



## FCC/ IC Radio Test Report

### For

**Product Name: Enjoy TV**

**Brand Name: N/A**

**Model No.: ATV1220A**

**Series Model: ATV1620,ATV1612,ATV1800,ATV1220I,ATV1220S2,ATV1220C,ATV1220,ATV1220T,  
ATV1220T2,ATV1610**

**FCC ID: ZJU01142309**

**IC: 12373A-GT141A04D**

**Test Report Number:  
C141009R01-RPW**

**Issued for**

**Shenzhen Geniatech INC., LTD**

**8th F, GDC Building, No. 9 Gaoxin Middle 3rd Rd. Nanshan District, Shenzhen, China**

**Issued by**

**Compliance Certification Services Inc.**

**Kun shan Laboratory**

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TESTING CERT #2541.01

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# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	November 11, 2014	N/A	ALL	N/A



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## 1. TEST RESULT CERTIFICATION

<b>Product Name:</b>	Enjoy TV
<b>Trade Name:</b>	N/A
<b>Model Name.:</b>	ATV1220A
<b>Series Model:</b>	ATV1620,ATV1612,ATV1800,ATV1220I,ATV1220S2,ATV1220C,ATV1220,ATV1220T,ATV1220T2.ATV1610
<b>Applicant Discrepancy:</b>	Initial
<b>Device Category:</b>	Mobile Device
<b>Date of Test:</b>	October 24, 2014 to November 1 , 2014
<b>Applicant:</b>	<b>Shenzhen Geniatech INC., LTD</b> 8th F, GDC Building, No. 9 Gaoxin Middle 3rd Rd. Nanshan District, Shenzhen, China
<b>Manufacturer:</b>	<b>Shenzhen Geniatech INC., LTD</b> 18th F, GDC Building, No. 9 Gaoxin Middle 3rd Rd. Nanshan District, Shenzhen, China
<b>Application Type:</b>	Certification

### APPLICABLE STANDARDS

STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C	No non-compliance noted
Canada RSS-210 Issue 8	No non-compliance noted
Canada RSS-Gen Issue 3	No non-compliance noted

### We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

**Approved by:**

**Tested by:**

Jeff.Fang  
RF Manager  
Compliance Certification Service Inc.

James.Yan  
Test Engineer  
Compliance Certification Service Inc.



## 2. EUT DESCRIPTION

<b>Product Name:</b>	Enjoy TV
<b>Brand Name:</b>	N/A
<b>Model Name:</b>	ATV1220A
<b>Series Model:</b>	ATV1620,ATV1612,ATV1800,ATV1220I,ATV1220S2,ATV1220C,ATV1220,ATV1220T,ATV1220T2.ATV1610
<b>Model Discrepancy:</b>	Just model names and the enclosure are different for the marketing requirement.
<b>Power Adapter Power Rating :</b>	Model: FKS308HSC-1201500U Input: AC 100V~240V 50/60Hz 0.5A Max Output: DC 12V 1500mA
<b>Frequency Range:</b>	IEEE 802.11b/g: 2412MHz to 2462 MHz IEEE 802.11n HT20: 2412MHz to 2462 MHz IEEE 802.11n HT40: 2422MHz to 2452 MHz
<b>Transmit Power:</b>	IEEE 802.11b mode: 17.95 dBm IEEE 802.11g mode: 13.67 dBm IEEE 802.11n HT20 mode: 12.69 dBm IEEE 802.11n HT40 mode: 12.54 dBm
<b>Modulation Technique:</b>	802.11b mode: DSSS (1,2,5.5 and 11 Mbps) 802.11g mode: DSSS /OFDM (6,9,12,18,24,36,48 and 54 Mbps) 802.11n HT20 mode: OFDM (6.5,13,19.5,26,39,52,58.5 and 65 Mbps) 802.11n HT40 mode: OFDM (13.5,27,40.5,54,81,108,121.5 and 135 Mbps)
<b>Number of Channels:</b>	IEEE 802.11b/g/n HT20 mode: 11 Channels IEEE 802.11n HT40 mode: 7 Channels
<b>Antenna Specification:</b>	Dipole antennas for 2.4GHz Gain 2 dBi

### Remark:

- 1.The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2.This submittal(s) (test report) is intended for **FCC ID: ZJU01142309** filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.
- 3.This submittal(s) (test report) is intended for **IC: 12373A-GT141A04D** filing to comply with Canada RSS-210 Issue 8 and Canada RSS-Gen Issue 3 Rules.



## 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 2009 and FCC CFR 47 15.207, 15.209 and 15.247, RSS-210 and RSS-Gen.

### 3.1. EUT CONFIGURATION

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

### 3.2. EUT EXERCISE

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

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

### 3.3. GENERAL TEST PROCEDURES

#### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

#### Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4 2009.



## 3.4.FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41			

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



## 3.5.DESRIPTION OF TEST MODES

The EUT transmitting and receiving with one antennas simultaneously working at b/g/n mode, so 1x1 configuration was used for all testing in this report.

The worst-case data rates are determined to be as follows for each mode based on investigation by measuring the average power, peak power and PPSD across all data rates, bandwidths, and modulations.

The worst-case data rates:

IEEE802.11b mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

Channel High (2462MHz) with 11Mbps data rate was chosen for full testing.

IEEE802.11g mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

Channel High (2462MHz) with 54Mbps data rate was chosen for full testing.

Draft 802.11n HT20 MHz Channel mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

Channel High (2462MHz) with 65Mbps data rate was chosen for full testing.

Draft 802.11n HT40 MHz Channel mode:

Channel Low (2422MHz)

Channel Mid (2437MHz)

Channel High (2452MHz) with 135Mbps data rate was chosen for full testing.





## 3.6. ANTENNA DESCRIPTION

### According to FCC 47 CFR 15.203

“an intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached or an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section”

\* the antenna of this EUT is a unique(dipole Antenna).

\* the EUT complies with the requirement of 15.203.



## 4. INSTRUMENT CALIBRATION

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

### Equipment Used for Emissions Measurement



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## Conducted Emissions Test Site

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-4-9
DETECTOR NEGATIVE	Agilent	8473B	MY42240176	2015-5-11
OSCILLOSCOPE	Agilent	DSO6104A	MY44002585	2015-3-16
MIMO Power Measurement Test Set	Agilent	U2021XA	MY53120005	2015-7-3
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	N.C.R
DC Power Supply	AGILENT	E3632A	MY50340053	N.C.R
Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	2015-1-22
Test Software	EZ-EMC			

## 977 Chamber

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-4-9
EMI Test Receiver	R&S	ESCI	101378	2015-1-22
Pre-Amplifier	MINI	ZFL-1000VH2	d041703	2015-1-22
Pre-Amplifier	Miteq	JS41-00101800-32-10P	1675713	2015-1-22
Bilog Antenna	Sunol	JB1	A062604	2015-3-6
Horn-antenna	SCHWARZBECK	BBHA9120D	D:266	2015-3-7
Turn Table	CT	CT123	4165	N.C.R
Antenna Tower	CT	CTERG23	3256	N.C.R
Controller	CT	CT100	95637	N.C.R
Test Software	EZ-EMC			

## Conducted Emission

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI TEST RECEIVER	R&S	ESCI	100781	2015-3-16
V (V-LISN)	SCHWARZBECK	NNLK 8129	8129-143	N.C.R
LISN (EUT)	FCC	FCC-LISN-50/250-50-2-02	05012	2015-3-16
Pulse LIMITER	R&S	ESH3-Z2	100524	2015-9-24
Test Software	EZ-EMC			

**Remark:** The measurement uncertainty is less than +/- 2.81dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

Expanded Uncertainty (95% CONFIDENCE INTERVAL): K=2



## 5. FACILITIES AND ACCREDITATIONS

### 5.1.FACILITIES

All measurement facilities used to collect the measurement data are located at CCS China Kunshan Lab at 10#Weiye Rd, Innovation Park Eco. & Tec. Development Zone Kunshan city JiangSu, (215300), CHINA.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 2009 and CISPR Publication 22.

### 5.2.EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.



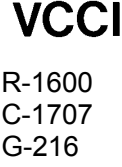
All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.3.LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 200581-0 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, IC5743 for 10m chamber 10m, IC5743 for 10m chamber 3m.



## 5.4. TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	47 CFR FCC Part 15/18 (using ANSI C63.4 :2009); VCCI V3; CNS 13438; CNS 13439; CNS 13803; CISPR 11; EN 55011; CISPR 13; EN 55013; CISPR 22:2005; CISPR 22:1997 +A1 :2000+A2 :2002; EN 55022:2006; EN55022 :1998 +A1 :2001+A2 :2003; EN 61000-6-3 (excluding discontinuous interference); EN 61000-6-4; AS/NZS CISPR 22; CAN/CSA-CEI/IEC CISPR 22; EN 61000-3-2; EN 61000-3-3; EN550024; EN 61000-4-2; EN 61000-4-3; EN61000-4-4; EN 61000-4-5; EN 61000-4-6; IEC 61000-4-8; EN 61000-4-11; IEC61000-3-2; IEC61000-3-3; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8; IEC 61000-4-11; EN 300 220-3; EN 300 328; EN 300 330-2; EN 300 440-1; EN 300-440-2; EN 300 893; EN 301 489-01; EN 301 489-3; EN 301 489-07; EN 301 489-17; 47 CFR FCC Part 15, 22, 24	
USA	FCC	3/10 meter Sites to perform FCC Part 15/18 measurements	
Japan	VCCI	3/10 meter Sites and conducted test sites to perform radiated/conducted measurements	

\* No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.



## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1.SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

### 6.2.SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC DOC
1.	LCD Monitor	DELL	U2713HMT	N/A	YES

**Remark:**

2. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
3. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



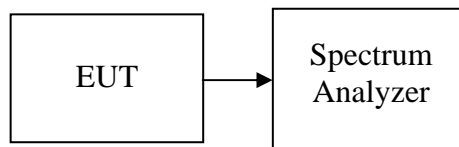
## 7. FCC PART 15.247 REQUIREMENTS

### 7.1. 6DB BANDWIDTH MEASUREMENT

#### LIMIT

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, and 2400 - 2483.5 MHz bands, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

#### Test Configuration



#### TEST PROCEDURE

1. The transmitter output is connected to the spectrum analyzer. Set RBW = 100 kHz. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Sweep = auto couple.



## TEST RESULTS

*No non-compliance noted*

### Test Data

#### **IEEE 802.11b mode**

Channel	Frequency (MHz)	Bandwidth(B) (MHz)	6dB Bandwidth Min. Limit(MHz)
Low	2412	10.129	0.5
Mid	2437	10.113	0.5
High	2462	10.120	0.5

#### **IEEE 802.11g mode**

Channel	Frequency (MHz)	Bandwidth(B) (MHz)	6dB Bandwidth Min. Limit(MHz)
Low	2412	16.574	0.5
Mid	2437	16.578	0.5
High	2462	16.572	0.5

#### **draft 802.11n Standard-20 MHz Channel mode**

Channel	Frequency (MHz)	Bandwidth(B) (MHz)	6dB Bandwidth Min. Limit(MHz)
Low	2412	17.826	0.5
Mid	2437	17.818	0.5
High	2462	17.824	0.5

#### **draft 802.11n wide-40 MHz Channel mode**

Channel	Frequency (MHz)	Bandwidth(B) (MHz)	6dB Bandwidth Min. Limit(MHz)
Low	2422	36.077	0.5
Mid	2437	36.532	0.5
High	2452	36.529	0.5



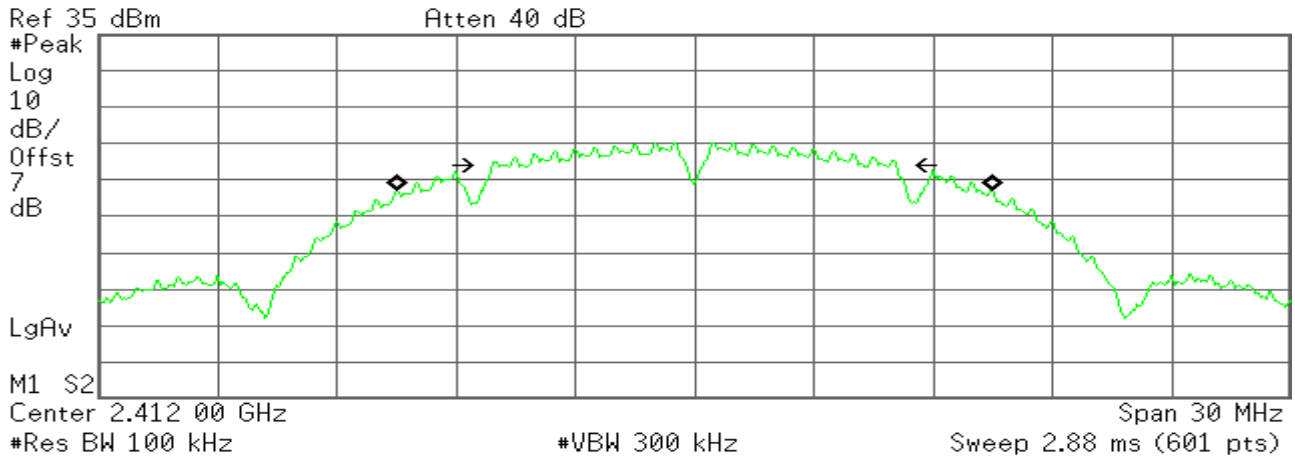
## Test Plot

### IEEE 802.11b MODE

#### 6dB Bandwidth (CH Low)

\* Agilent

R T



**Occupied Bandwidth**  
**14.9959 MHz**

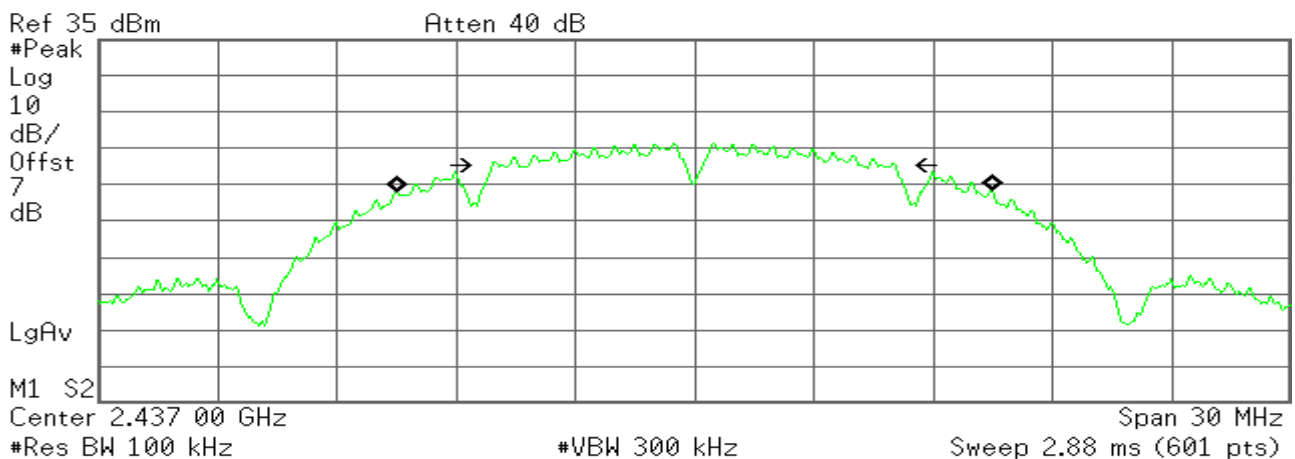
**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

**Transmit Freq Error** 4.931 kHz  
**x dB Bandwidth** 10.129 MHz

#### 6dB Bandwidth (CH Mid)

\* Agilent

R T



**Occupied Bandwidth**  
**14.9911 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

**Transmit Freq Error** -8.552 kHz  
**x dB Bandwidth** 10.113 MHz

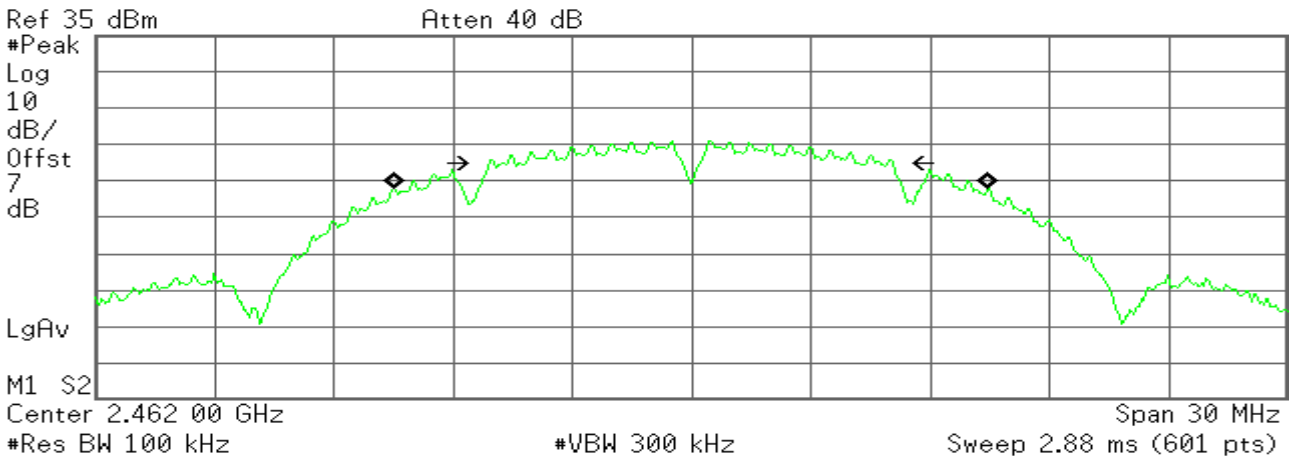




## 6dB Bandwidth (CH High)

\* Agilent

R T



**Occupied Bandwidth**  
**14.9900 MHz**

**Occ BW % Pwr**      99.00 %  
**x dB**                -6.00 dB

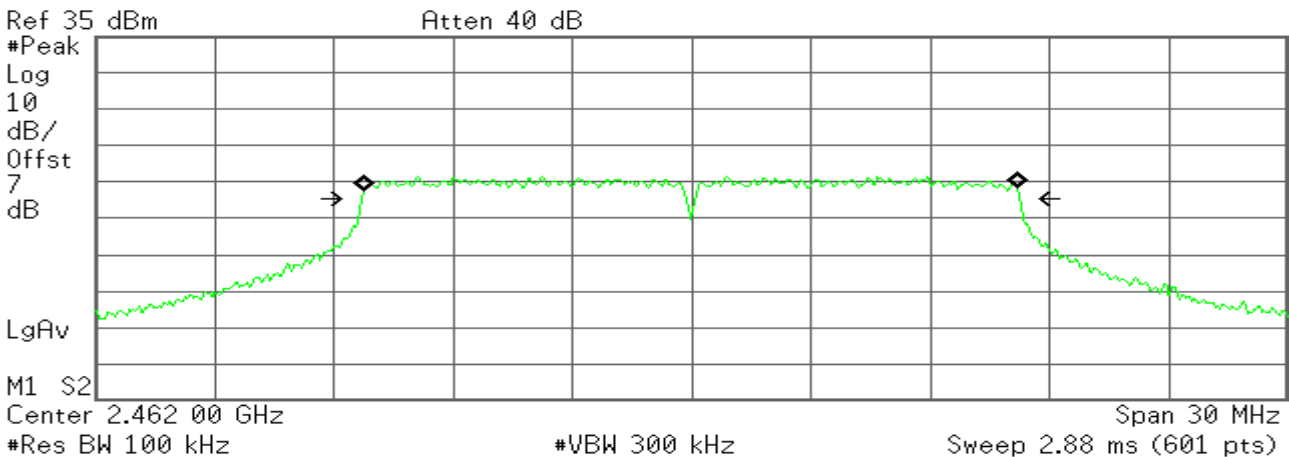
**Transmit Freq Error**      -24.639 kHz  
**x dB Bandwidth**            10.120 MHz

## IEEE 802.11g MODE

### 6dB Bandwidth (CH Low)

\* Agilent

R T



**Occupied Bandwidth**  
**16.4403 MHz**

**Occ BW % Pwr**      99.00 %  
**x dB**                -6.00 dB

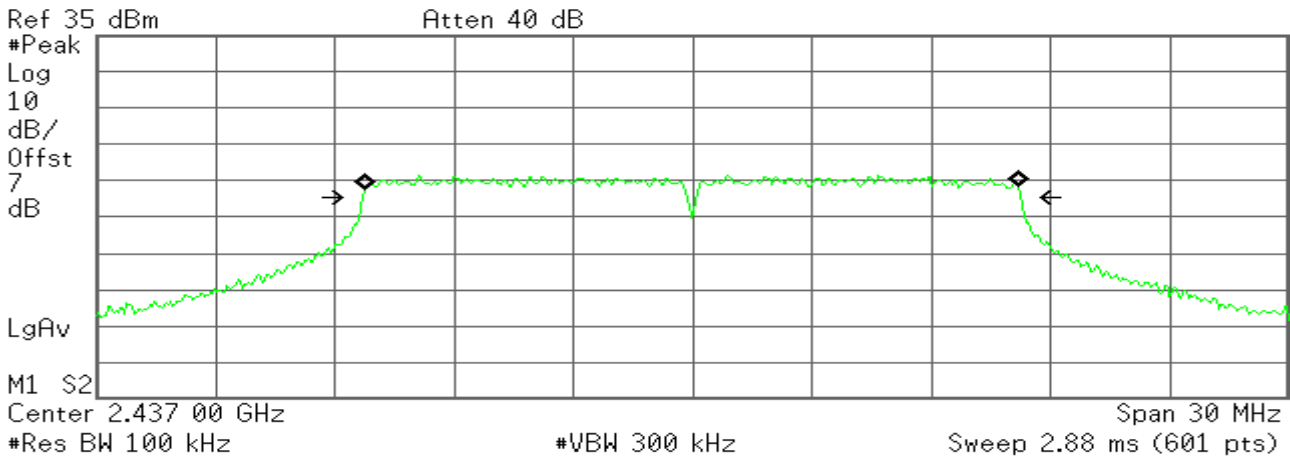
**Transmit Freq Error**      -18.271 kHz  
**x dB Bandwidth**            16.574 MHz



## 6dB Bandwidth (CH Mid)

Agilent

R T



**Occupied Bandwidth**  
16.4414 MHz

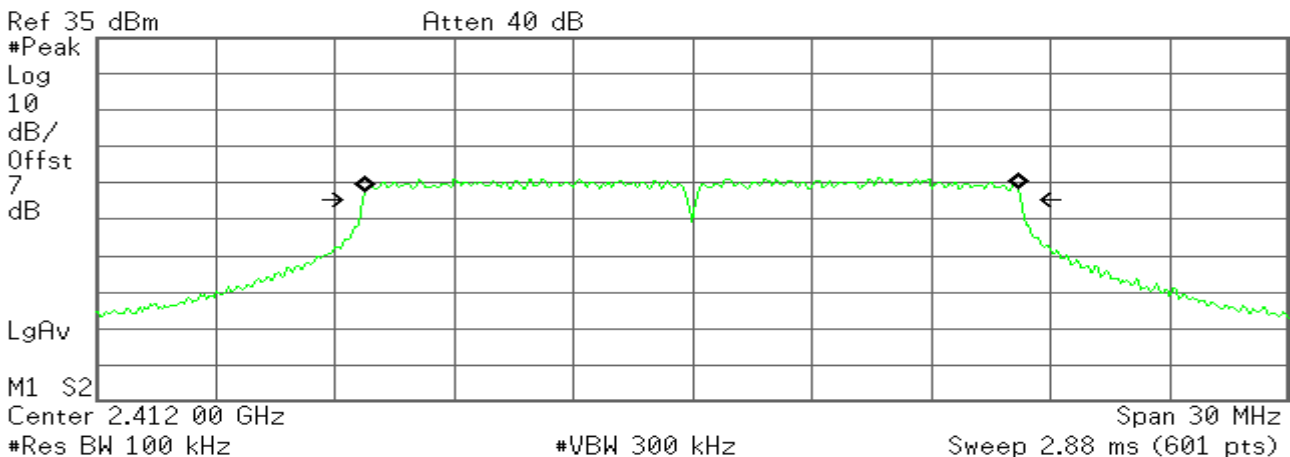
**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

**Transmit Freq Error** -18.734 kHz  
**x dB Bandwidth** 16.578 MHz

## 6dB Bandwidth (CH High)

Agilent

R T



**Occupied Bandwidth**  
16.4402 MHz

**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

**Transmit Freq Error** -15.687 kHz  
**x dB Bandwidth** 16.572 MHz

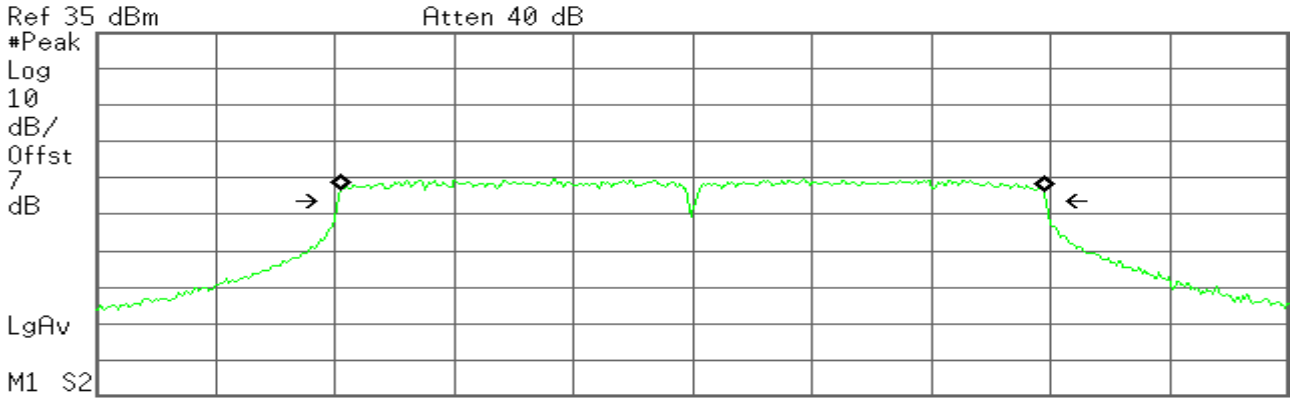


## 802.11n HT20 MHz Channel mode

### 6dB Bandwidth (CH Low)

Agilent

R T



Center 2.412 00 GHz

#VBW 300 kHz

Span 30 MHz  
Sweep 2.88 ms (601 pts)

#Res BW 100 kHz

**Occupied Bandwidth**  
**17.6727 MHz**

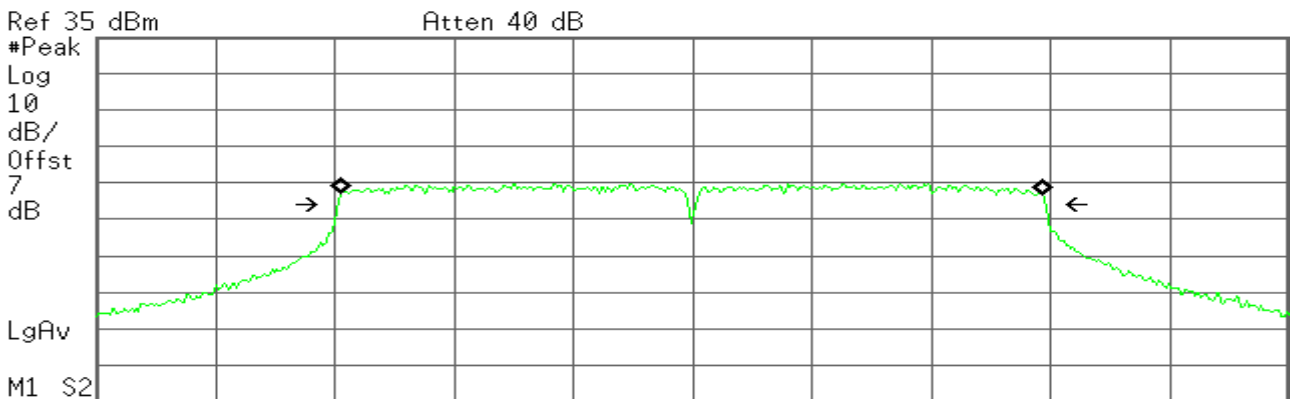
**Occ BW % Pwr**    99.00 %  
**x dB**            -6.00 dB

**Transmit Freq Error**    -10.830 kHz  
**x dB Bandwidth**        17.826 MHz

### 6dB Bandwidth (CH Mid)

Agilent

R T



Center 2.437 00 GHz

#VBW 300 kHz

Span 30 MHz  
Sweep 2.88 ms (601 pts)

#Res BW 100 kHz

**Occupied Bandwidth**  
**17.6659 MHz**

**Occ BW % Pwr**    99.00 %  
**x dB**            -6.00 dB

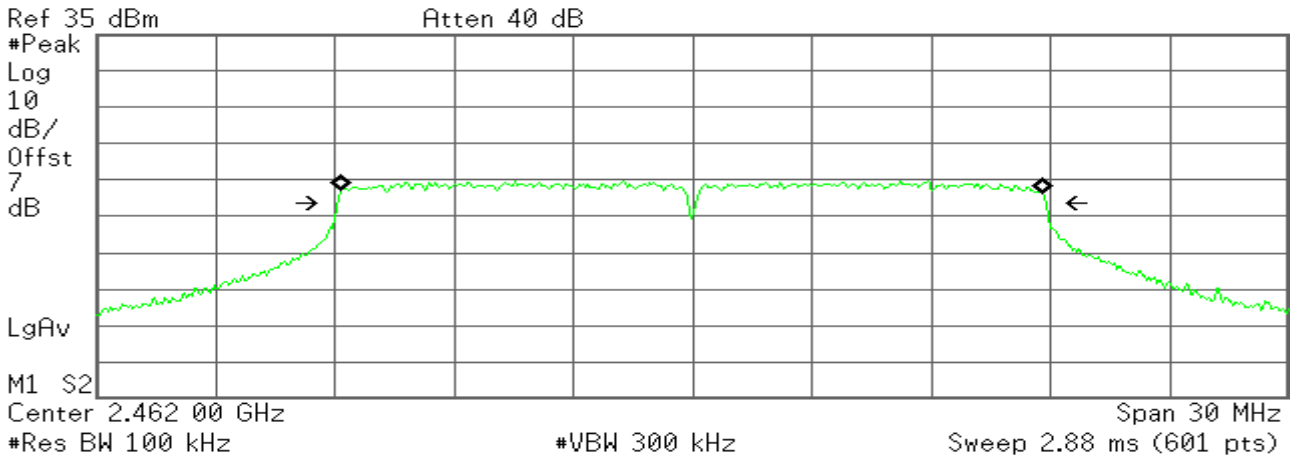
**Transmit Freq Error**    -13.742 kHz  
**x dB Bandwidth**        17.818 MHz



## 6dB Bandwidth (CH High)

\* Agilent

R T



**Occupied Bandwidth**  
17.6670 MHz

**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

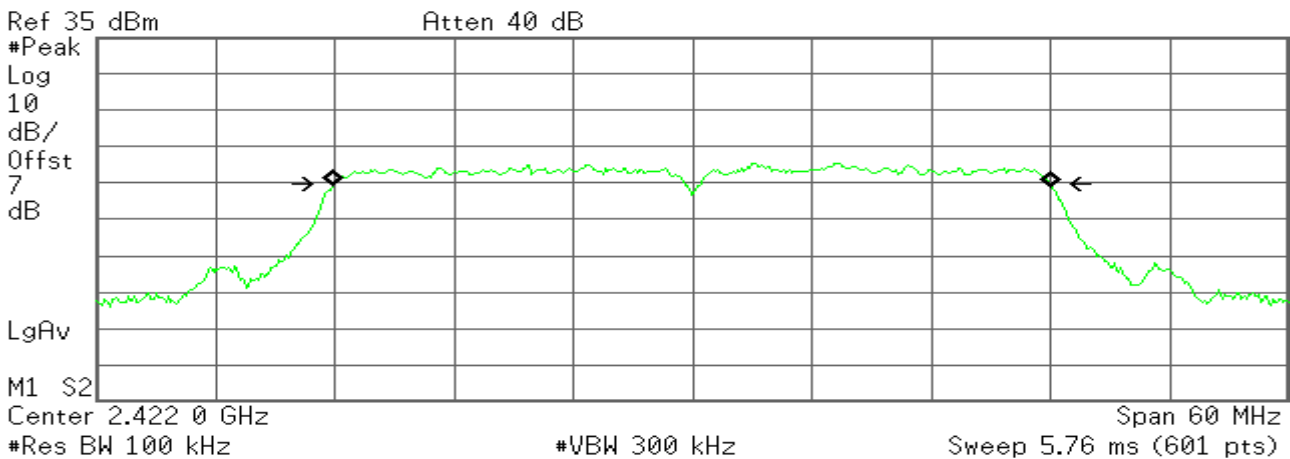
**Transmit Freq Error** -18.936 kHz  
**x dB Bandwidth** 17.824 MHz

