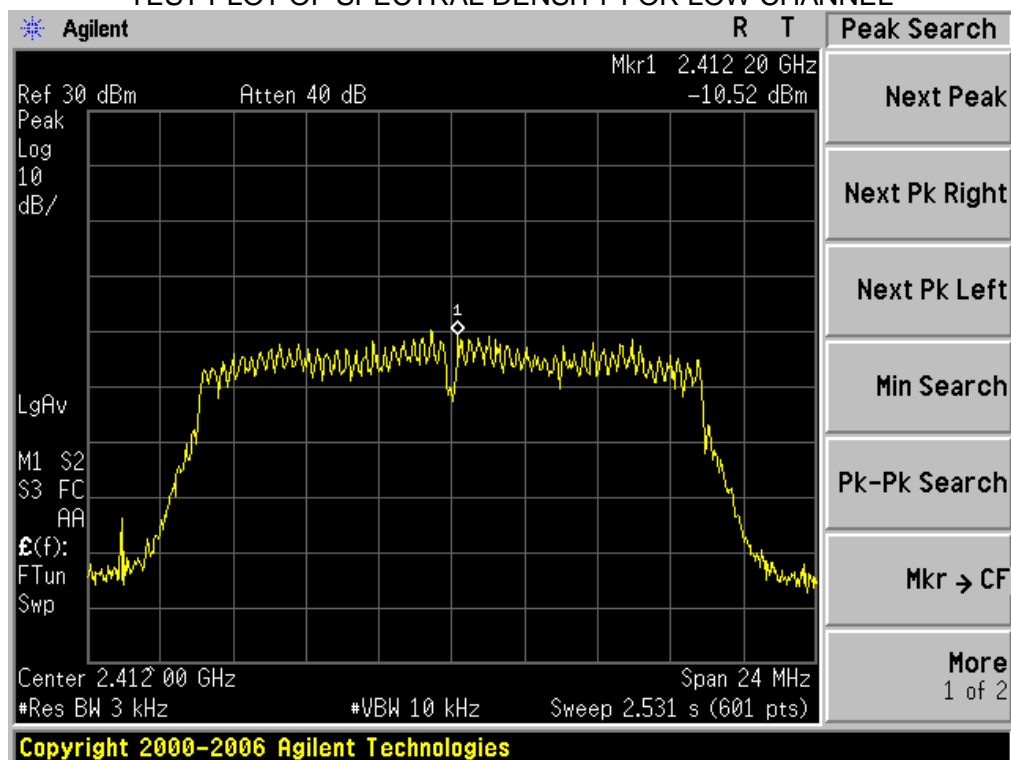


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11g TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

