

# FCC REPORT

**Applicant:** Crave Interactive Ltd


**Address of Applicant:** Fairbourne Drive, Atterbury, Milton Keynes, MK10 9RG,  
England, United Kingdom

**Equipment Under Test (EUT)**

Product Name: Tablet pc

Model No.: M1022

Additional Model No.: N/A

Trade mark: 

**FCC ID:** 2AD3YM1022

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** Jan. 09, 2015

**Date of Test:** Jan. 09 - Jan. 19, 2015

**Date of report issued:** Jan. 22, 2015

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

*The results detailed in this test report relate only to the specific sample(s) tested. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. This report is not to be reproduced except in full, without written approval from TCT Testing Technology.*

## 2 Version

Version No.	Date	Description
00	Jan. 22, 2015	Original

Prepared by:

*Beryl Zhao*

Date:

*Jan. 22, 2015*

**Report Clerk**

Reviewed by:

*Zou Jie*

Date:

*Jan. 22, 2015*

**EMC Manager**

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## 4. Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass


*Pass: The EUT complies with the essential requirements in the standard.*

## 5. General Information

### 5.1 Client Information

Applicant:	Crave Interactive Ltd
Address of Applicant:	Fairbourne Drive, Atterbury, Milton Keynes, MK10 9RG, England, United Kingdom
Manufacturer:	Honsung International Industry Ltd.
Address of Manufacturer:	Room B512, Building 3, Saige Technology Park, Huaqiangbei Road, Futian District, Shenzhen, PRC

### 5.2 General Description of E.U.T.

Product Name:	Tablet pc
Model No.:	M1022
Additional Model No.:	N/A
Trade mark:	
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11n(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	0 dBi
AC adapter:	Model No.: PA-U13 Input: AC 100-240V~ 50/60Hz Output: DC 5V, 8A
Power supply:	Rechargeable Li-ion Battery DC3.7V-6000mAh

Operation Frequency each of channel For 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n(H40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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

802.11b/802.11g/802.11n (H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (H40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

### 5.3 Measurement uncertainty

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

No.	Item	Uncertainty
1	Conducted Emission	$\pm 3.28\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.88\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.88\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

## 5.4 Test environment and mode

<b>Operating Environment:</b>	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
<b>Test mode:</b>	
Operation mode	Keep the EUT in continuous transmitting with modulation
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

**Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.**

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

### Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

## 5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Registration No.: 572331**

Shenzhen TCT Testing Technology Co., Ltd., Shenzhen EMC Laboratory: Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

● **IC - Registration No.: 10668A-1**

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

● **CNAS - Registration No.: CNAS L6165**

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

## 5.6 Laboratory Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 13410377511

Fax: --



## 5.7 Test Instruments list

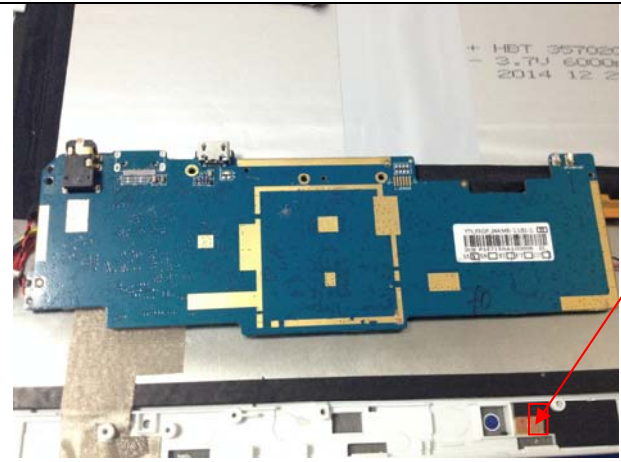
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	ESPI Test Receiver	ROHDE&SCHWARZ	ESVD	100008	Sep.17, 2014	Sep.16 , 2015
2	Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Sep.17, 2014	Sep.16 , 2015
3	Spectrum Analyzer	ROHDE&SCHWARZ	FSU3	1166.1660.03	Sep.17, 2014	Sep.16, 2015
4	Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep.17, 2014	Sep.16 , 2015
5	Pre-amplifier	HP	8447D	2727A05017	Sep.17, 2014	Sep.16 , 2015
6	Loop antenna	ZHINAN	ZN30900A	12024	Dec.15, 2014	Dec.14 , 2015
7	Broadband Antenna	Schwarzbeck	VULB9163	340	Sep.17, 2014	Sep.16 , 2015
8	Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep.17, 2014	Sep.16 , 2015
9	Loop antenna	ZHINAN	ZN30900A	12024	Dec.15, 2014	Dec.14 , 2015
10	Coax cable	TCT	N/A	N/A	Sep.14, 2014	Sep.15 , 2015
11	Coax cable	TCT	N/A	N/A	Sep.14, 2014	Sep.15 , 2015
12	Coax cable	TCT	N/A	N/A	Sep.14, 2014	Sep.15 , 2015
13	Coax cable	TCT	N/A	N/A	Sep.14, 2014	Sep.15 , 2015
14	EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	N/A

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	EMI Test Receiver	R&S	ESCS30	100139	Sep.17, 2014	Sep.16 , 2015
2	LISN-1	AFJ	LS16C	16010947251	Sep.17, 2014	Sep.16 , 2015
3	LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep.17, 2014	Sep.16 , 2015
4	Coax cable	TCT	N/A	164080	Sep.17, 2014	Sep.16 , 2015
5	EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	N/A

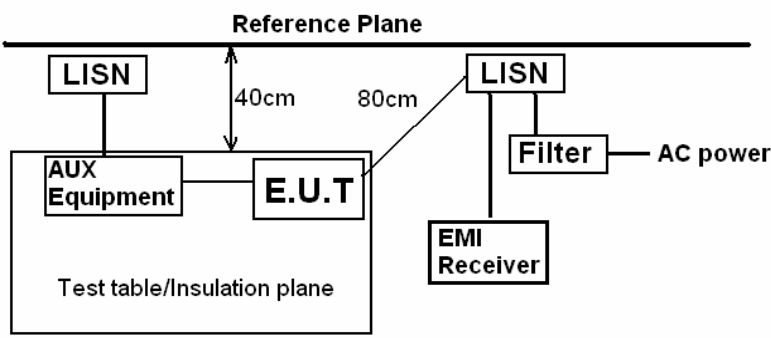
Conducted method test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	Spectrum Analyzer	ROHDE&SCHWARZ	FSU3	200054	Sep.17, 2014	Sep.16, 2015
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 22, 2014	Oct. 23 , 2015

## 6. Test results and Measurement Data

### 6.1 Antenna requirement:

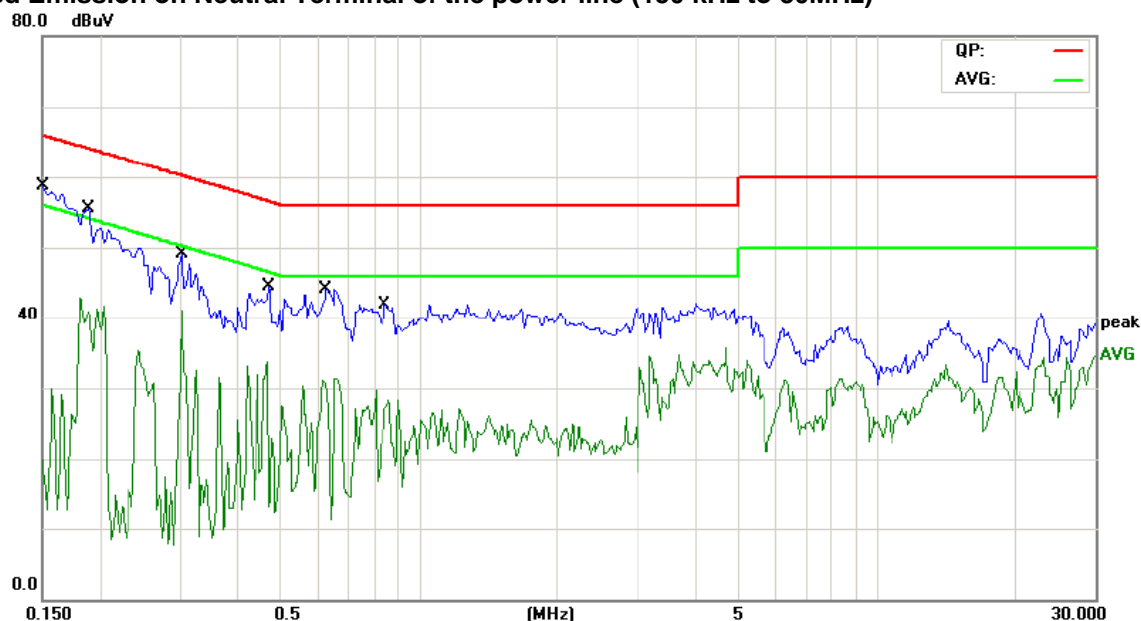
<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p><i>15.203 requirement:</i>  <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i></p> <p><i>15.247(c) (1)(i) requirement:</i>  <i>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i></p>	
<b>E.U.T Antenna:</b>	
<p><i>The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 0 dBi.</i></p>	
 <p>Bluetooth antenna</p>	

## 6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4: 2003		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test procedure	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.</li> </ol>		
Test setup:	 <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Refer to section 5.4 for details		
Test results:	Passed		

### Measurement Data

**Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)**



Site Chamber #1

Phase: **N**

Temperature: 27 (C)

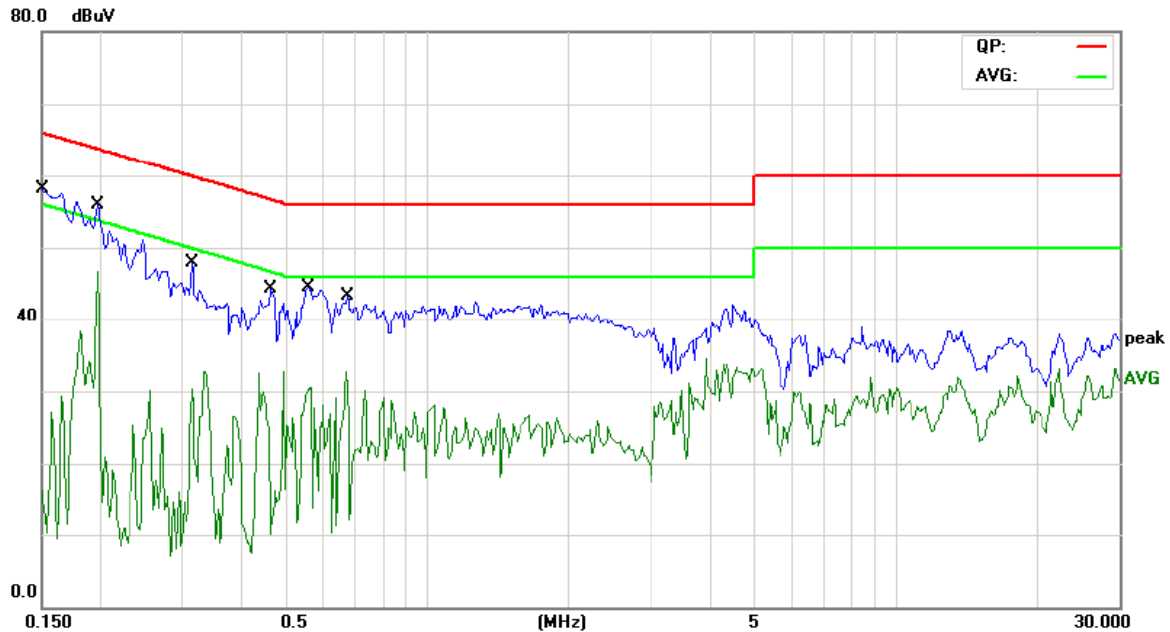
Limit: FCC PART15 Conduction(QP)