## 802.11n HT40 MHz Channel mode

### 6dB Bandwidth (CH Low)

\* Agilent

R T



**Occupied Bandwidth**  
36.1584 MHz

**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

**Transmit Freq Error** -46.018 kHz  
**x dB Bandwidth** 36.077 MHz



# Compliance Certification Services Inc.

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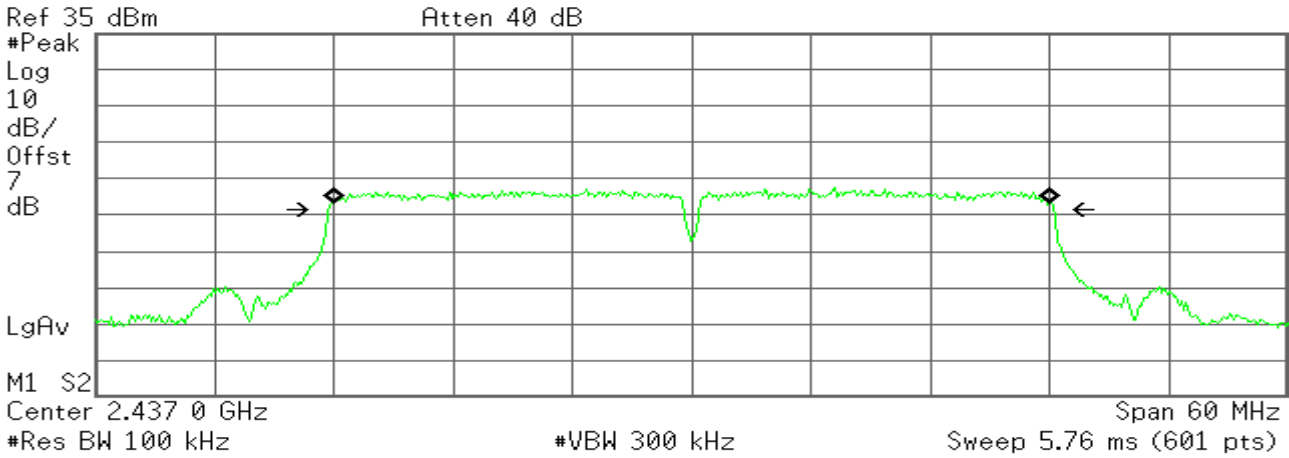
Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## 6dB Bandwidth (CH Mid)

Agilent

R T



Occupied Bandwidth  
36.0335 MHz

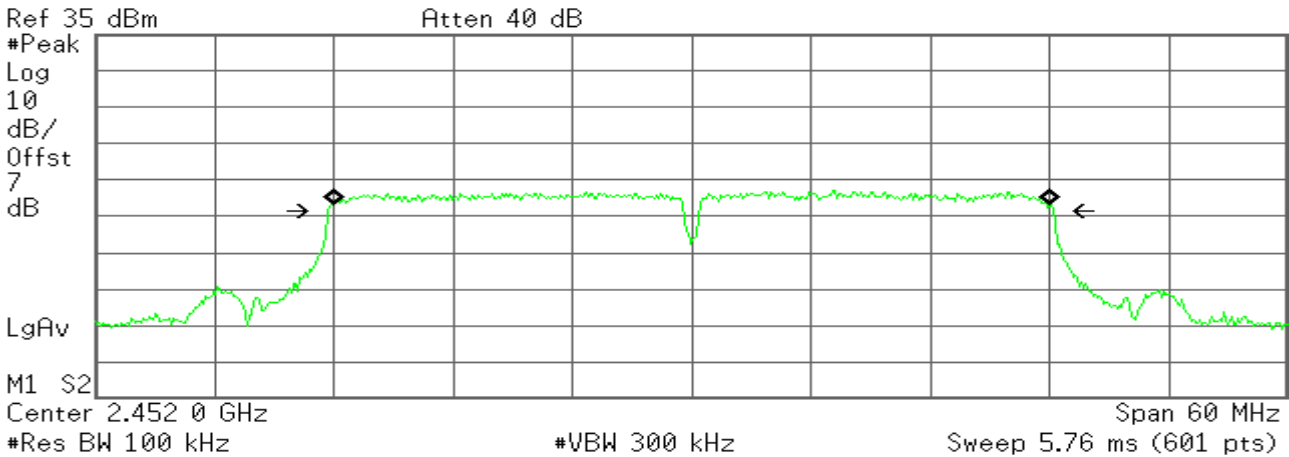
Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error -19.309 kHz  
x dB Bandwidth 36.532 MHz

## 6dB Bandwidth (CH High)

Agilent

R T



Occupied Bandwidth  
36.0269 MHz

Occ BW % Pwr 99.00 %  
x dB -6.00 dB

Transmit Freq Error -28.322 kHz  
x dB Bandwidth 36.529 MHz

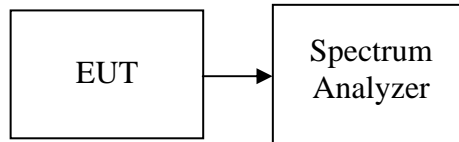


## 7.2. 99% BANDWIDTH MEASUREMENT

### LIMIT

None; for reporting purposes only  
RSS-Gen 4.6.1

### Test Configuration



### TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to close to 1% of the selected span as is possible without being below 1%. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.



## TEST RESULTS

*No non-compliance noted*

### Test Data

#### **IEEE 802.11b mode**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2412	15.026
Mid	2437	15.029
High	2462	15.025

#### **IEEE 802.11g mode**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2412	16.700
Mid	2437	16.711
High	2462	16.699

#### **IEEE 802.11n HT20 MHz Channel mode**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2412	18.058
Mid	2437	17.995
High	2462	18.009

#### **IEEE 802.11n HT40 MHz Channel mode**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2422	36.058
Mid	2437	36.104
High	2452	36.128



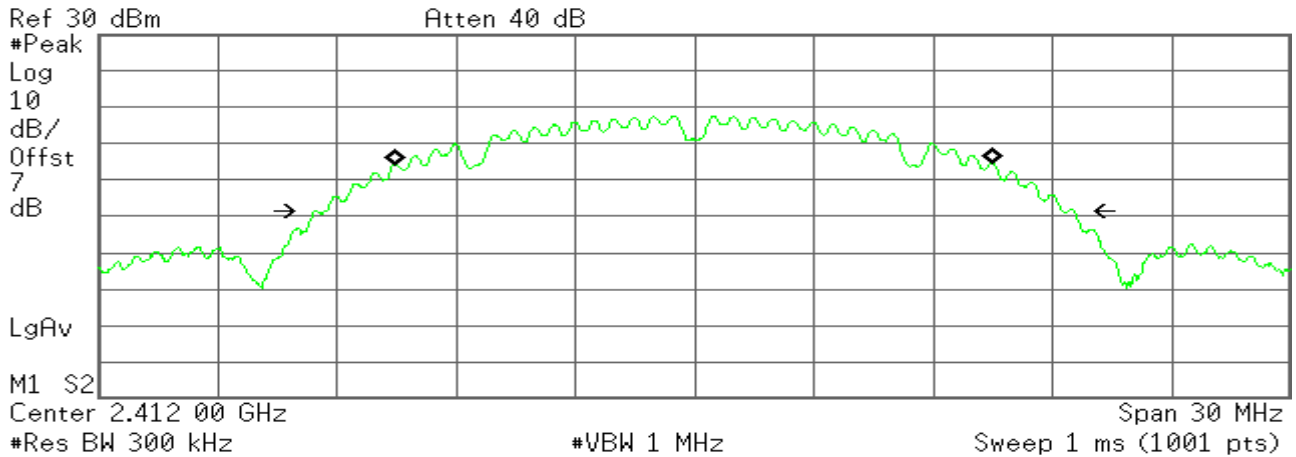
## Test Plot

### IEEE 802.11b MODE

#### 99% Bandwidth (CH Low)

\* Agilent

R T



**Occupied Bandwidth**  
**15.0257 MHz**

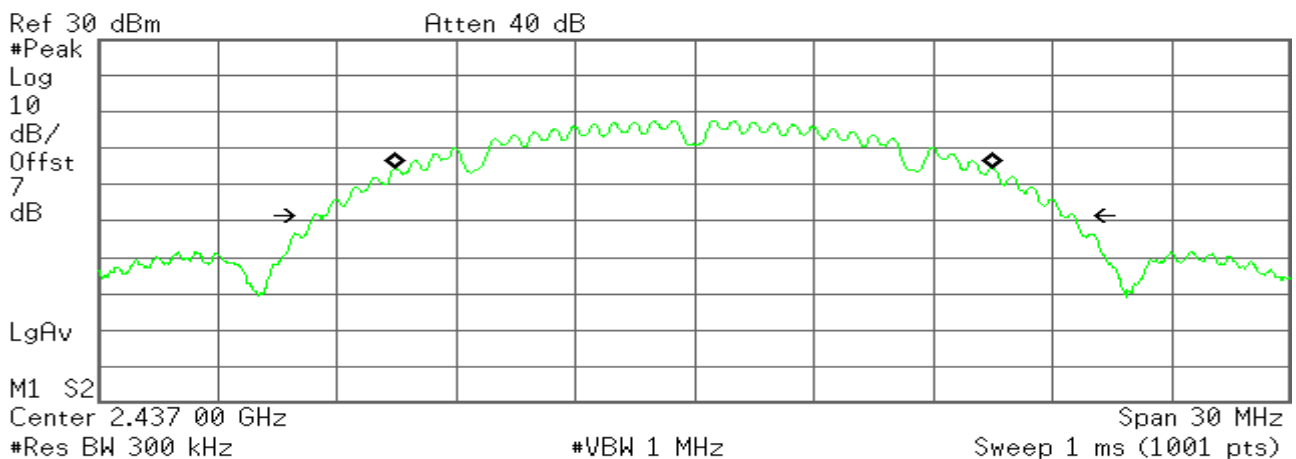
**Occ BW % Pwr**      99.00 %  
**x dB**                -26.00 dB

**Transmit Freq Error**      -7.132 kHz  
**x dB Bandwidth**          19.092 MHz

#### 99% Bandwidth (CH Mid)

\* Agilent

R T



**Occupied Bandwidth**  
**15.0288 MHz**

**Occ BW % Pwr**      99.00 %  
**x dB**                -26.00 dB

**Transmit Freq Error**      -18.401 kHz  
**x dB Bandwidth**          19.114 MHz

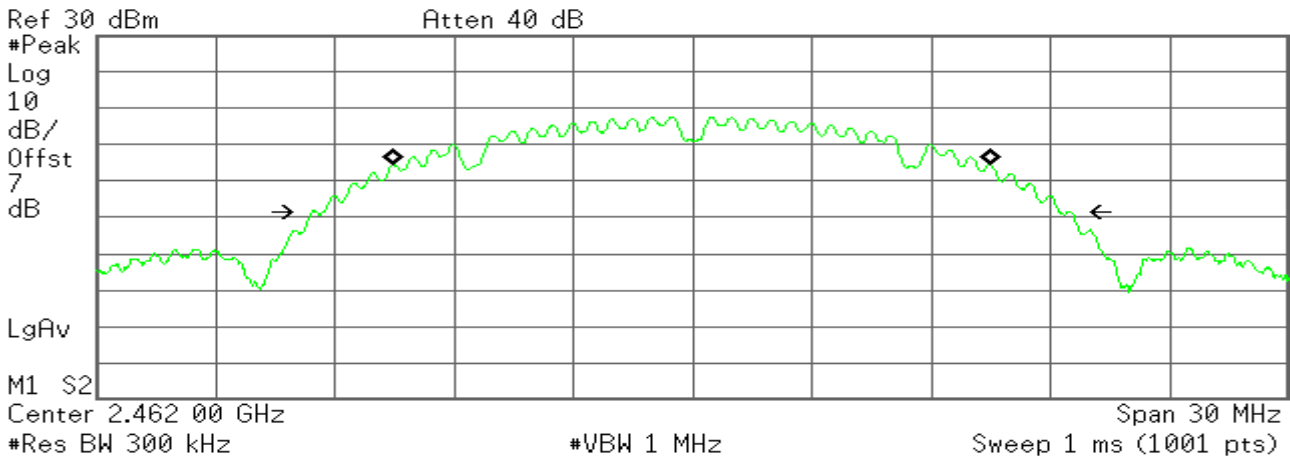




## 99% Bandwidth (CH High)

\* Agilent

R T



**Occupied Bandwidth**  
**15.0246 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

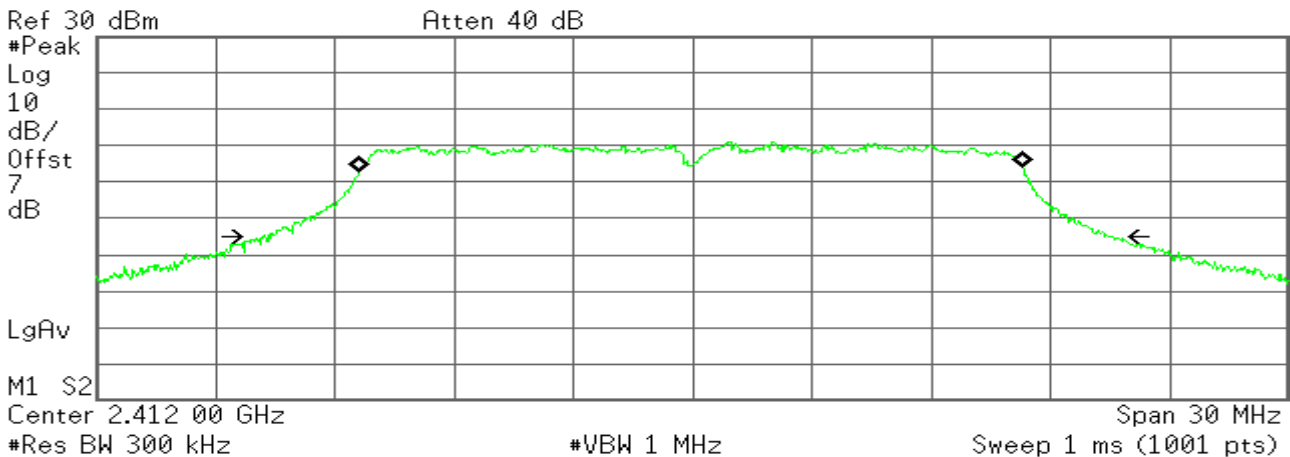
**Transmit Freq Error** -33.213 kHz  
**x dB Bandwidth** 19.092 MHz

## IEEE 802.11g MODE

### 99% Bandwidth (CH Low)

\* Agilent

R T



**Occupied Bandwidth**  
**16.6999 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

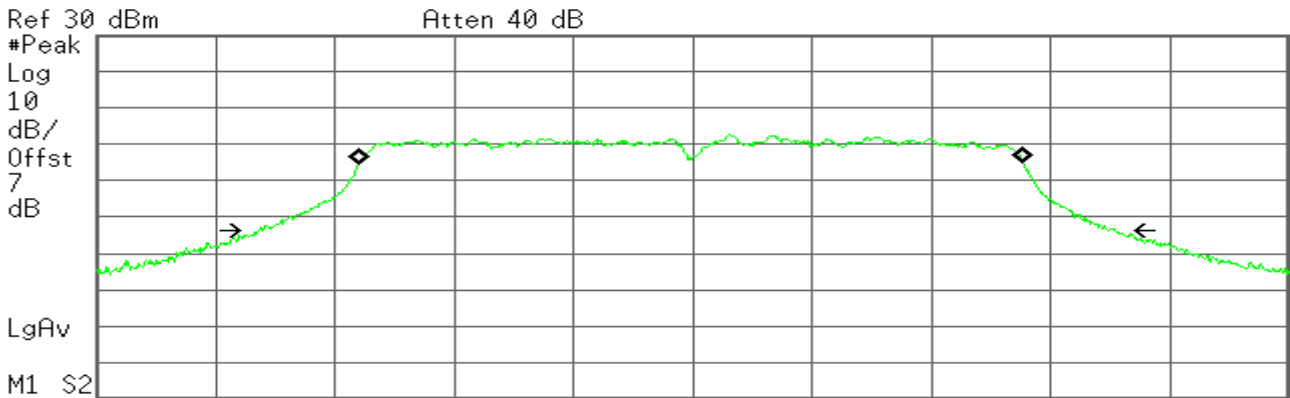
**Transmit Freq Error** -32.517 kHz  
**x dB Bandwidth** 21.261 MHz



## 99% Bandwidth (CH Mid)

Agilent

R T



Center 2.437 00 GHz

Span 30 MHz

#Res BW 300 kHz

#VBW 1 MHz

Sweep 1 ms (1001 pts)

**Occupied Bandwidth**  
**16.7118 MHz**

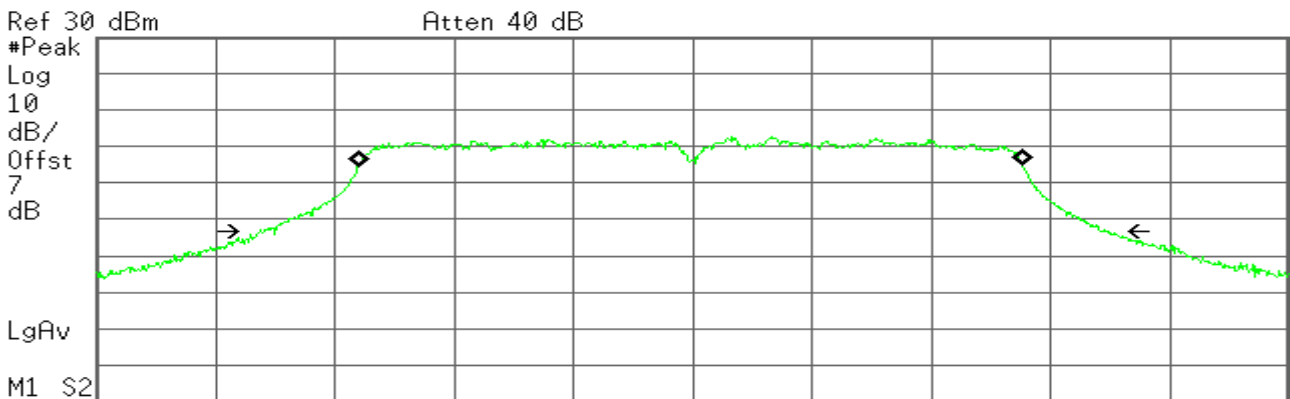
**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** -41.861 kHz  
**x dB Bandwidth** 21.508 MHz

## 99% Bandwidth (CH High)

Agilent

R T



Center 2.462 00 GHz

Span 30 MHz

#Res BW 300 kHz

#VBW 1 MHz

Sweep 1 ms (1001 pts)

**Occupied Bandwidth**  
**16.6989 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** -52.215 kHz  
**x dB Bandwidth** 21.360 MHz

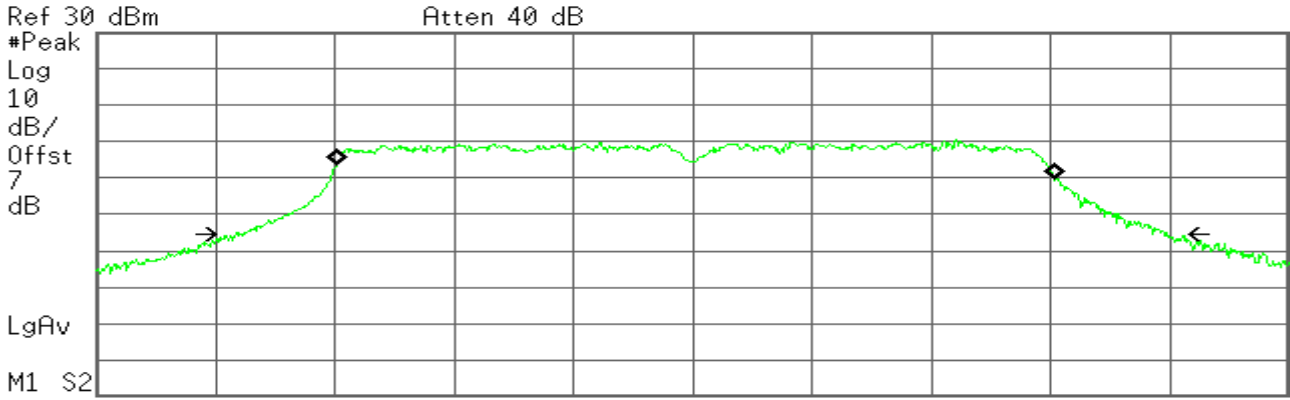


## 802.11n HT20 MHz Channel mode

### 99% Bandwidth (CH Low)

Agilent

R T



Ref 30 dBm Atten 40 dB  
 #Peak Log 10 dB/ Offst 7 dB  
 M1 S2 Center 2.412 00 GHz Span 30 MHz  
 #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (1001 pts)

**Occupied Bandwidth**  
**18.0575 MHz**

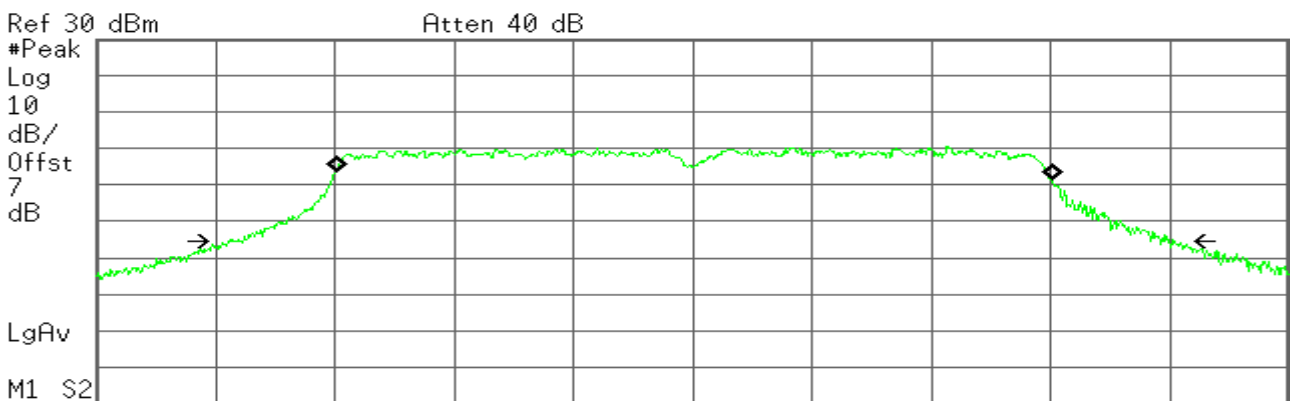
**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** 59.417 kHz  
**x dB Bandwidth** 23.461 MHz

### 99% Bandwidth (CH Mid)

Agilent

R T



Ref 30 dBm Atten 40 dB  
 #Peak Log 10 dB/ Offst 7 dB  
 M1 S2 Center 2.437 00 GHz Span 30 MHz  
 #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (1001 pts)

**Occupied Bandwidth**  
**17.9954 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

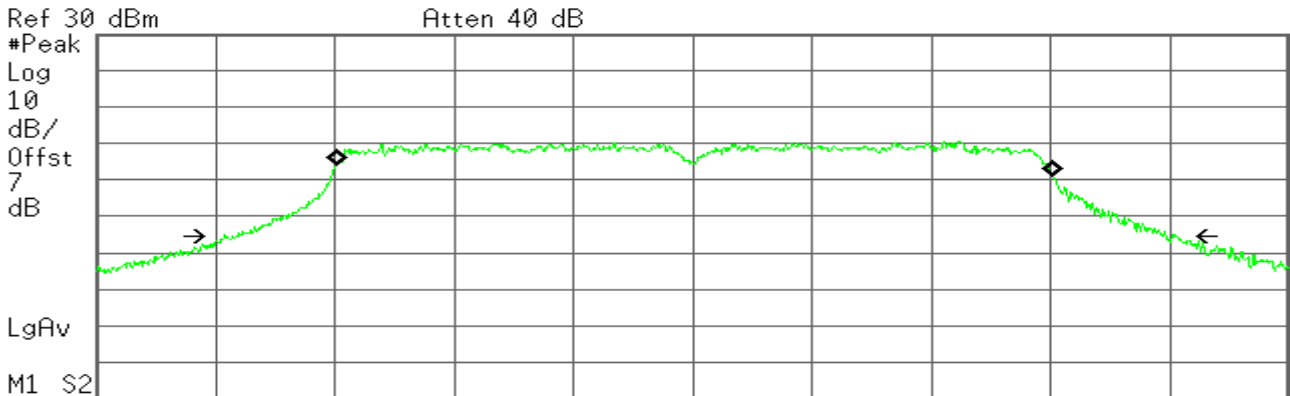
**Transmit Freq Error** 21.068 kHz  
**x dB Bandwidth** 23.810 MHz



## 99% Bandwidth (CH High)

Agilent

R T



Center 2.462 00 GHz

Span 30 MHz

#Res BW 300 kHz

#VBW 1 MHz

Sweep 1 ms (1001 pts)

**Occupied Bandwidth**  
**18.0090 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

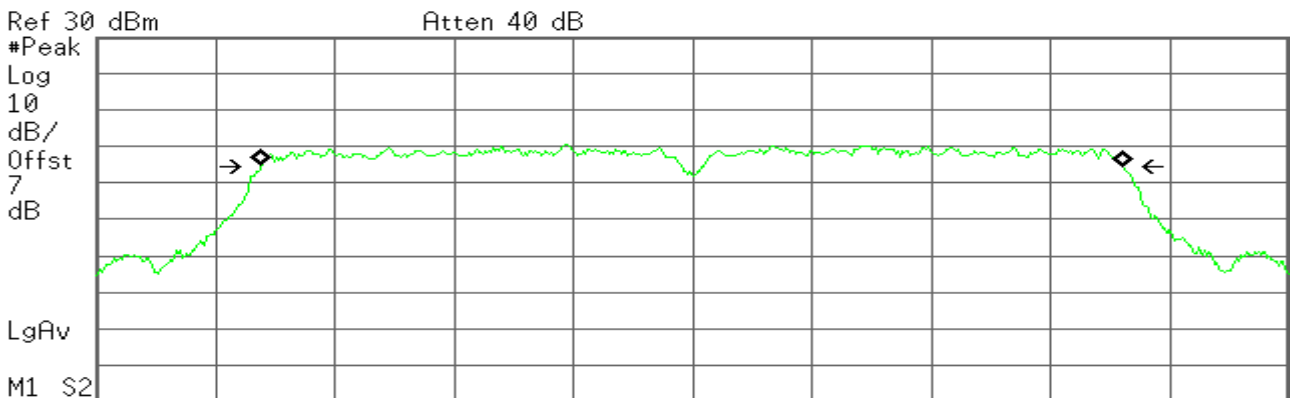
**Transmit Freq Error** 26.091 kHz  
**x dB Bandwidth** 23.972 MHz

## 802.11n HT40 MHz Channel mode

### 99% Bandwidth (CH Low)

Agilent

R T



Center 2.422 00 GHz

Span 50 MHz

#Res BW 510 kHz

#VBW 1.6 MHz

Sweep 1 ms (601 pts)

**Occupied Bandwidth**  
**36.0583 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

**Transmit Freq Error** -19.609 kHz  
**x dB Bandwidth** 36.073 MHz



# Compliance Certification Services Inc.

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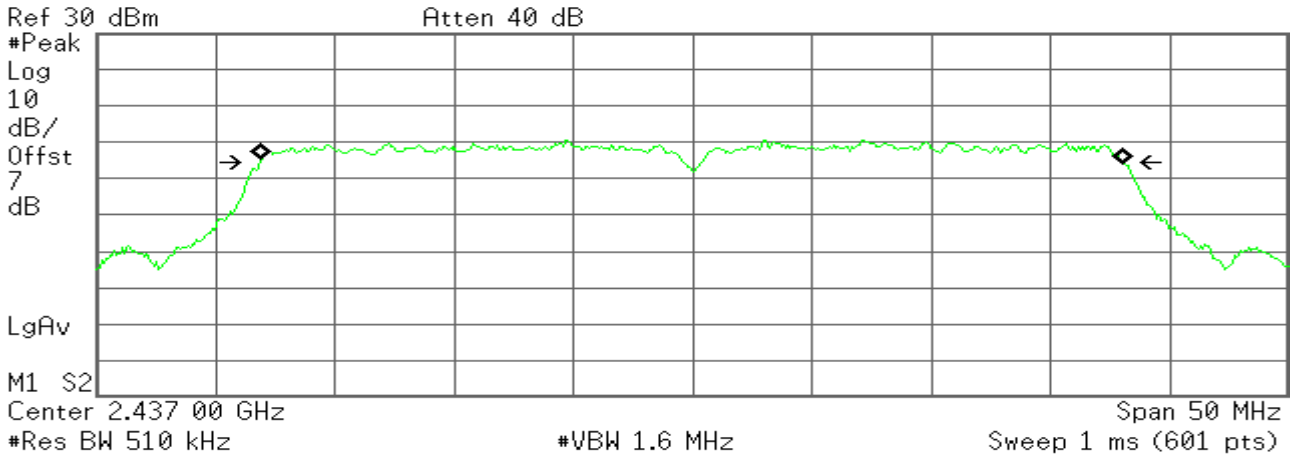
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## 99% Bandwidth (CH Mid)

Agilent

R T



**Occupied Bandwidth**  
36.1039 MHz

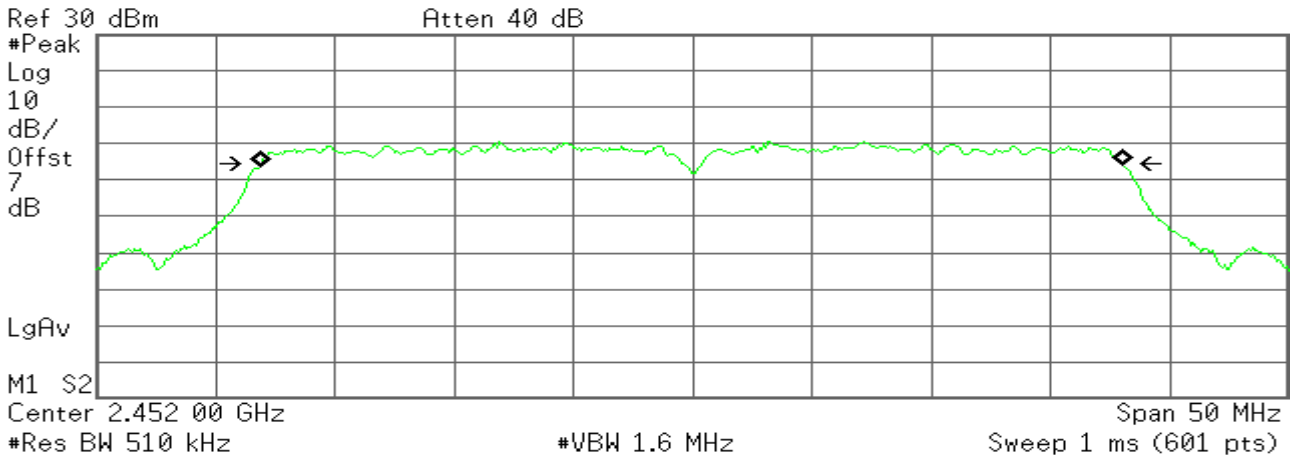
**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

**Transmit Freq Error** -27.168 kHz  
**x dB Bandwidth** 36.066 MHz

## 99% Bandwidth (CH High)

Agilent

R T



**Occupied Bandwidth**  
36.1284 MHz

**Occ BW % Pwr** 99.00 %  
**x dB** -6.00 dB

**Transmit Freq Error** -53.034 kHz  
**x dB Bandwidth** 36.003 MHz



## 7.3. PEAK POWER

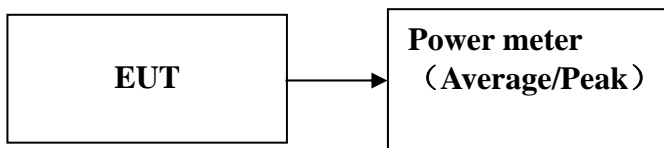
### LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, and 2400-2483.5 MHz: 1 Watt.