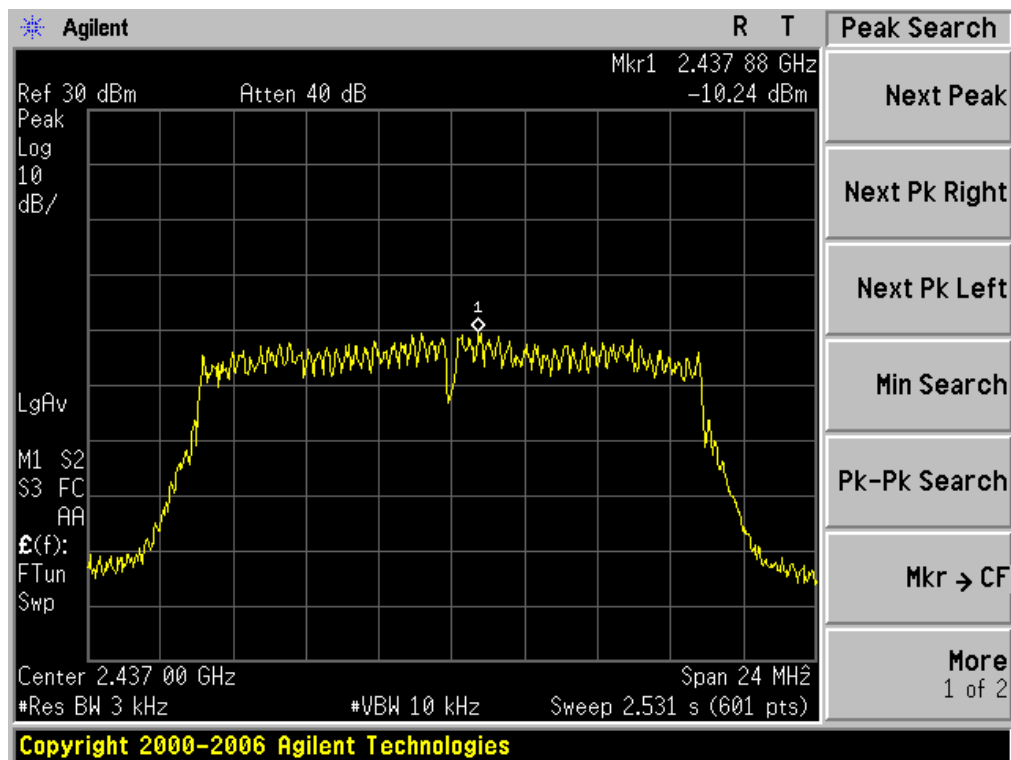


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

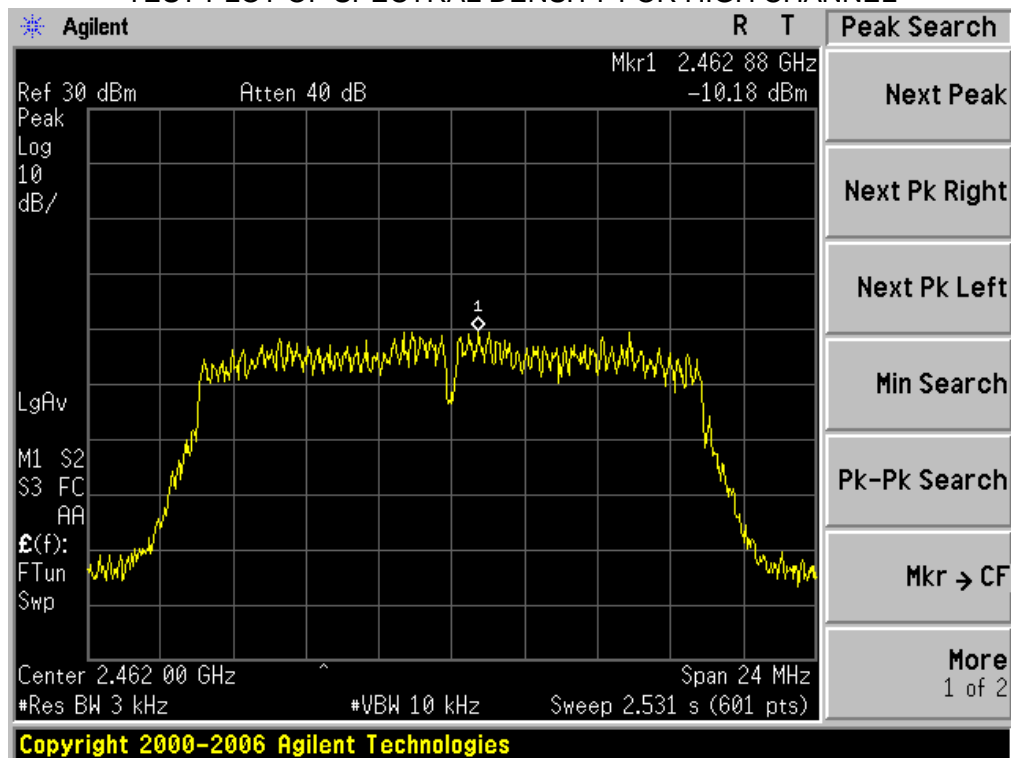
Test Report No.: EFSN13060712E-7

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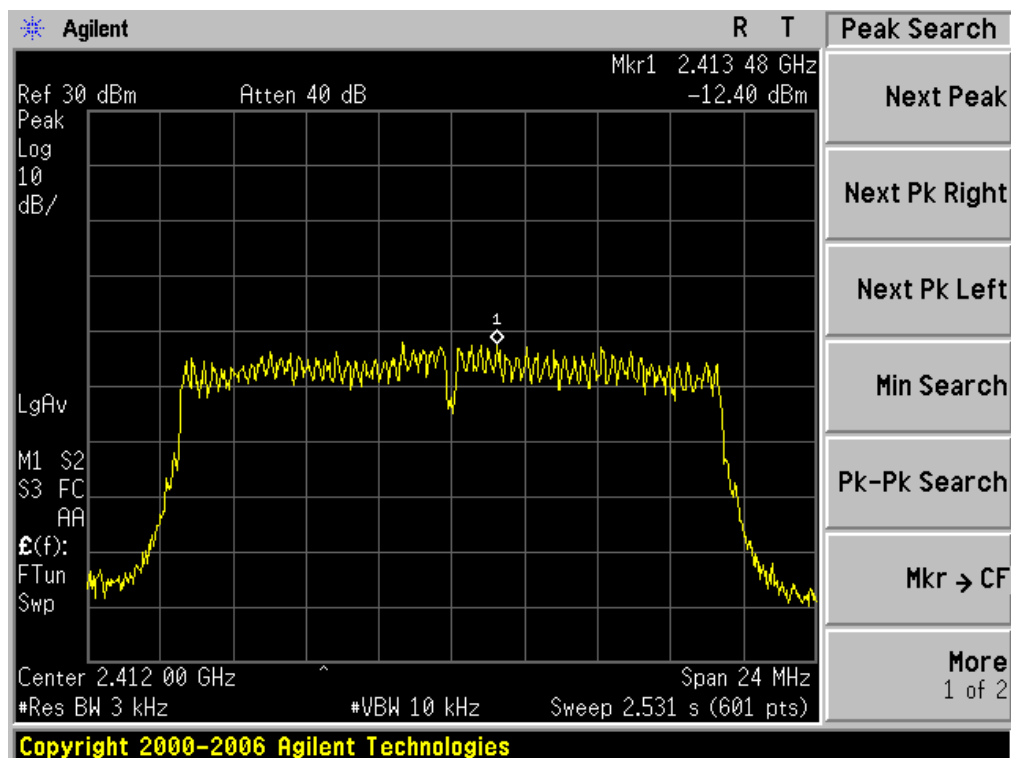
3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040



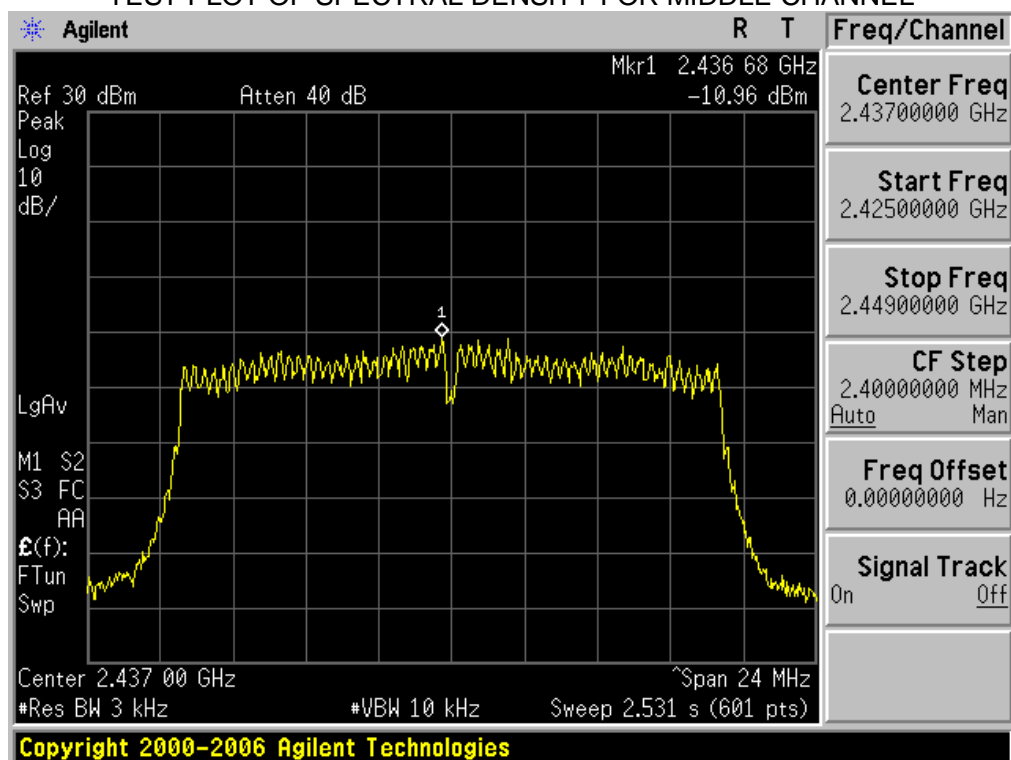
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



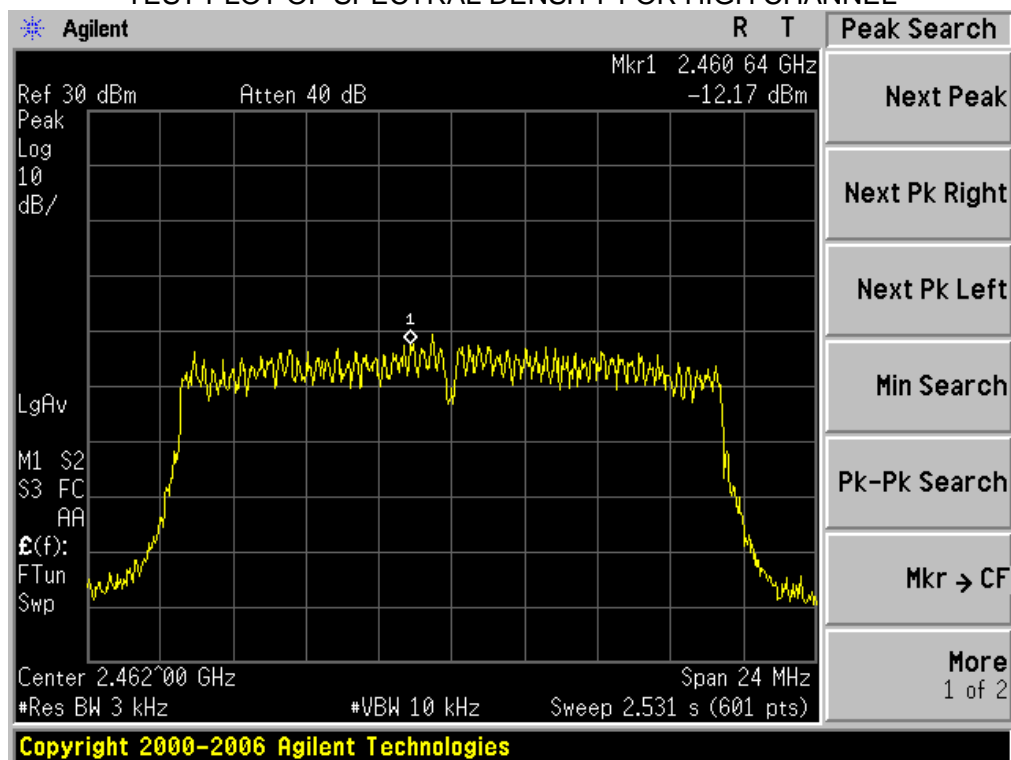
802.11n 20 TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



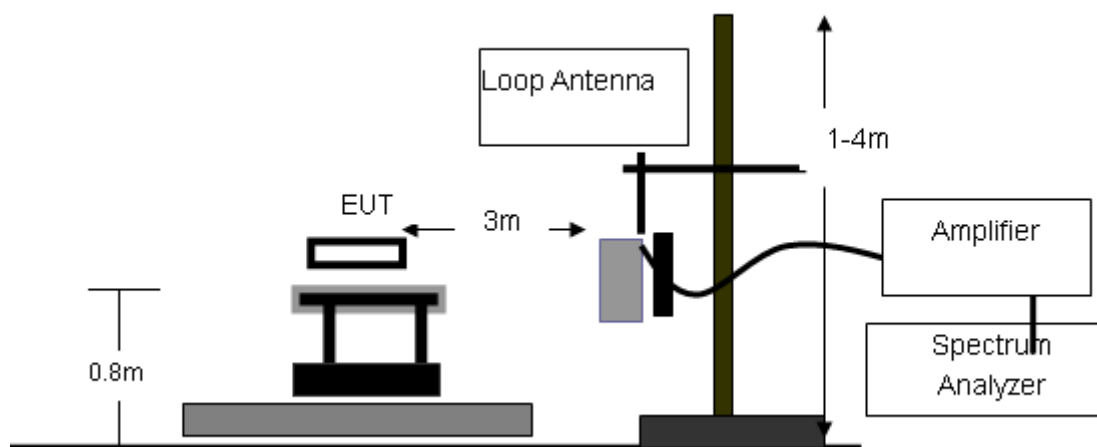
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