Power:

Humidity: 53 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	38.42	11.52	49.94	65.99	-16.05	QP	
2		0.1500	9.96	11.52	21.48	55.99	-34.51	AVG	
3	*	0.1891	37.70	11.49	49.19	64.07	-14.88	QP	
4		0.1891	27.39	11.49	38.88	54.07	-15.19	AVG	
5		0.3023	33.13	11.43	44.56	60.18	-15.62	QP	
6		0.3023	17.93	11.43	29.36	50.18	-20.82	AVG	
7		0.4703	30.09	11.32	41.41	56.51	-15.10	QP	
8		0.4703	13.60	11.32	24.92	46.51	-21.59	AVG	
9		0.6266	26.92	11.25	38.17	56.00	-17.83	QP	
10		0.6266	8.78	11.25	20.03	46.00	-25.97	AVG	
11		0.8414	24.73	11.20	35.93	56.00	-20.07	QP	
12		0.8414	9.34	11.20	20.54	46.00	-25.46	AVG	

**Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)**



Site Chamber #1

Phase: **L1**

Temperature: 27 (C)

Limit: FCC PART15 Conduction(QP)

Power:

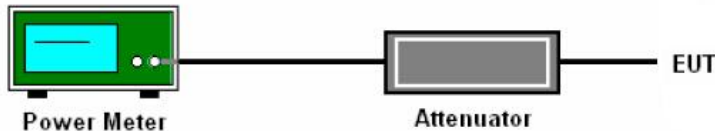
Humidity: 53 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	38.63	11.49	50.12	65.99	-15.87	QP	
2		0.1500	9.39	11.49	20.88	55.99	-35.11	AVG	
3	*	0.1969	38.73	11.46	50.19	63.74	-13.55	QP	
4		0.1969	23.05	11.46	34.51	53.74	-19.23	AVG	
5		0.3141	29.75	11.40	41.15	59.86	-18.71	QP	
6		0.3141	15.95	11.40	27.35	49.86	-22.51	AVG	
7		0.4625	28.50	11.32	39.82	56.65	-16.83	QP	
8		0.4625	13.35	11.32	24.67	46.65	-21.98	AVG	
9		0.5563	29.72	11.27	40.99	56.00	-15.01	QP	
10		0.5563	14.78	11.27	26.05	46.00	-19.95	AVG	
11		0.6734	28.66	11.23	39.89	56.00	-16.11	QP	
12		0.6734	14.52	11.23	25.75	46.00	-20.25	AVG	

**Notes:**

1. An initial pre-scan was performed on the line and neutral terminal of the power line with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + Correct Factor
4. \* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

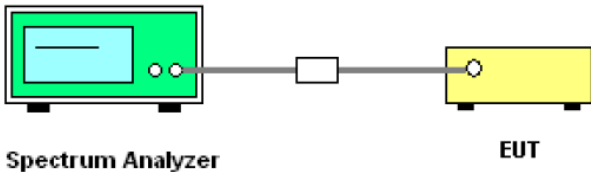
### 6.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup. A Power Meter (represented by a green box with a blue screen) is connected via a cable to an Attenuator (represented by a grey box). The Attenuator is then connected via another cable to the EUT (Equipment Under Test, represented by a black box).</p>
Test Instruments:	Refer to section 4.7 for details
Test procedure:	<ol style="list-style-type: none"> <li>1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.</li> <li>2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Measure the conducted output power and record the results in the test report.</li> </ol>
Test results:	Passed

#### Measurement Data

Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	8.11	7.42	7.32	5.27	30.00	Pass
Middle	8.34	7.66	7.57	6.20		
Highest	9.56	8.28	8.23	6.47		

## 6.4 Emission Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	>500kHz
Test setup:	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
Test Instruments:	Refer to section 5.6 for details
Test procedure:	<ol style="list-style-type: none"> <li>1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02.</li> <li>2. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>5. Measure and record the results in the test report.</li> </ol>
Test results:	Passed

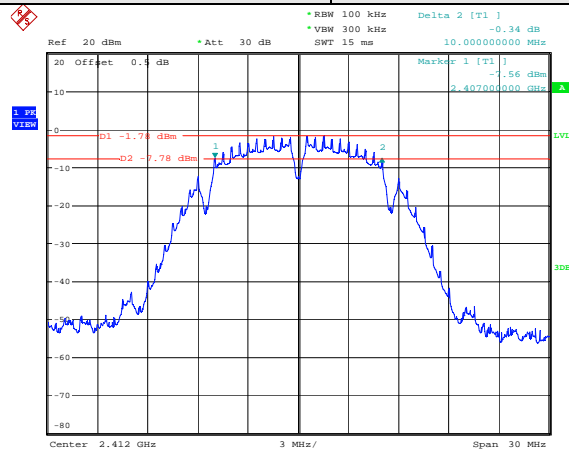
### Measurement Data

Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.00	16.49	17.69	36.35	>500	Pass
Middle	10.05	16.49	17.69	36.15		
Highest	10.00	16.49	17.69	36.35		

Test plot as follows:

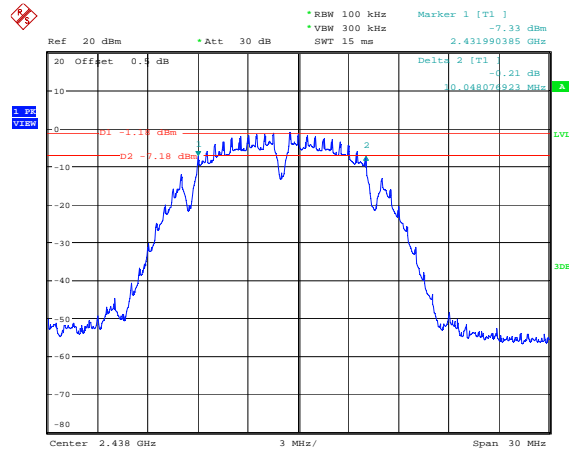
Test mode:

802.11b



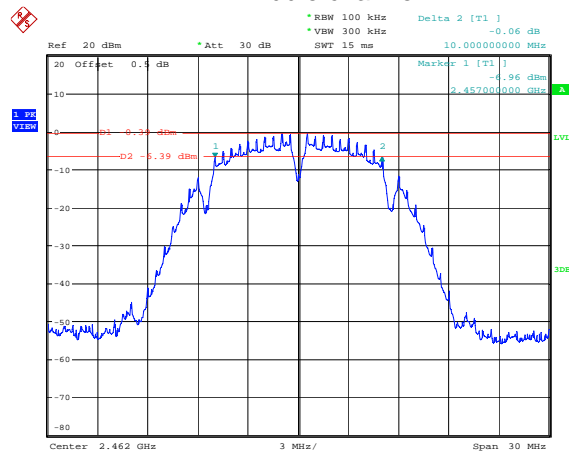
Date: 16.JAN.2015 15:29:09

### Lowest channel



Date: 16.JAN.2015 15:30:42

### Middle channel



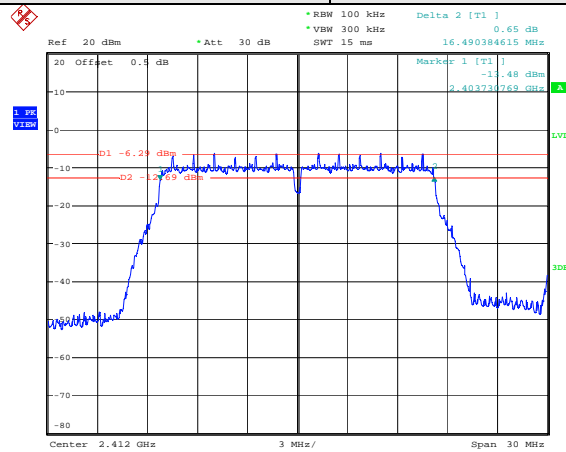
Date: 16.JAN.2015 15:39:54

### Highest channel



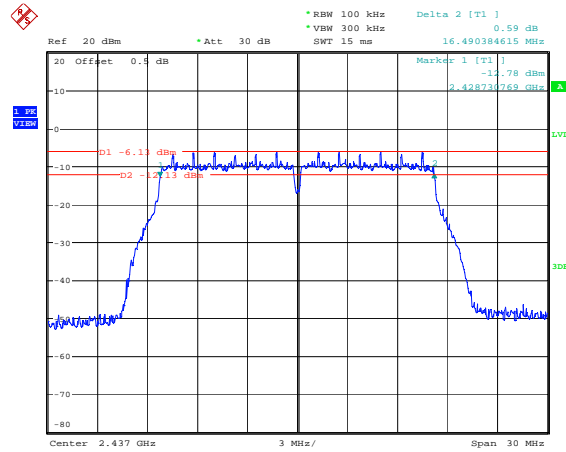
Test mode:

802.11g



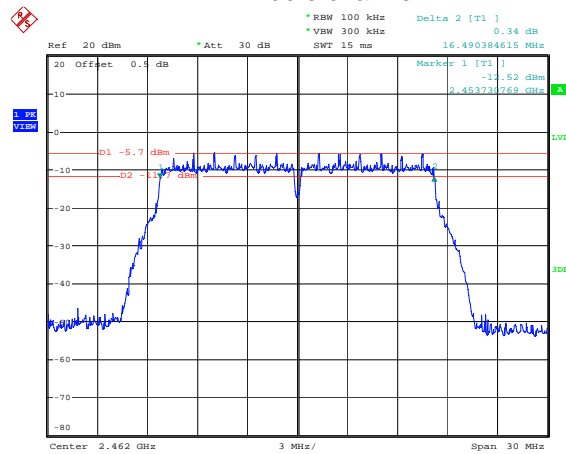
Date: 16.JAN.2015 15:48:45

## Lowest channel



Date: 16.JAN.2015 15:42:36

## Middle channel

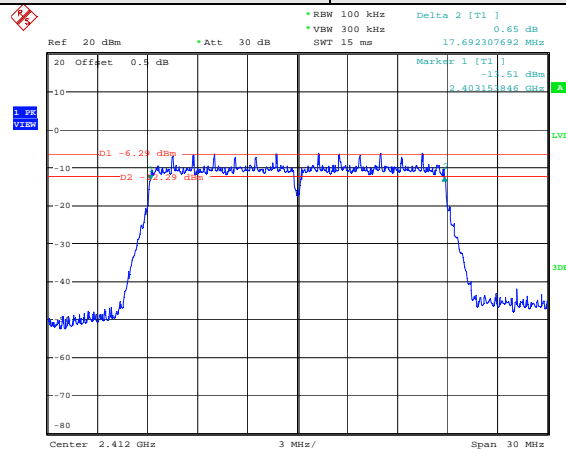


Date: 16.JAN.2015 15:41:18

## Highest channel

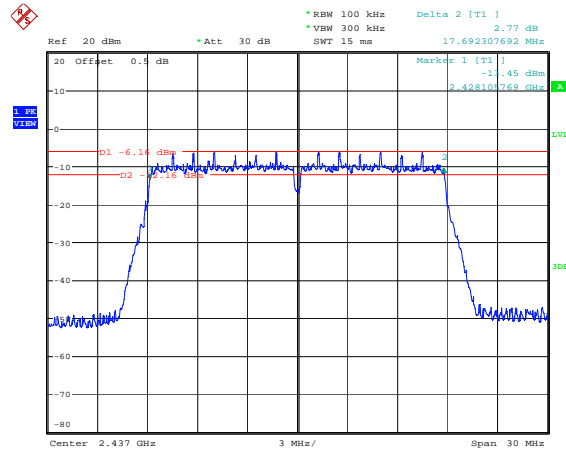
Test mode:

802.11n(H20)



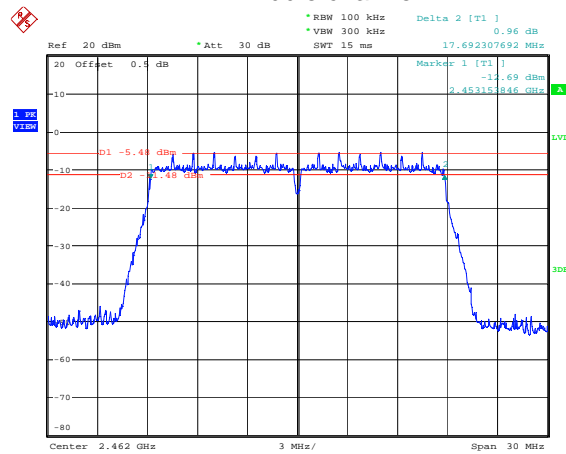
Date: 16.JAN.2015 15:50:19

## Lowest channel



Date: 16.JAN.2015 15:51:41

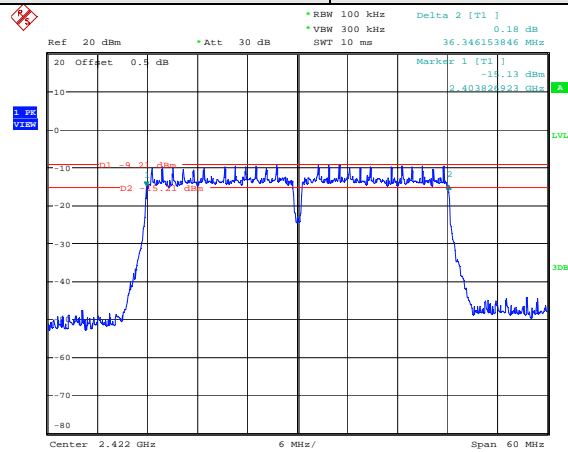
## Middle channel



Date: 16.JAN.2015 15:53:30

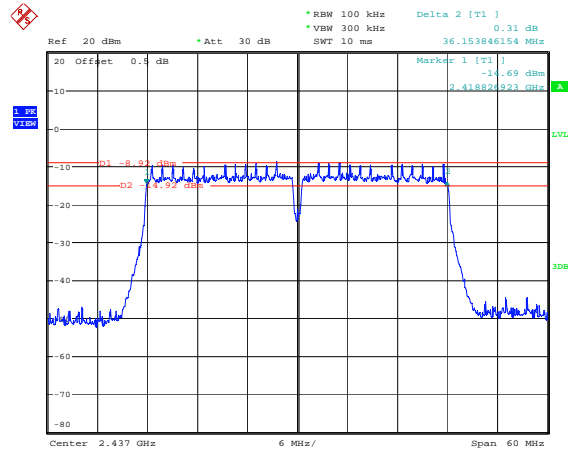
## Highest channel

Test mode:	802.11n(H40)
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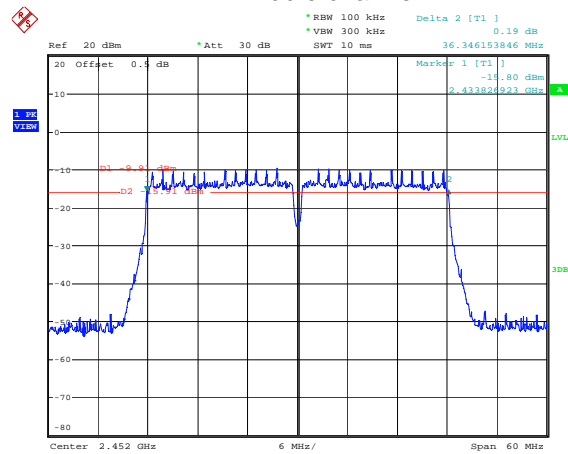
Date: 16.JAN.2015 16:03:21

## Lowest channel



Date: 16.JAN.2015 15:57:28

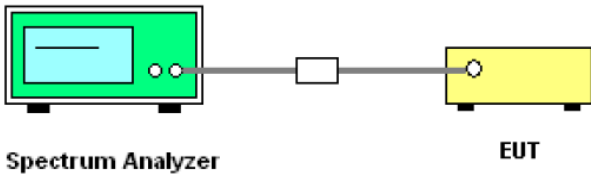
## Middle channel



Date: 16.JAN.2015 15:55:22

## Highest channel

## 6.5 Power Spectral Density

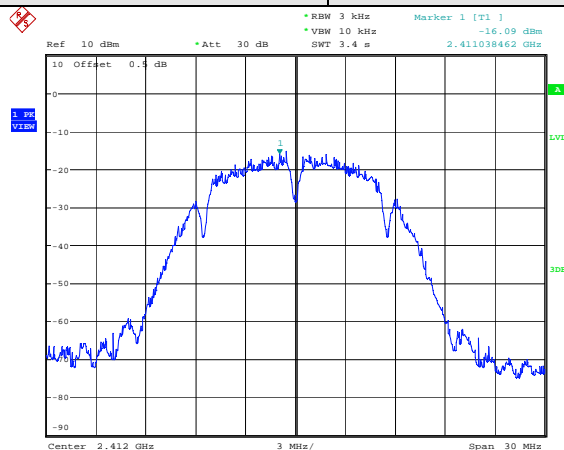
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test setup:	 <p>The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer'. A cable connects it to a small white box labeled 'Attenuator'. Another cable connects the attenuator to a yellow box labeled 'EUT' (Equipment Under Test).</p>
Test Instruments:	Refer to section 5.6 for details
Test mode:	<ol style="list-style-type: none"> <li>1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r02</li> <li>2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)</li> <li>5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.</li> <li>6. Measure and record the results in the test report.</li> </ol>
Test results:	Passed

### Measurement Data

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	-16.09	-19.46	-20.76	-26.07	8.00	Pass
Middle	-15.26	-19.26	-20.00	-23.38		
Highest	-14.66	-19.62	-21.76	-22.93		

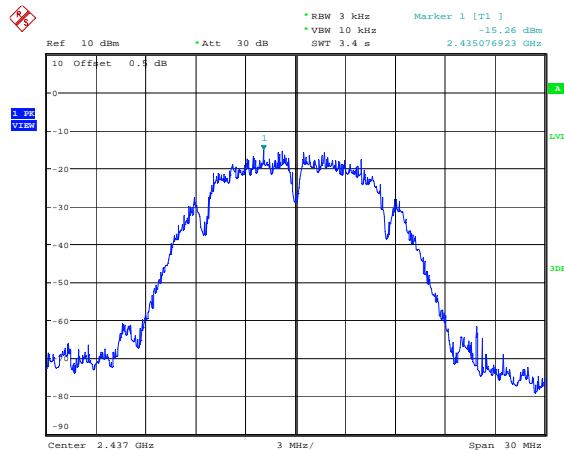
Test plot as follows:

Test mode:	802.11b
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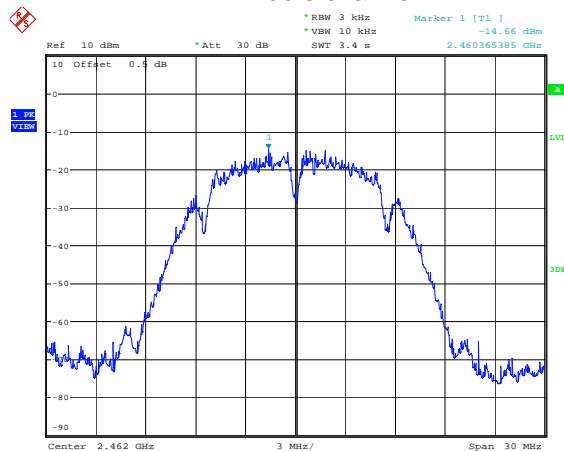
Date: 16.JAN.2015 16:10:01

## Lowest channel



Date: 16.JAN.2015 16:11:56

## Middle channel

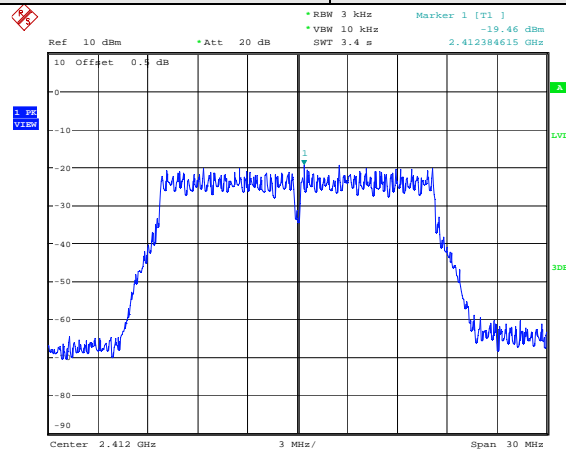


Date: 16.JAN.2015 16:12:51

## Highest channel

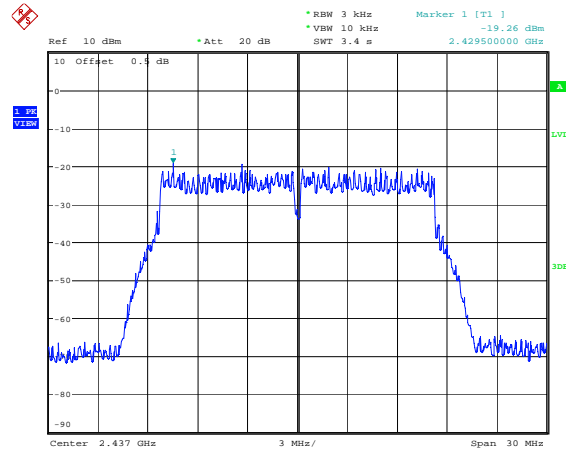
Test mode:

802.11g



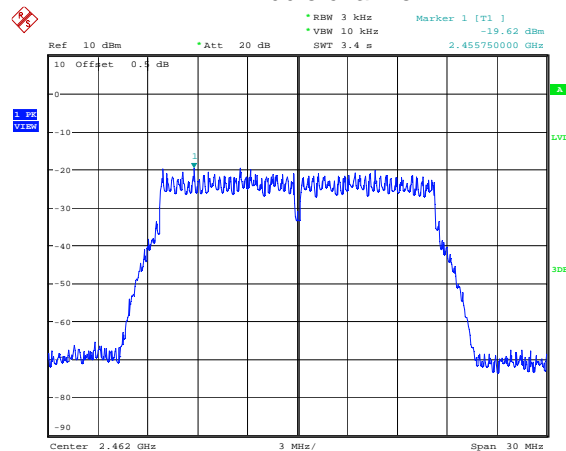
Date: 19.JAN.2015 20:30:03

### Lowest channel



Date: 19.JAN.2015 20:30:43

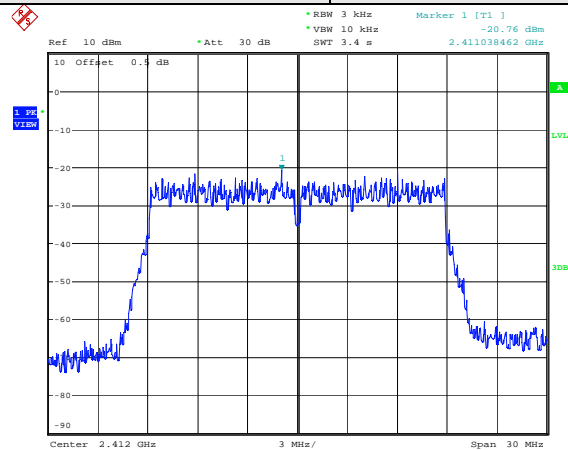
### Middle channel



Date: 19.JAN.2015 20:31:50

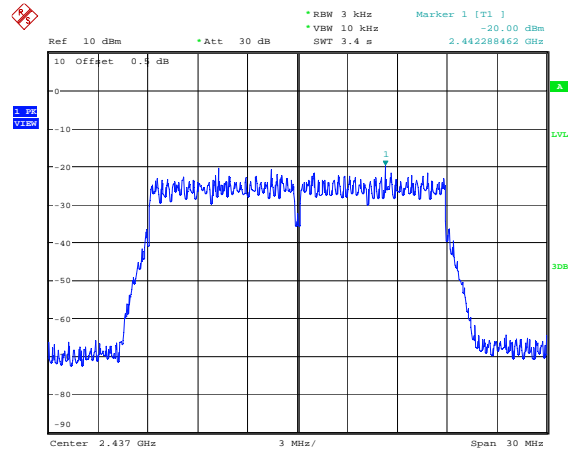
### Highest channel

Test mode:	802.11n(H20)
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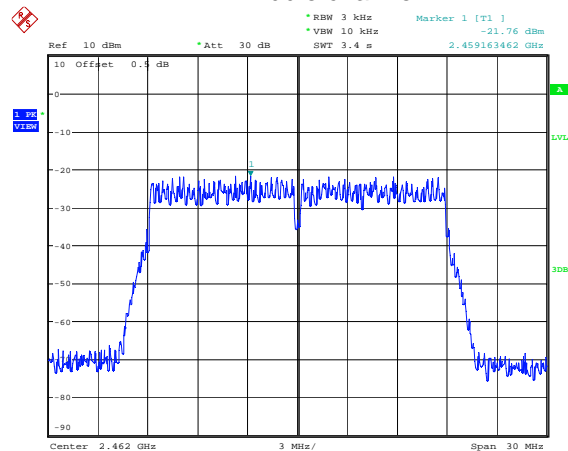
Date: 16.JAN.2015 16:19:06

### Lowest channel



Date: 16.JAN.2015 16:19:59

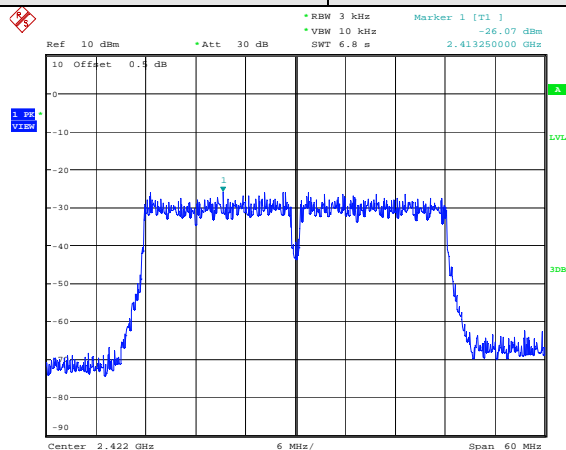
### Middle channel



Date: 16.JAN.2015 16:21:00

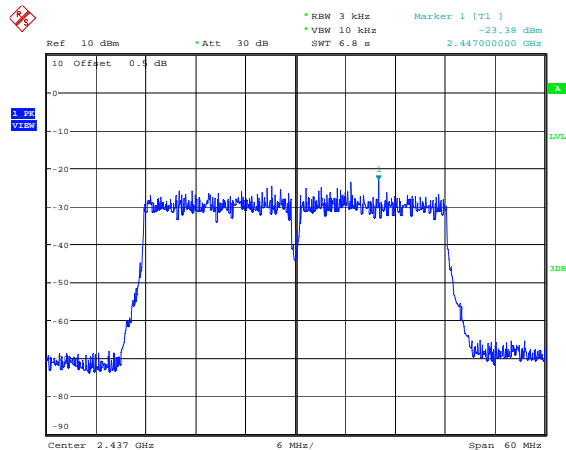
### Highest channel

Test mode:	802.11n(H40)
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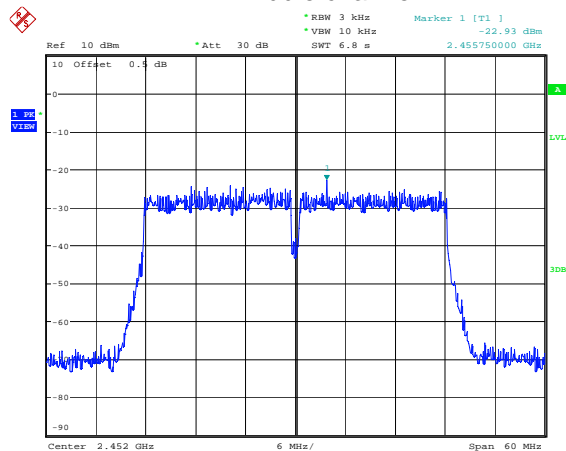
Date: 16.JAN.2015 16:22:11

### Lowest channel



Date: 16.JAN.2015 16:23:25

### Middle channel

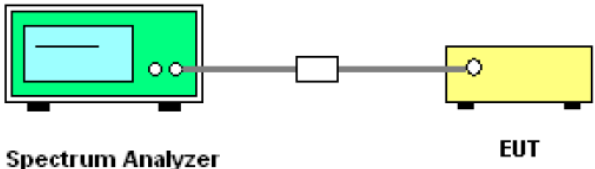


Date: 16.JAN.2015 16:24:09

### Highest channel



## 6.6 Conducted Band Edges and Spurious Emission Measurement

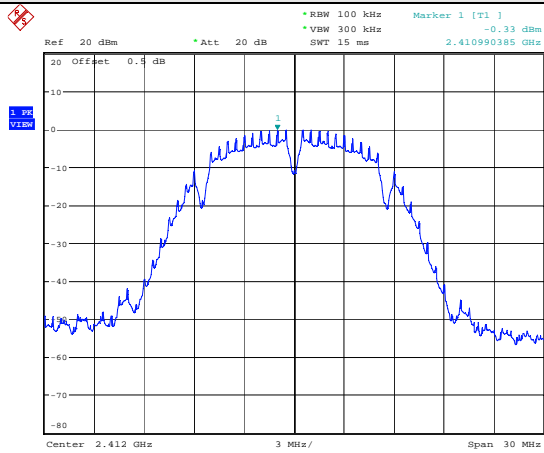
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test setup:	 <p>The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer'. A cable connects it to a small white box labeled 'Attenuator'. Another cable connects the attenuator to a yellow box labeled 'EUT' (Equipment Under Test).</p>
Test Instruments:	Refer to section 4.7 for details
Test procedure:	<ol style="list-style-type: none"> <li>1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.</li> <li>2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>5. Measure and record the results in the test report.</li> <li>6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
Test results:	Passed

Test plot as follows:

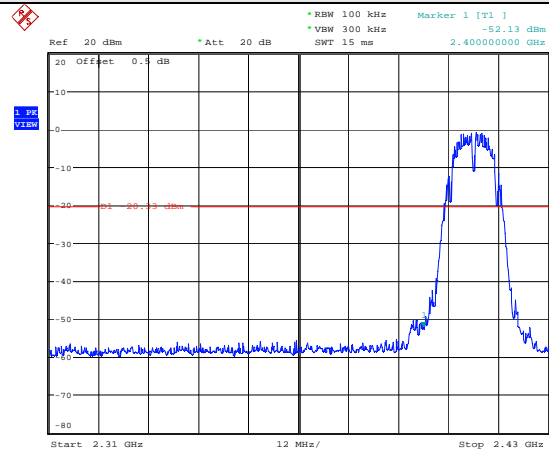
Test mode:

802.11b: Low Channel Plot

100kHz PSD reference Level

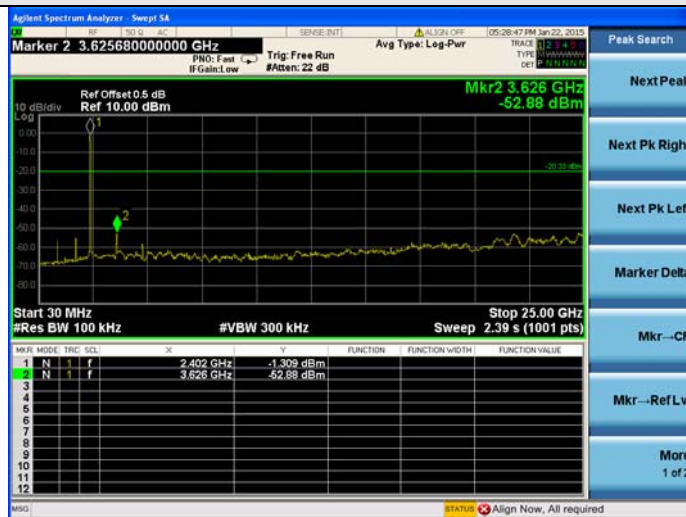


Date: 20.JAN.2015 12:53:40



Date: 20.JAN.2015 13:11:09

Spurious emission

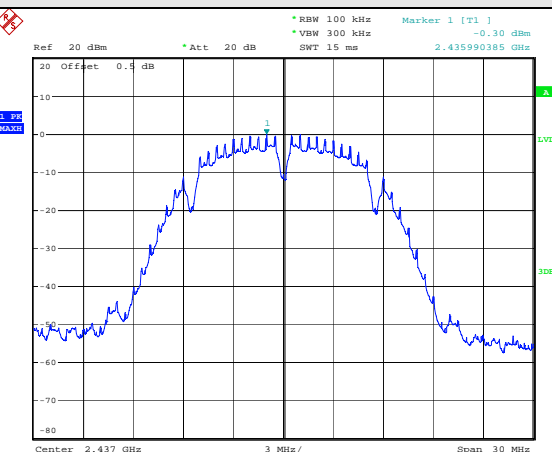


Test mode:

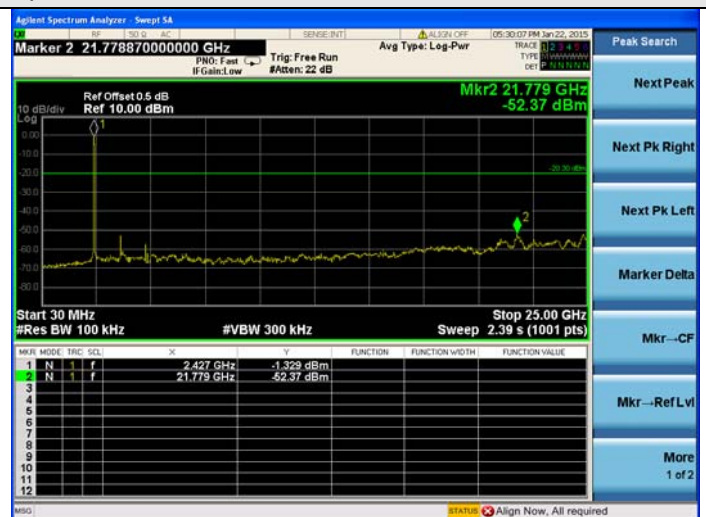
802.11b: Middle Channel Plot

100kHz PSD reference Level

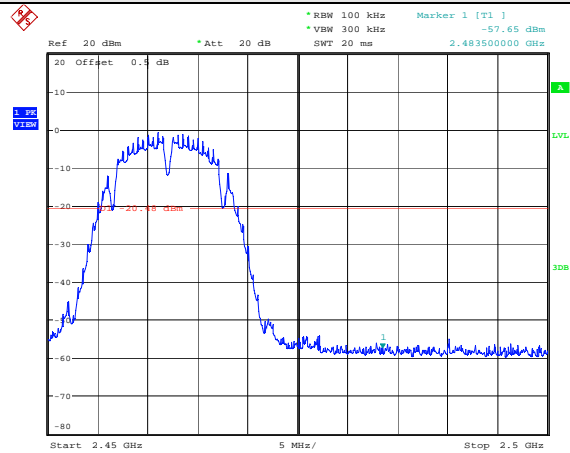
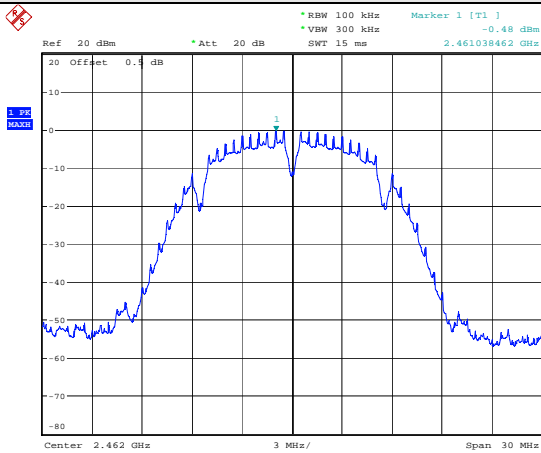
Spurious emission



Date: 20.JAN.2015 12:54:33



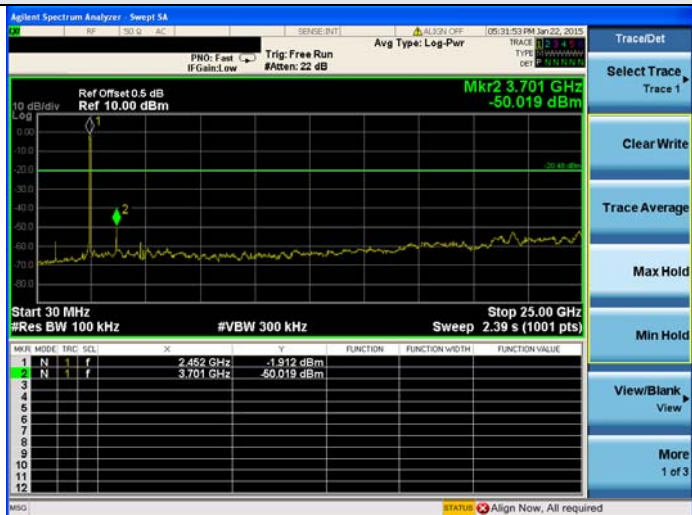
Test mode:	802.11b: High Channel Plot
100kHz PSD reference Level	



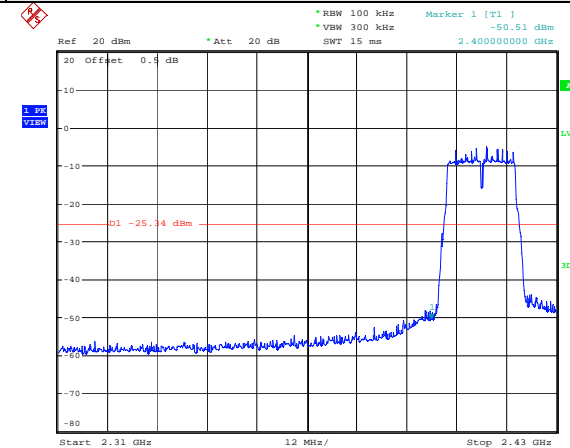
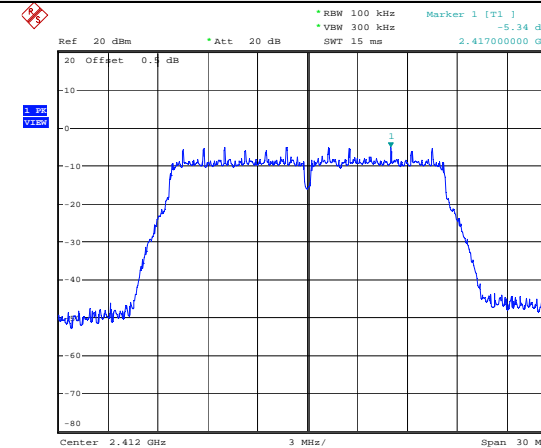
Date: 20.JAN.2015 12:55:48

Date: 20.JAN.2015 13:24:03

Spurious emission	
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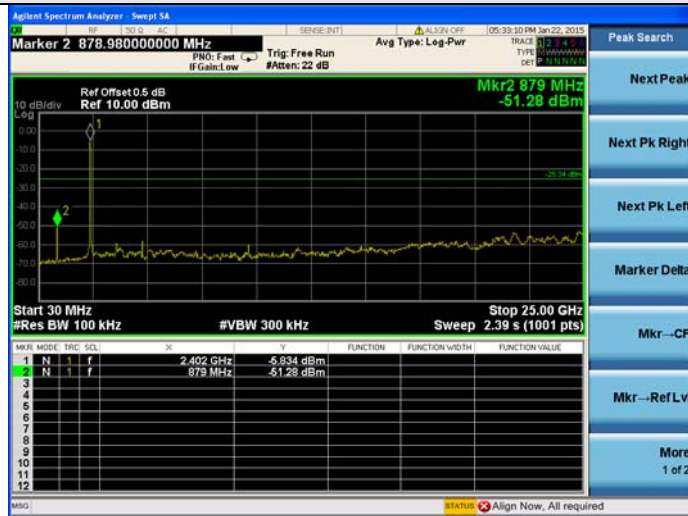
Test mode:	802.11g: Low Channel Plot
100kHz PSD reference Level	



Date: 20.JAN.2015 12:59:26

Date: 20.JAN.2015 13:12:35

Spurious emission

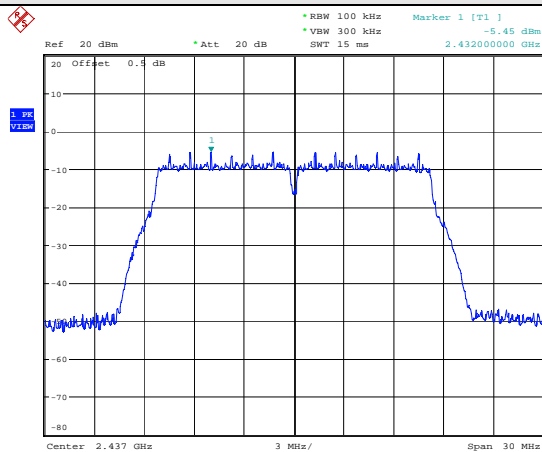


Test mode:

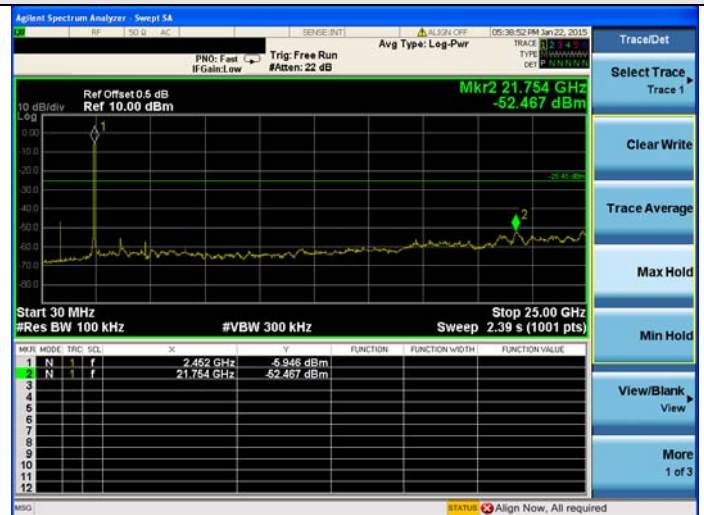
802.11g: Middle Channel Plot

100kHz PSD reference Level

Spurious emission



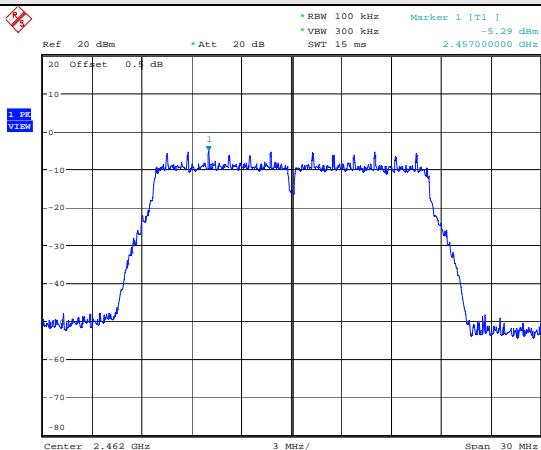
Date: 20.JAN.2015 12:57:40



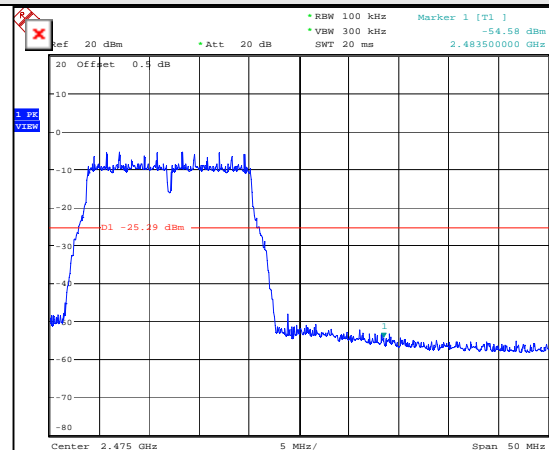
Test mode:

802.11g: High Channel Plot

100kHz PSD reference Level

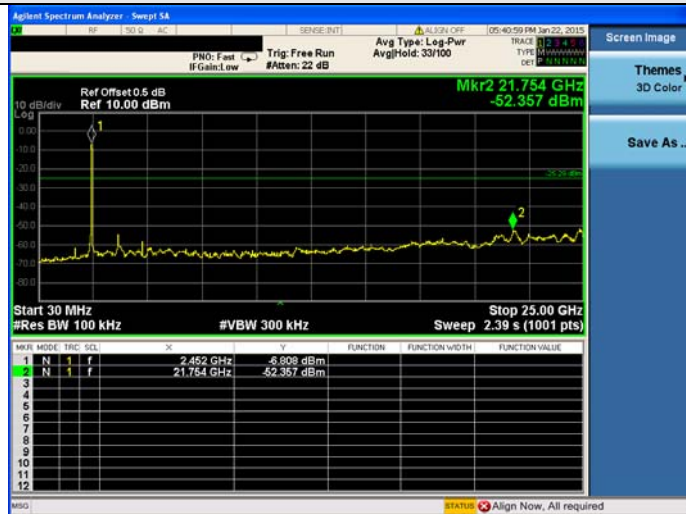


Date: 20.JAN.2015 12:56:53



Date: 20.JAN.2015 13:18:38

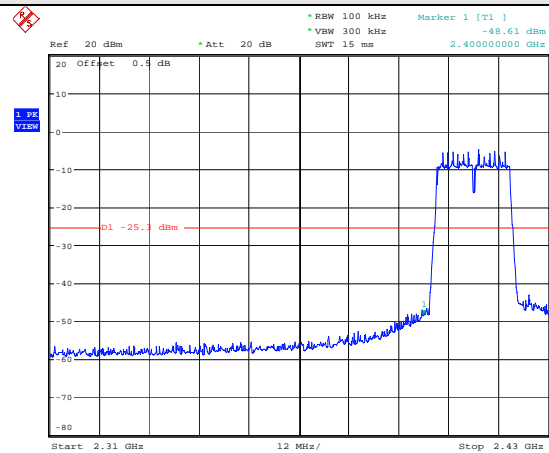
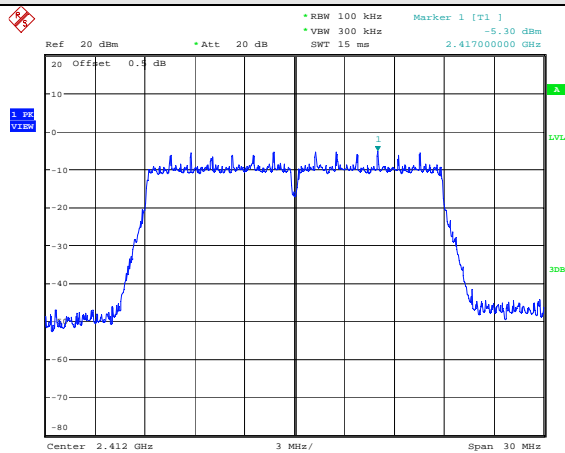
Spurious emission



Test mode:

802.11n(HT20): Low Channel Plot

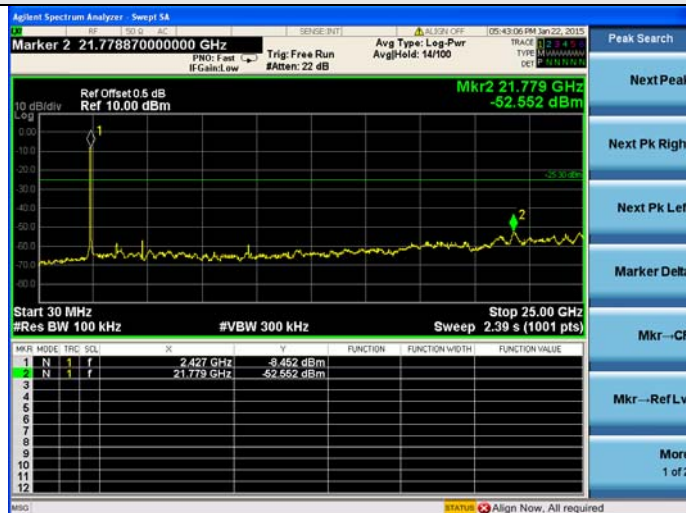
100kHz PSD reference Level



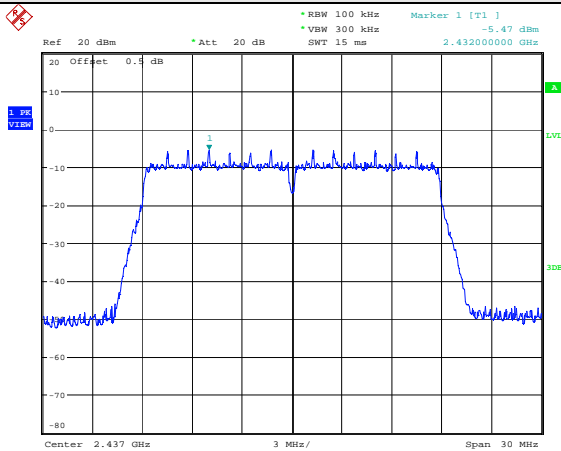
Date: 20.JAN.2015 13:00:22

Date: 20.JAN.2015 13:13:54

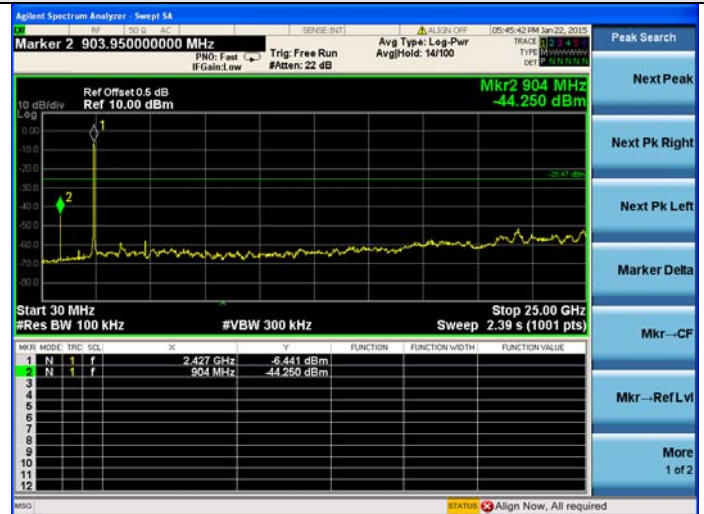
Spurious emission



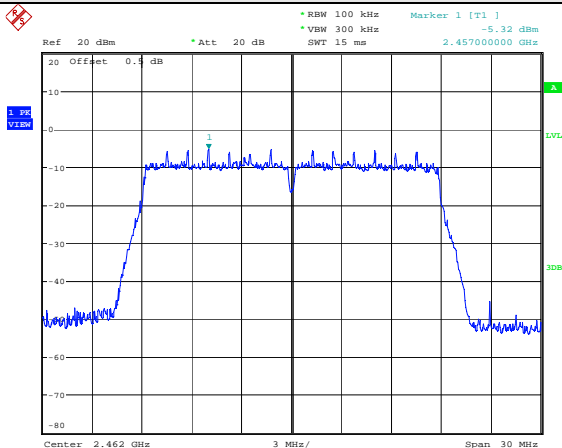
Test mode:	802.11n(HT20): Middle Channel Plot
100kHz PSD reference Level	Spurious emission



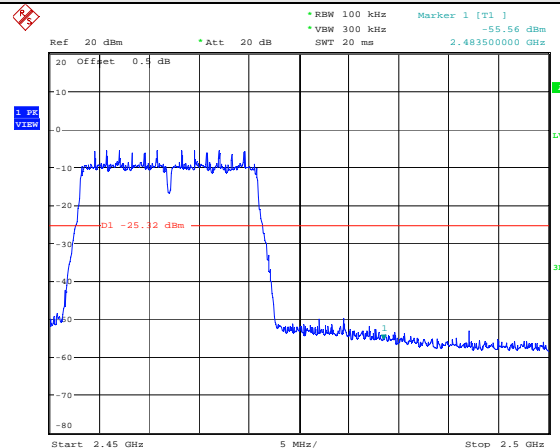
Date: 20.JAN.2015 13:01:05



Test mode:	802.11n(HT20): High Channel Plot
100kHz PSD reference Level	

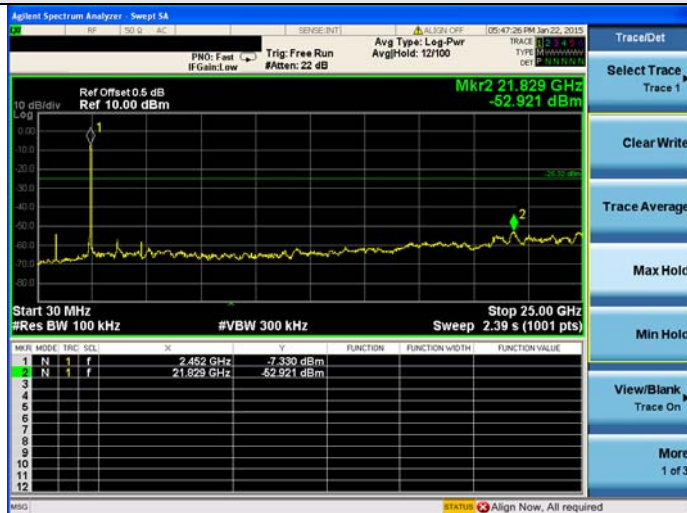


Date: 20.JAN.2015 13:02:25



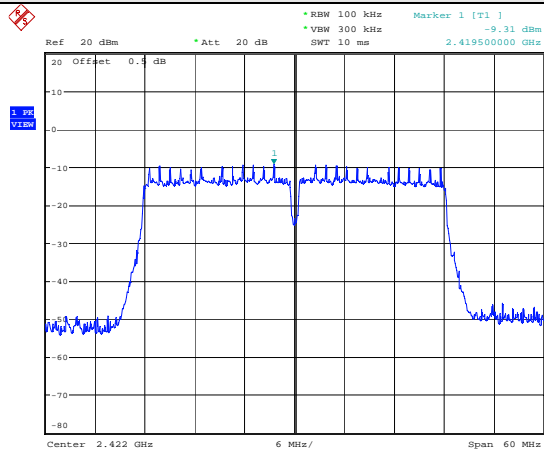
Date: 20.JAN.2015 20:50:49

Spurious emission	
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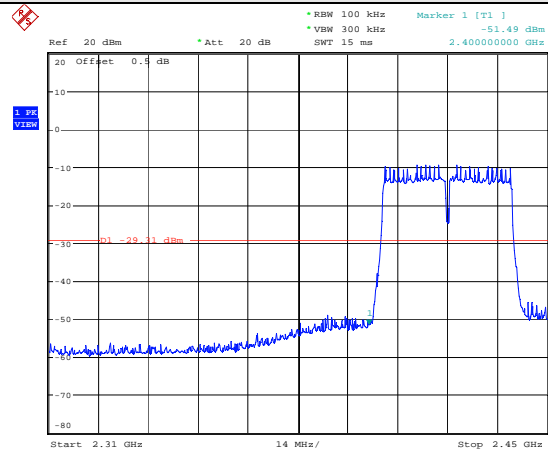