2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, 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 in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### Test Configuration



### TEST PROCEDURE

1. The EUT transmitter output is connected to the Power meter.  
The Power meter is set to the peak power detection.
2. The testing follows the Measurement Procedure FCC KDB No. 558074 D01 DTS Meas. Guidance v03r02. 9.1.2 PKPM1 Peak power meter method.

### TEST RESULTS

*No non-compliance noted*



## Test Data

### Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)
Low	2412	17.70	30
Mid	2437	17.84	30
High	2462	17.95	30

### Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)
Low	2412	13.44	30
Mid	2437	13.59	30
High	2462	13.67	30

### Test mode: IEEE 802.11n HT20 mode

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)
Low	2412	12.49	30
Mid	2437	12.69	30
High	2462	12.72	30

### Test mode: IEEE 802.11n HT40 mode

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)
Low	2422	12.30	30
Mid	2437	12.43	30
High	2452	12.54	30

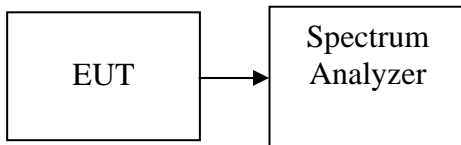


## 7.4. PEAK POWER SPECTRAL DENSITY

### LIMIT

1. According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

### Test Configuration



### TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3 kHz, VBW = 10 kHz, Span = 1.5 times the DTS bandwidth, Sweep = auto
3. Record the max reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

### TEST RESULTS

*No non-compliance noted*

### Test Data



**Test mode: IEEE 802.11b mode**

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-14.25	8.00	PASS
Mid	2437	-13.95	8.00	PASS
High	2462	-13.73	8.00	PASS

**Test mode: IEEE 802.11g mode**

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-17.03	8.00	PASS
Mid	2437	-17.51	8.00	PASS
High	2462	-17.35	8.00	PASS

**Test mode: IEEE 802.11n HT20 mode**

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-18.43	8.00	PASS
Mid	2437	-17.74	8.00	PASS
High	2462	-18.06	8.00	PASS

**Test mode: IEEE 802.11n HT40 mode**

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2422	-21.56	8.00	PASS
Mid	2437	-20.39	8.00	PASS
High	2452	-20.53	8.00	PASS



# Compliance Certification Services Inc.

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## Test Plot

### IEEE 802.11b mode

### PPSD (CH Low)

Agilent

R T

Mkr1 2.412 684 GHz  
-14.25 dBm

Ref 30 dBm

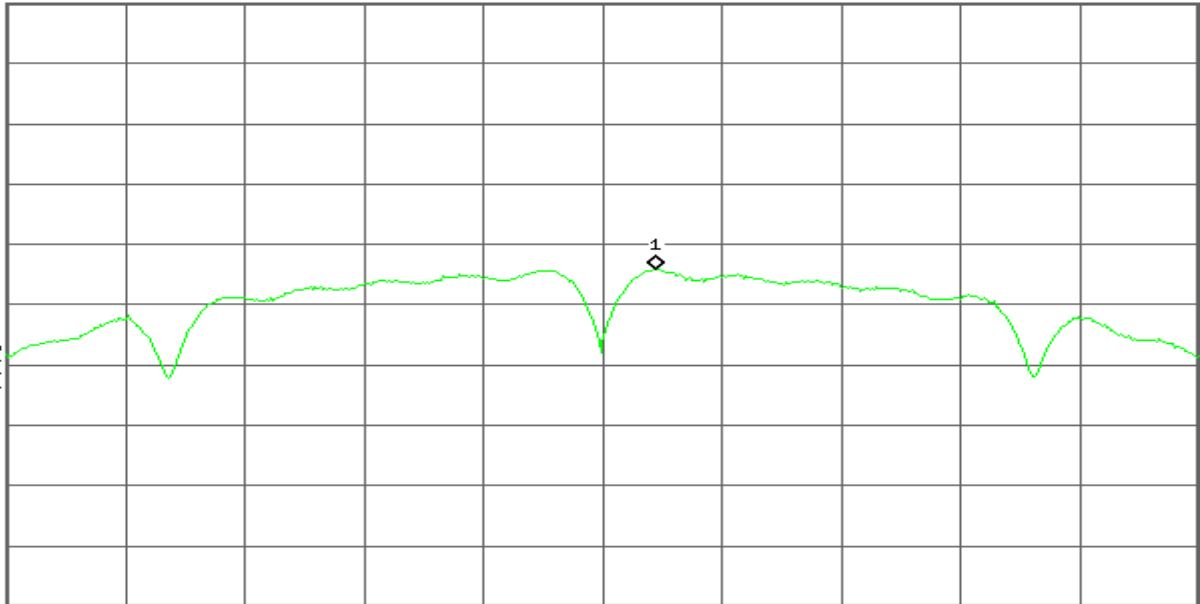
Atten 40 dB

Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

$\mathcal{E}(f)$ :  
FTun  
Swp



Center 2.412 000 GHz

Span 15.2 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 1.603 s (601 pts)

### PPSD (CH Mid)

Agilent

R T

Mkr1 2.437 709 GHz  
-13.95 dBm

Ref 30 dBm

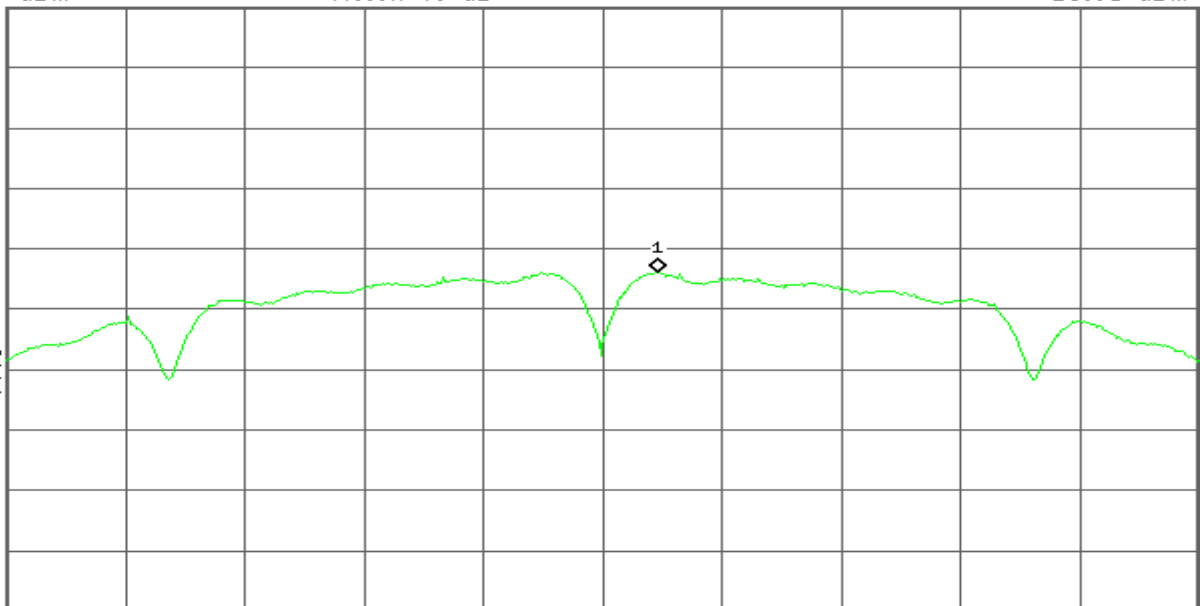
Atten 40 dB

Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

$\mathcal{E}(f)$ :  
FTun  
Swp



Center 2.437 000 GHz

Span 15.2 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 1.603 s (601 pts)



## PPSD (CH High)

Agilent

R T

Mkr1 2.461 265 GHz  
-13.73 dBm

Ref 30 dBm

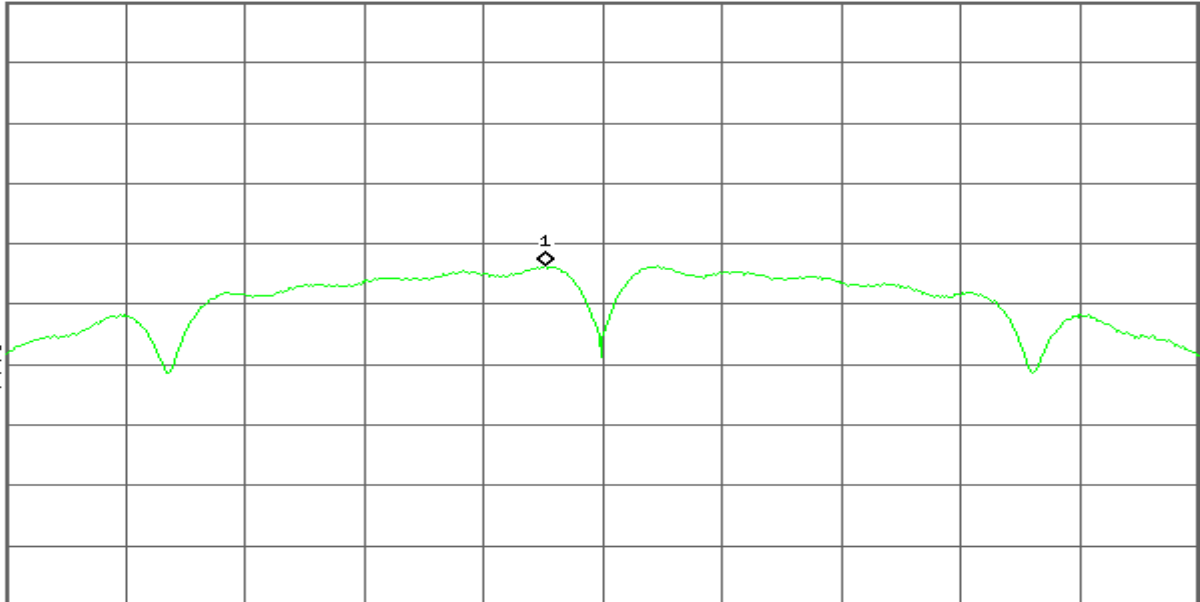
Atten 40 dB

Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

£(f):  
FTun  
Swp



Center 2.462 000 GHz

Span 15.2 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 1.603 s (601 pts)

## IEEE 802.11g mode

### PPSD (CH Low)

Agilent

R T

Mkr1 2.408 87 GHz  
-17.03 dBm

Ref 30 dBm

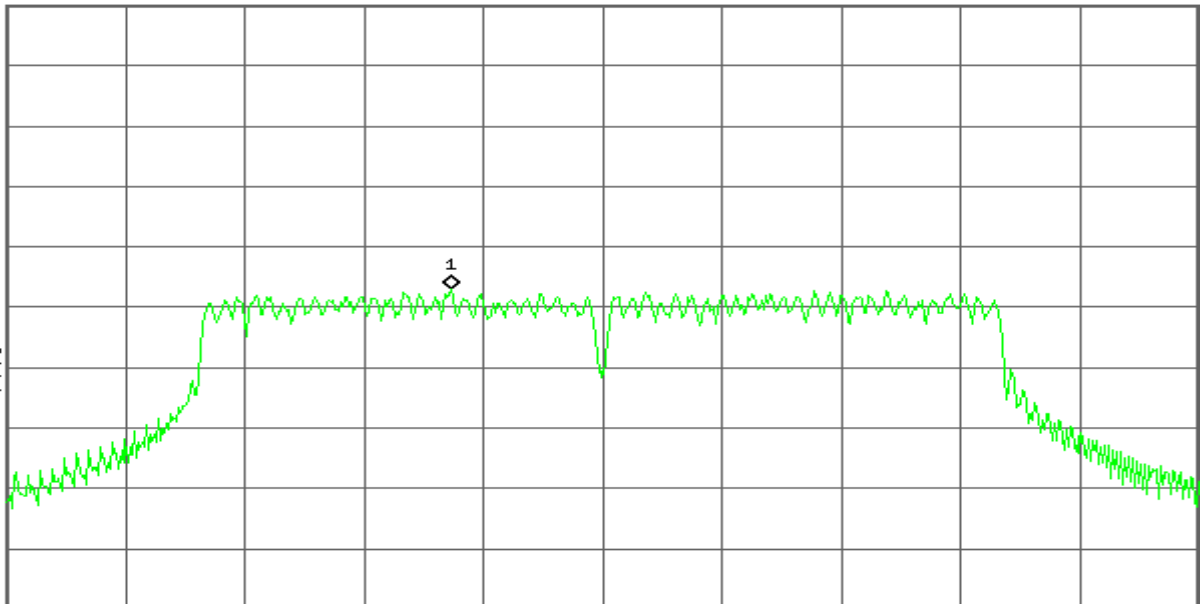
Atten 40 dB

#Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

£(f):  
FTun  
Swp



Center 2.412 00 GHz

Span 24.7 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 2.604 s (601 pts)



# Compliance Certification Services Inc.

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## PPSD (CH Mid)

Agilent

R T

Mkr1 2.435 68 GHz  
-17.51 dBm

Ref 30 dBm

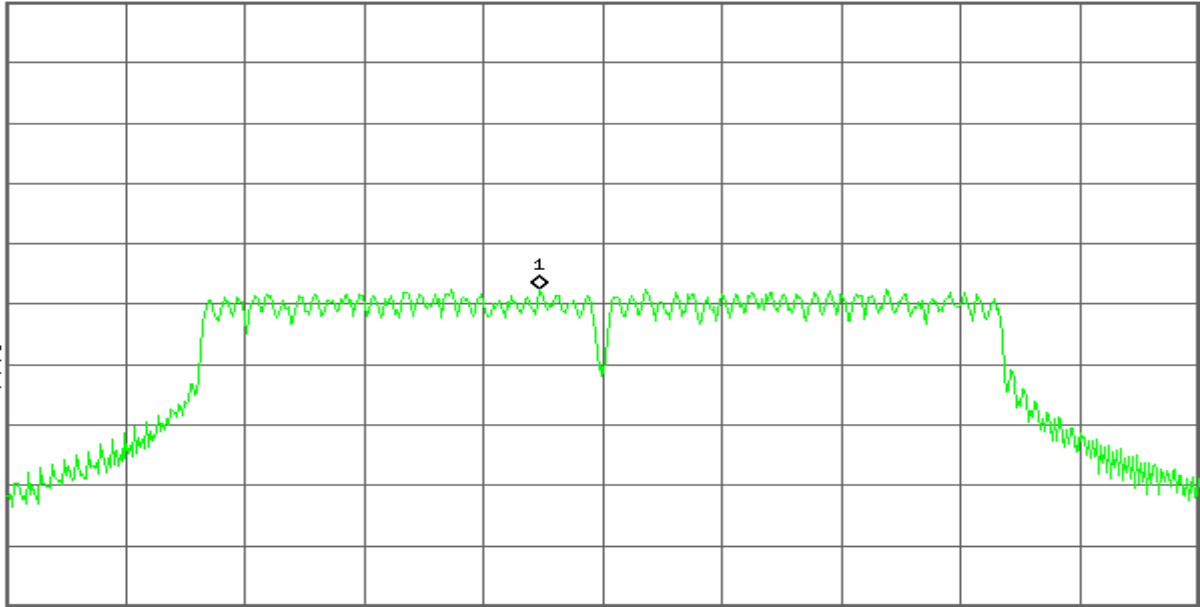
Atten 40 dB

#Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

£(f):  
FTun  
Swp



Center 2.437 00 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 24.7 MHz  
Sweep 2.604 s (601 pts)

## PPSD (CH High)

Agilent

R T

Mkr1 2.458 87 GHz  
-17.35 dBm

Ref 30 dBm

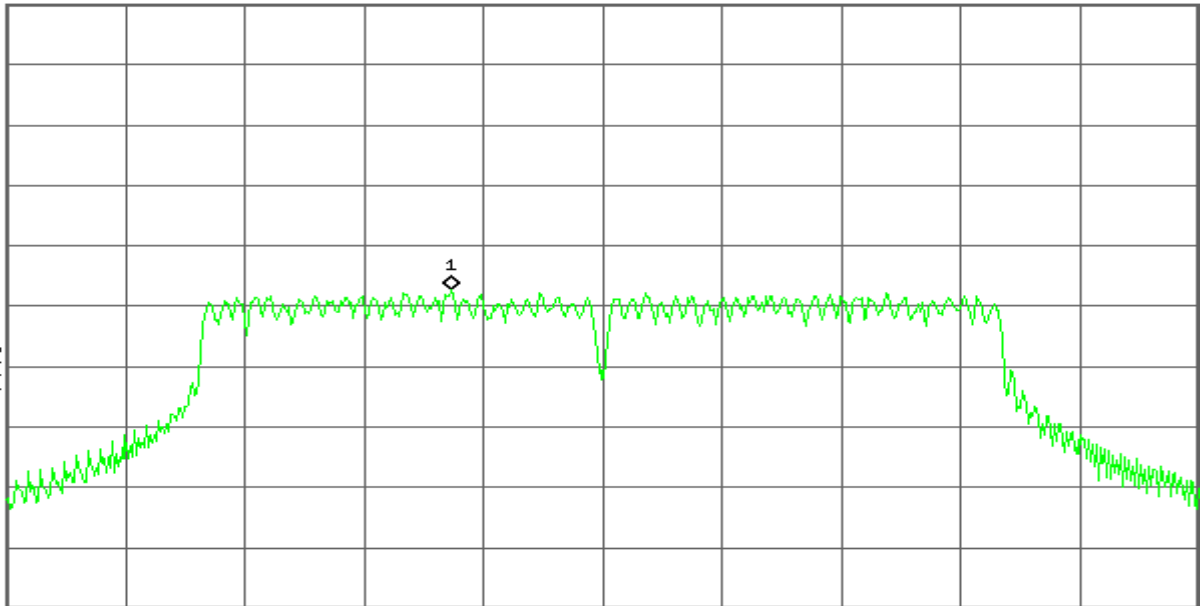
Atten 40 dB

#Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

£(f):  
FTun  
Swp



Center 2.462 00 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 24.7 MHz  
Sweep 2.604 s (601 pts)



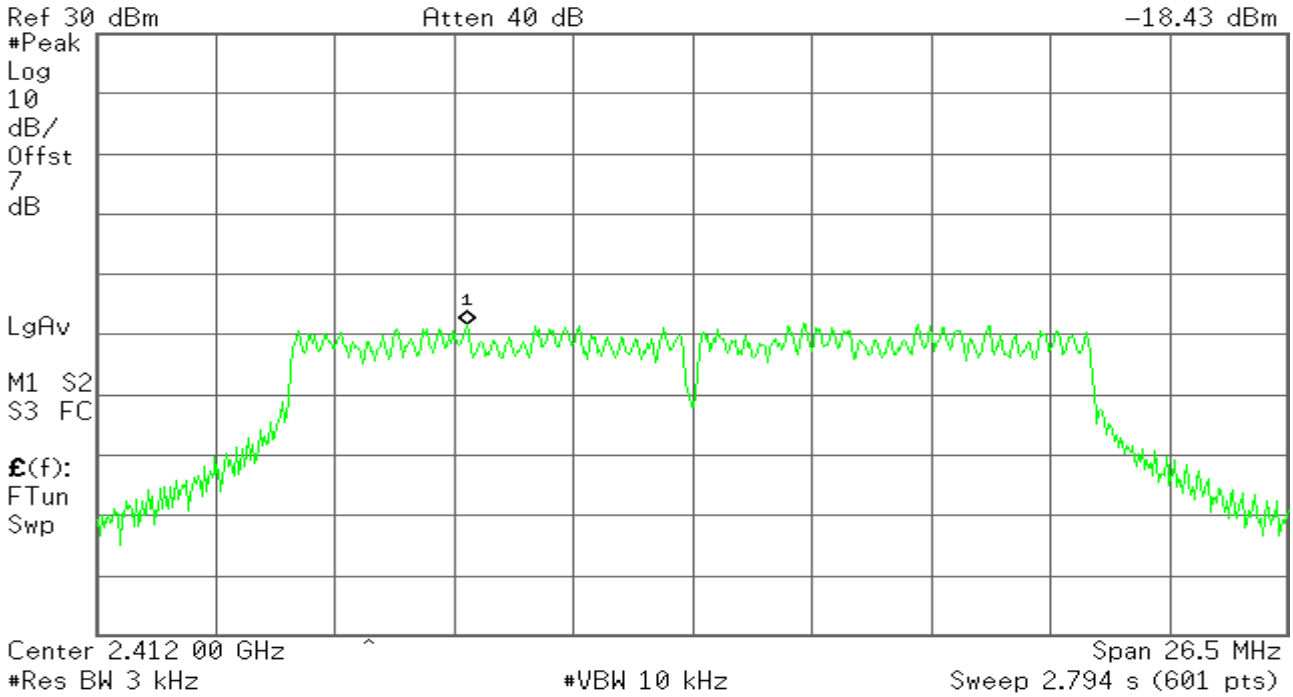
## IEEE 802.11n HT20 mode

### PPSD (CH Low)

Agilent

R T

Mkr1 2.407 01 GHz  
-18.43 dBm

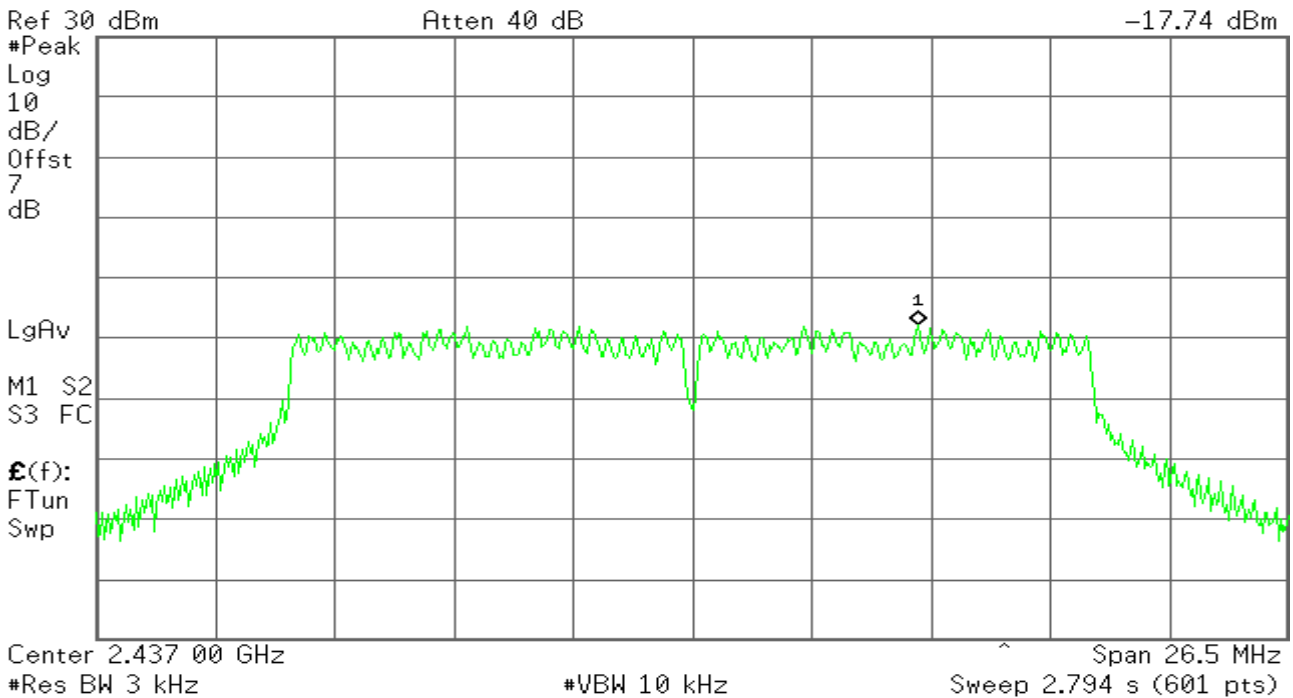


### PPSD (CH Mid)

Agilent

R T

Mkr1 2.441 99 GHz  
-17.74 dBm





## PPSD (CH High)

Agilent

R T

Mkr1 2.459 48 GHz  
-18.06 dBm

Ref 30 dBm

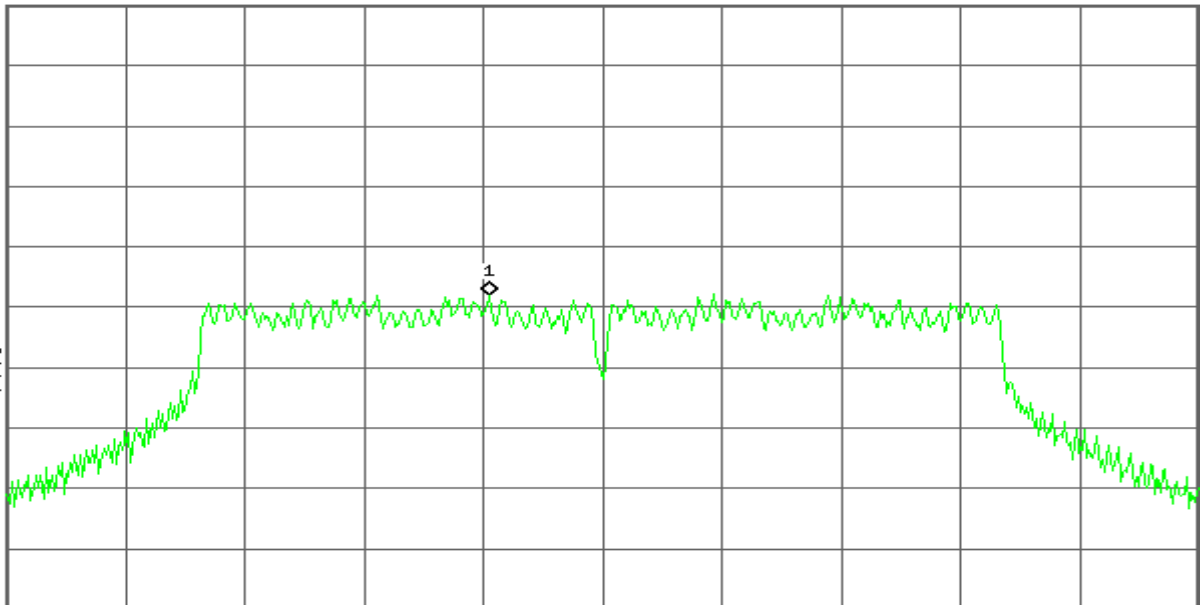
Atten 40 dB

#Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

£(f):  
FTun  
Swp



Center 2.462 00 GHz

Span 26.5 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 2.794 s (601 pts)

## IEEE 802.11n HT40 mode

### PPSD (CH Low)

Agilent

R T

Mkr1 2.425 34 GHz  
-21.56 dBm

Ref 30 dBm

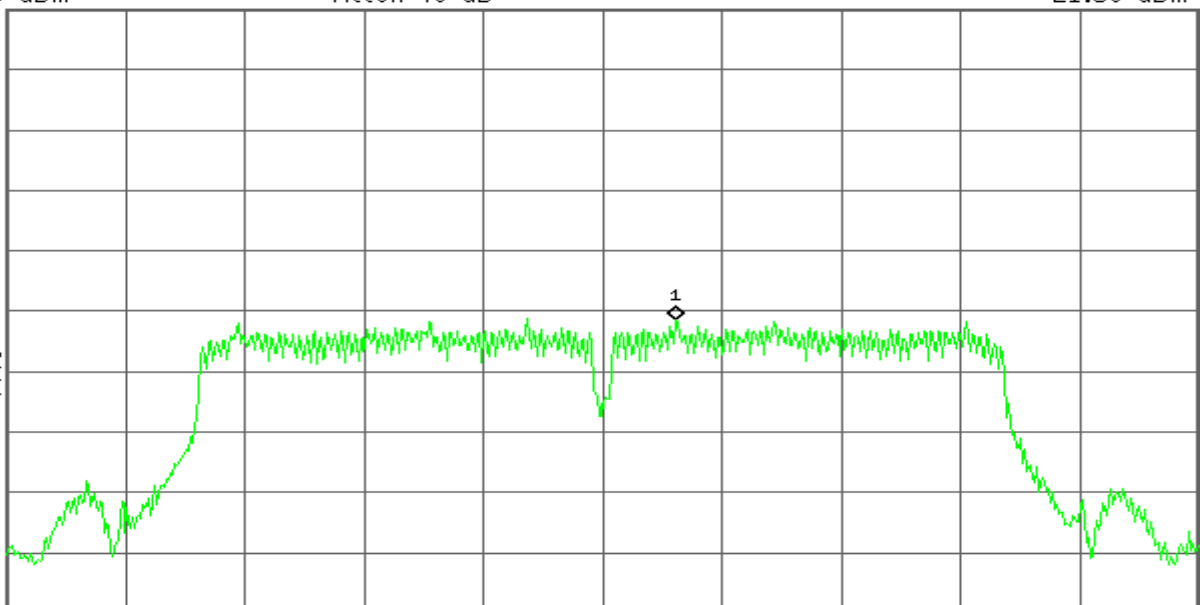
Atten 40 dB

#Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

£(f):  
FTun  
Swp



Center 2.422 00 GHz

Span 54.2 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 5.715 s (601 pts)



## PPSD (CH Mid)

Agilent

R T

Mkr1 2.433 57 GHz  
-20.39 dBm

Ref 30 dBm

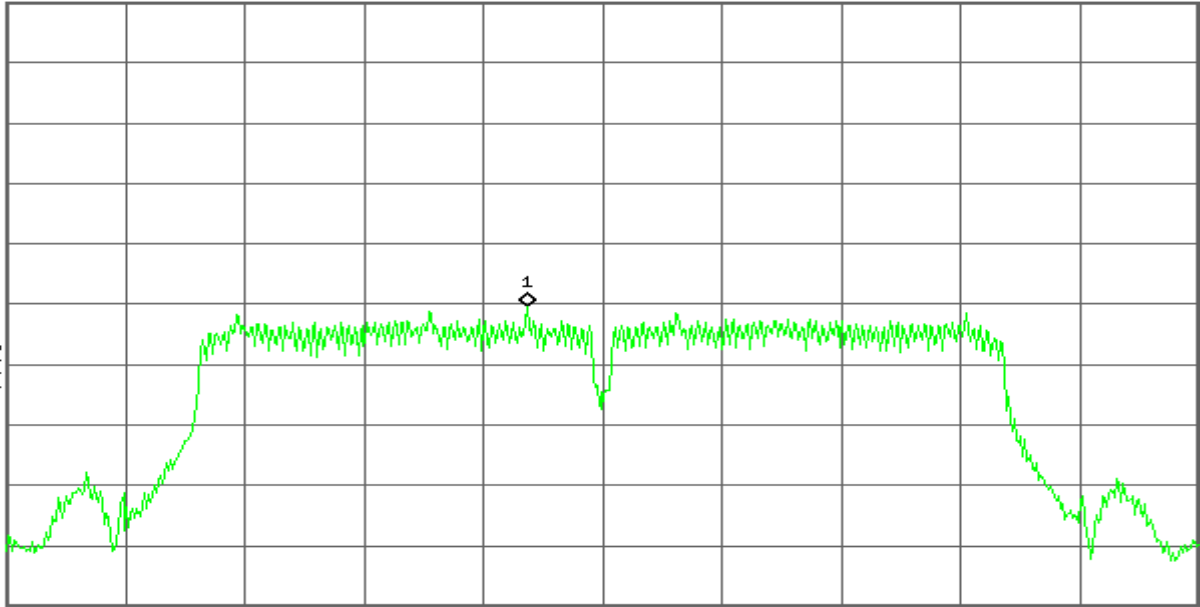
Atten 40 dB

#Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

£(f):  
FTun  
Swp



Center 2.437 00 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 54.2 MHz  
Sweep 5.715 s (601 pts)

## PPSD (CH High)

Agilent

R T

Mkr1 2.448 57 GHz  
-20.53 dBm

Ref 30 dBm

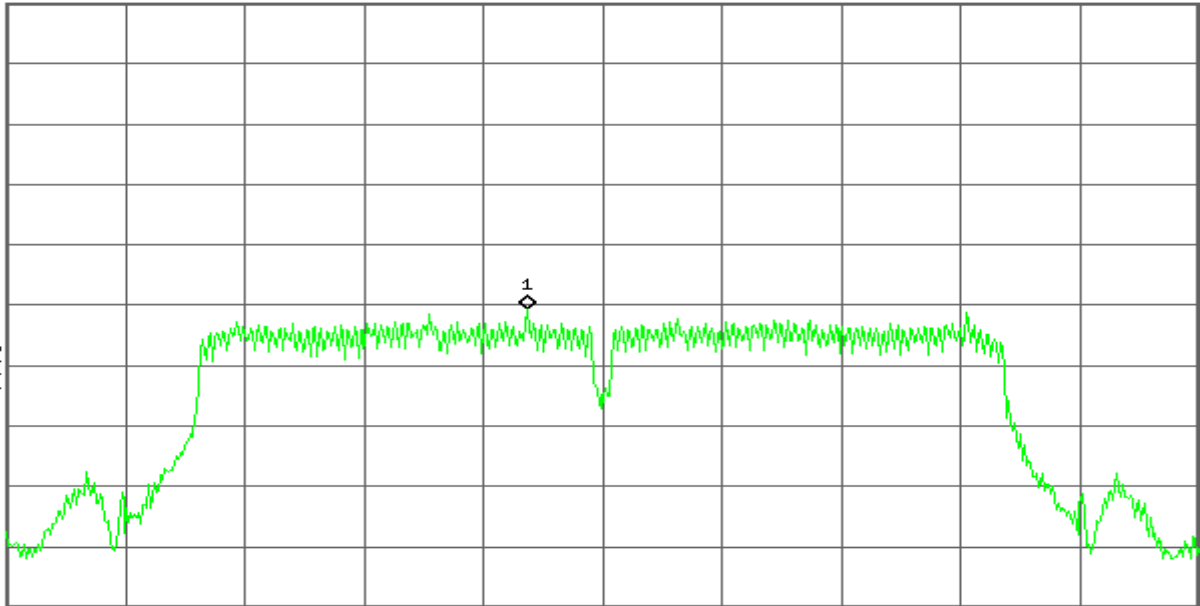
Atten 40 dB

#Peak  
Log  
10  
dB/  
Offst  
7  
dB

LgAv

M1 S2  
S3 FC

£(f):  
FTun  
Swp



Center 2.452 00 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 54.2 MHz  
Sweep 5.715 s (601 pts)

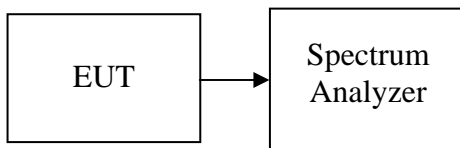


## 7.5.SPURIOUS EMISSIONS Conducted Measurement

### LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated 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) (see Section 15.205(c)).