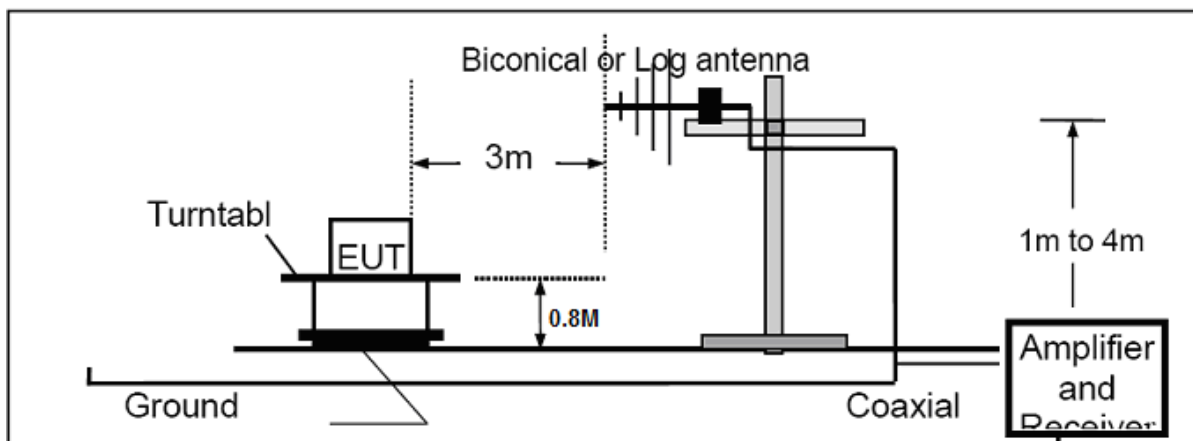
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP

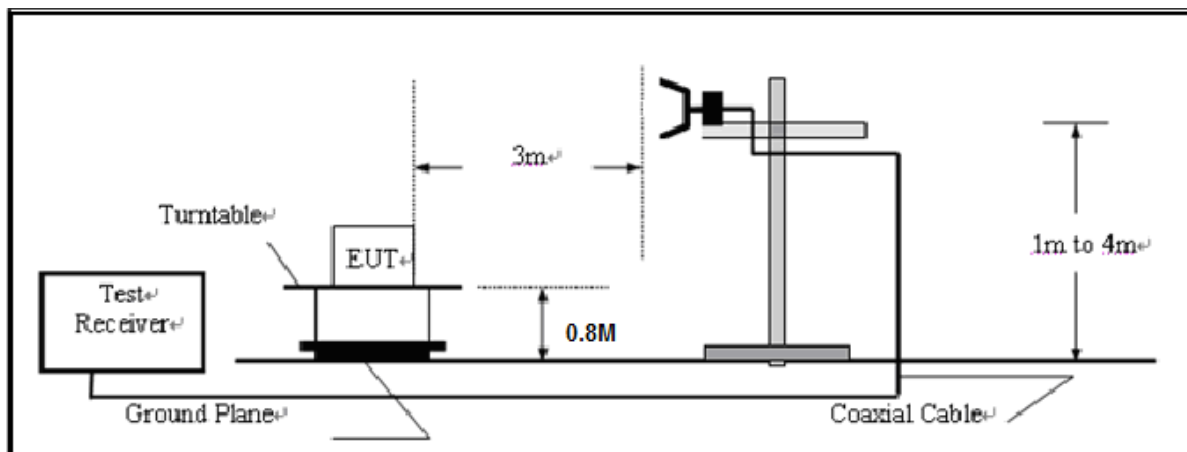
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

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

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: 10.1" platinum
M/N: AC101PL
Mode: Low Channel TX
Note:

Polarization: **Horizontal**
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		60.7167	15.68	4.92	20.60	40.00	-19.40	peak			
2		230.4667	16.26	12.39	28.65	46.00	-17.35	peak			
3		272.5000	20.39	17.06	37.45	46.00	-8.55	peak			
4		335.5500	18.64	20.04	38.68	46.00	-7.32	peak			
5	*	460.0333	17.35	21.62	38.97	46.00	-7.03	peak			
6		822.1667	7.48	30.00	37.48	46.00	-8.52	peak			

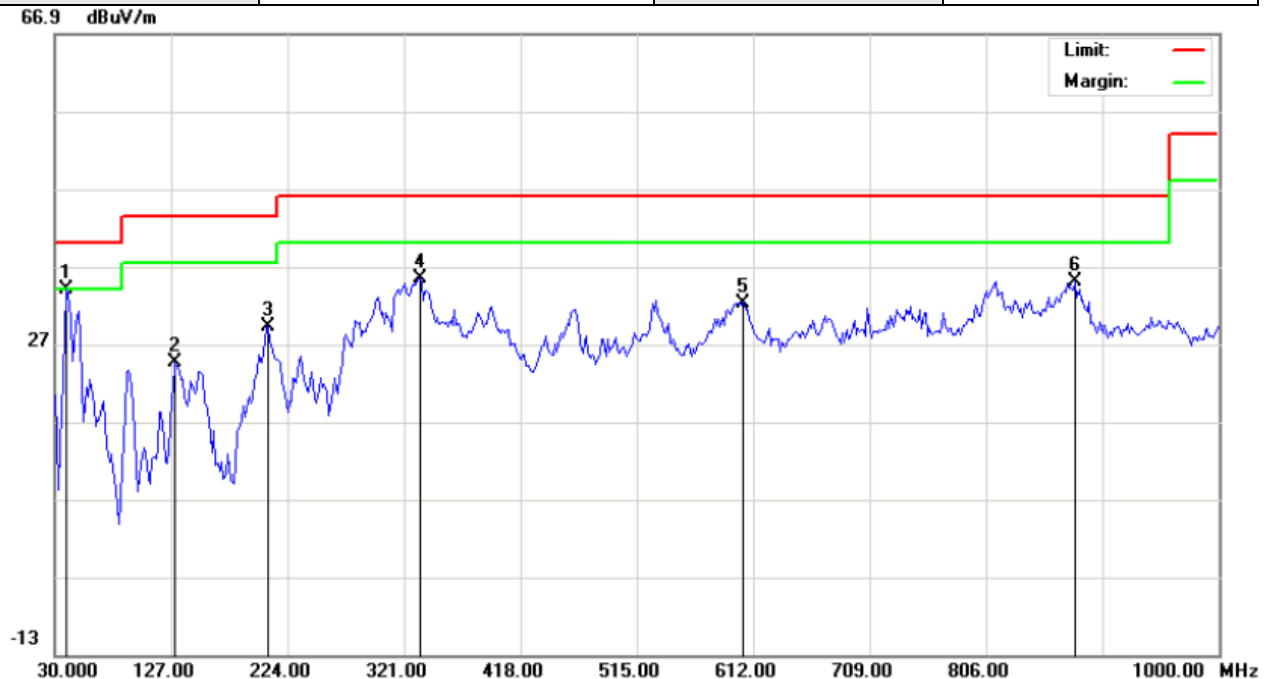
RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT: 10.1" platinum

Distance:

M/N: AC101PL

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	26.40	7.64	34.04	40.00	-5.96	peak			
2		130.2332	23.33	1.22	24.55	43.50	-18.95	peak			
3		207.8333	21.97	7.32	29.29	43.50	-14.21	peak			
4		333.9333	15.48	19.96	35.44	46.00	-10.56	peak			
5		603.9167	7.18	25.12	32.30	46.00	-13.70	peak			
6		880.3667	3.21	31.74	34.95	46.00	-11.05	peak			

RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Horizontal



Site: site #1

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT: 10.1" platinum

Distance:

M/N: AC101PL

Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		131.8497	16.27	5.71	21.98	43.50	-21.52	peak			
2		230.4667	20.26	12.39	32.65	46.00	-13.35	peak			
3	*	327.4667	22.92	19.61	42.53	46.00	-3.47	peak			
4		453.5667	18.05	21.61	39.66	46.00	-6.34	peak			
5		597.4500	9.72	24.87	34.59	46.00	-11.41	peak			
6		846.4166	6.75	31.81	38.56	46.00	-7.44	peak			

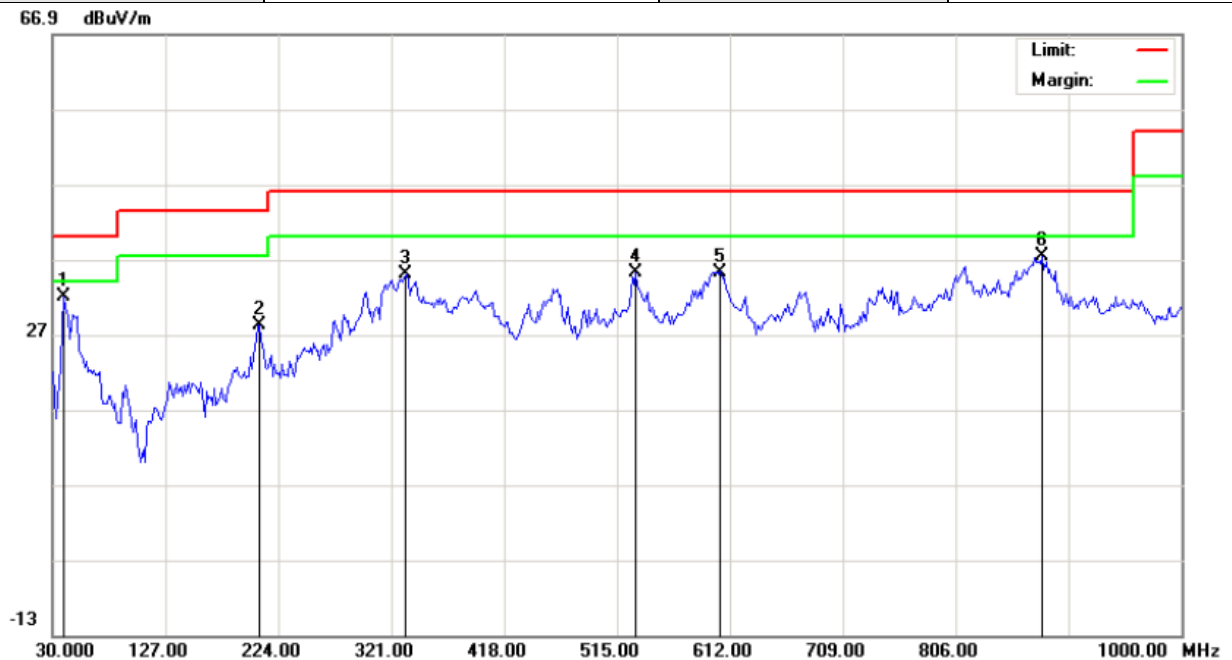
RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Vertical



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: 10.1" platinum
M/N: AC101PL
Mode: Middle Channel TX
Note:

Polarization: **Vertical**
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	24.40	7.64	32.04	40.00	-7.96	peak			
2		207.8333	20.97	7.32	28.29	43.50	-15.21	peak			
3		333.9331	14.98	19.96	34.94	46.00	-11.06	peak			
4		531.1666	12.13	23.06	35.19	46.00	-10.81	peak			
5		603.9166	10.18	25.12	35.30	46.00	-10.70	peak			
6		880.3667	5.71	31.74	37.45	46.00	-8.55	peak			

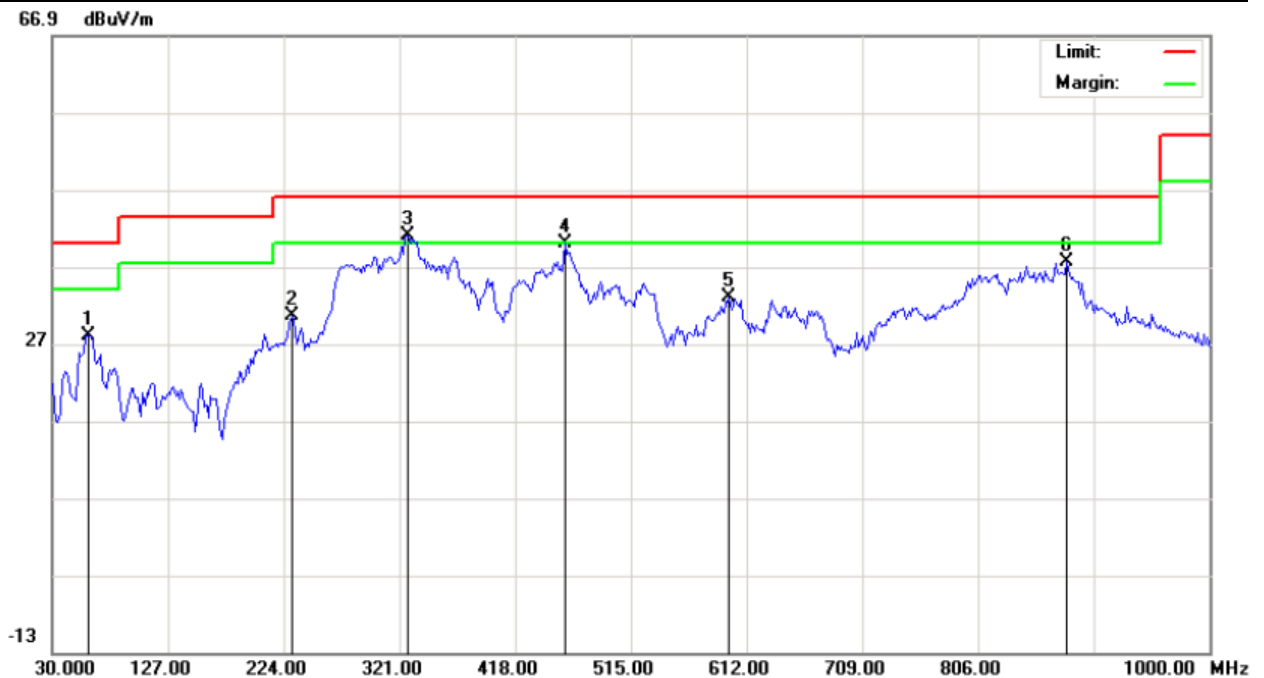
RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: 10.1" platinum
M/N: AC101PL
Mode: High Channel TX
Note:

Polarization: **Horizontal**
Power:
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		60.7167	23.18	4.92	28.10	40.00	-11.90	peak			
2		230.4667	18.26	12.39	30.65	46.00	-15.35	peak			
3	*	327.4667	21.42	19.61	41.03	46.00	-4.97	peak			
4		460.0332	18.35	21.62	39.97	46.00	-6.03	peak			
5		597.4500	8.22	24.87	33.09	46.00	-12.91	peak			
6		880.3667	7.05	30.58	37.63	46.00	-8.37	peak			