Test mode:	802.11n(HT40): Low Channel Plot
100kHz PSD reference Level	

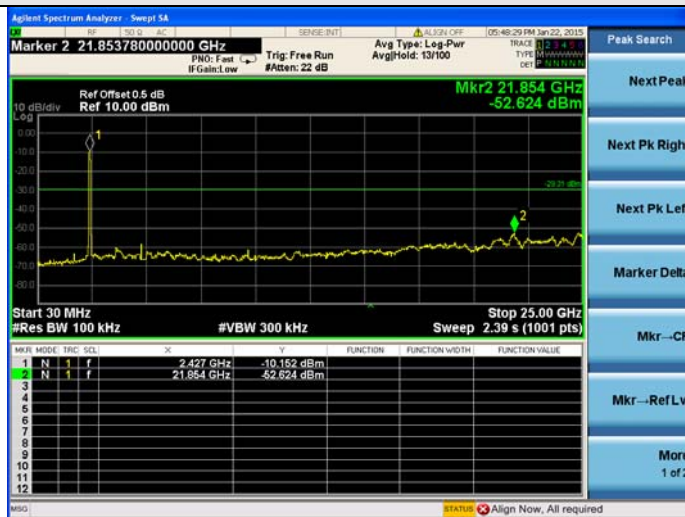


Date: 20.JAN.2015 13:03:36

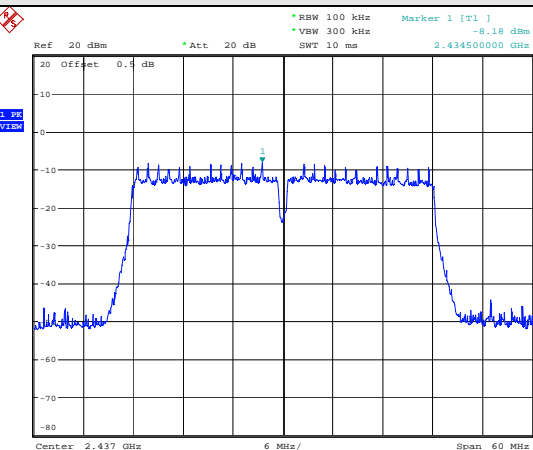


Date: 20.JAN.2015 13:15:13

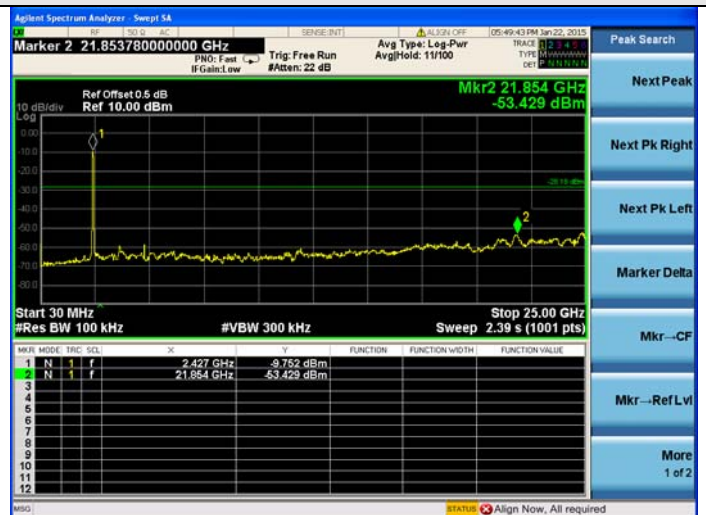
Spurious emission	
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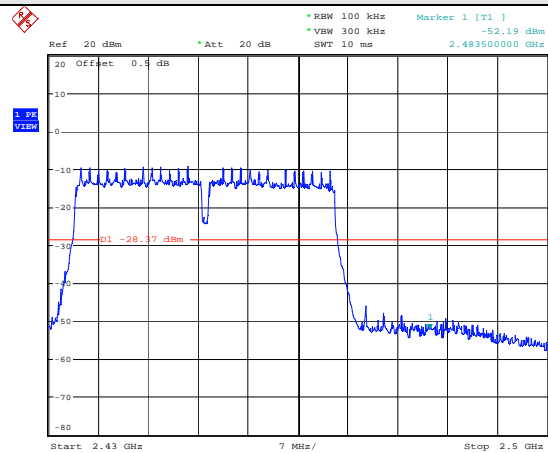
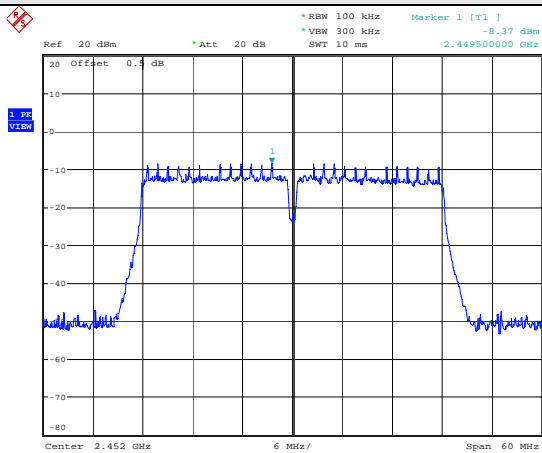
Test mode:	802.11n(HT40): Middle Channel Plot
100kHz PSD reference Level	Spurious emission



Date: 20.JAN.2015 13:06:39



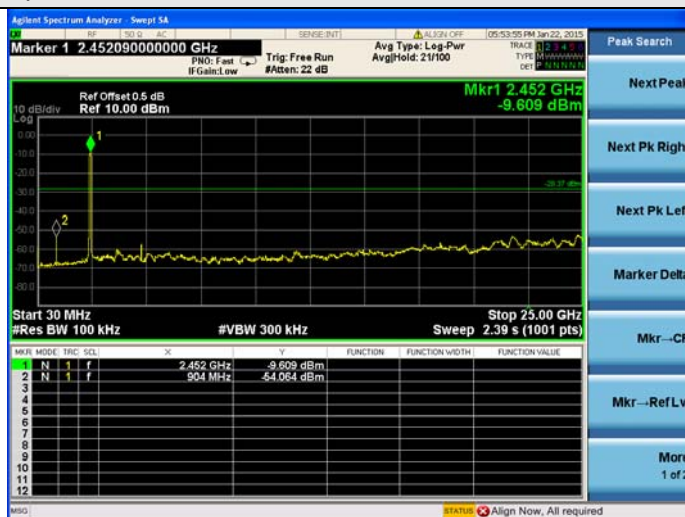
Test mode:	802.11n(HT40): High Channel Plot
100kHz PSD reference Level	



Date: 20.JAN.2015 13:06:03

Date: 20.JAN.2015 13:16:34

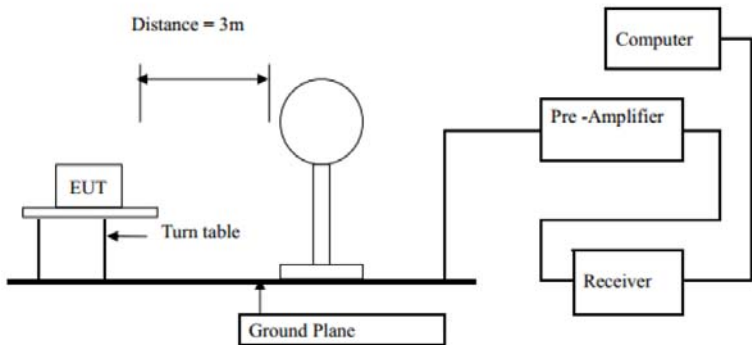
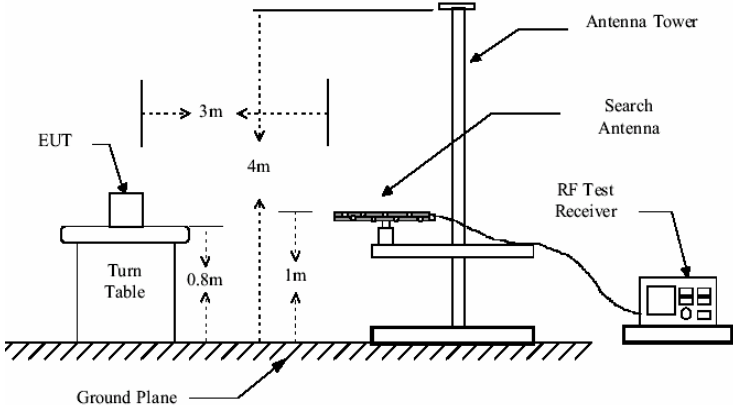
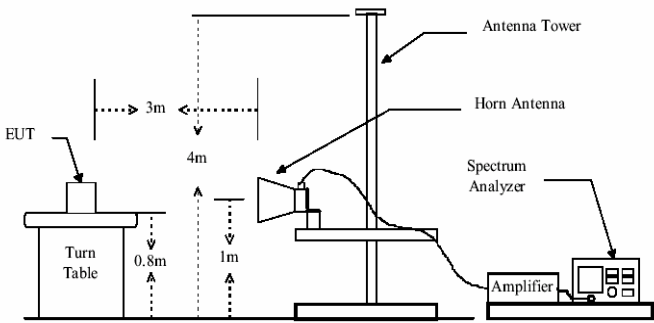
Spurious emission	
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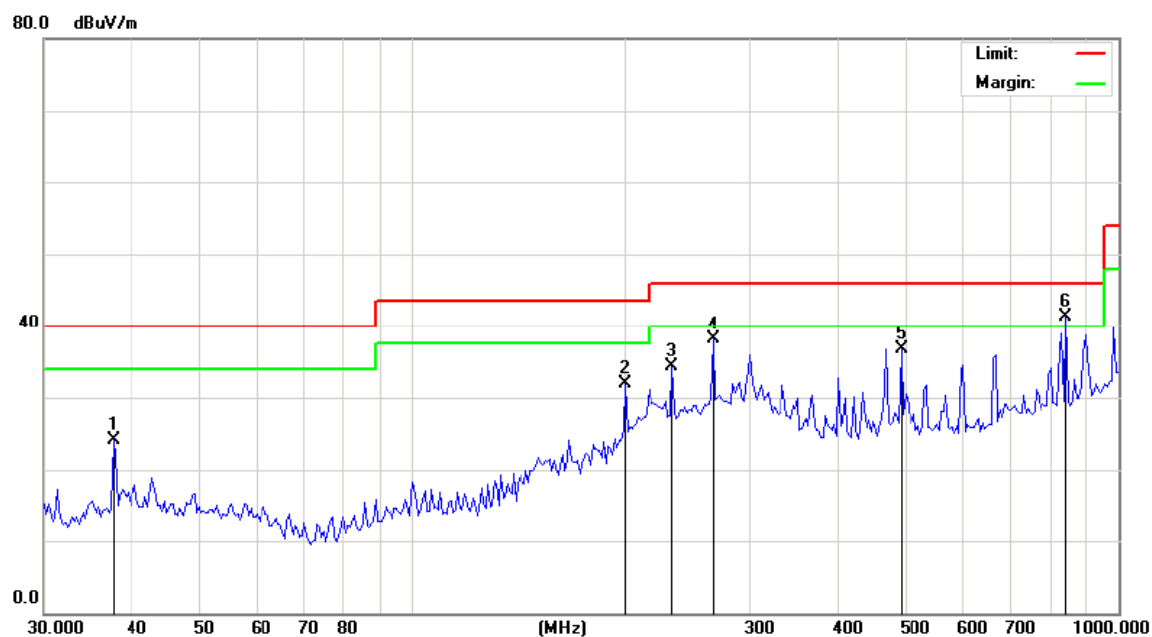
## 6.7 Radiated Band Edges and Spurious Emission Measurement

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	9KHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
			74.0		Peak Value
Test Procedure:	<div>1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.</div> <div>2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.</div> <div>3. The EUT was placed on a turntable with 0.8 meter above ground.</div> <div>4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.</div> <div>5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</div> <div>6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</div> <div>7. Use the following spectrum analyzer settings:<div>(1) Span shall wide enough to fully capture the emission being measured;</div><div>(2) Set RBW=100 kHz for f &lt; 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;</div><div>(3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.</div></div> <div>For average measurement:<div>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</div><div>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</div></div>				

<p>Test setup:</p>	<p>For radiated emissions below 30MHz</p>  <p>30MHz to 1GHz</p>  <p>Above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 4.7for details</p>
<p>Test results:</p>	<p>Passed</p>
<p>Remark:</p>	<ol style="list-style-type: none"> <li>1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>2. 9 kHz to 30MHz is too low, the emission levels are 20 dB below the limit value, so only shows the data of above 30MHz in this report.</li> <li>3. Above 13G the signal is too low, which is much less than the limit, no necessary take down the records</li> </ol>