### Test Configuration



### TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

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

Measurements are made over the 30MHz to 40GHz range with the transmitter set to the lowest, middle, and highest channels.

### TEST RESULTS

*No non-compliance noted*





## Test Plot

### OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

#### IEEE 802.11b mode

#### CH Low

Agilent

R T

Mkr1 2.411 468 GHz  
6.40 dBm

Ref 30 dBm

Atten 40 dB

Peak

Log

10

dB/

Offst

7

dB

DI

-13.6

dBm

LgAv

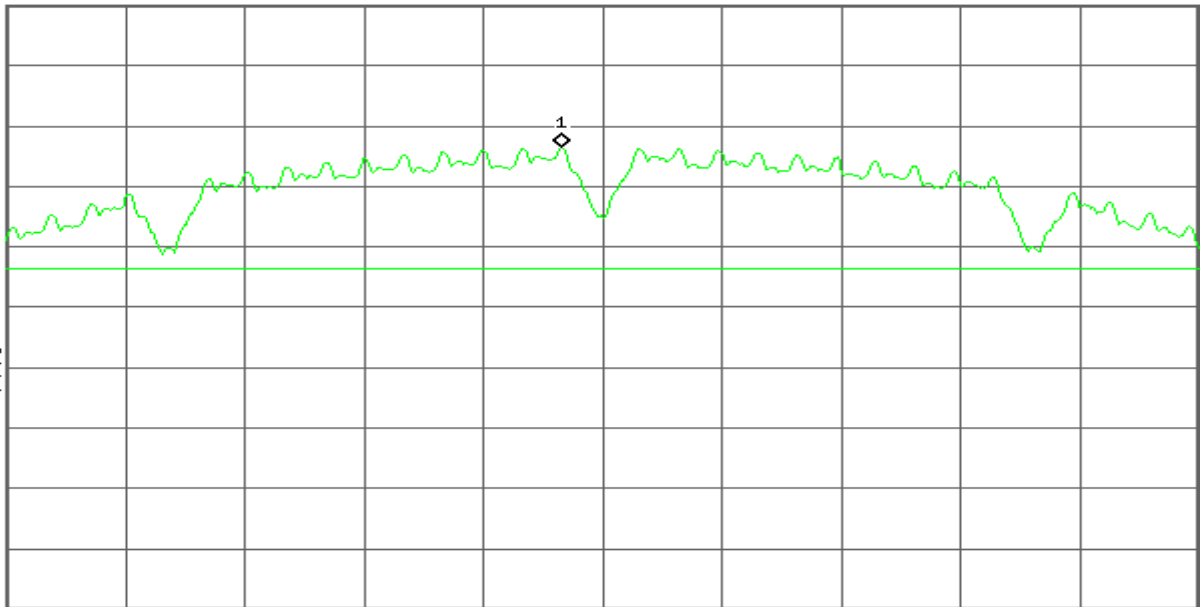
M1 S2

S3 FC

f(f):

FTun

Swp



Center 2.412 000 GHz

Span 15.2 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 1.48 ms (601 pts)

Agilent

R T

Mkr1 2.399 951 GHz  
-30.62 dBm

Ref 30 dBm

Atten 40 dB

Peak

Log

10

dB/

Offst

7

dB

DI

-13.6

dBm

LgAv

M1 S2

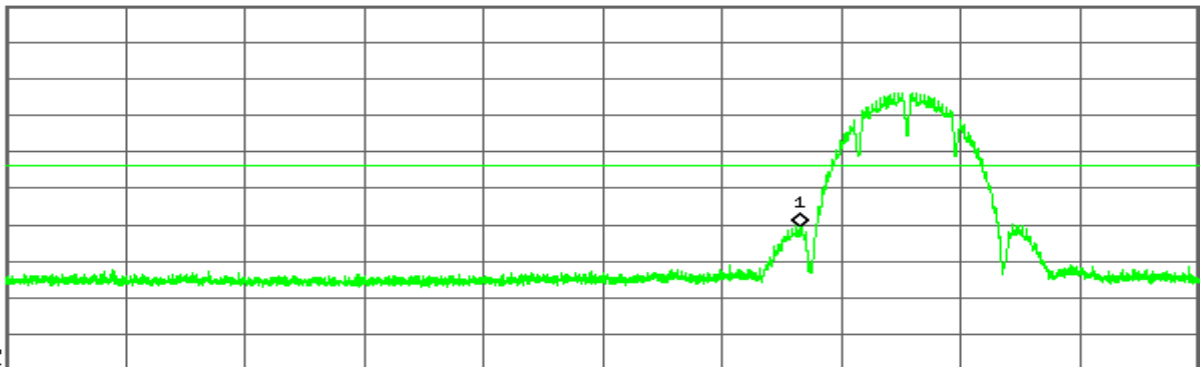
Start 2.310 000 GHz

Stop 2.445 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 13.11 ms (8192 pts)



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.399 951 GHz	-30.62 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

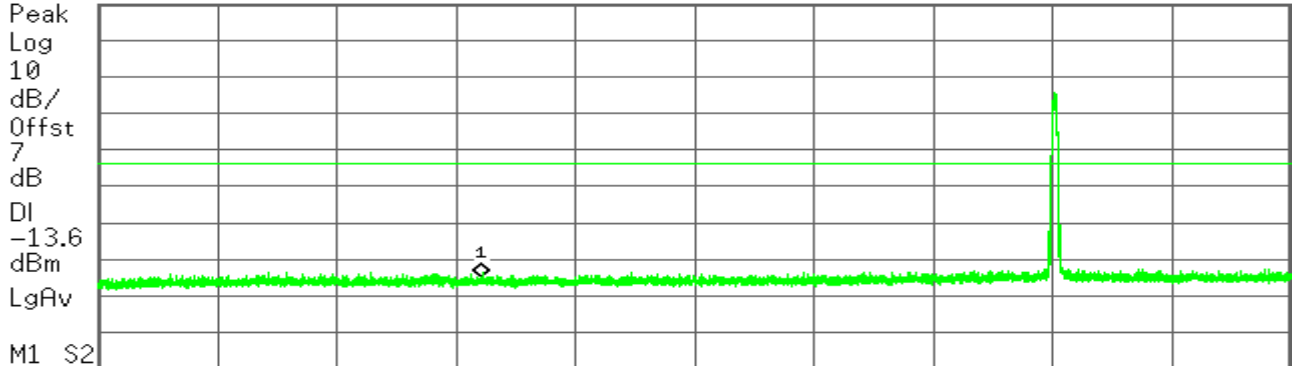
Agilent

R T

Mkr1 983.1 MHz  
-44.85 dBm

Ref 30 dBm

Atten 40 dB



M1 S2

Start 30.0 MHz

Stop 3.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	983.1 MHz	-44.85 dBm

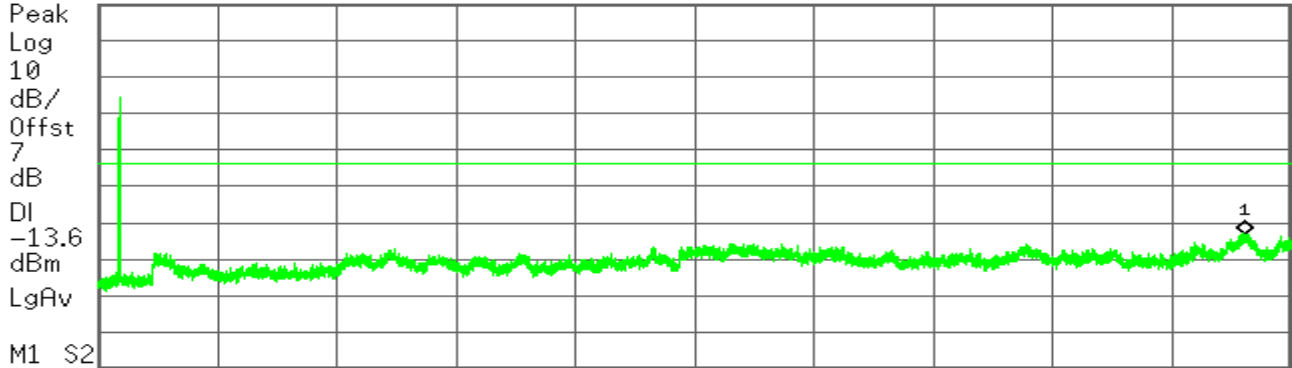
Agilent

R T

Mkr1 24.115 5 GHz  
-33.16 dBm

Ref 30 dBm

Atten 40 dB



M1 S2

Start 2.000 0 GHz

Stop 25.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.115 5 GHz	-33.16 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## CH Mid

Agilent

R T

Mkr1 2.437 963 GHz  
7.31 dBm

Ref 30 dBm

Atten 40 dB

Peak

Log

10

dB/

Offst

7

dB

DI

-12.7

dBm

LgAv

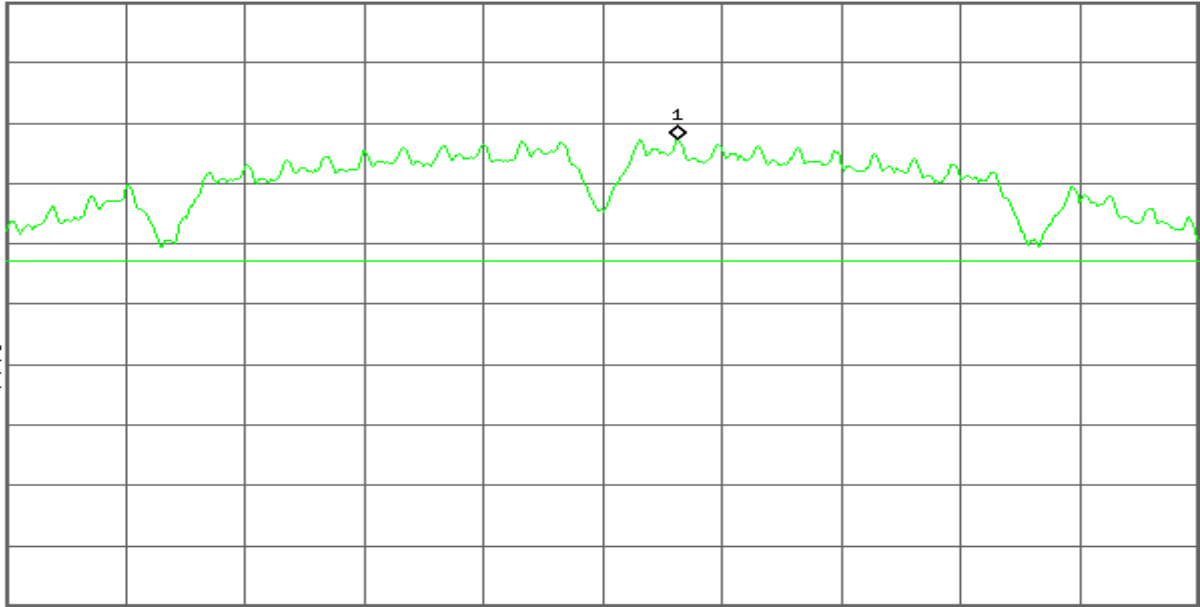
M1 S2

S3 FC

£(f):

FTun

Swp



Center 2.437 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 15.2 MHz

Sweep 1.48 ms (601 pts)

Agilent

R T

Mkr1 1.382 1 GHz  
-45.88 dBm

Ref 30 dBm

Atten 40 dB

Peak

Log

10

dB/

Offst

7

dB

DI

-12.7

dBm

LgAv

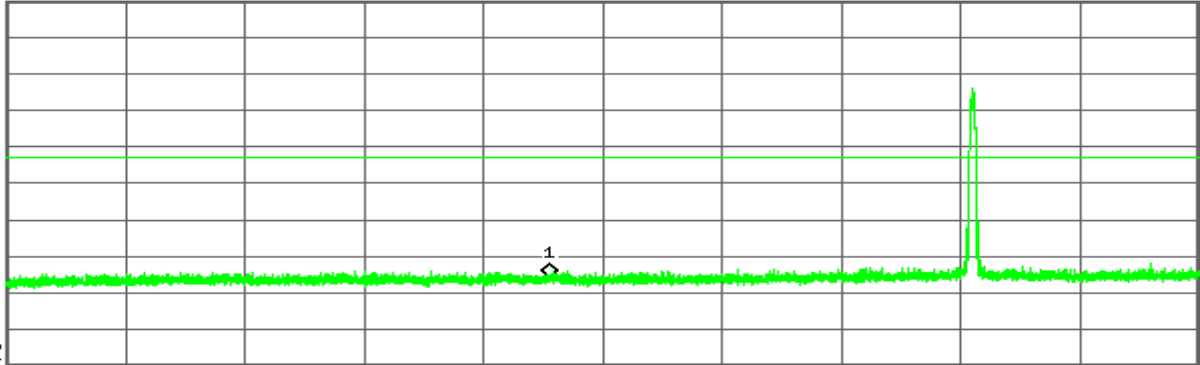
M1 S2

S3 FC

£(f):

FTun

Swp



Center 1.515 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 2.97 GHz

Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.382 1 GHz	-45.88 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

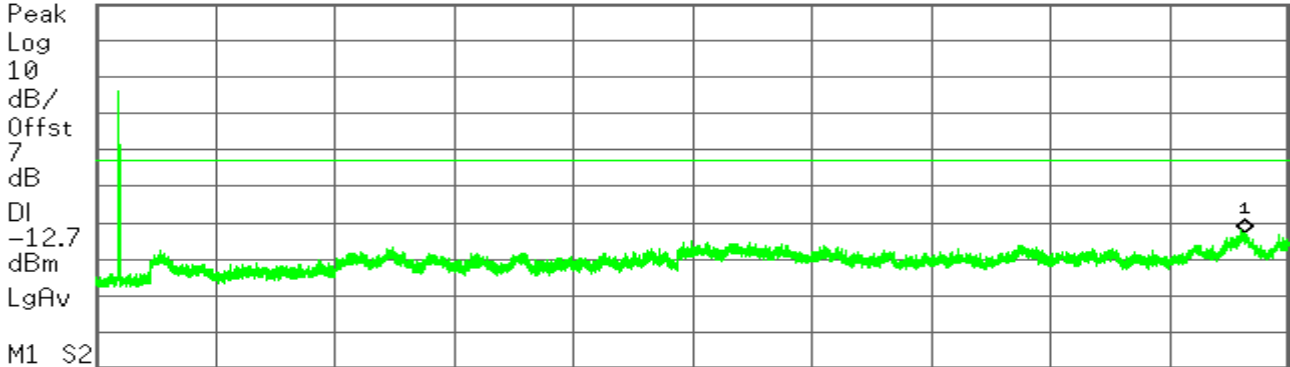
Agilent

R T

Mkr1 24.132 3 GHz  
-32.56 dBm

Ref 30 dBm

Atten 40 dB



M1 S2  
Start 2.000 0 GHz

Stop 25.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.132 3 GHz	-32.56 dBm

## CH High

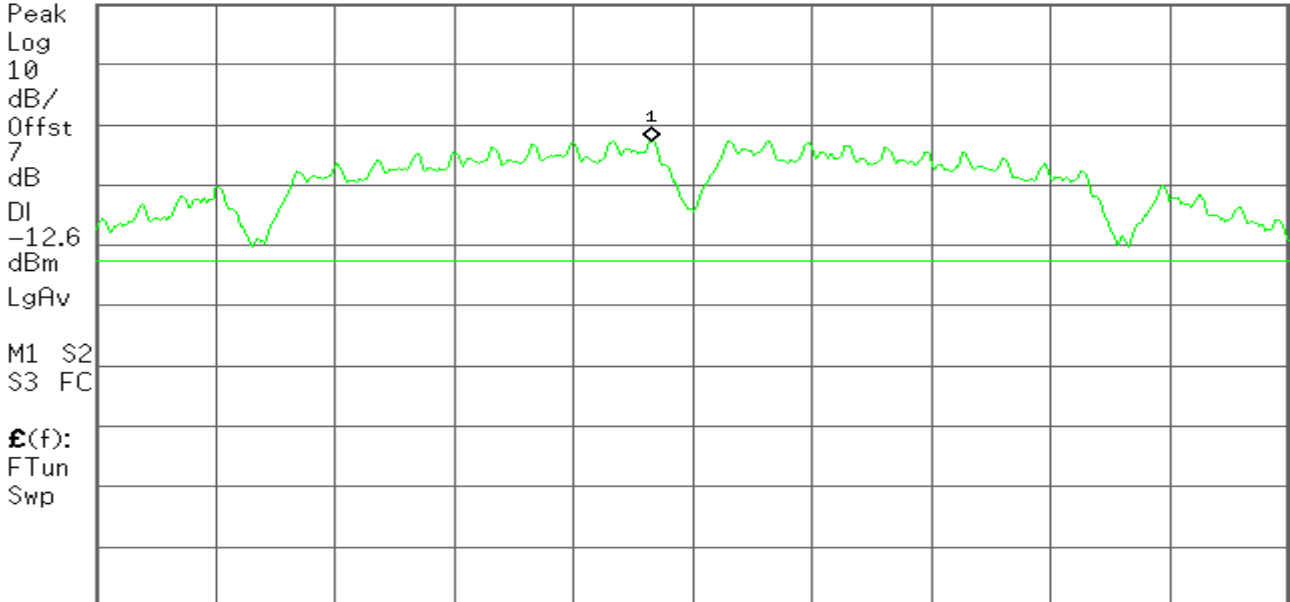
Agilent

R T

Mkr1 2.461 468 GHz  
7.41 dBm

Ref 30 dBm

Atten 40 dB



M1 S2  
S3 FC  
Center 2.462 000 GHz

Span 15.2 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 1.48 ms (601 pts)



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

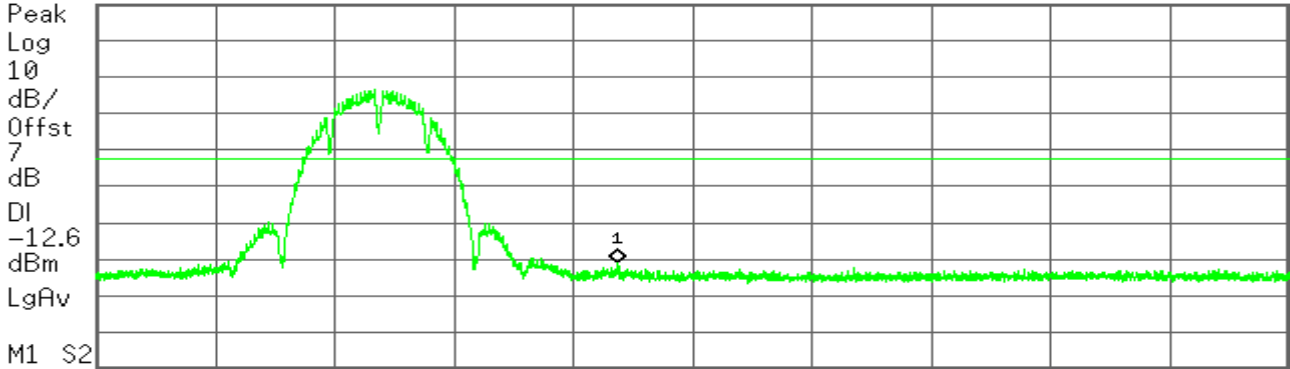
Agilent

R T

Mkr1 2.489 087 GHz  
-41.21 dBm

Ref 30 dBm

Atten 40 dB



M1 S2  
Start 2.430 000 GHz

Stop 2.565 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 13.11 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.489 087 GHz	-41.21 dBm

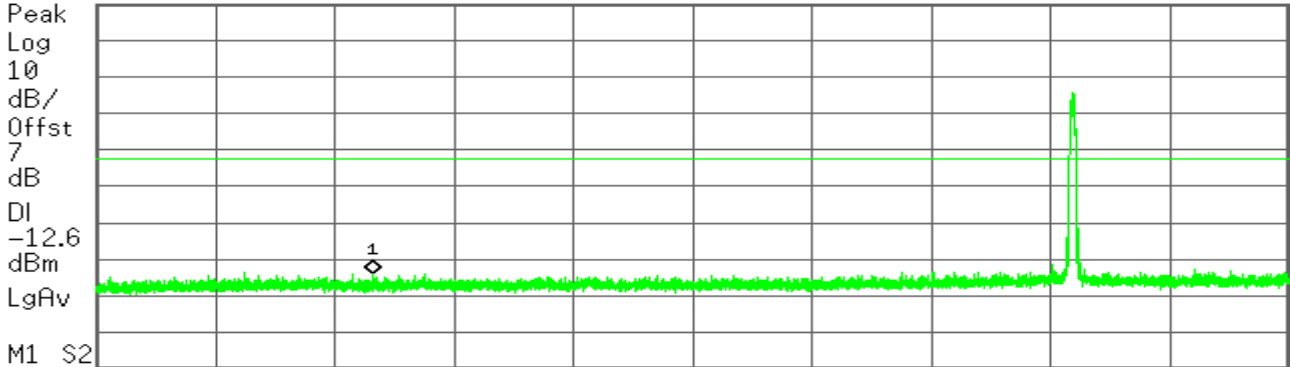
Agilent

R T

Mkr1 717.1 MHz  
-44.04 dBm

Ref 30 dBm

Atten 40 dB



M1 S2  
Center 1.515 0 GHz

Span 2.97 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	717.1 MHz	-44.04 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

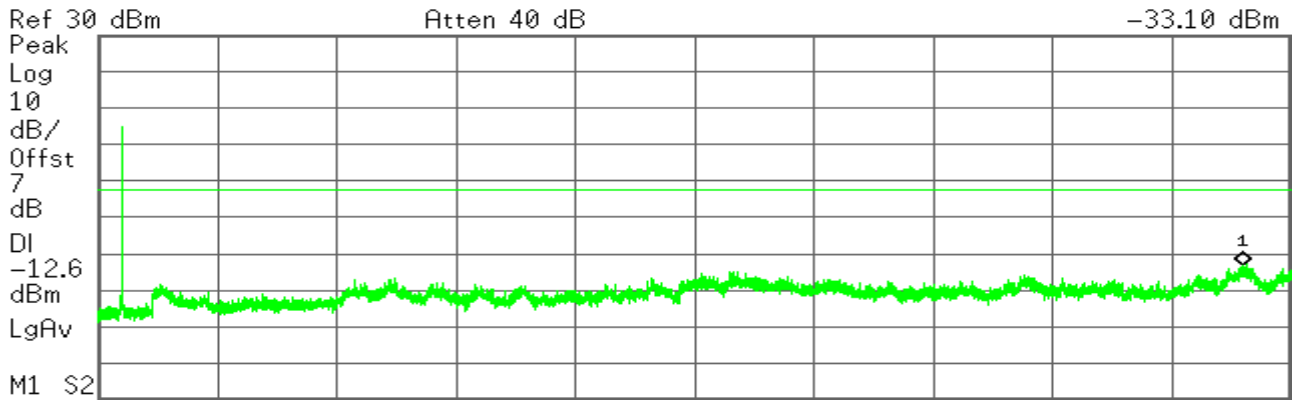
Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Agilent

R T

Mkr1 24.056 5 GHz  
-33.10 dBm



Start 2.000 0 GHz      Stop 25.000 0 GHz  
#Res BW 100 kHz      #VBW 300 kHz      Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.056 5 GHz	-33.10 dBm

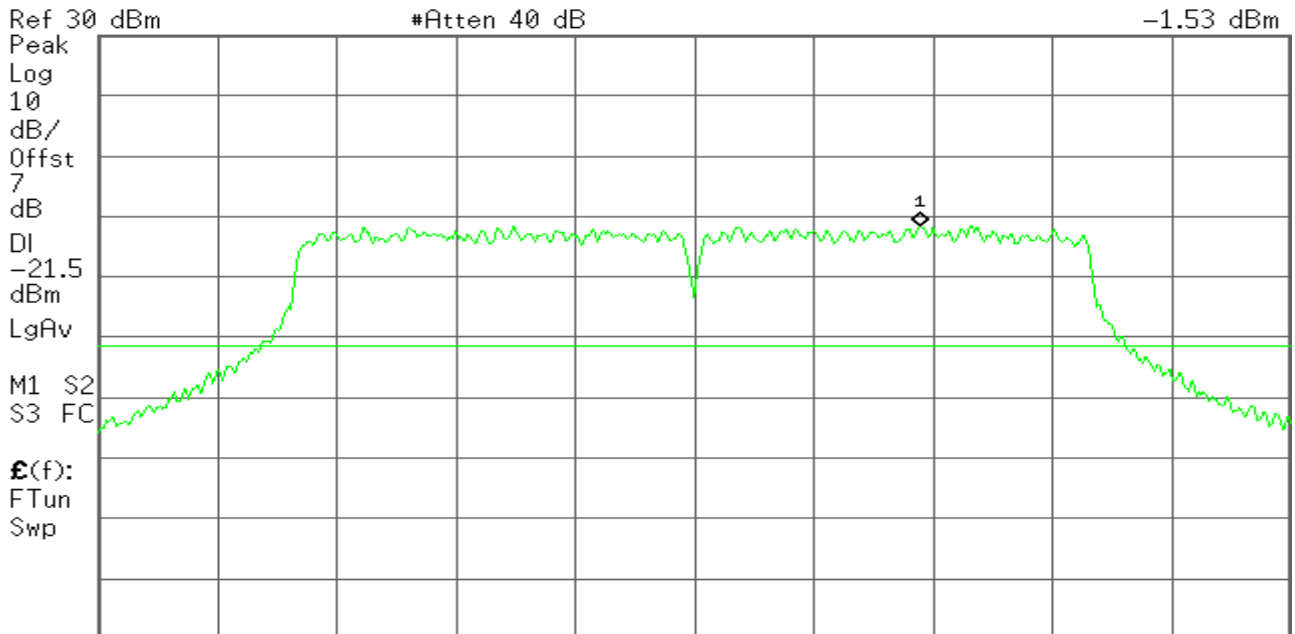
## IEEE 802.11g mode

### CH Low

Agilent

R T

Mkr1 2.416 69 GHz  
-1.53 dBm



Center 2.412 00 GHz      Span 24.9 MHz  
#Res BW 100 kHz      #VBW 300 kHz      Sweep 2.4 ms (601 pts)



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Agilent

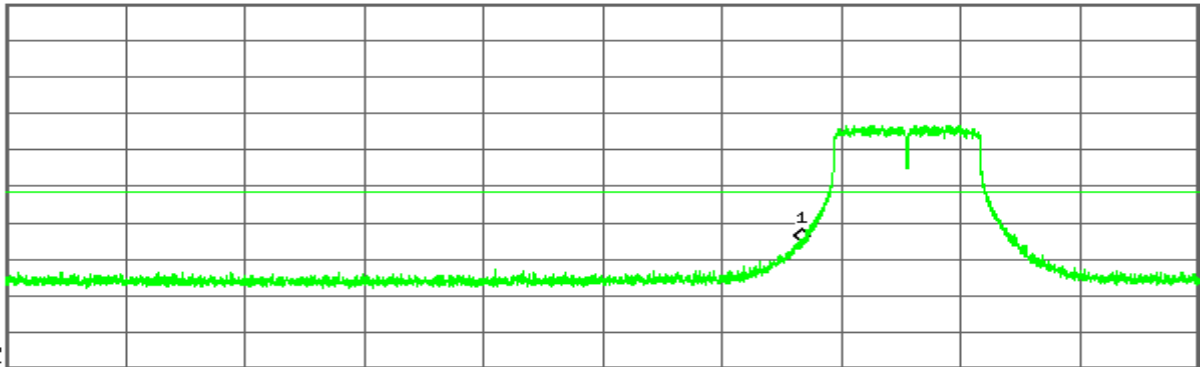
R T

Mkr1 2.400 000 GHz  
-35.39 dBm

Ref 30 dBm

Atten 40 dB

Peak  
Log  
10  
dB/  
Offst  
7  
dB  
DI  
-21.5  
dBm  
LgAv



M1 S2

Start 2.310 000 GHz

Stop 2.445 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 13.11 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.400 000 GHz	-35.39 dBm

Agilent

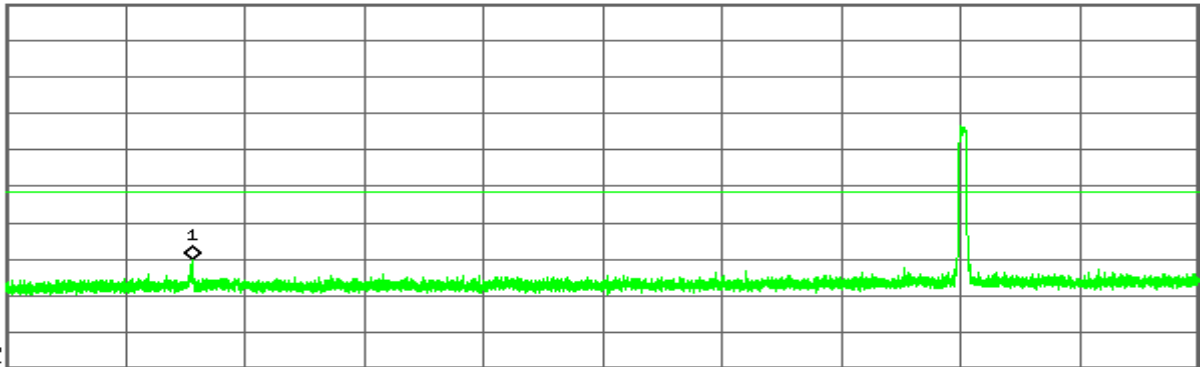
R T

Mkr1 491.9 MHz  
-40.26 dBm

Ref 30 dBm

Atten 40 dB

Peak  
Log  
10  
dB/  
Offst  
7  
dB  
DI  
-21.5  
dBm  
LgAv



M1 S2

Start 30.0 MHz

Stop 3.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	491.9 MHz	-40.26 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