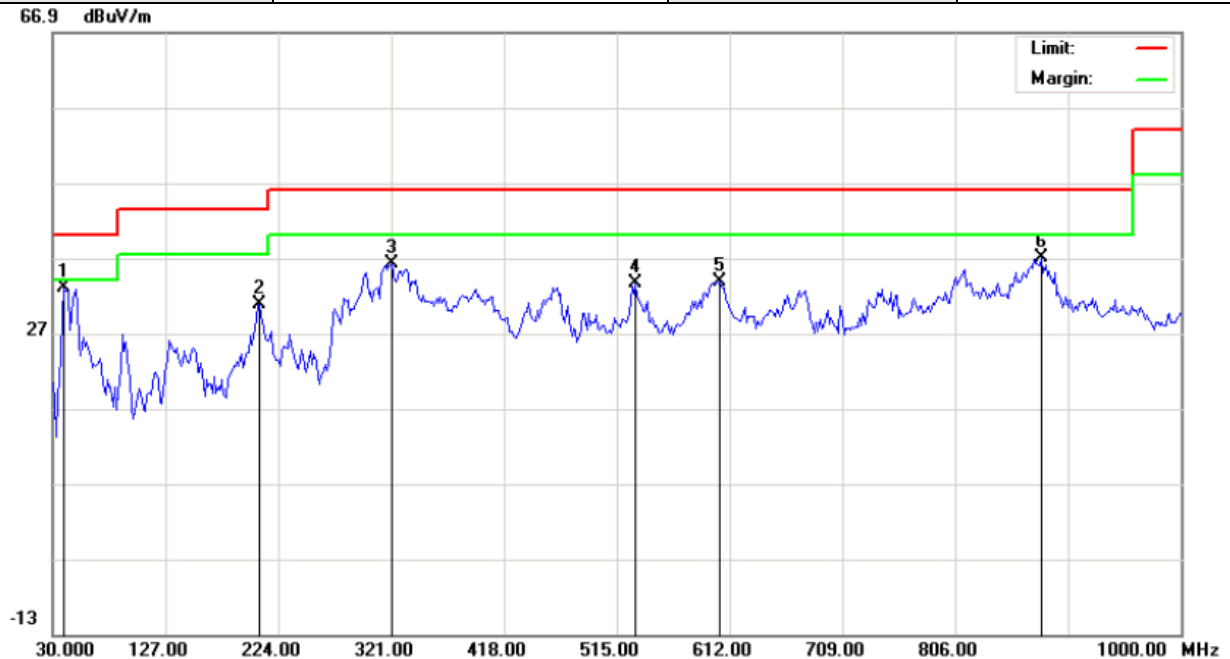
RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical



Site: site #1
 Limit: FCC Class B 3M Radiation
 EUT: 10.1" platinum
 M/N: AC101PL
 Mode: High Channel TX
 Note:

Polarization: **Vertical**
 Power:
 Distance:

Temperature: 26
 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	25.40	7.64	33.04	40.00	-6.96	peak			
2		207.8333	23.47	7.32	30.79	43.50	-12.71	peak			
3		321.0000	16.97	19.26	36.23	46.00	-9.77	peak			
4		531.1666	10.63	23.06	33.69	46.00	-12.31	peak			
5		603.9166	8.68	25.12	33.80	46.00	-12.20	peak			
6		880.3667	5.21	31.74	36.95	46.00	-9.05	peak			

RESULT: PASS

Note: Measurement= Reading + Factor, Over=Measure-Limit.

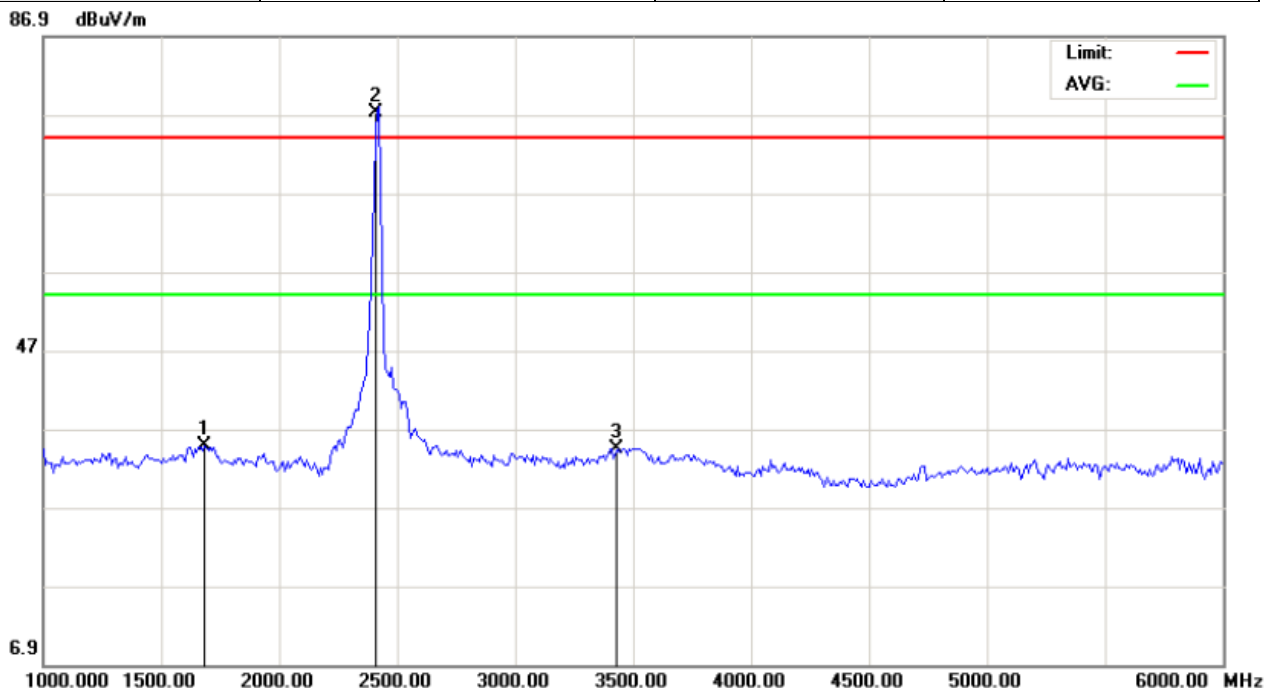
Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

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RADIATED EMISSION ABOVE 1GHZ

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



Site: site #1

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: 10.1" platinum

Distance: 3m

M/N: AC101PL

Mode: Low channel

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1683.333	34.71	0.00	34.71	74.00	-39.29	peak			
2	*	2412.000	77.16	0.00	77.16	74.00	3.16	peak			
3		3433.333	34.48	0.00	34.48	74.00	-39.52	peak			

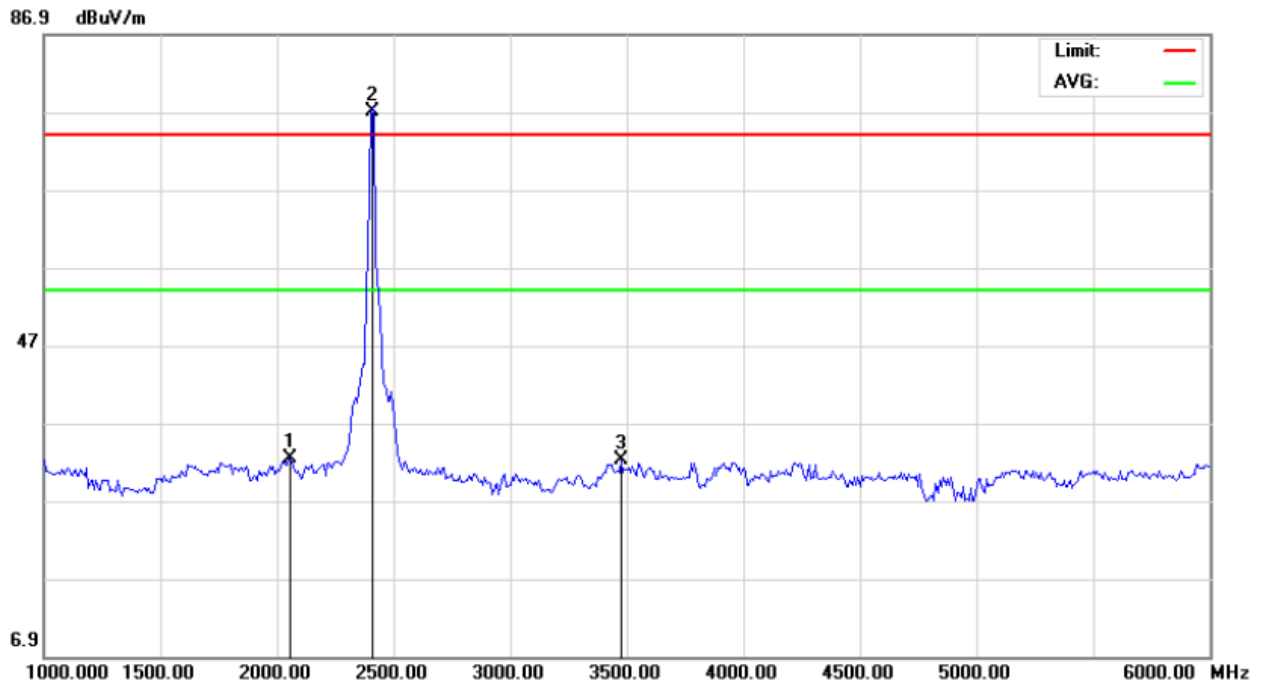
RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

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EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power:
EUT: 10.1" platinum Distance: 3m Humidity: 60 %
M/N: AC101PL
Mode: Low channel
Note:

No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2058.333	32.45	0.00	32.45	74.00	-41.55	peak			
2	*	2412.000	76.92	0.00	76.92	74.00	2.92	peak			
3		3475.000	32.22	0.00	32.22	74.00	-41.78	peak			

RESULT: PASS

Note: The other modes radiation emissions have more than 20dB margin.

Measurement= Reading + Factor, Over=Measure-Limit.

All modes radiation emission from 5GHz to 25GHz at least have 20dB margin.

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

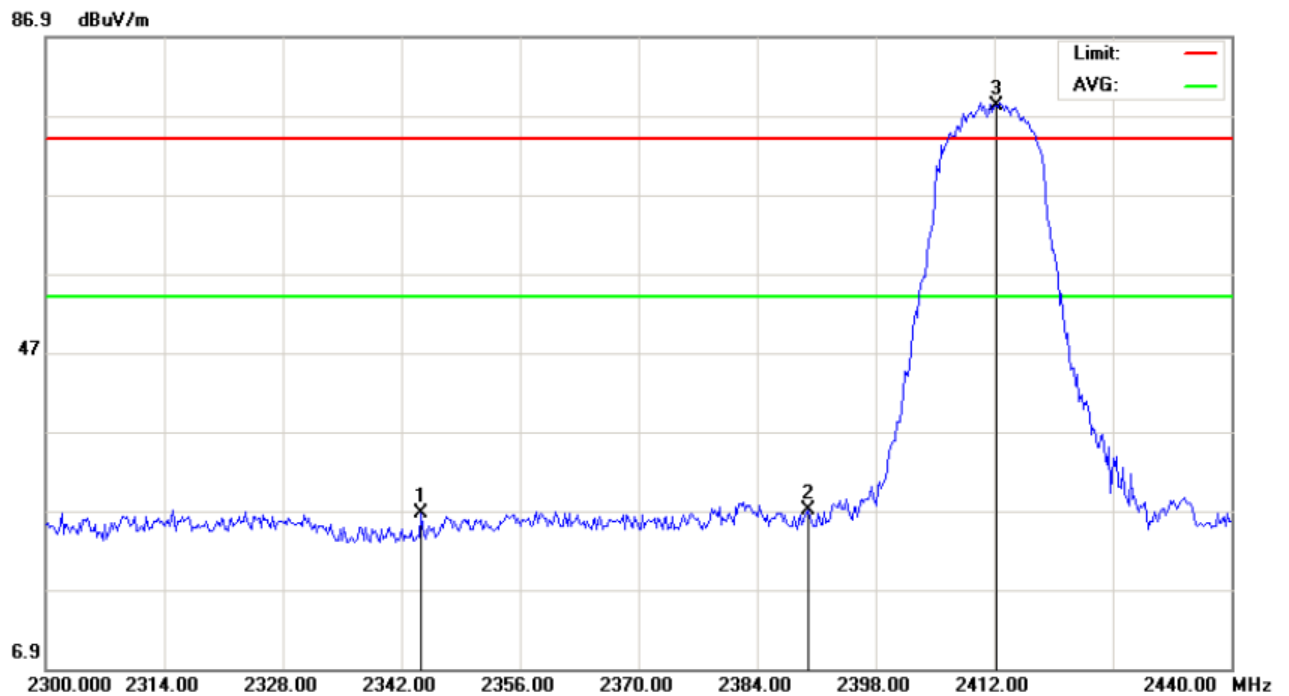
1. Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Start or Stop Frequency = Operation Frequency, RBW \geq 1%span, VBW \geq RBW
3. The band edges was measured and recorded.

12.2. TEST SET-UP

Radiated same as 8.2

12.3. TEST RESULT

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



Site: site #1

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: 10.1" platinum

Distance: 3m

M/N: AC101PL

Mode: 802.11b Low channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2344.333	26.51	0.00	26.51	74.00	-47.49	peak			
2		2390.000	27.10	0.00	27.10	74.00	-46.90	peak			
3	*	2412.190	78.23	0.00	78.23	74.00	4.23	peak			

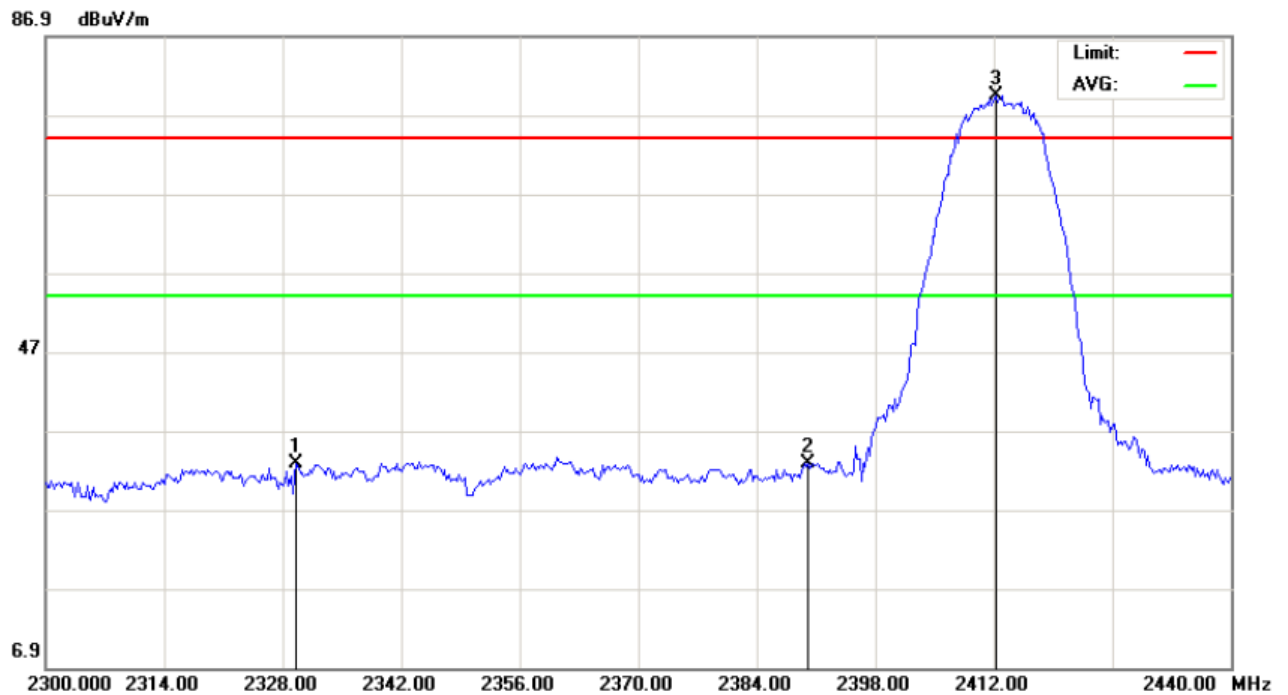
RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



Site: site #1
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)
 EUT: 10.1" platinum
 M/N: AC101PL
 Mode: 802.11b Low channel TX
 Note:

Polarization: **Vertical**
 Power:
 Distance: 3m

Temperature: 26
 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2329.633	32.77	0.00	32.77	74.00	-41.23	peak			
2		2390.000	32.75	0.00	32.75	74.00	-41.25	peak			
3	*	2412.210	79.36	0.00	79.36	74.00	5.36	peak			