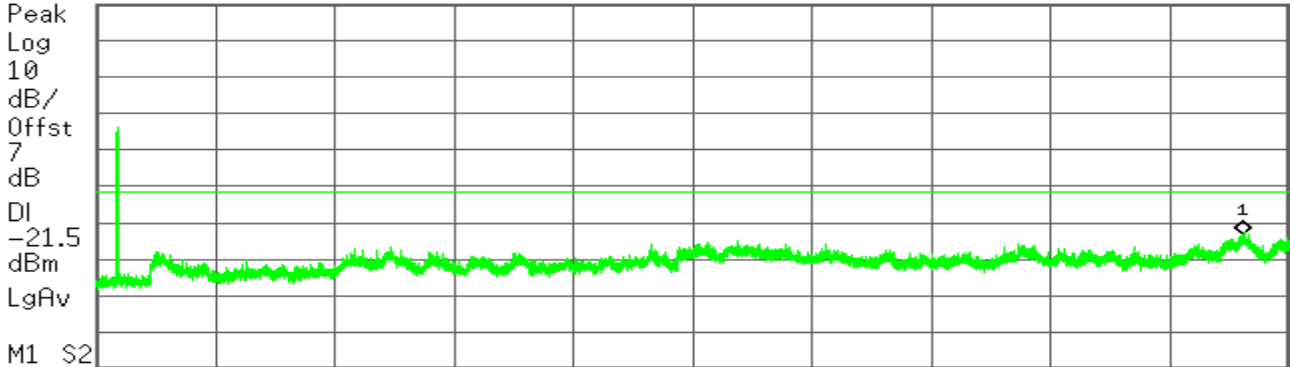
Agilent

R T

Mkr1 24.118 3 GHz  
-33.08 dBm

Ref 30 dBm

Atten 40 dB



M1 S2 Start 2.000 0 GHz ^

Stop 25.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.118 3 GHz	-33.08 dBm

## CH Mid

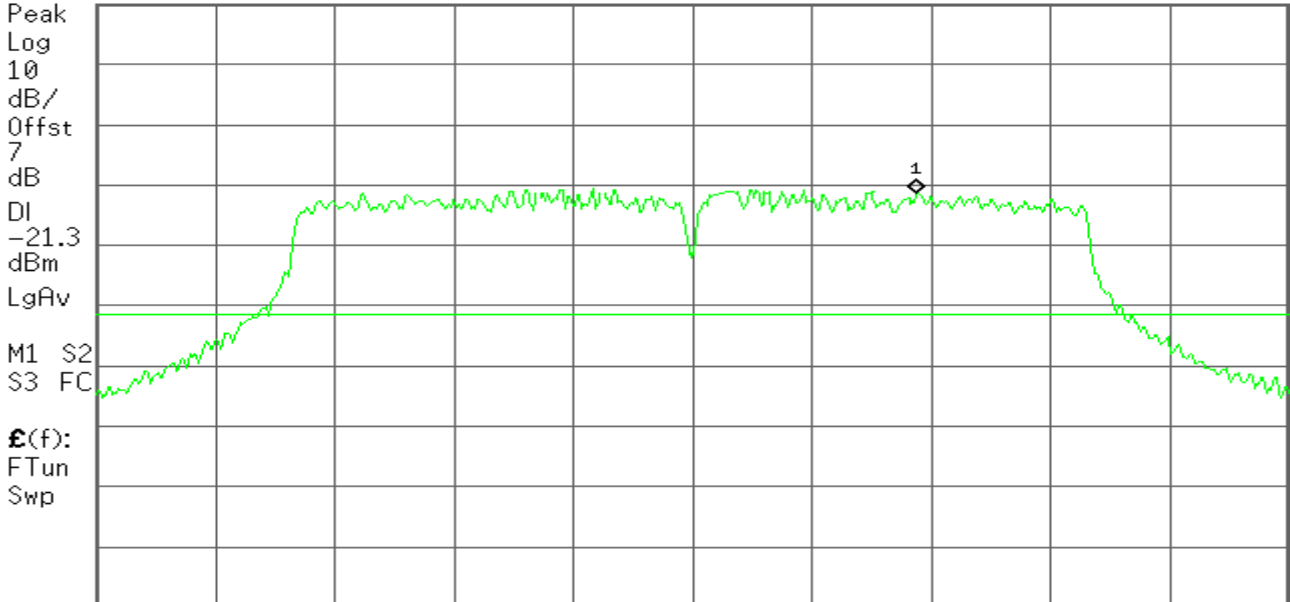
Agilent

R T

Mkr1 2.441 65 GHz  
-1.34 dBm

Ref 30 dBm

#Atten 40 dB



Center 2.437 00 GHz

Span 24.9 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.4 ms (601 pts)

£(f):  
FTun  
Swp





# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

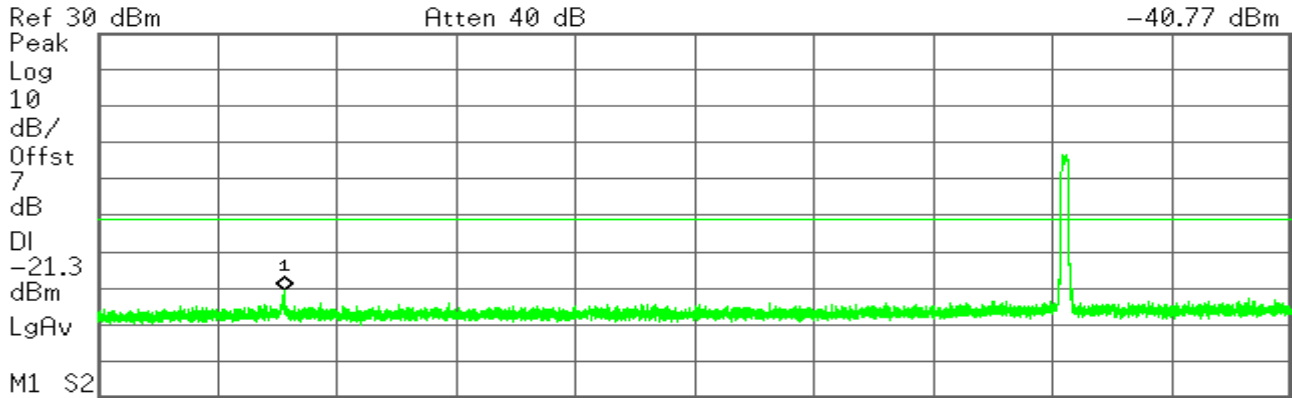
Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Agilent

R T

Mkr1 491.9 MHz  
-40.77 dBm



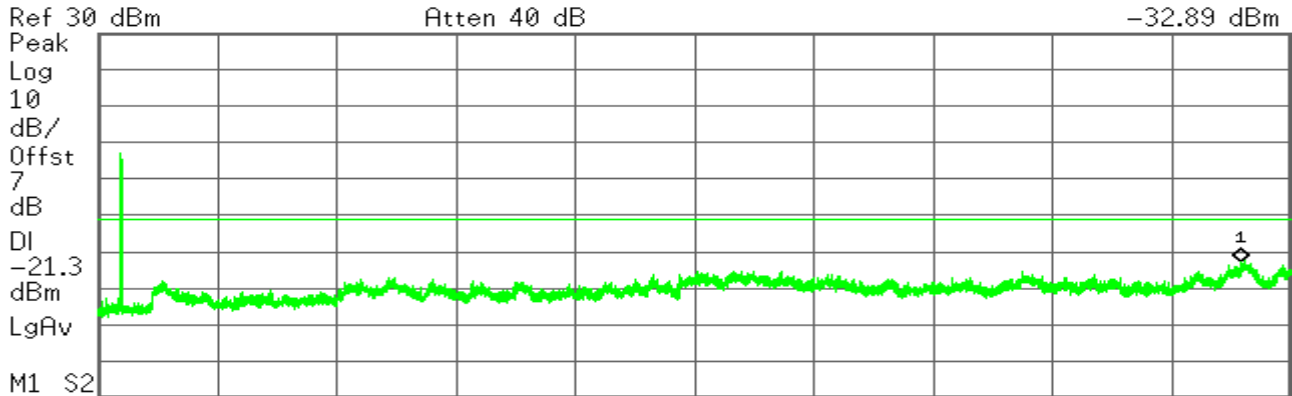
Start 30.0 MHz      Stop 3.000 0 GHz  
#Res BW 100 kHz      #VBW 300 kHz      Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	491.9 MHz	-40.77 dBm

Agilent

R T

Mkr1 24.048 1 GHz  
-32.89 dBm



Start 2.000 0 GHz      Stop 25.000 0 GHz  
#Res BW 100 kHz      #VBW 300 kHz      Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.048 1 GHz	-32.89 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## CH High

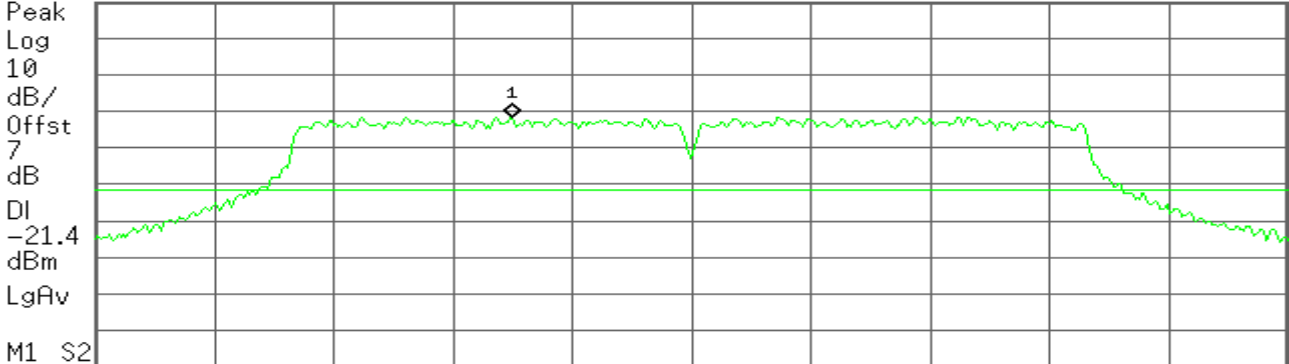
Agilent

R T

Mkr1 2.458 26 GHz  
-1.43 dBm

Ref 30 dBm

#Atten 40 dB



M1 S2

Center 2.462 00 GHz

Span 24.9 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.4 ms (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.458 26 GHz	-1.43 dBm

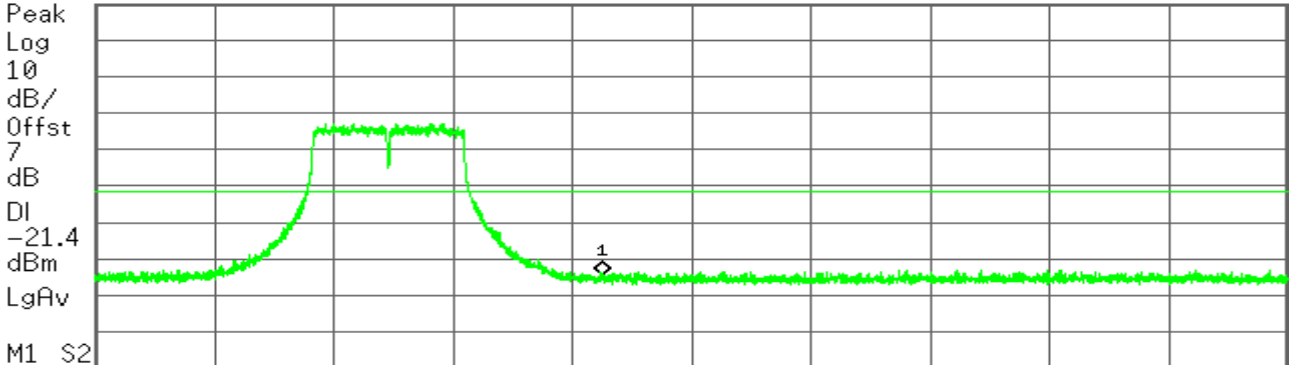
Agilent

R T

Mkr1 2.485 278 GHz  
-44.40 dBm

Ref 30 dBm

Atten 40 dB



M1 S2

Start 2.430 000 GHz

Stop 2.560 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 12.56 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.485 278 GHz	-44.40 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

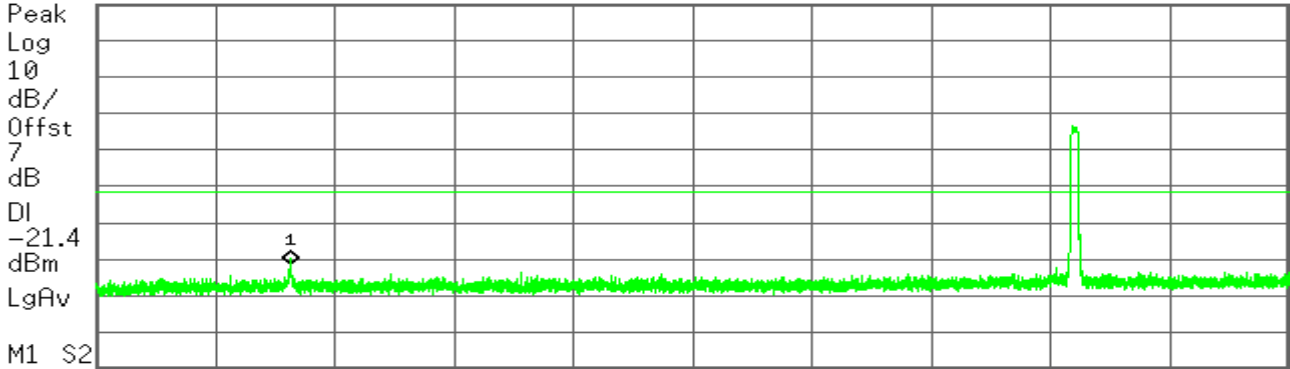
Agilent

R T

Mkr1 491.8 MHz  
-41.27 dBm

Ref 30 dBm

Atten 40 dB



M1 S2

Start 3.0 MHz

Stop 3.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 286.7 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	491.8 MHz	-41.27 dBm

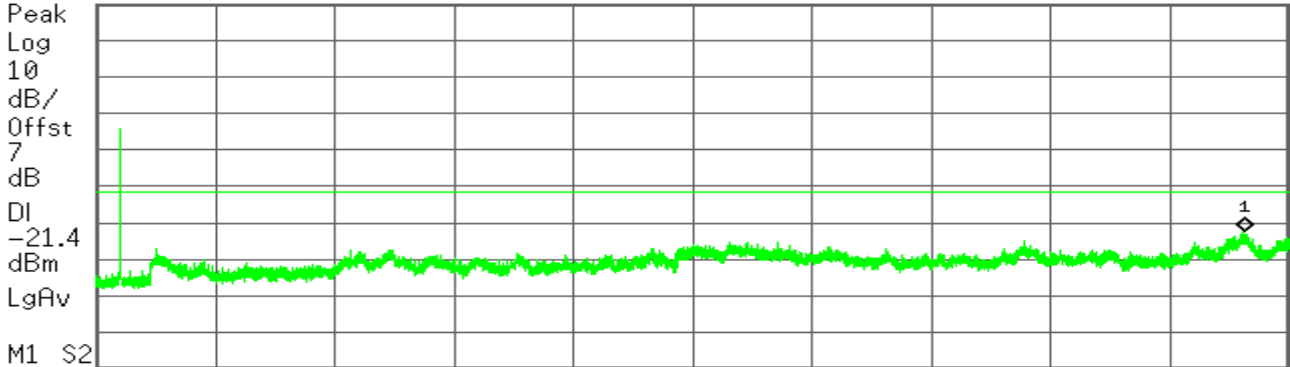
Agilent

R T

Mkr1 24.132 3 GHz  
-32.34 dBm

Ref 30 dBm

Atten 40 dB



M1 S2

Start 2.000 0 GHz

Stop 25.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.132 3 GHz	-32.34 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

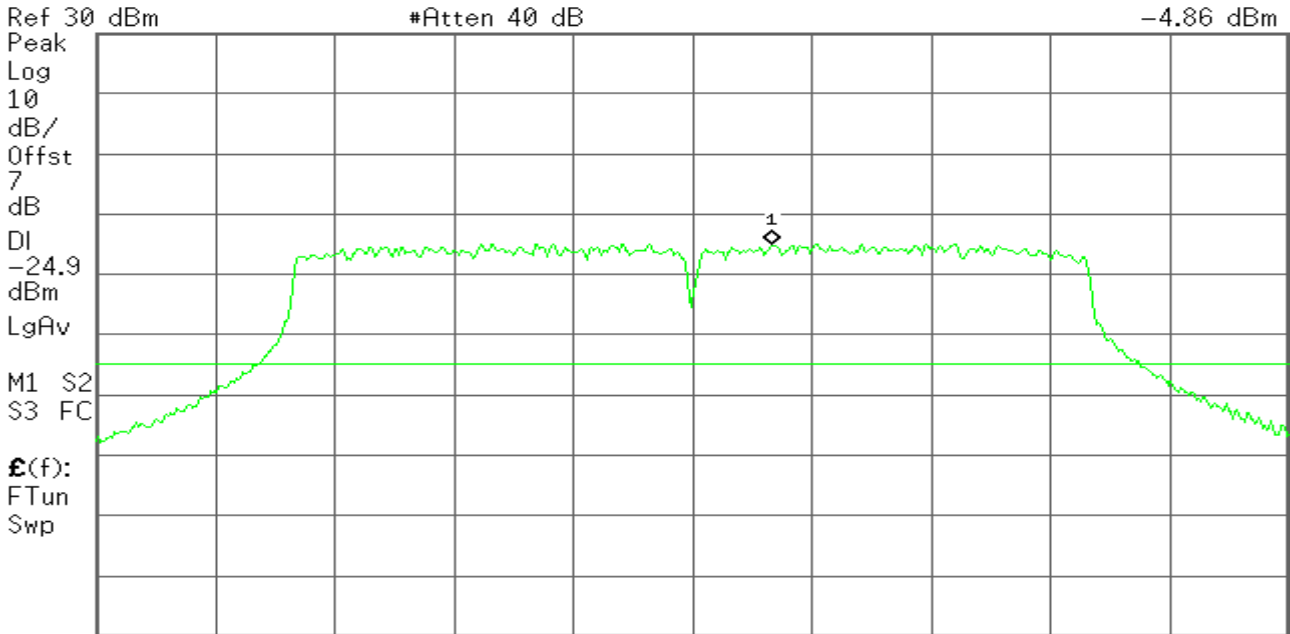
## IEEE 802.11n HT20 mode

### CH Low

Agilent

R T

Mkr1 2.413 780 0 GHz  
-4.86 dBm

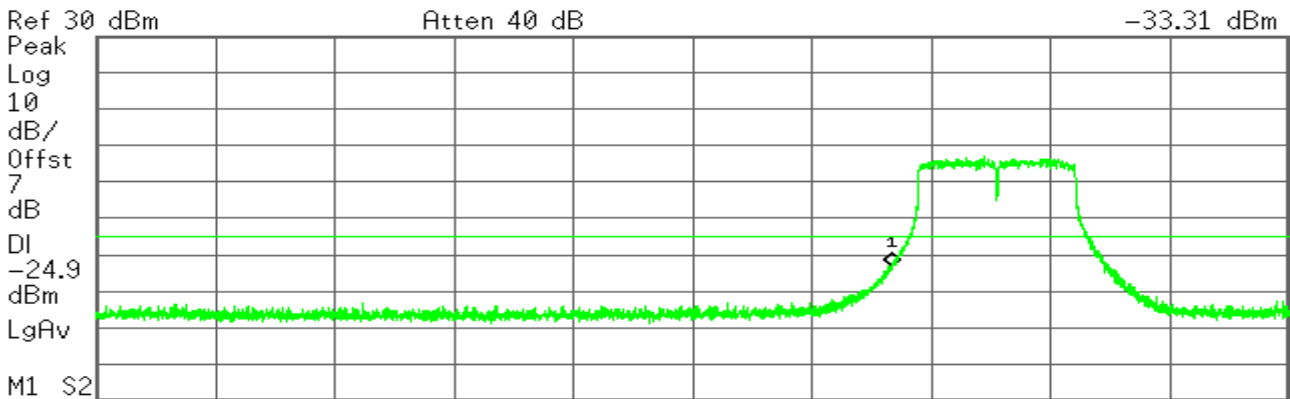


Center 2.412 000 0 GHz Span 26.7 MHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 2.56 ms (601 pts)

Agilent

R T

Mkr1 2.400 000 GHz  
-33.31 dBm



Start 2.310 000 GHz Stop 2.445 000 GHz  
#Res BW 100 kHz #VBW 300 kHz Sweep 13.11 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.400 000 GHz	-33.31 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

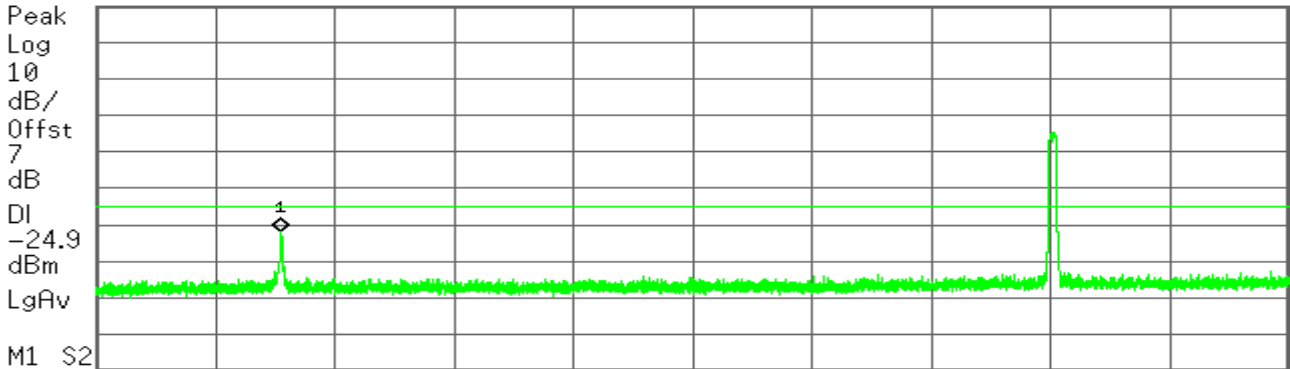
Agilent

R T

Mkr1 489.4 MHz  
-31.89 dBm

Ref 30 dBm

Atten 40 dB



M1 S2

Start 30.0 MHz

Stop 3.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	489.4 MHz	-31.89 dBm

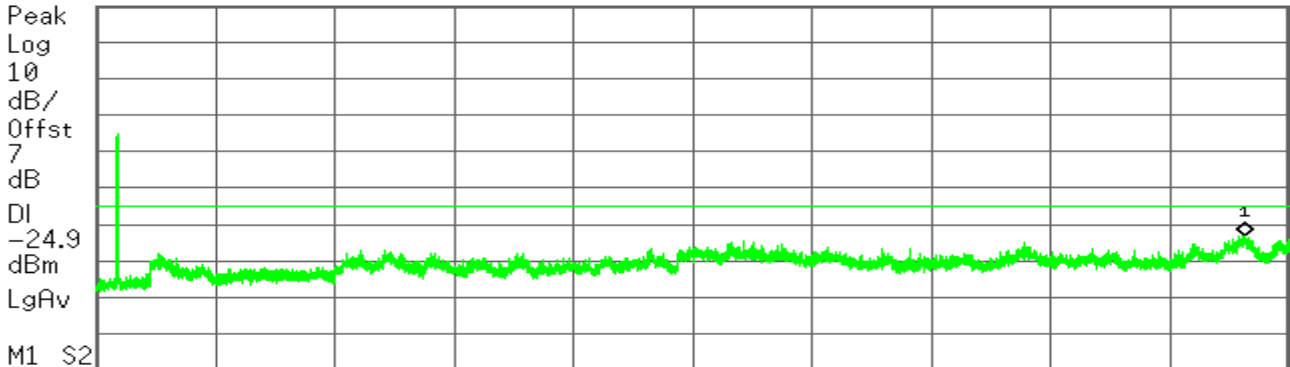
Agilent

R T

Mkr1 24.154 8 GHz  
-33.30 dBm

Ref 30 dBm

Atten 40 dB



M1 S2

Start 2.000 0 GHz

Stop 25.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.154 8 GHz	-33.30 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## CH Mid

Agilent

R T

Mkr1 2.435 442 5 GHz  
-4.60 dBm

Ref 30 dBm

#Atten 40 dB

Peak

Log

10

dB/

Offst

7

dB

DI

-24.6

dBm

LgAv

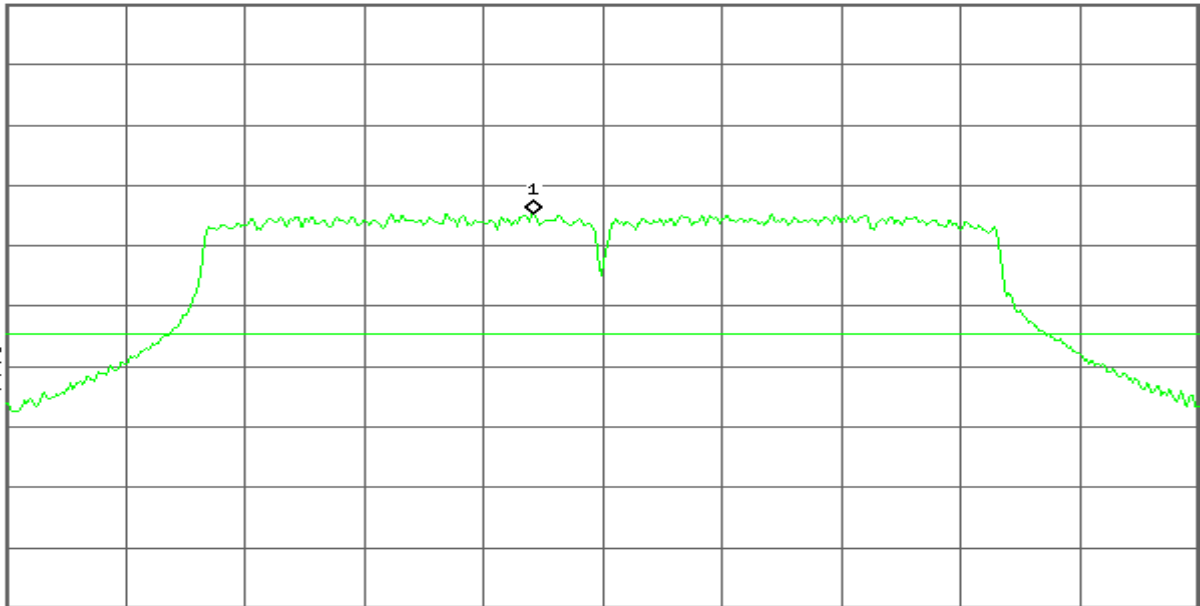
M1 S2

S3 FC

£(f):

FTun

Swp



Center 2.437 000 0 GHz

Span 26.7 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.56 ms (601 pts)

Agilent

R T

Mkr1 490.9 MHz  
-35.80 dBm

Ref 30 dBm

Atten 40 dB

Peak

Log

10

dB/

Offst

7

dB

DI

-24.6

dBm

LgAv

M1 S2

Start 30.0 MHz

Stop 3.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	490.9 MHz	-35.80 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

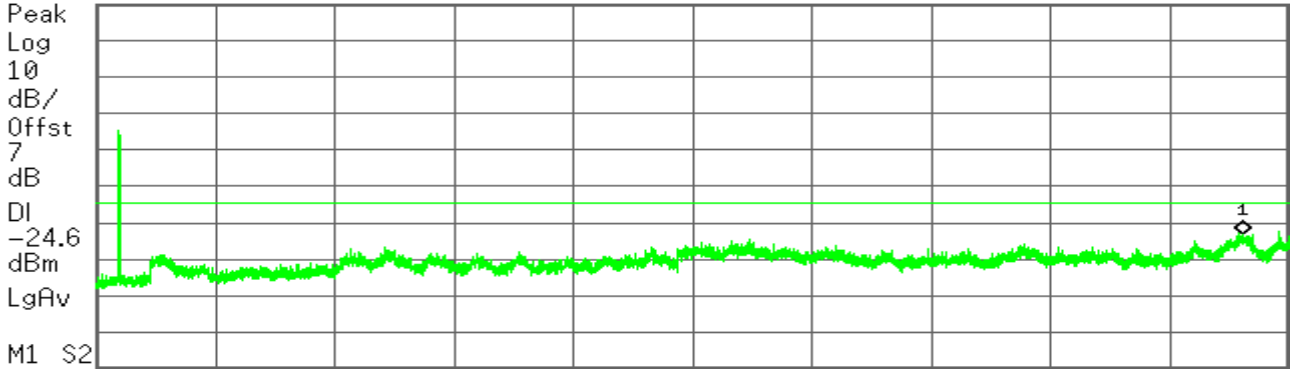
Agilent

R T

Mkr1 24.101 5 GHz  
-33.27 dBm

Ref 30 dBm

Atten 40 dB



M1 S2  
Start 2.000 0 GHz

Stop 25.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.101 5 GHz	-33.27 dBm

## CH High

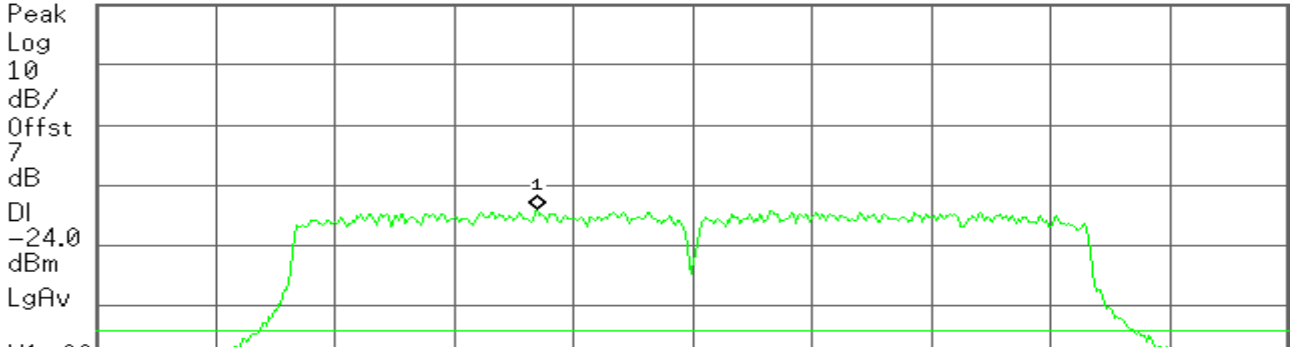
Agilent

R T

Mkr1 2.458 529 0 GHz  
-4.02 dBm

Ref 30 dBm

#Atten 40 dB



M1 S2  
S3 FC

£(f):

FTun

Swp

Center 2.462 000 0 GHz

Span 26.7 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.56 ms (601 pts)



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

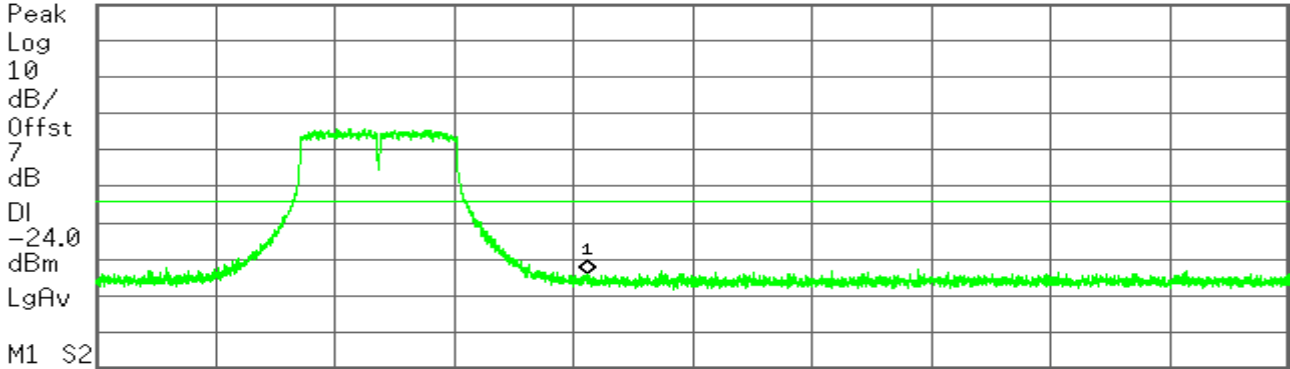
Agilent

R T

Mkr1 2.485 692 GHz  
-44.00 dBm

Ref 30 dBm

Atten 40 dB



M1 S2  
Start 2.430 000 GHz

Stop 2.565 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 13.11 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.485 692 GHz	-44.00 dBm