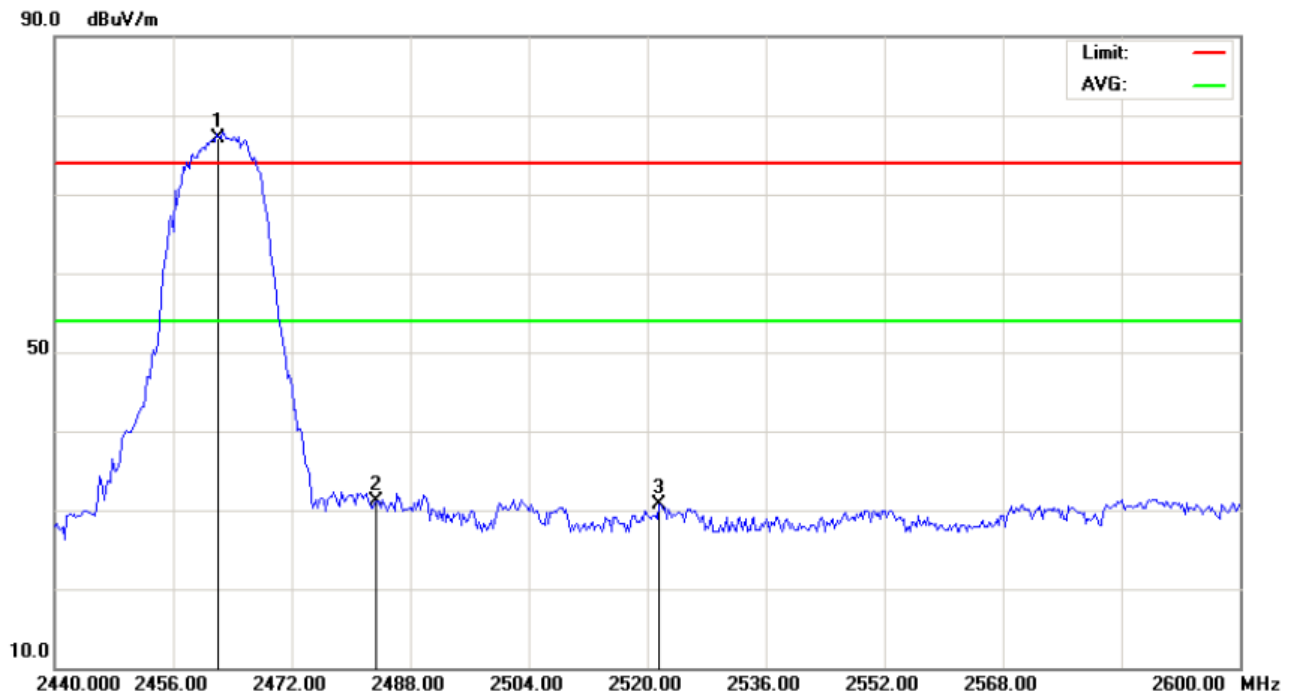
RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal



Site: site #1
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)
 EUT: 10.1" platinum
 M/N: AC101PL
 Mode: 802.11b High channel TX
 Note:

Polarization: **Horizontal**
 Power:
 Distance: 3m

Temperature: 26
 Humidity: 60 %

No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	2462.170	77.17	0.00	77.17	74.00	3.17	peak			
2		2483.500	31.08	0.00	31.08	74.00	-42.92	peak			
3		2521.600	30.78	0.00	30.78	74.00	-43.22	peak			

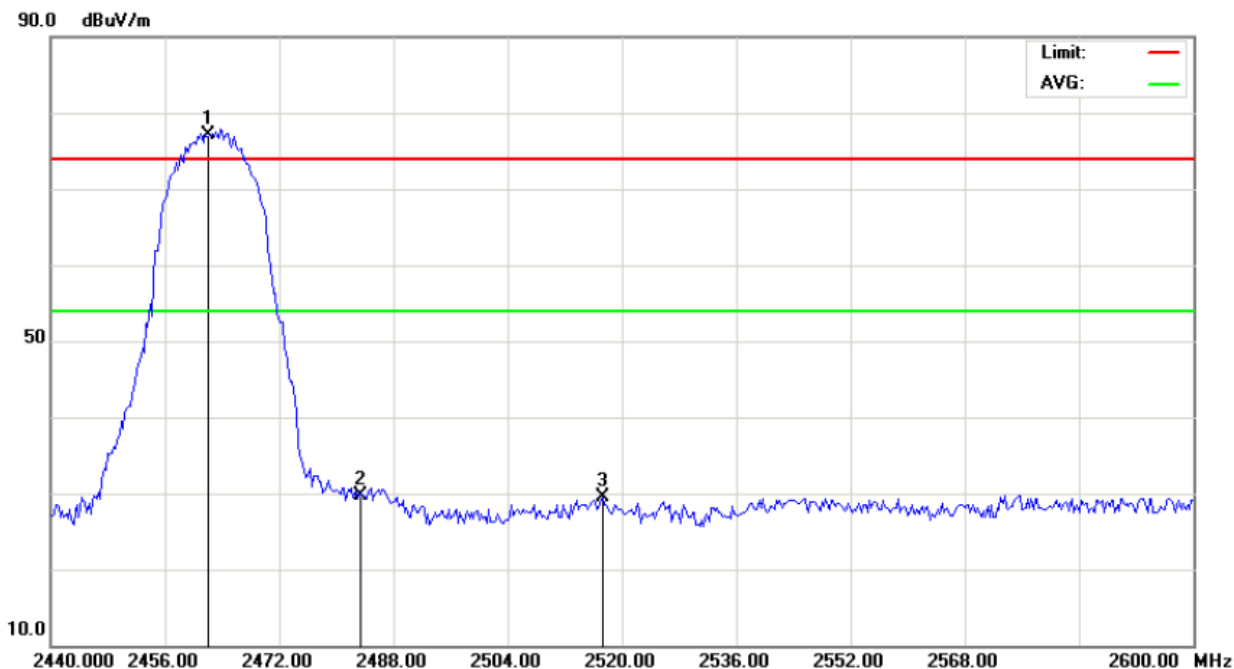
RESULT: PASS

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

EUT	10.1" platinum	Model Name	AC101PL
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical



Site: site #1
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)
 EUT: 10.1" platinum
 M/N: AC101PL
 Mode: 802.11b High channel TX
 Note:

Polarization: **Vertical**
 Power:
 Distance: 3m

Temperature: 26
 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2462.150	77.06	0.00	77.06	74.00	3.06	peak			
2		2483.500	29.63	0.00	29.63	74.00	-44.37	peak			
3		2517.333	29.41	0.00	29.41	74.00	-44.59	peak			

RESULT: PASS

Note: the other modes radiation emission have enough 20dB margin.

Measurement= Reading + Factor, Over=Measure-Limit.

Test Report No.: EFSN13060712E-7

Eurofins Testing Technology (Shenzhen) Co., Ltd.

3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040

13. FCC LINE CONDUCTED EMISSION TEST

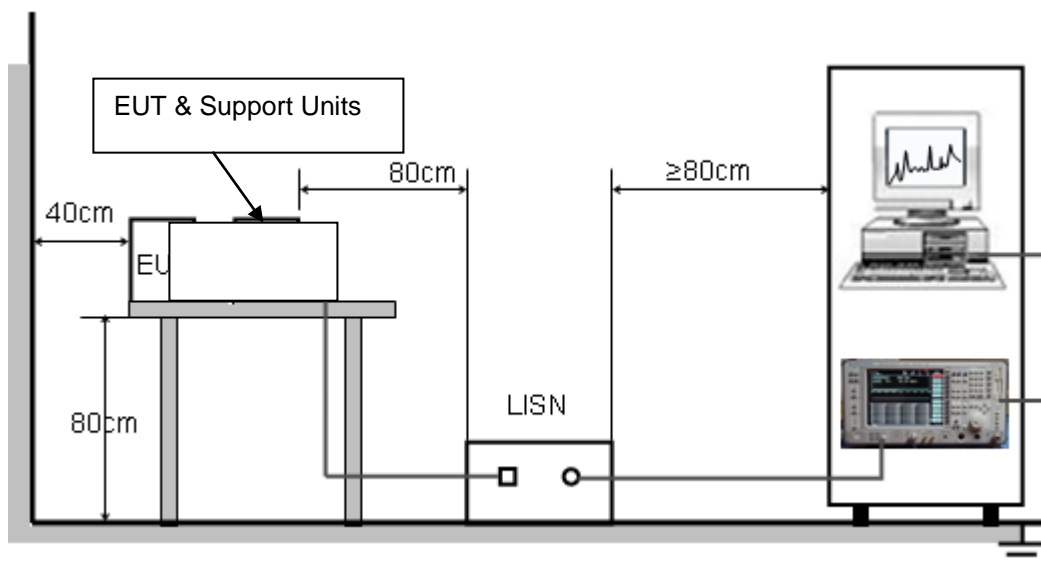
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC5V charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