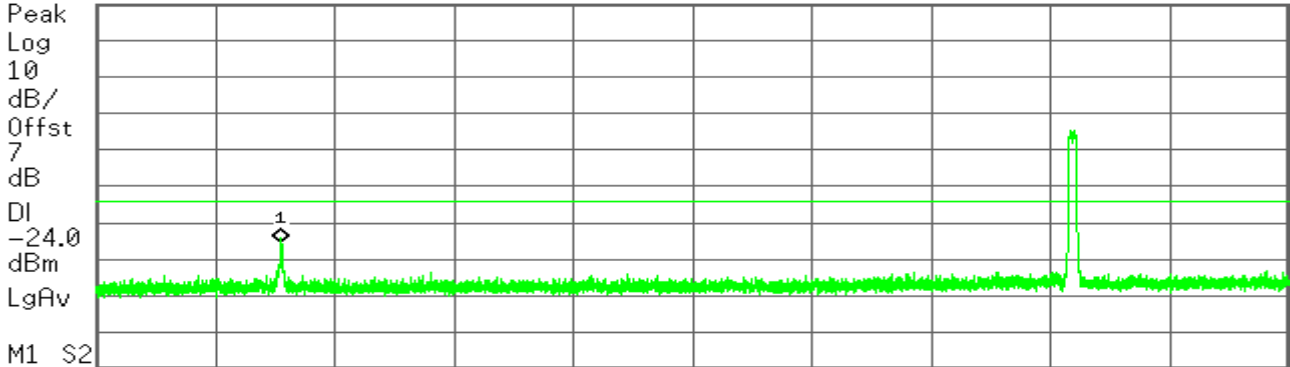
Agilent

R T

Mkr1 490.1 MHz  
-35.23 dBm

Ref 30 dBm

Atten 40 dB



M1 S2  
Start 30.0 MHz

Stop 3.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	490.1 MHz	-35.23 dBm





# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

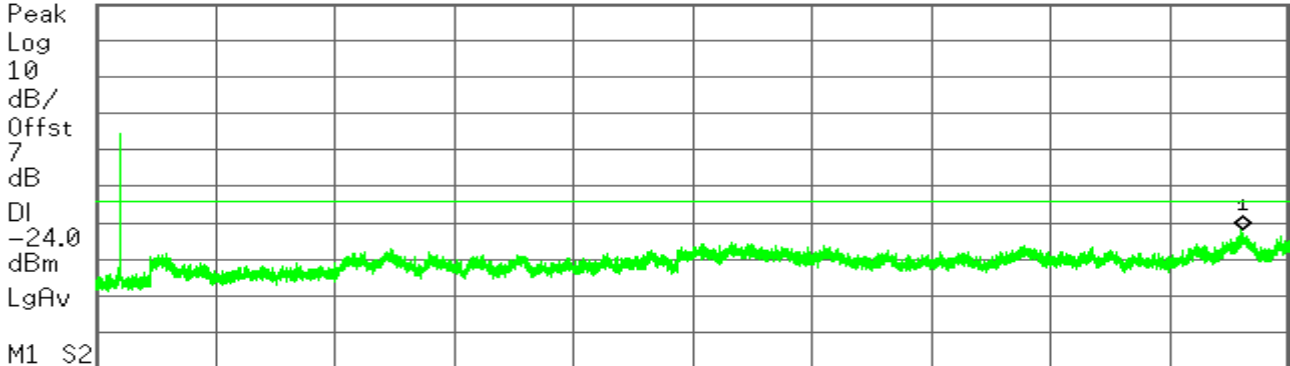
Agilent

R T

Mkr1 24.093 0 GHz  
-32.08 dBm

Ref 30 dBm

Atten 40 dB



M1 S2

Start 2.000 0 GHz

Stop 25.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.093 0 GHz	-32.08 dBm

## IEEE 802.11n HT40 mode

### CH Low

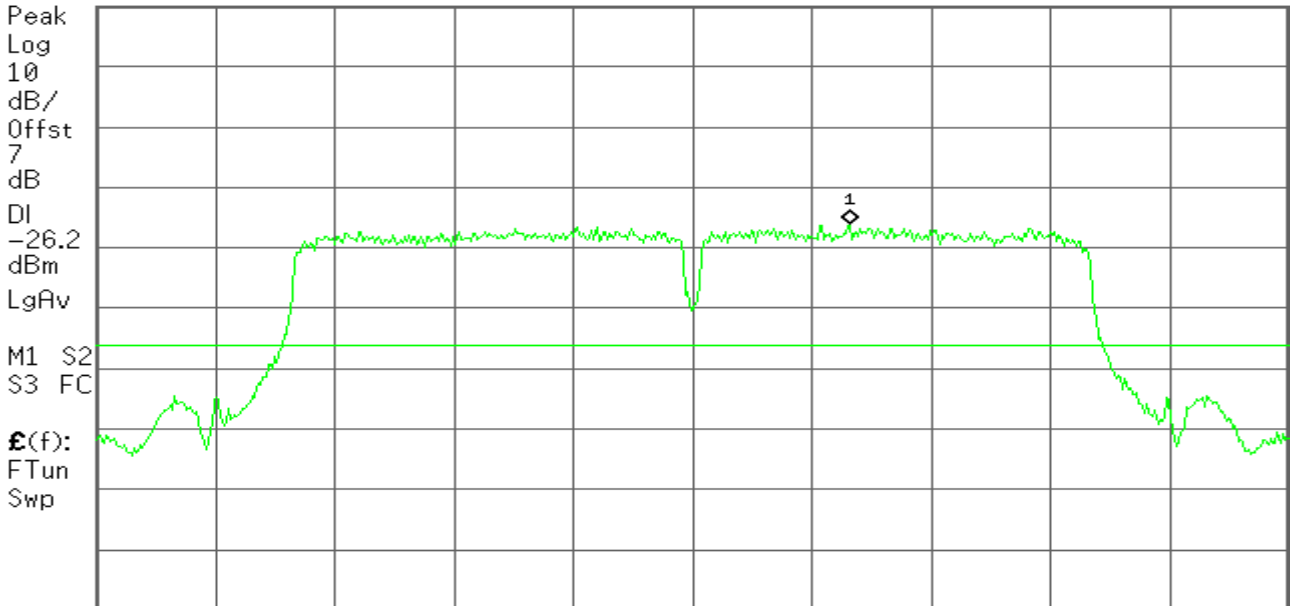
Agilent

R T

Mkr1 2.429 22 GHz  
-6.16 dBm

Ref 30 dBm

#Atten 40 dB



M1 S2  
S3 FC

Center 2.422 00 GHz

Span 54.8 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 5.24 ms (601 pts)



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

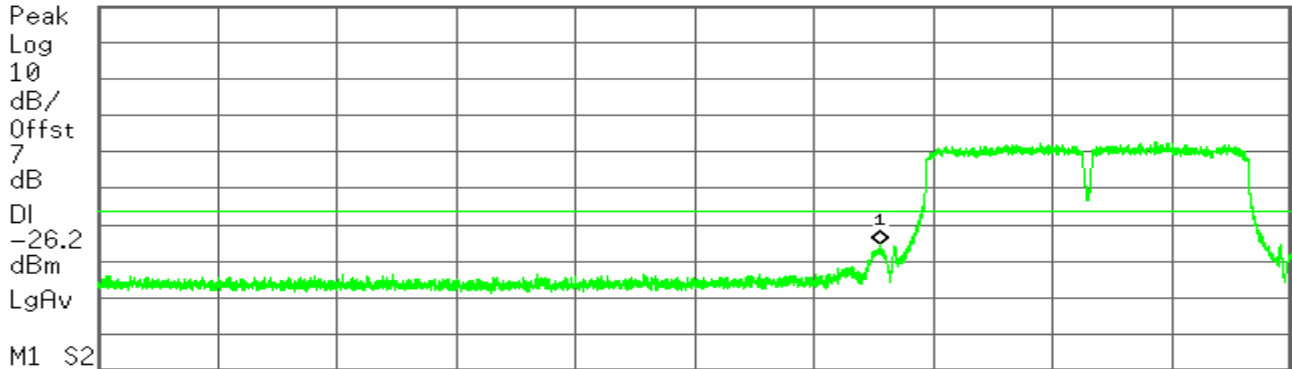
Agilent

R T

Mkr1 2.398 533 GHz  
-35.25 dBm

Ref 30 dBm

Atten 40 dB



Start 2.310 000 GHz

Stop 2.445 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 13.11 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.398 533 GHz	-35.25 dBm

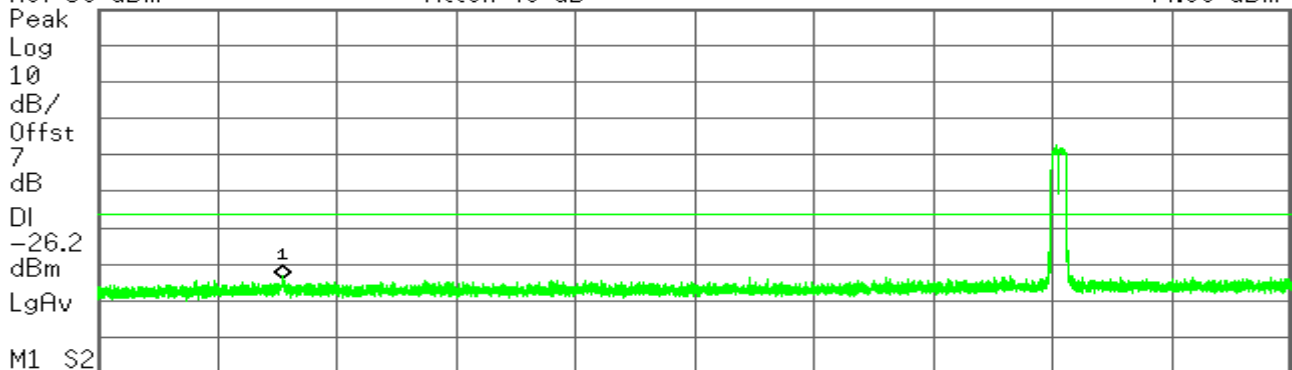
Agilent

R T

Mkr1 489.0 MHz  
-44.08 dBm

Ref 30 dBm

Atten 40 dB



Start 30.0 MHz

Stop 3.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	489.0 MHz	-44.08 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

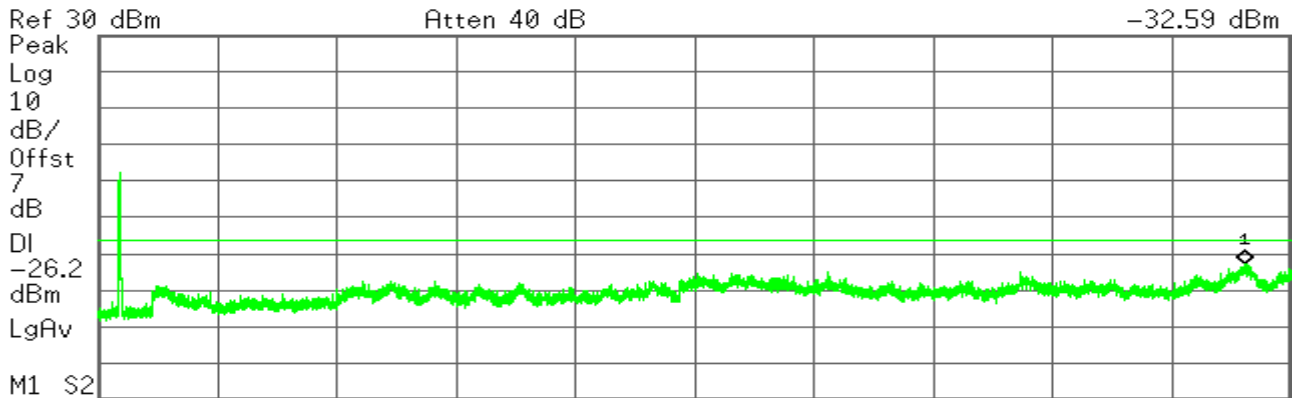
Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Agilent

R T

Mkr1 24.126 7 GHz  
-32.59 dBm



Start 2.000 0 GHz

Stop 25.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.198 s (8192 pts)

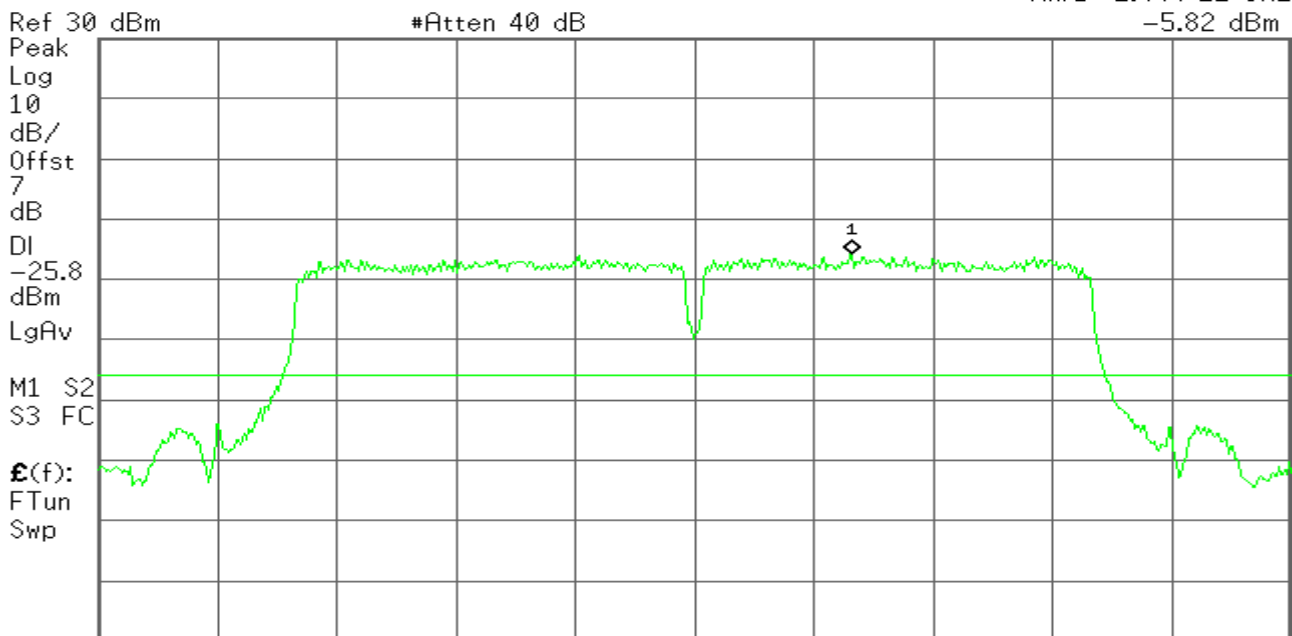
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.126 7 GHz	-32.59 dBm

## CH Mid

Agilent

R T

Mkr1 2.444 22 GHz  
-5.82 dBm



Center 2.437 00 GHz

Span 54.8 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 5.24 ms (601 pts)



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

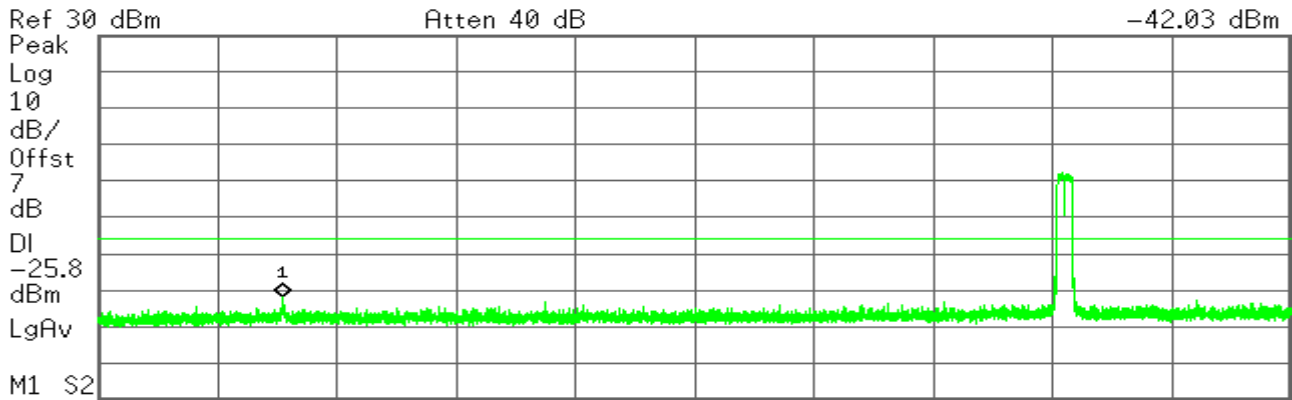
Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Agilent

R T

Mkr1 491.6 MHz  
-42.03 dBm



Start 30.0 MHz      Stop 3.000 0 GHz

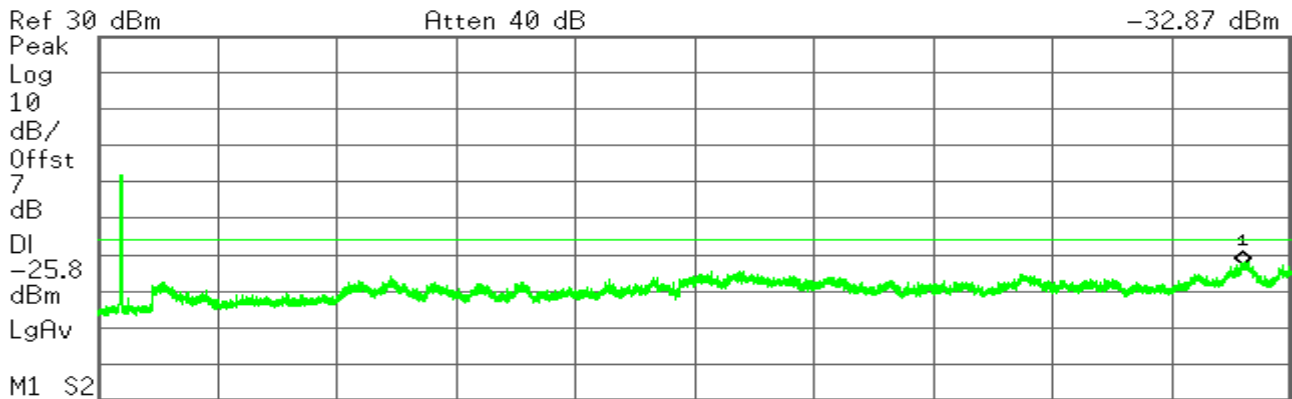
#Res BW 100 kHz      #VBW 300 kHz      Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	491.6 MHz	-42.03 dBm

Agilent

R T

Mkr1 24.056 5 GHz  
-32.87 dBm



Start 2.000 0 GHz      Stop 25.000 0 GHz

#Res BW 100 kHz      #VBW 300 kHz      Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.056 5 GHz	-32.87 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## CH High

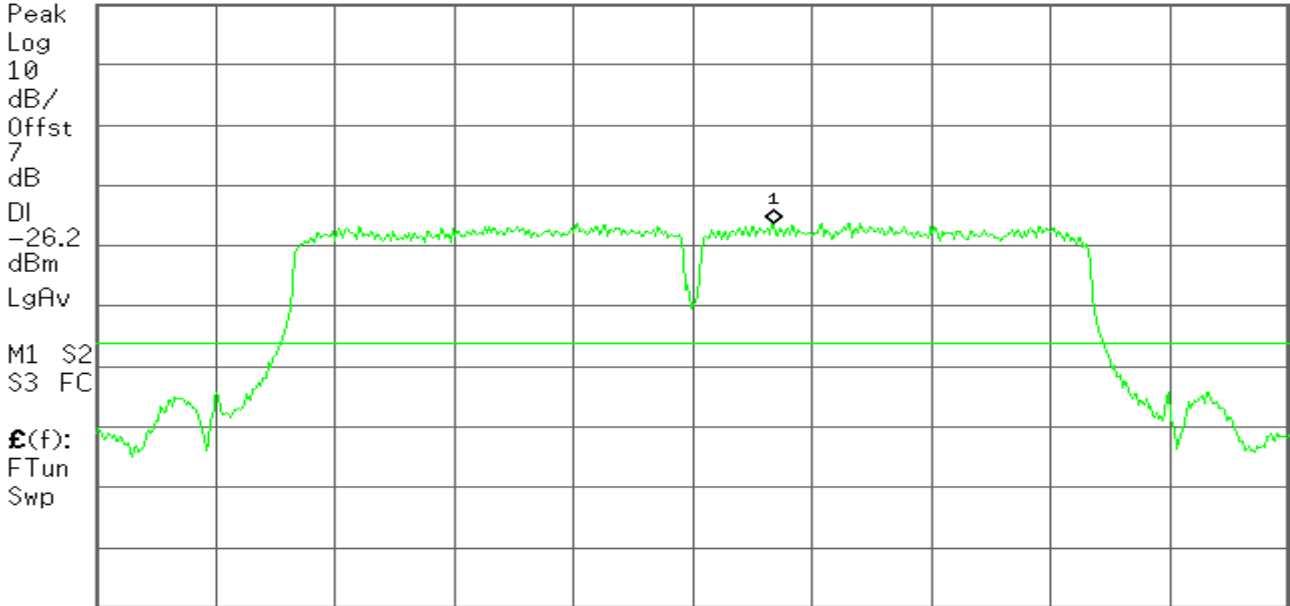
Agilent

R T

Mkr1 2.455 74 GHz  
-6.19 dBm

Ref 30 dBm

#Atten 40 dB



Center 2.452 00 GHz

Span 54.8 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 5.24 ms (601 pts)

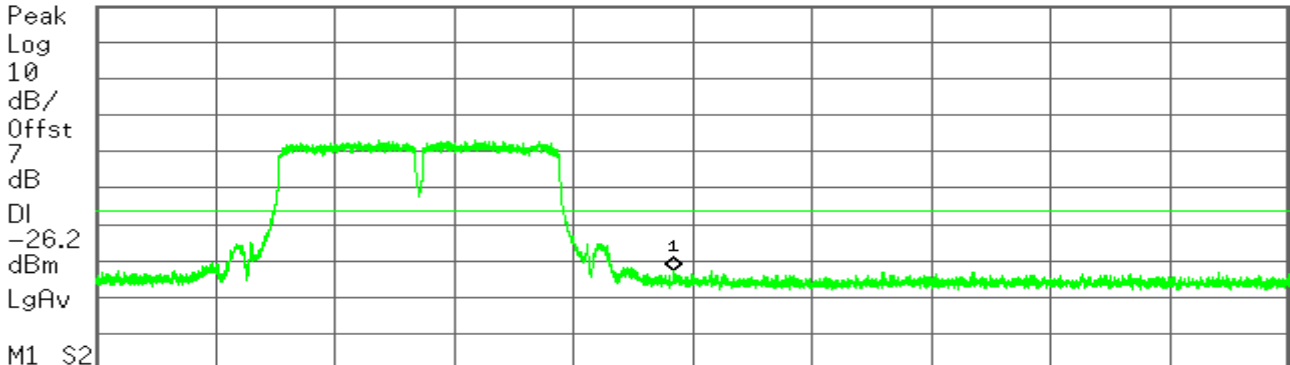
Agilent

R T

Mkr1 2.485 127 GHz  
-42.81 dBm

Ref 30 dBm

Atten 40 dB



Start 2.410 000 GHz

Stop 2.565 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 15.29 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.485 127 GHz	-42.81 dBm



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

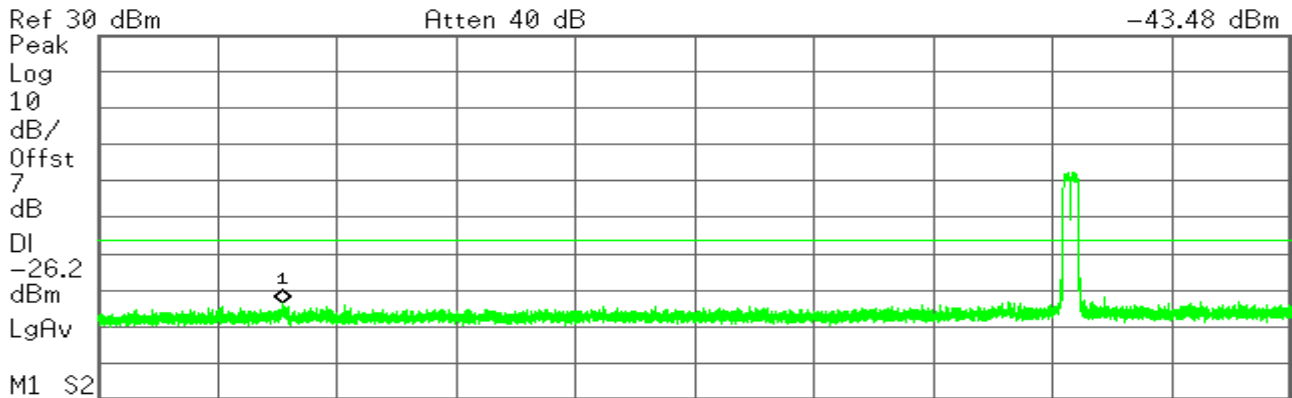
Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Agilent

R T

Mkr1 490.1 MHz  
-43.48 dBm



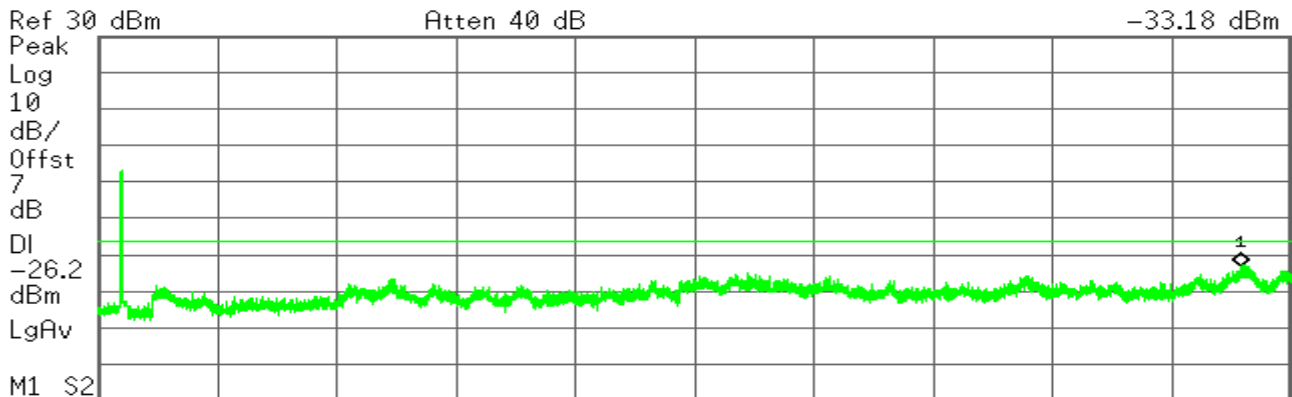
Start 30.0 MHz Stop 3.000 0 GHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 284 ms (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	490.1 MHz	-43.48 dBm

Agilent

R T

Mkr1 24.050 9 GHz  
-33.18 dBm



Center 13.500 0 GHz Span 23 GHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.198 s (8192 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	24.050 9 GHz	-33.18 dBm



## 7.6.RADIATED EMISSIONS

### LIMIT

Radiated emissions from 9 kHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2009. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCIES(MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

**Remark:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

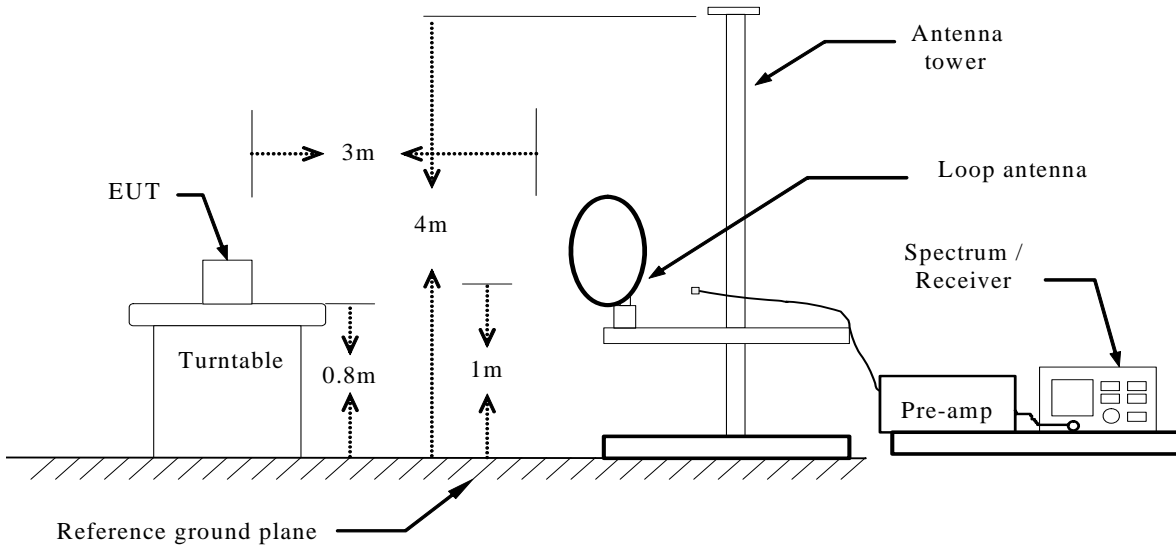
2. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength ( $\mu$ V/m at 3-meter)	Field Strength (dB $\mu$ V/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

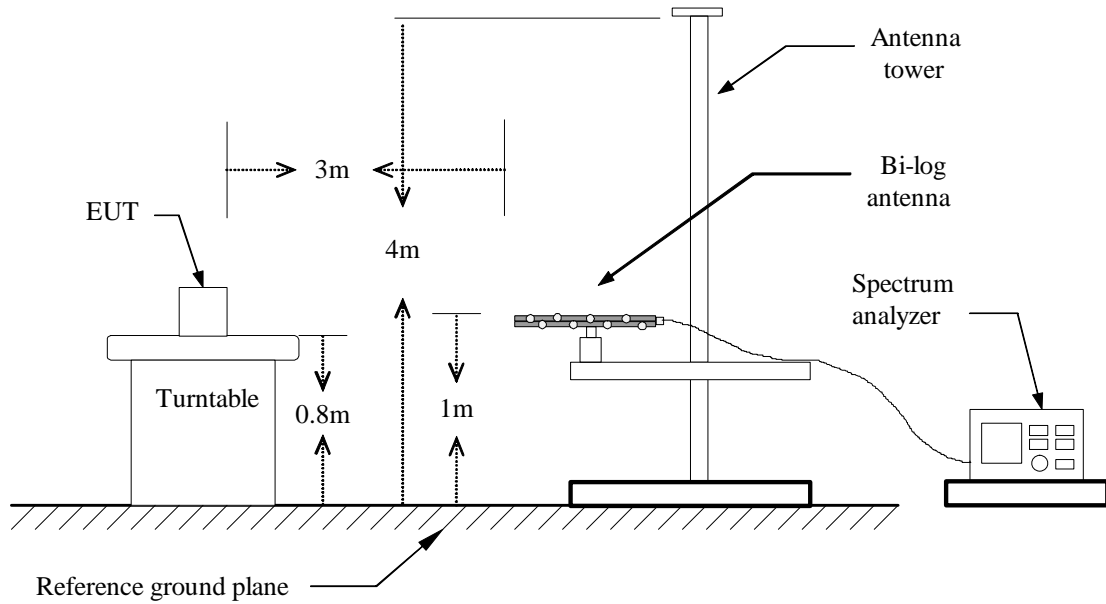
### Test Configuration



## Below 30MHz



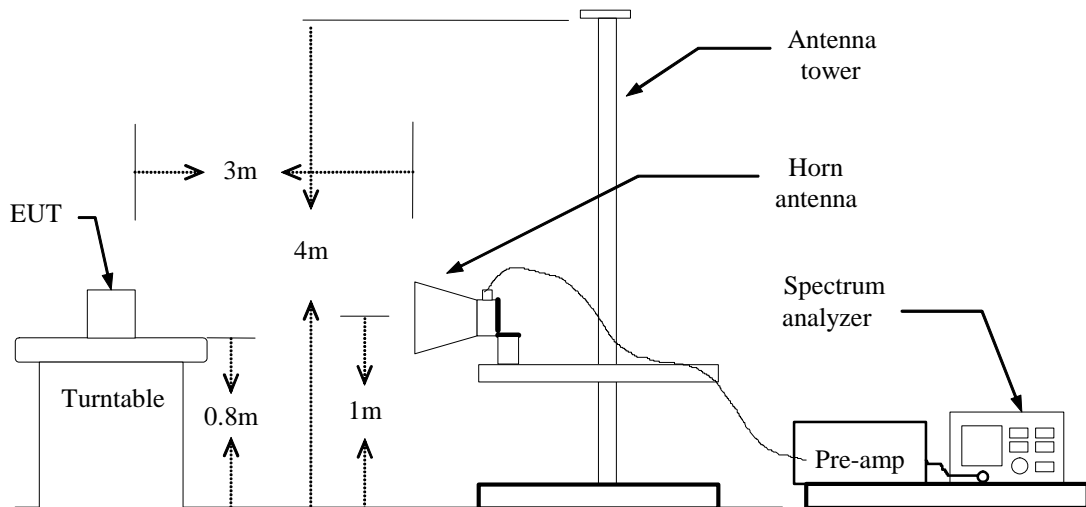
## Below 1 GHz







## Above 1 GHz



## TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

PEAK: RBW=VBW=1MHz / Sweep=AUTO, PEAK DETECTOR

AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO, PEAK DETECTOR

7. Repeat above procedures until the measurements for all frequencies are complete.

## TEST RESULTS



# Compliance Certification Services Inc.

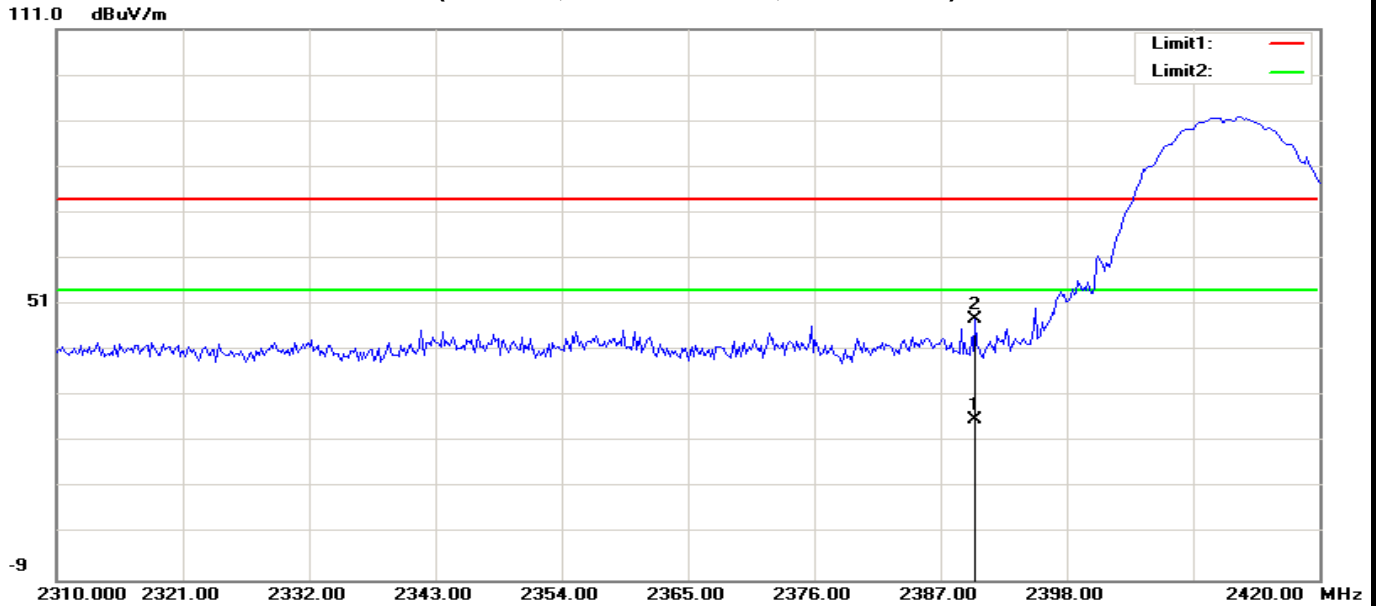
Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

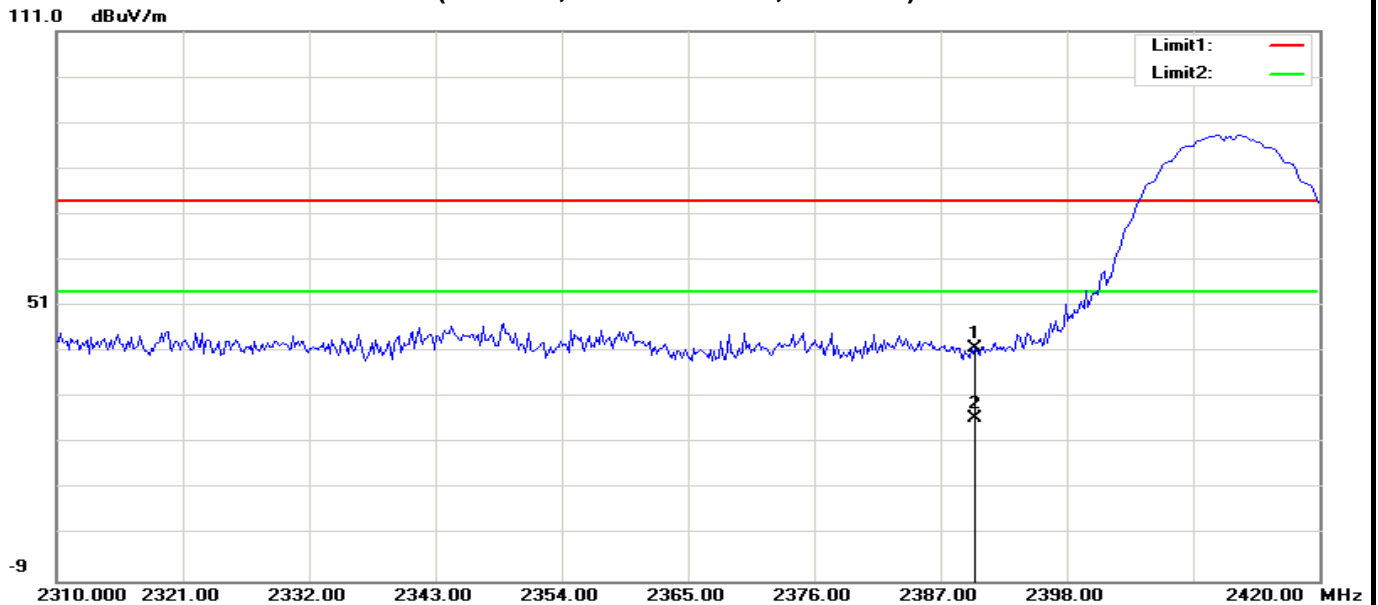
IC : 12373A-GT141A04D

## RESTRICTED BANDEDGE (b Mode, Low Channel, Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2389.975	35.48	-9.42	26.06	54.00	-27.94	100	191	AVG
2	2390.000	57.24	-9.42	47.82	74.00	-26.18	100	192	peak

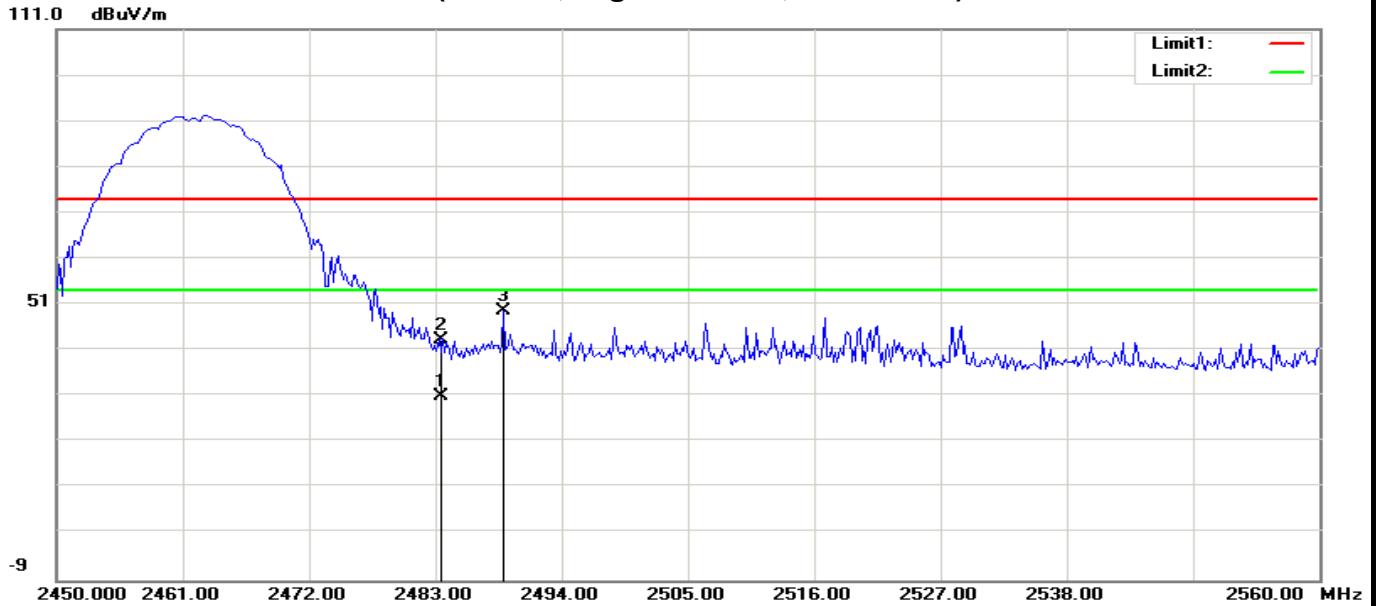
## RESTRICTED BANDEDGE (b Mode, Low Channel, Vertical)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2390.000	51.29	-9.42	41.87	74.00	-32.13	100	185	peak
2	2390.050	35.85	-9.42	26.43	54.00	-27.57	100	207	AVG

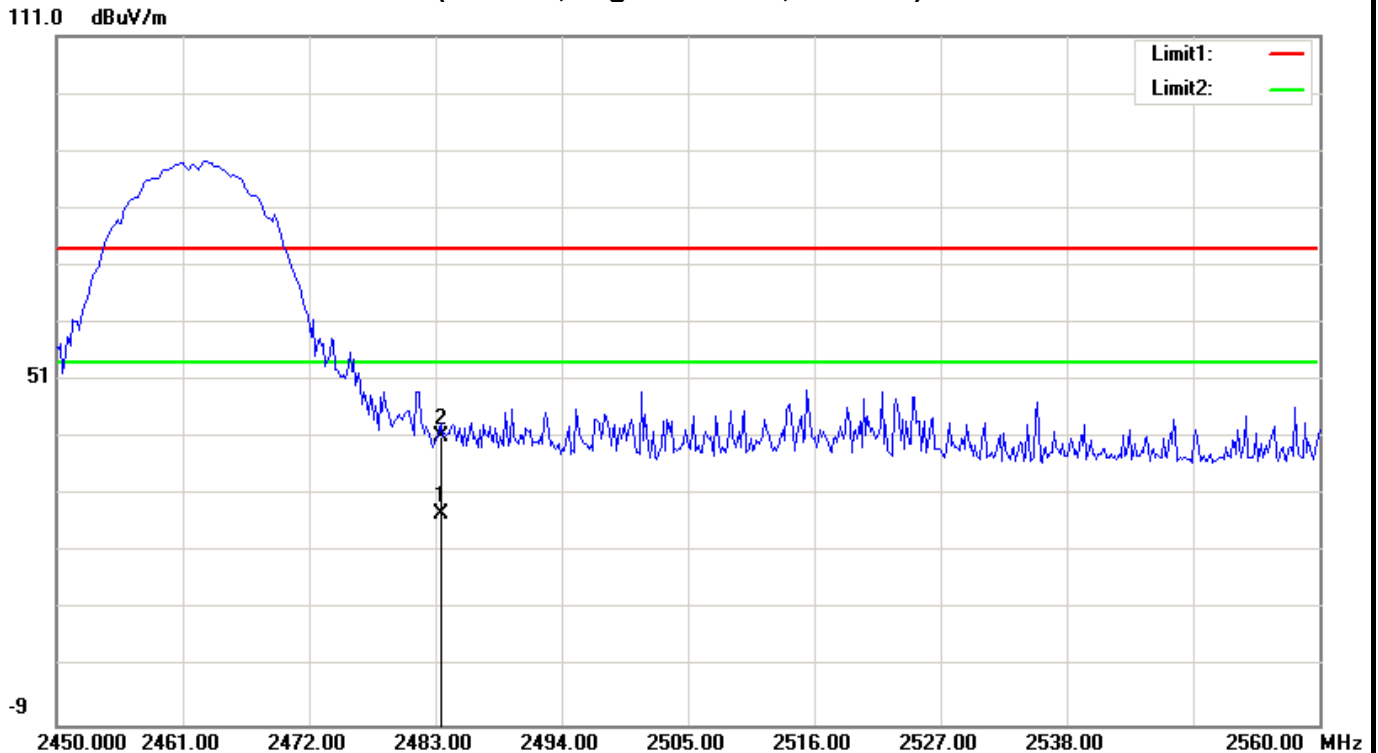


## RESTRICTED BANDEDGE (b Mode, High Channel, Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.450	39.85	-8.92	30.93	54.00	-23.07	100	288	AVG
2	2483.500	52.42	-8.92	43.50	74.00	-30.50	100	288	peak
3	2488.958	58.53	-8.89	49.64	74.00	-24.36	100	321	peak

## RESTRICTED BANDEDGE (b Mode, High Channel, Vertical)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.450	36.72	-8.92	27.80	54.00	-26.20	100	185	AVG
2	2483.500	50.16	-8.92	41.24	74.00	-32.76	100	185	peak



# Compliance Certification Services Inc.

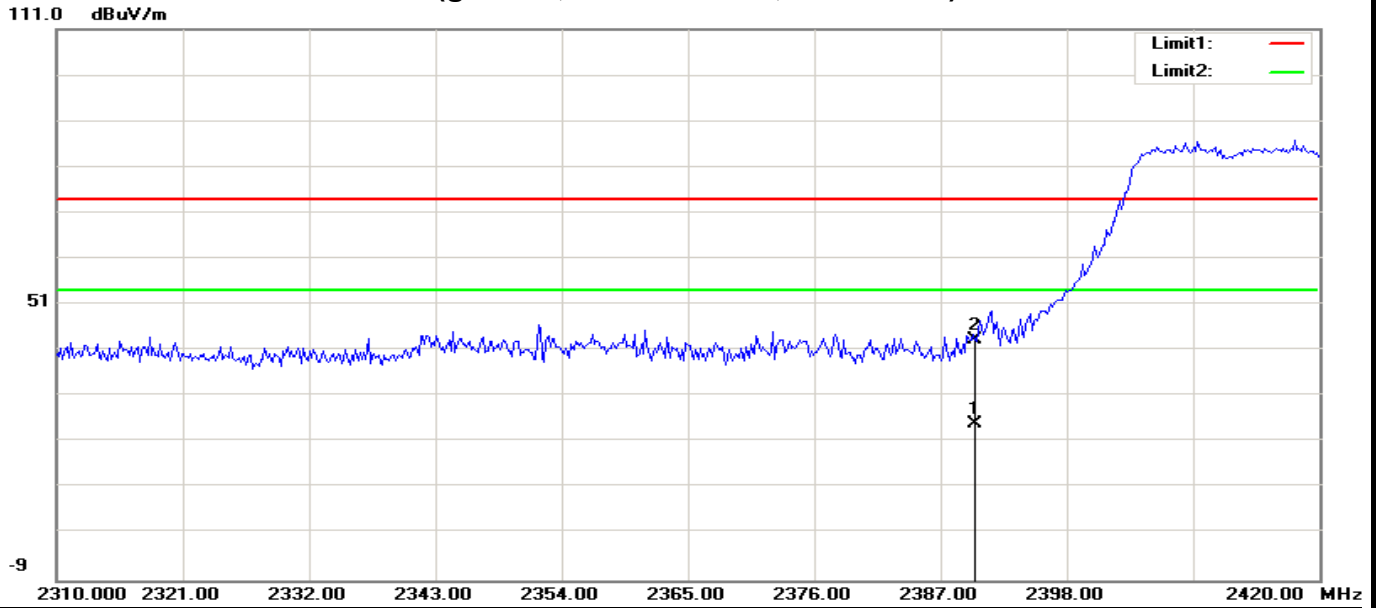
Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

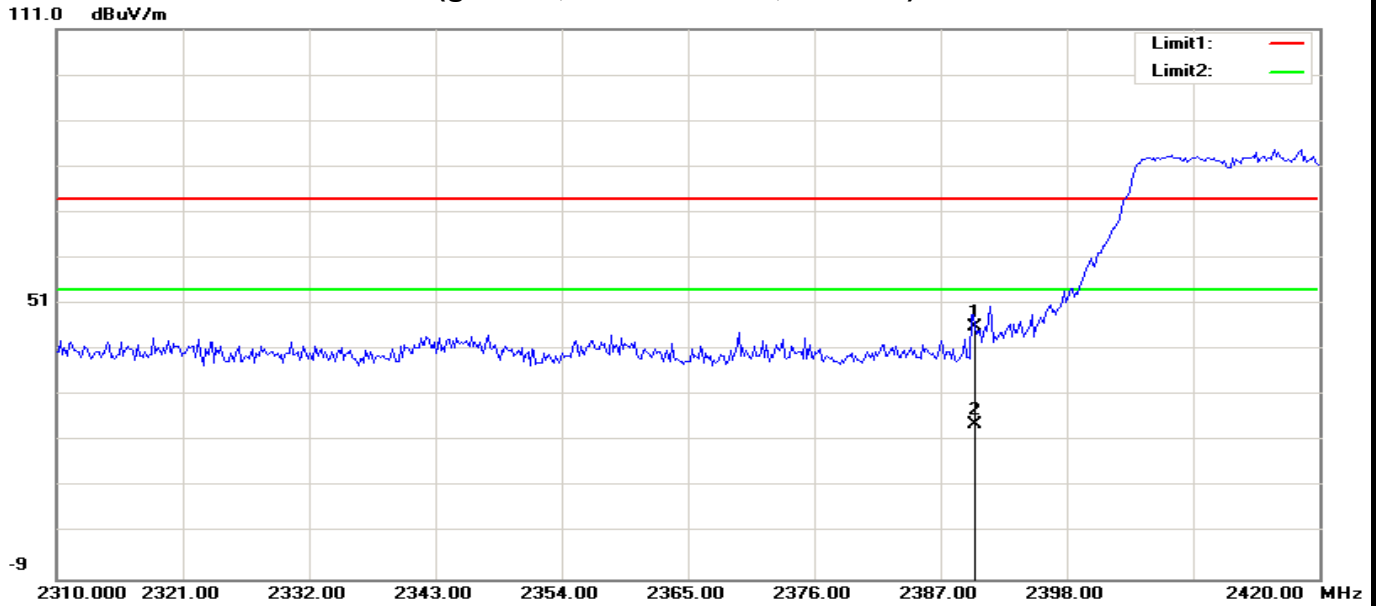
IC : 12373A-GT141A04D

## RESTRICTED BANDEDGE (g Mode, Low Channel, Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2389.975	34.44	-9.42	25.02	54.00	-28.98	100	199	AVG
2	2390.000	52.80	-9.42	43.38	74.00	-30.62	100	282	peak

## RESTRICTED BANDEDGE (g Mode, Low Channel, Vertical)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2390.000	55.46	-9.42	46.04	74.00	-27.96	100	261	peak
2	2390.025	34.16	-9.42	24.74	54.00	-29.26	100	260	AVG



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

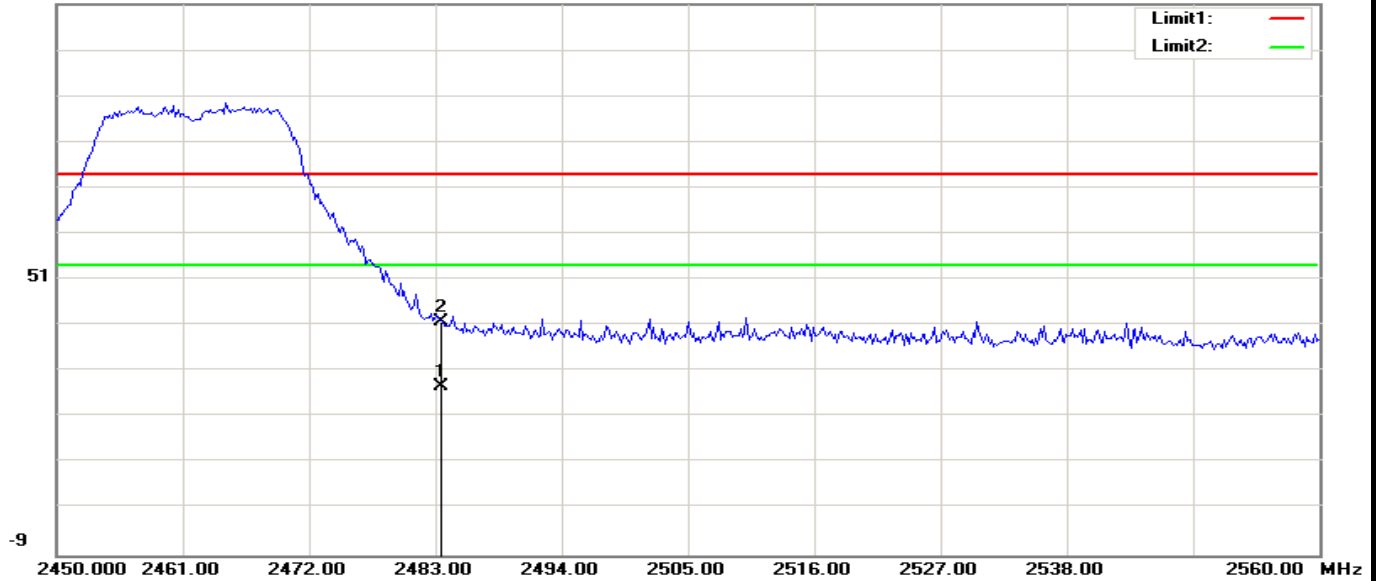
FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## RESTRICTED BANDEDGE (g Mode, High Channel, Horizontal)

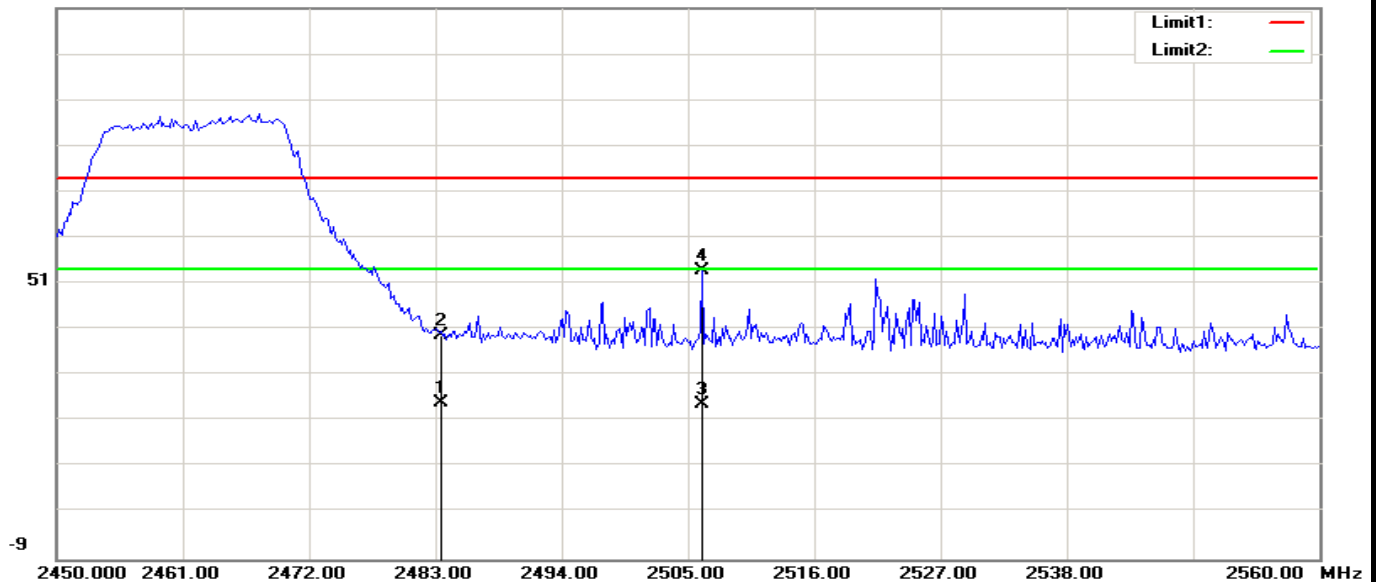
111.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.450	36.66	-8.92	27.74	54.00	-26.26	100	275	AVG
2	2483.500	50.86	-8.92	41.94	74.00	-32.06	100	275	peak

## RESTRICTED BANDEDGE (g Mode, High Channel, Vertical)

111.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.475	34.12	-8.92	25.20	54.00	-28.80	100	78	AVG
2	2483.500	48.55	-8.92	39.63	74.00	-34.37	100	78	peak
3	2506.209	33.54	-8.82	24.72	54.00	-29.28	100	85	AVG
4	2506.234	62.65	-8.82	53.83	74.00	-20.17	100	85	peak



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

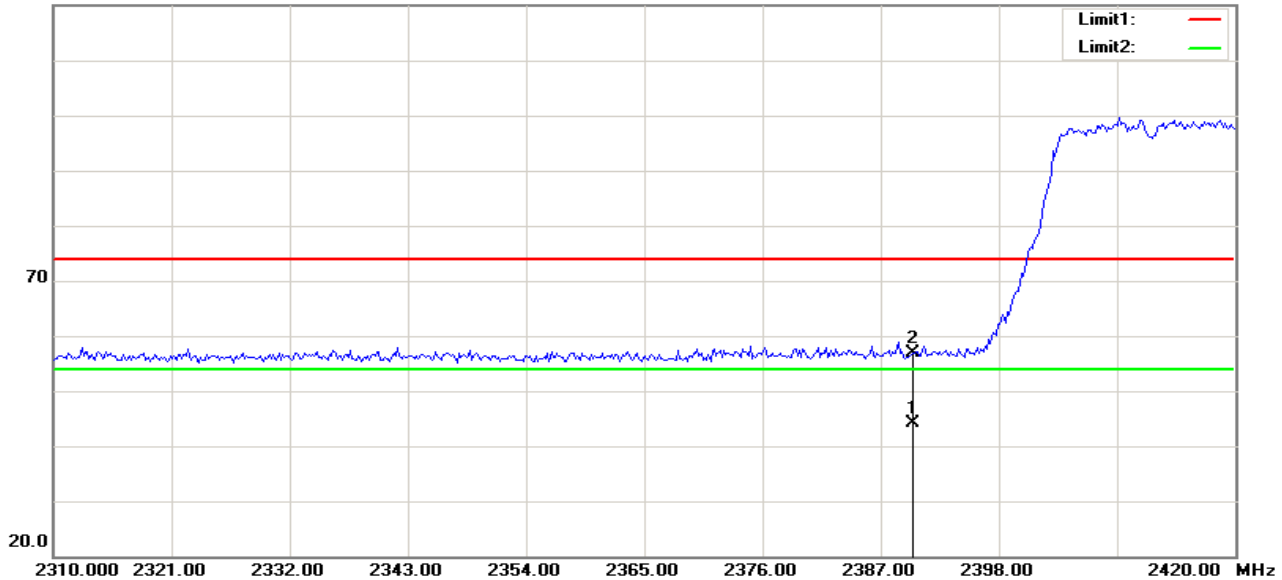
FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## RESTRICTED BANDEDGE (n Standard-20 MHz Channel mode, Low Channel, Horizontal)

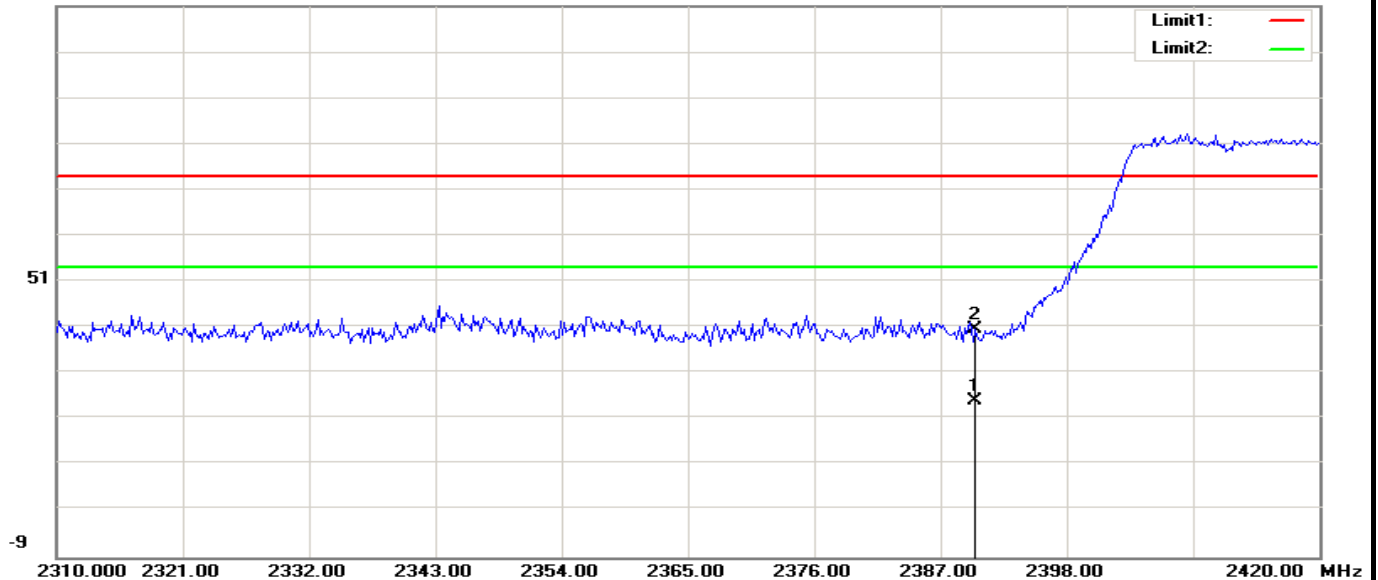
120.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2390.000	55.15	-9.42	45.73	74.00	-28.27	100	286	peak
2	2390.000	35.01	-9.42	25.59	54.00	-28.41	100	286	AVG

## RESTRICTED BANDEDGE (n Standard-20 MHz Channel mode, Low Channel, Vertical)

111.0 dBuV/m

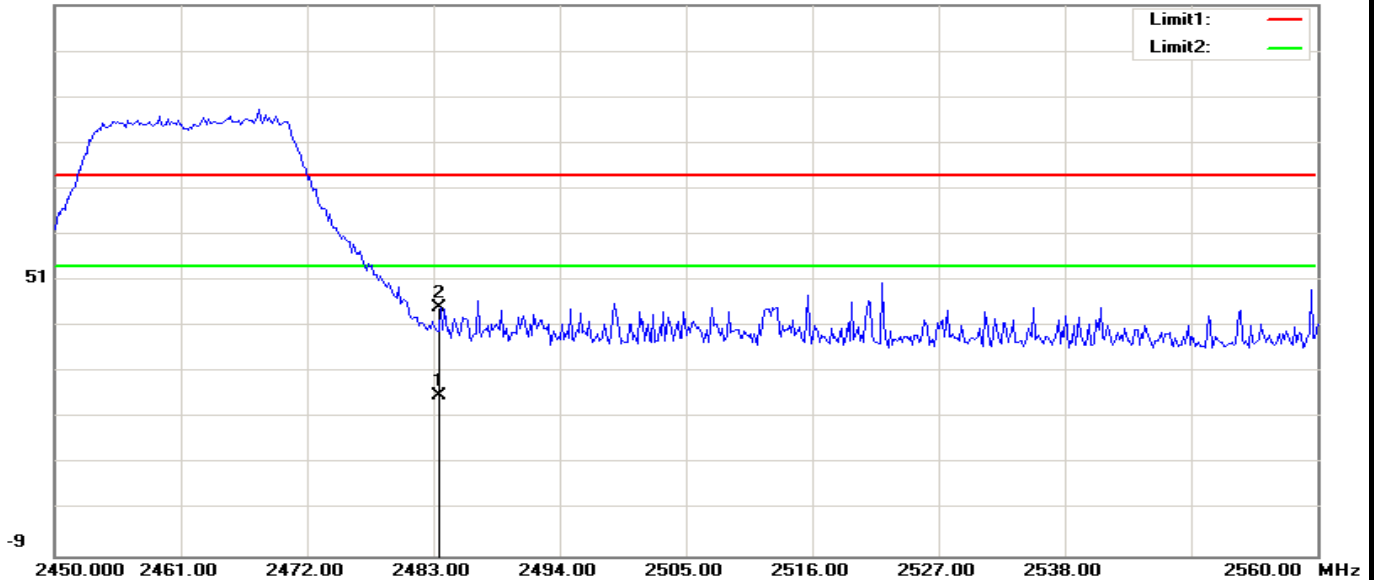


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2389.950	34.60	-9.42	25.18	54.00	-28.82	100	342	AVG
2	2390.000	50.11	-9.42	40.69	74.00	-33.31	100	342	peak