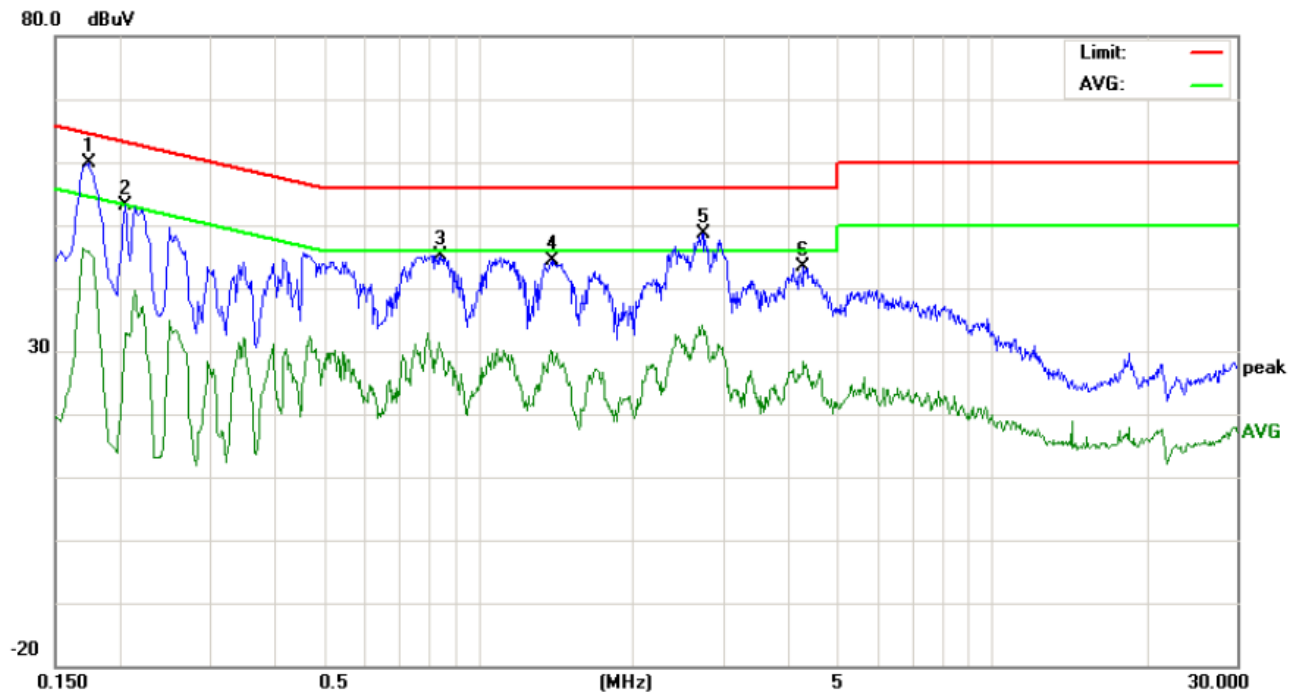
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST LINE 1-L



Site: Conduction

Phase: **L1**

Temperature: 26

Limit: FCC Class B Conduction(QP)

Power:

Humidity: 60 %

EUT: 10.1" platinum

M/N: AC101PL

Mode: Normal operating

Note:

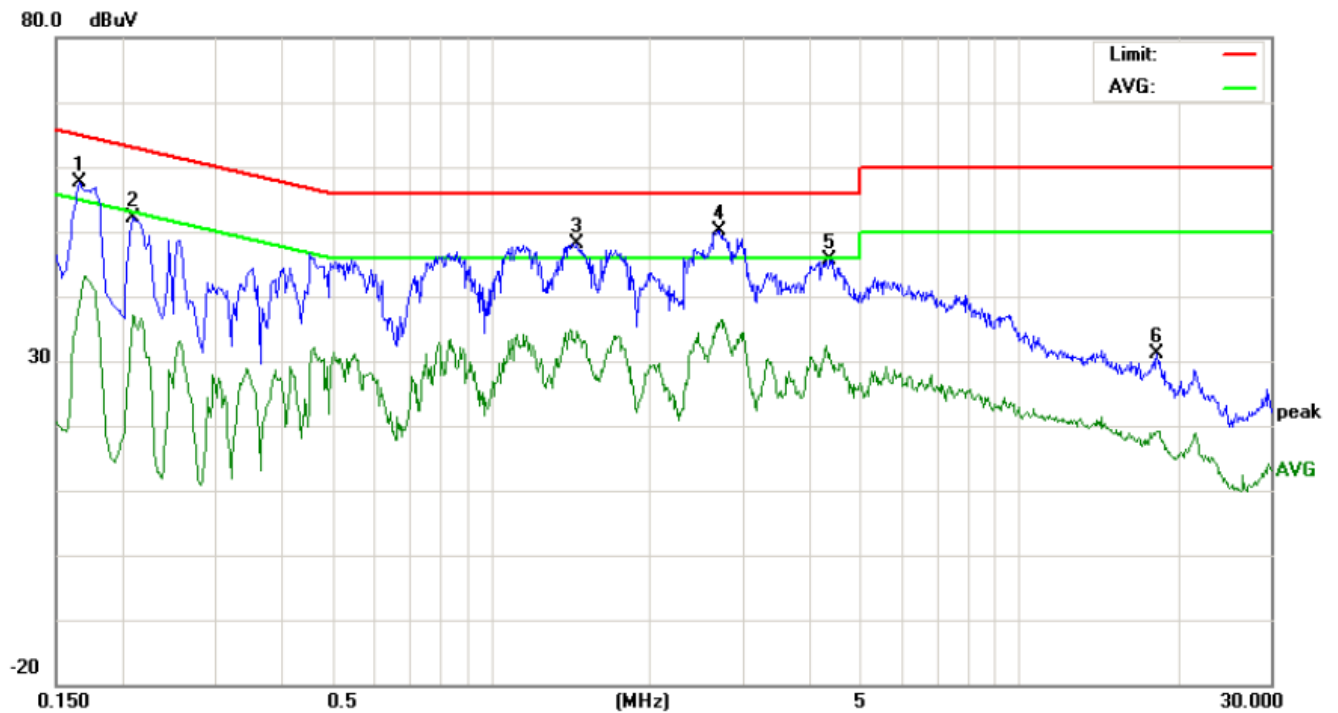
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1740	49.62		35.58	10.19	59.81		45.77	64.76	54.76	-4.95	-8.99	P	
2	0.2060	42.83		22.64	10.22	53.05		32.86	63.36	53.36	-10.31	-20.50	P	
3	0.8460	34.83		19.71	10.34	45.17		30.05	56.00	46.00	-10.83	-15.95	P	
4	1.3980	33.91		18.15	10.38	44.29		28.53	56.00	46.00	-11.71	-17.47	P	
5	2.7380	38.12		22.33	10.49	48.61		32.82	56.00	46.00	-7.39	-13.18	P	
6	4.3019	33.06		18.15	10.30	43.36		28.45	56.00	46.00	-12.64	-17.55	P	

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Line Conducted Emission Test Line 2-N



Site: Conduction

Phase: **N**

Temperature: 26

Limit: FCC Class B Conduction(QP)

Power:

Humidity: 60 %

EUT: 10.1" platinum

M/N: AC101PL

Mode: Normal operating

Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1660	47.35		28.72	10.18	57.53		38.90	65.15	55.15	-7.62	-16.25	P	
2	0.2100	41.94		26.92	10.23	52.17		37.15	63.20	53.20	-11.03	-16.05	P	
3	1.4580	37.69		24.23	10.38	48.07		34.61	56.00	46.00	-7.93	-11.39	P	
4	2.7180	39.63		24.93	10.48	50.11		35.41	56.00	46.00	-5.89	-10.59	P	
5	4.3900	35.45		20.35	10.26	45.71		30.61	56.00	46.00	-10.29	-15.39	P	
6	18.3140	21.02		8.88	10.12	31.14		19.00	60.00	50.00	-28.86	-31.00	P	

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Please refer to the document of Test Setup Photos.

APPENDIX B: PHOTOGRAPHS OF EUT

Please refer to the document of External Photos and Internal Photos.

----END OF REPORT----