## RESTRICTED BANDEDGE (n Standard-20 MHz Channel mode, High Channel, Horizontal)

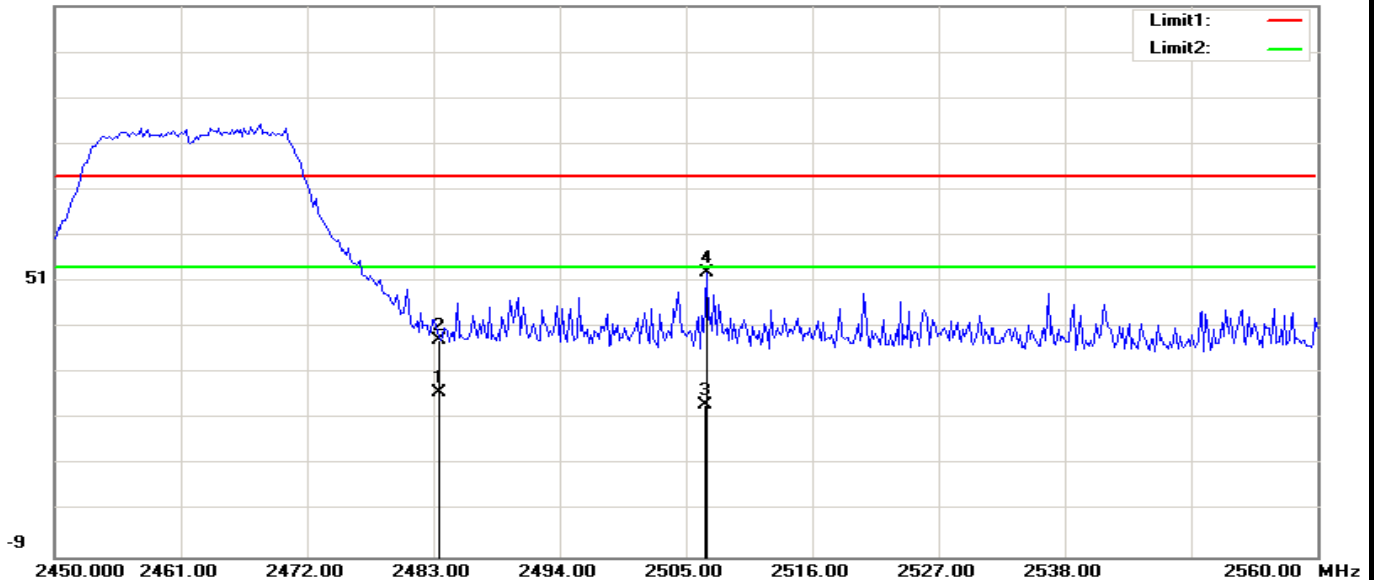
111.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.475	34.79	-8.92	25.87	54.00	-28.13	100	319	AVG
2	2483.500	54.13	-8.92	45.21	74.00	-28.79	100	319	peak

## RESTRICTED BANDEDGE (n Standard-20 MHz Channel mode, High Channel, Vertical)

111.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.475	35.64	-8.92	26.72	54.00	-27.28	100	129	AVG
2	2483.500	47.31	-8.92	38.39	74.00	-35.61	100	129	peak
3	2506.738	33.10	-8.82	24.28	54.00	-29.72	100	319	AVG
4	2506.763	61.68	-8.82	52.86	74.00	-21.14	100	319	peak



# Compliance Certification Services Inc.

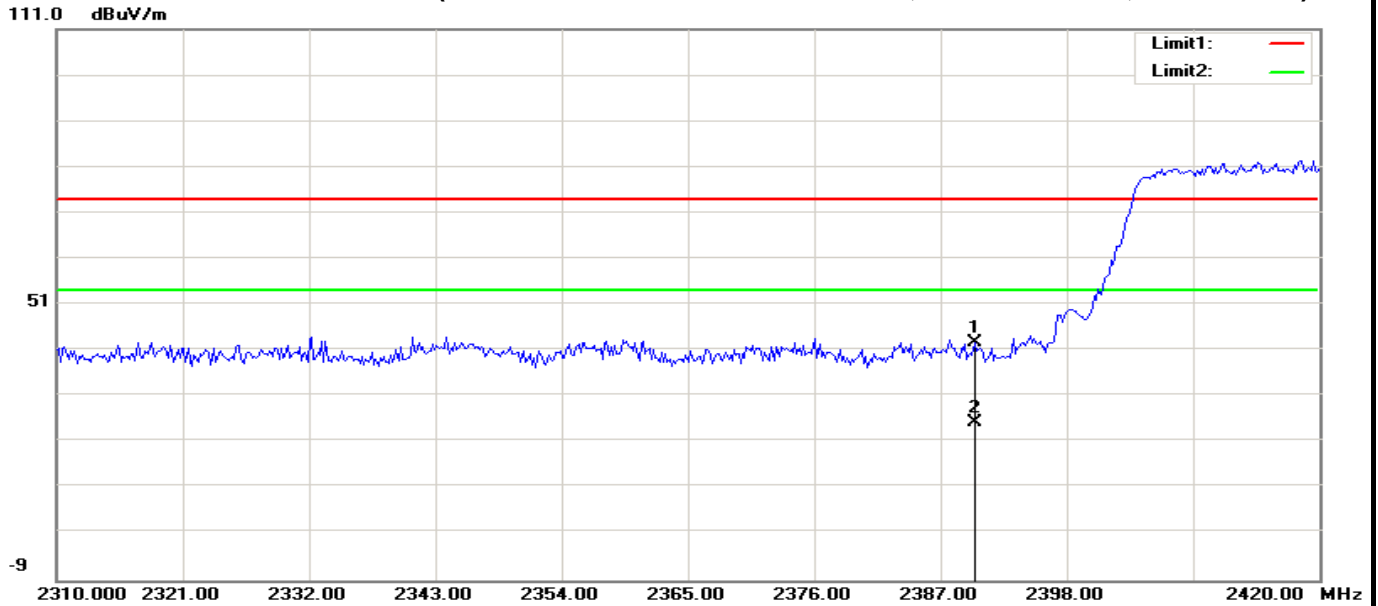
Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

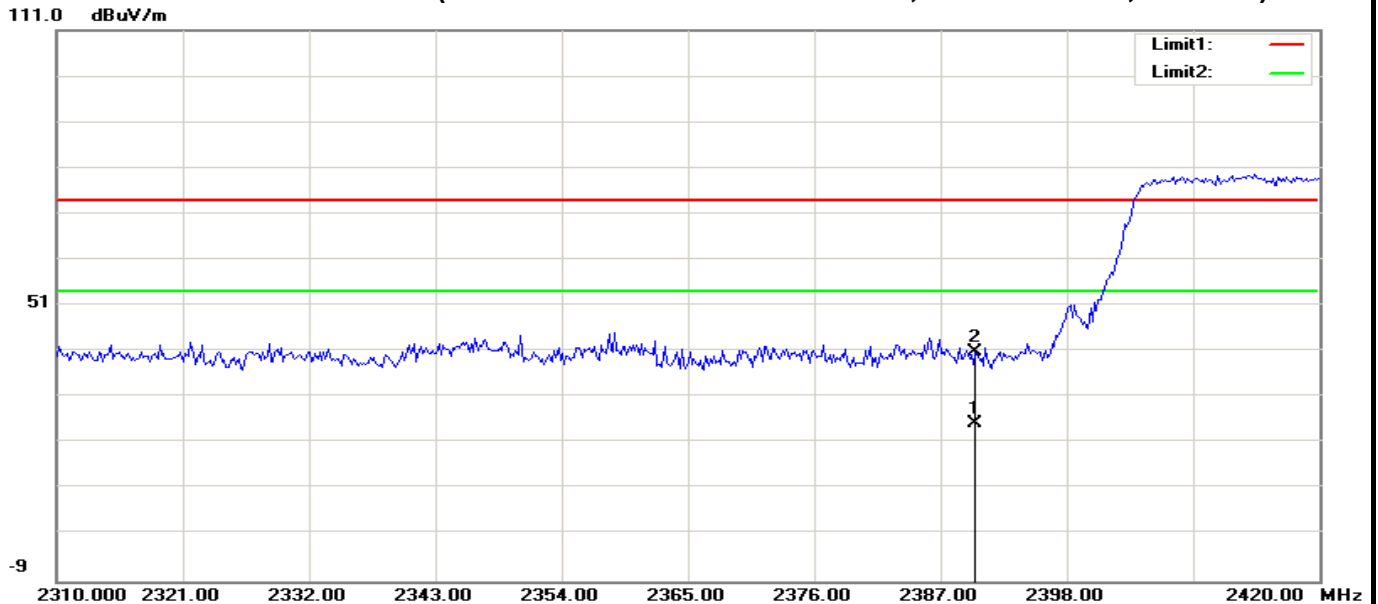
IC : 12373A-GT141A04D

## RESTRICTED BANDEDGE (n Wide -40 MHz Channel mode, Low Channel, Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2390.000	52.06	-9.42	42.64	74.00	-31.36	100	236	peak
2	2390.025	34.81	-9.42	25.39	54.00	-28.61	100	235	AVG

## RESTRICTED BANDEDGE (n Wide -40 MHz Channel mode, Low Channel, Vertical)

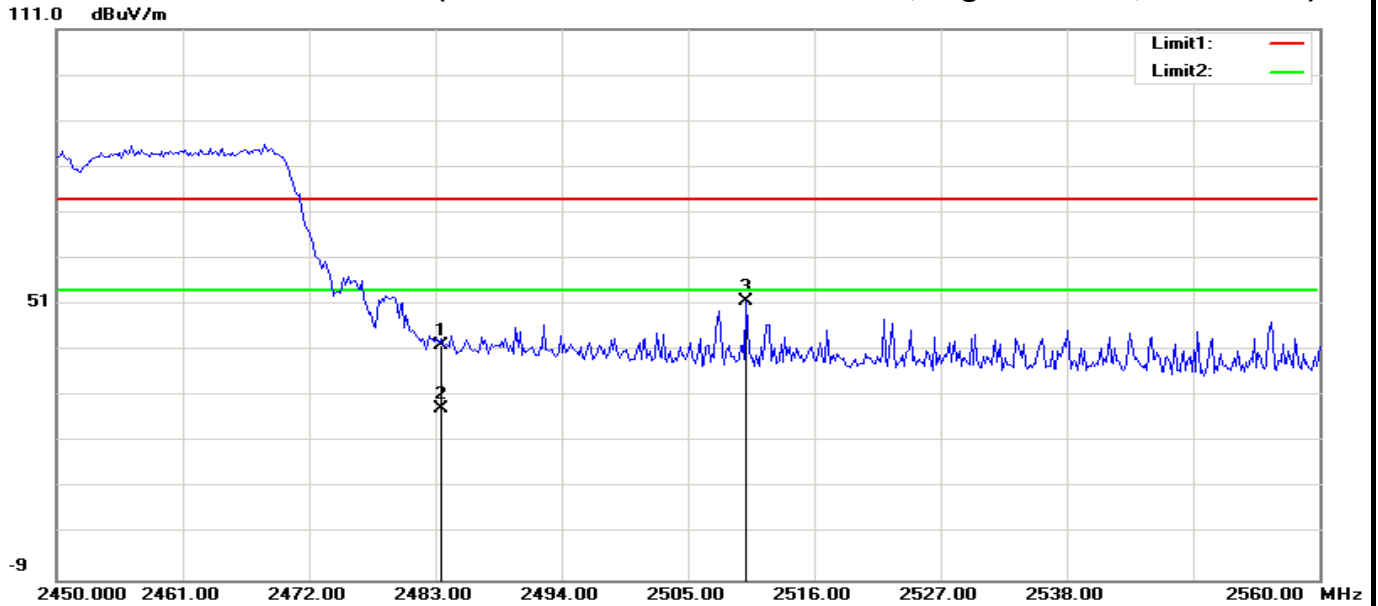


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2389.950	34.92	-9.42	25.50	54.00	-28.50	100	132	AVG
2	2390.000	50.27	-9.42	40.85	74.00	-33.15	100	132	peak



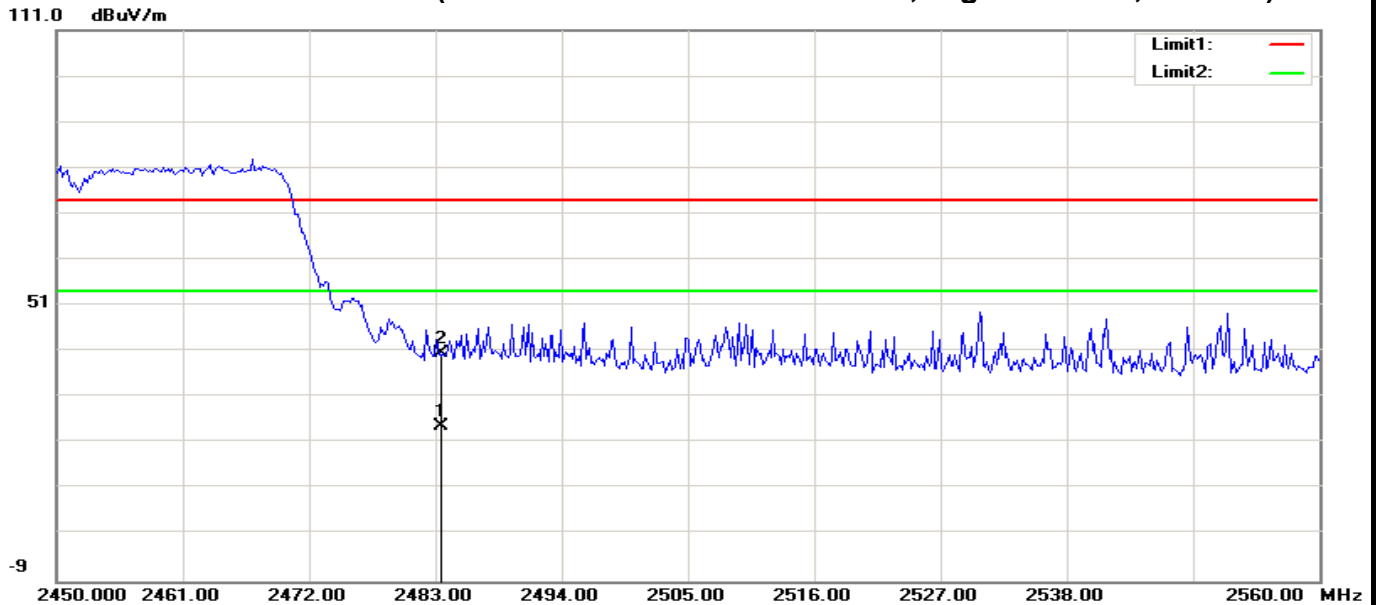


## RESTRICTED BANDEDGE (n Wide -40 MHz Channel mode, High Channel, Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	51.19	-8.92	42.27	74.00	-31.73	101	215	peak
2	2483.550	37.26	-8.92	28.34	54.00	-25.66	104	215	AVG
3	2510.112	60.47	-8.81	51.66	74.00	-22.34	101	68	peak

## RESTRICTED BANDEDGE (n Wide -40 MHz Channel mode, High Channel, Vertical)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.475	33.74	-8.92	24.82	54.00	-29.18	96	298	AVG
2	2483.500	49.55	-8.92	40.63	74.00	-33.37	99	298	peak



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## Below 1GHz

Operation Mode: Keeping TX

Test Date: 2014-11-2

Temperature: 24°C

Tested by: James.Yan

Humidity: 48% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
119.2400	V	17.82	13.87	31.69	43.50	-11.81	Peak
212.3600	V	18.87	12.17	31.04	43.50	-12.46	Peak
470.3800	V	13.94	19.16	33.10	46.00	-12.90	Peak
720.6400	V	13.11	22.25	35.36	46.00	-10.64	Peak
895.2400	V	13.99	24.21	38.20	46.00	-7.80	Peak
956.3500	V	13.07	25.35	38.42	46.00	-7.58	Peak
32.9100	H	18.53	15.09	33.62	40.00	-6.38	Peak
119.2400	H	16.49	13.87	30.36	43.50	-13.14	Peak
145.4300	H	15.50	14.71	30.21	43.50	-13.29	Peak
209.4500	H	20.29	12.35	32.64	43.50	-10.86	Peak
385.0200	H	17.17	17.59	34.76	46.00	-11.24	Peak
901.0600	H	14.08	24.33	38.41	46.00	-7.59	Peak

### Remark:

1. Measuring frequencies from 30 MHz to the 1GHz (No emission found between lowest internal used/generated frequency to 30 MH).
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

## Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low

Test Date: 2014-11-2

Temperature: 24°C

Tested by: James.Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

### Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4814.103	55.76	-3.23	52.53	74.00	-21.47	100	253	peak
2	7048.077	43.31	4.12	47.43	74.00	-26.57	100	353	peak
3	8165.064	42.28	6.52	48.80	74.00	-25.20	100	297	peak
N/A									

### Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4814.103	57.07	-3.23	53.84	74.00	-20.16	100	153	peak
2	7238.782	43.70	4.63	48.33	74.00	-25.67	100	90	peak
N/A									

Operation Mode: TX / IEEE 802.11b / CH Mid

Test Date: 2014-11-2

Temperature: 24°C

Tested by: James.Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

### Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	54.82	-2.94	51.88	74.00	-22.12	100	271	peak
2	7020.833	43.21	4.05	47.26	74.00	-26.74	100	88	peak
N/A									

### Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	58.96	-2.94	56.02	74.00	-17.98	100	181	peak
2	4868.619	33.01	-2.94	30.07	54.00	-23.93	100	180	AVG
3	7102.564	43.57	4.26	47.83	74.00	-26.17	100	201	peak
N/A									



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Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Operation Mode: TX / IEEE 802.11b / CH High

Test Date: 2014-11-2

Temperature: 24°C

Tested by: James. Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

### Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	52.77	-2.65	50.12	74.00	-23.88	100	70	peak
2	6993.590	42.67	3.96	46.63	74.00	-27.37	100	239	peak
2	9799.680	40.70	8.40	49.10	74.00	-24.90	100	44	peak
N/A									

### Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	57.63	-2.65	54.98	74.00	-19.02	100	146	peak
2	4923.125	49.20	-2.65	46.55	54.00	-7.45	100	145	AVG
3	7375.000	44.00	4.99	48.99	74.00	-25.01	100	89	peak
N/A									

Operation Mode: TX / IEEE 802.11g / CH Low

Test Date: 2014-11-2

Temperature: 24°C

Tested by: James. Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

### Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5413.462	45.01	0.14	45.15	74.00	-28.85	100	299	peak
2	7483.974	42.30	5.28	47.58	74.00	-26.42	100	0	peak
N/A									

### Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4814.103	48.84	-3.23	45.61	74.00	-28.39	100	16	peak
2	7102.564	43.06	4.26	47.32	74.00	-26.68	100	111	peak
3	9881.410	41.04	8.51	49.55	74.00	-24.45	100	290	peak
N/A									



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Report No: C141009R01-RPW

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Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Operation Mode: TX / IEEE 802.11g / CH Mid

Test Date: 2014-11-2

Temperature: 24°C

Tested by: James.Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

## Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	46.67	-2.94	43.73	74.00	-30.27	100	237	peak
2	6448.718	44.44	1.71	46.15	74.00	-27.85	100	60	peak
N/A									

## Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	49.49	-2.94	46.55	74.00	-27.45	100	159	peak
2	6775.641	43.09	2.99	46.08	74.00	-27.92	100	126	peak
N/A									

Operation Mode: TX / IEEE 802.11g / CH High

Test Date: 2014-11-2

Temperature: 24°C

Tested by: James.Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

## Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	48.48	-2.65	45.83	74.00	-28.17	100	271	peak
2	6884.615	43.98	3.48	47.46	74.00	-26.54	100	321	peak
N/A									

## Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	48.12	-2.65	45.47	74.00	-28.53	100	146	peak
2	7102.564	43.43	4.26	47.69	74.00	-26.31	100	312	peak
N/A									



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

**Operation Mode:** TX / IEEE 802.11n HT20 mode / CH Low

**Test Date:** 2014-11-2

**Temperature:** 24°C

**Tested by:** James.Yan

**Humidity:** 48 % RH

**Polarity:** Ver. / Hor.

## Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4814.103	45.78	-3.23	42.55	74.00	-31.45	100	59	peak
2	7320.513	42.96	4.84	47.80	74.00	-26.20	100	304	peak
N/A									

## Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4814.103	48.95	-3.23	45.72	74.00	-28.28	100	151	peak
2	7674.680	43.14	5.80	48.94	74.00	-25.06	100	260	peak
N/A									

**Operation Mode:** TX / IEEE 802.11n HT20 mode / CH Mid

**Test Date:** 2014-11-2

**Temperature:** 24°C

**Tested by:** James.Yan

**Humidity:** 48 % RH

**Polarity:** Ver. / Hor.

## Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	46.67	-2.94	43.73	74.00	-30.27	100	235	peak
2	7075.320	42.72	4.19	46.91	74.00	-27.09	100	340	peak
N/A									

## Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	48.41	-2.94	45.47	74.00	-28.53	100	151	peak
2	6939.103	42.58	3.72	46.30	74.00	-27.70	100	283	peak
N/A									

**Operation Mode:** TX / IEEE 802.11n HT20 mode / CH High **Test Date:** 2014-11-2



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Temperature: 24°C

Tested by: James. Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

### Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	47.22	-2.65	44.57	74.00	-29.43	100	271	peak
2	7429.487	43.43	5.13	48.56	74.00	-25.44	100	131	peak
N/A									

### Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	47.31	-2.65	44.66	74.00	-29.34	100	145	peak
2	7456.731	43.11	5.20	48.31	74.00	-25.69	100	130	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT40 mode / CH Low Test Date: 2014-11-2

Temperature: 24°C

Tested by: James. Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

### Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5522.436	43.78	0.66	44.44	74.00	-29.56	100	220	peak
2	7947.115	42.02	6.55	48.57	74.00	-25.43	100	37	peak
N/A									

### Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4841.346	48.35	-3.08	45.27	74.00	-28.73	100	15	peak
2	7293.269	43.25	4.77	48.02	74.00	-25.98	100	23	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT40 mode / CH Mid

Test Date: 2014-11-2



# Compliance Certification Services Inc.

Report No: C141009R01-RPW

FCC ID: ZJU01142309

Date of Issue :November 11, 2014

IC : 12373A-GT141A04D

Temperature: 24°C

Tested by: James.Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

## Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5522.436	44.91	0.66	45.57	74.00	-28.43	100	210	peak
2	7075.320	43.01	4.19	47.20	74.00	-26.80	100	40	peak
N/A									

## Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	47.66	-2.94	44.72	74.00	-29.28	100	151	peak
2	7102.564	42.90	4.26	47.16	74.00	-26.84	100	136	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT40 mode / CH High

Test Date: 2014-11-2

Temperature: 24°C

Tested by: James.Yan

Humidity: 48 % RH

Polarity: Ver. / Hor.

## Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5604.167	44.65	0.75	45.40	74.00	-28.60	100	210	peak
2	8165.064	41.86	6.52	48.38	74.00	-25.62	100	109	peak
N/A									

## Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4895.833	46.67	-2.79	43.88	74.00	-30.12	100	19	peak
2	6693.910	43.51	2.63	46.14	74.00	-27.86	100	1	peak
N/A									





## 7.7.POWERLINE CONDUCTED EMISSIONS

### LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

\* Decreases with the logarithm of the frequency.

### Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

### TEST PROCEDURE

- 1.The EUT was placed on a table, which is 0.8m above ground plane.
- 2.Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3.Repeat above procedures until all frequency measured were complete.

### TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

### Test Data



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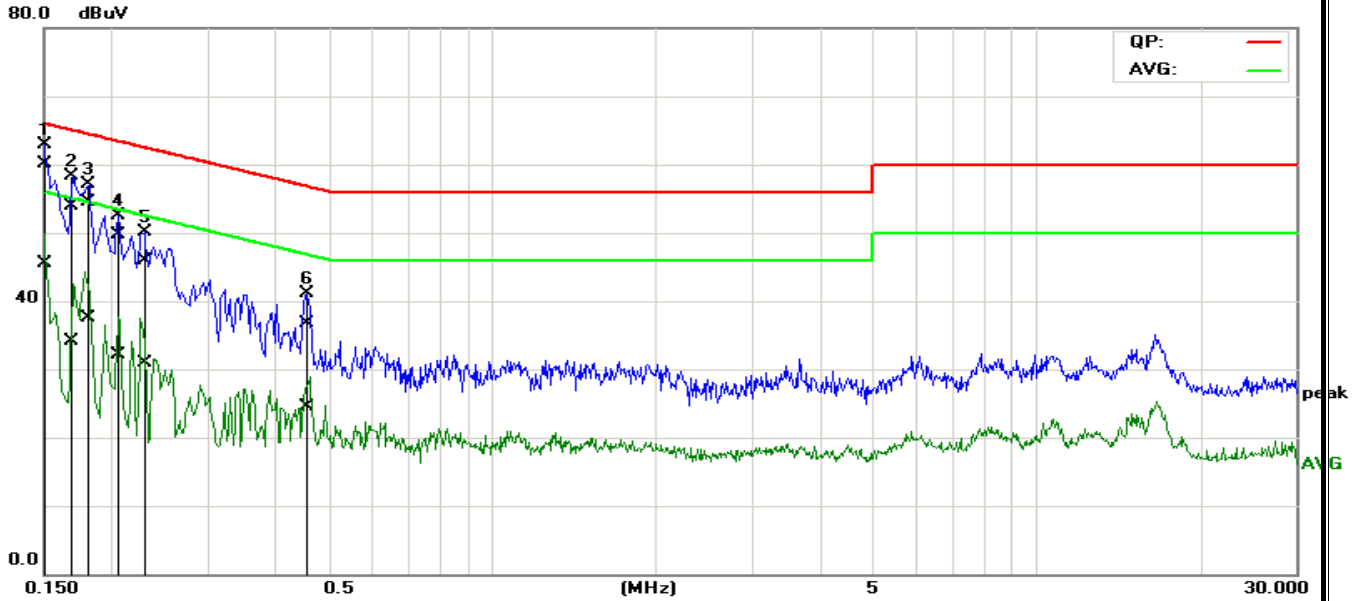
Date of Issue : November 11, 2014

IC: 12373A-GT141A04D

Job No.: C141009R01  
 Model: ATV1220A  
 Standard: FCC Class B  
 Test item: Conduction test  
 Line: L1  
 Model:

Date: 2014-11-1  
 Time: 9:32:29  
 Temp.(C)/Hum.(%): 22(C)/48%  
 Test By: James.Yan  
 Test Voltage: AC 120V/60Hz  
 Description:

## L1



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1509	40.38	25.75	19.81	60.19	45.56	65.95	55.95	-5.76	-10.39	Pass
2	0.1674	34.09	14.27	19.74	53.83	34.01	65.09	55.09	-11.26	-21.08	Pass
3	0.1801	34.76	17.80	19.68	54.44	37.48	64.48	54.48	-10.04	-17.00	Pass
4	0.2065	30.12	12.41	19.60	49.72	32.01	63.34	53.34	-13.62	-21.33	Pass
5	0.2285	26.31	11.28	19.62	45.93	30.90	62.50	52.50	-16.57	-21.60	Pass
6	0.4552	16.93	4.67	19.80	36.73	24.47	56.78	46.78	-20.05	-22.31	Pass

**Note:** 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).



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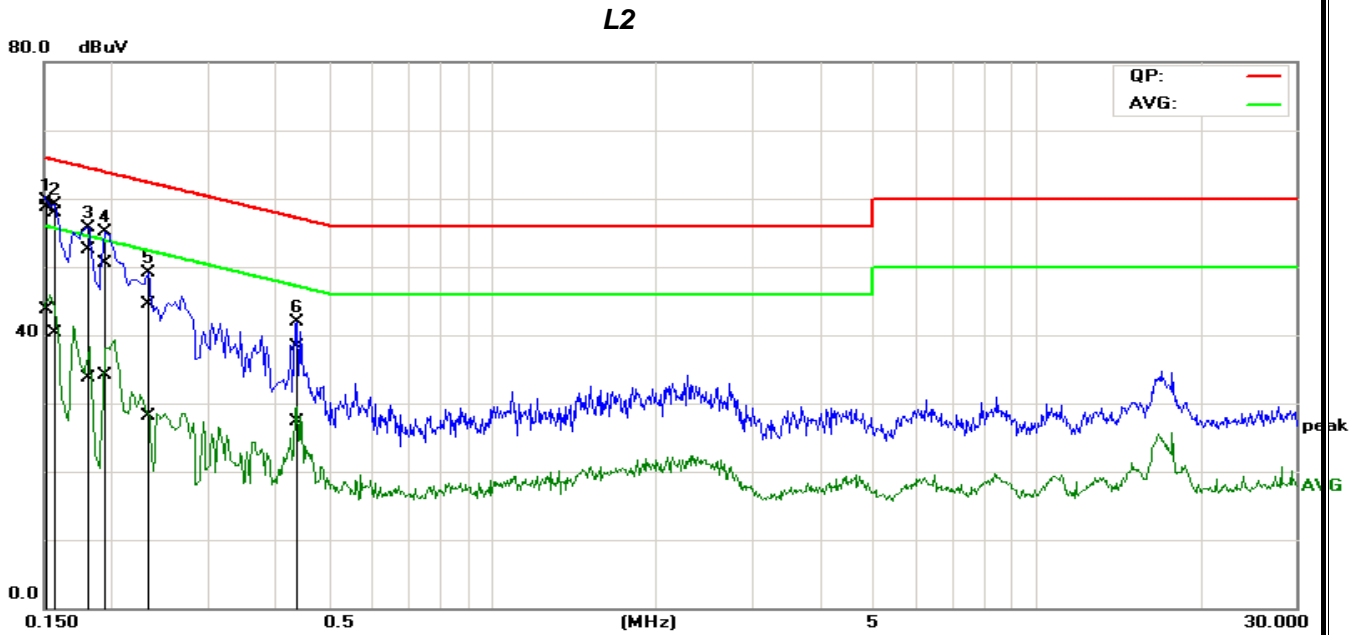
FCC ID: ZJU01142309

Date of Issue : November 11, 2014

IC: 12373A-GT141A04D

Job No.: C141009R01  
 Model: ATV1220A  
 Standard: FCC Class B  
 Test item: Conduction test  
 Line: L2  
 Model:

Date: 2014-11-1  
 Time: 9:36:59  
 Temp.(C)/Hum.(%): 22(C)/48%  
 Test By: James.Yan  
 Test Voltage: AC 120V/60Hz  
 Description:



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1523	39.01	23.88	19.73	58.74	43.61	65.87	55.87	-7.13	-12.26	Pass
2	0.1555	38.18	20.68	19.72	57.90	40.40	65.70	55.70	-7.80	-15.30	Pass
3	0.1822	32.87	13.99	19.67	52.54	33.66	64.38	54.38	-11.84	-20.72	Pass
4	0.1957	30.88	14.42	19.65	50.53	34.07	63.79	53.79	-13.26	-19.72	Pass
5	0.2314	24.85	8.40	19.66	44.51	28.06	62.40	52.40	-17.89	-24.34	Pass
6	0.4377	18.51	7.42	19.81	38.32	27.23	57.11	47.11	-18.79	-19.88	Pass

**Note:** 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).