**Below 1GHz**

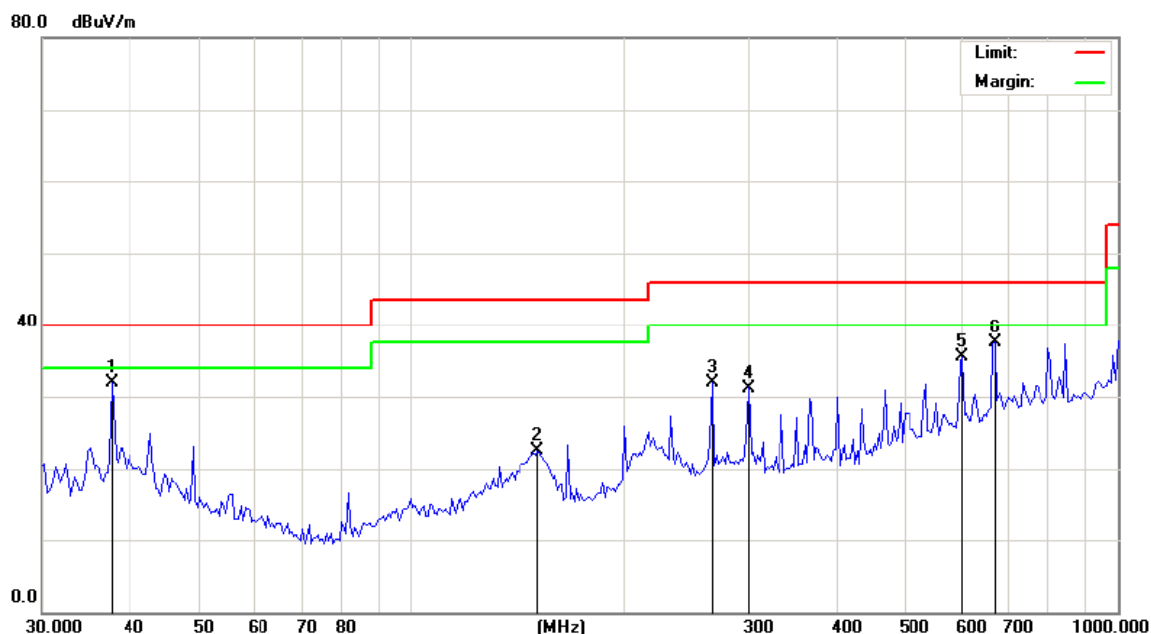
Horizontal :



Site: Polarization: **Horizontal** Temperature: 23  
Limit: FCC Part 15B Class B RE\_3 m Power: Humidity: 52 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		37.5648	36.89	-12.78	24.11	40.00	-15.89	peak	0	
2		200.0432	43.51	-11.67	31.84	43.50	-11.66	peak	0	
3		233.4881	44.91	-10.53	34.38	46.00	-11.62	peak	0	
4		266.8395	47.40	-9.38	38.02	46.00	-7.98	peak	0	
5		491.7700	40.02	-3.24	36.78	46.00	-9.22	peak	0	
6	*	844.8028	39.21	2.00	41.21	46.00	-4.79	peak	0	

Vertical :



Site: Polarization: **Vertical** Temperature: 23  
Limit: FCC Part 15B Class B RE\_3 m Power: Humidity: 52 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	37.5648	44.69	-12.78	31.91	40.00	-8.09	peak	0	
2		151.0252	37.58	-15.07	22.51	43.50	-20.99	peak	0	
3		266.8395	41.27	-9.38	31.89	46.00	-14.11	peak	0	
4		300.6988	39.45	-8.25	31.20	46.00	-14.80	peak	0	
5		602.9287	37.34	-1.87	35.47	46.00	-10.53	peak	0	
6		669.9523	38.04	-0.49	37.55	46.00	-8.45	peak	0	

Note: Measurements were conducted in all three channels (high, middle, low), and the worst case (high channel) was submitted only.

**Above 1GHz**

IEEE 802.11b mode: Low channel: 2412 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
2387.01	H	70.68	---	-4.20	66.48	---	74.00	54.00	-7.52
2387.01	H	---	52.59	-4.20	---	48.39	74.00	54.00	-5.61
4824.00	H	49.71	---	-3.94	45.77	---	74.00	54.00	-8.23
7236.00	H	46.03	---	0.52	46.55	---	74.00	54.00	-7.45
---	---	---	---	---	---	---	---	---	---
2387.01	V	70.56	---	-4.20	66.36	---	74.00	54.00	-7.64
2387.01	V	---	51.08	-4.20	---	46.88	74.00	54.00	-7.12
4824.00	V	49.76	---	-3.94	45.82	---	74.00	54.00	-8.18
7236.00	V	45.70	---	0.52	46.22	---	74.00	54.00	-7.78
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IEEE 802.11b mode: Middle channel: 2437 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4874.00	H	49.82	---	-3.98	45.84	---	74.00	54.00	-8.16
7311.00	H	46.03	---	0.57	46.60	---	74.00	54.00	-7.40
---	---	---	---	---	---	---	---	---	---
4874.00	V	51.01	---	-3.98	47.03	---	74.00	54.00	-6.97
7311.00	V	46.23	---	0.57	46.80	---	74.00	54.00	-7.20
---	---	---	---	---	---	---	---	---	---

IEEE 802.11b mode: High channel: 2462 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
2493.51	H	69.13	---	-2.38	66.75	---	74.00	54.00	-7.25
2493.51	H	---	50.45	-2.38	---	48.07	74.00	54.00	-5.93
4924.00	H	51.60	---	-3.98	47.62	---	74.00	54.00	-6.38
7386.00	H	46.75	---	0.57	47.32	---	74.00	54.00	-6.68
---	---	---	---	---	---	---	---	---	---
2493.51	H	69.78	---	-2.38	67.40	---	74.00	54.00	-6.60
2493.51	H	---	50.34	-2.38	---	47.96	74.00	54.00	-6.04
4924.00	V	51.15	---	-3.98	47.17	---	74.00	54.00	-6.83
7386.00	V	46.55	---	0.57	47.12	---	74.00	54.00	-6.88
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- Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.  
2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.  
3) Average test would be performed if the peak readings were greater than the average limit.  
4) Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.  
5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier  
6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

IEEE 802.11g mode: Low channel: 2412 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
2387.01	H	70.37	---	-4.20	66.17	---	74.00	54.00	-7.83
2387.01	H	---	52.11	-4.20	---	47.91	74.00	54.00	-6.09
4824.00	H	49.32	---	-3.94	45.38	---	74.00	54.00	-8.62
7236.00	H	45.46	---	0.52	45.98	---	74.00	54.00	-8.02
---	---	---	---	---	---	---	---	---	---
2387.01	V	70.21	---	-4.20	66.01	---	74.00	54.00	-7.99
2387.01	V	---	50.68	-4.20	---	46.48	74.00	54.00	-7.52
4824.00	V	49.43	---	-3.94	45.49	---	74.00	54.00	-8.51
7236.00	V	45.25	---	0.52	45.77	---	74.00	54.00	-8.23
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IEEE 802.11g mode: Middle channel: 2437 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4874.00	H	49.49	---	-3.98	45.51	---	74.00	54.00	-8.49
7311.00	H	45.72	---	0.57	46.29	---	74.00	54.00	-7.71
---	---	---	---	---	---	---	---	---	---
4874.00	V	50.56	---	-3.98	46.58	---	74.00	54.00	-7.42
7311.00	V	45.87	---	0.57	46.44	---	74.00	54.00	-7.56
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IEEE 802.11g mode: High channel: 2462 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
2493.51	H	68.78	---	-2.38	66.40	---	74.00	54.00	-7.60
2493.51	H	---	50.04	-2.38	---	47.66	74.00	54.00	-6.34
4924.00	H	51.12	---	-3.98	47.14	---	74.00	54.00	-6.86
7386.00	H	46.23	---	0.57	46.80	---	74.00	54.00	-7.20
---	---	---	---	---	---	---	---	---	---
2493.51	H	69.39	---	-2.38	67.01	---	74.00	54.00	-6.99
2493.51	H	---	49.92	-2.38	---	47.54	74.00	54.00	-6.46
4924.00	V	50.81	---	-3.98	46.83	---	74.00	54.00	-7.17
7386.00	V	46.04	---	0.57	46.61	---	74.00	54.00	-7.39
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- Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.  
2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.  
3) Average test would be performed if the peak readings were greater than the average limit.  
4) Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.  
5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier  
6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

IEEE 802.11n(HT20) mode: Low channel: 2412 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
2387.01	H	70.25	---	-4.20	66.05	---	74.00	54.00	-7.95
2387.01	H	---	52.10	-4.20	---	47.90	74.00	54.00	-6.10
4824.00	H	49.22	---	-3.94	45.28	---	74.00	54.00	-8.72
7236.00	H	45.40	---	0.52	45.92	---	74.00	54.00	-8.08
---	---	---	---	---	---	---	---	---	---
2387.01	V	70.08	---	-4.20	65.88	---	74.00	54.00	-8.12
2387.01	V	---	50.53	-4.20	---	46.33	74.00	54.00	-7.67
4824.00	V	49.29	---	-3.94	45.35	---	74.00	54.00	-8.65
7236.00	V	45.31	---	0.52	45.83	---	74.00	54.00	-8.17
---	---	---	---	---	---	---	---	---	---

IEEE 802.11n(HT20) mode: Middle channel: 2437 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4874.00	H	49.35	---	-3.98	45.37	---	74.00	54.00	-8.63
7311.00	H	45.60	---	0.57	46.17	---	74.00	54.00	-7.83
---	---	---	---	---	---	---	---	---	---
4874.00	V	50.43	---	-3.98	46.45	---	74.00	54.00	-7.55
7311.00	V	45.81	---	0.57	46.38	---	74.00	54.00	-7.62
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IEEE 802.11n(HT20) mode: High channel: 2462 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
2493.51	H	68.64	---	-2.38	66.26	---	74.00	54.00	-7.74
2493.51	H	---	49.99	-2.38	---	47.61	74.00	54.00	-6.39
4924.00	H	51.05	---	-3.98	47.07	---	74.00	54.00	-6.93
7386.00	H	46.20	---	0.57	46.77	---	74.00	54.00	-7.23
---	---	---	---	---	---	---	---	---	---
2493.51	H	69.25	---	-2.38	66.87	---	74.00	54.00	-7.13
2493.51	H	---	49.90	-2.38	---	47.52	74.00	54.00	-6.48
4924.00	V	50.62	---	-3.98	46.64	---	74.00	54.00	-7.36
7386.00	V	46.03	---	0.57	46.60	---	74.00	54.00	-7.40
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- Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.  
2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.  
3) Average test would be performed if the peak readings were greater than the average limit.  
4) Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.  
5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier  
6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

IEEE 802.11n(HT40) mode: Low channel: 2422 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
2387.01	H	70.38	---	-4.20	66.18	---	74.00	54.00	-7.82
2387.01	H	---	52.31	-4.20	---	48.11	74.00	54.00	-5.89
4844.00	H	50.16	---	-3.94	46.22	---	74.00	54.00	-7.78
7266.00	H	46.23	---	0.52	46.75	---	74.00	54.00	-7.25
---	---	---	---	---	--3-	---	---	---	---
2387.01	V	70.26	---	-4.20	66.06	---	74.00	54.00	-7.94
2387.01	V	---	51.17	-4.20	---	46.97	74.00	54.00	-7.03
4844.00	V	50.37	---	-3.94	46.43	---	74.00	54.00	-7.57
7266.00	V	45.65	---	0.52	46.17	---	74.00	54.00	-7.83
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IEEE 802.11n(HT40) mode: Middle channel: 2437 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4874.00	H	51.00	---	-3.98	47.02	---	74.00	54.00	-6.98
7311.00	H	46.83	---	0.57	47.40	---	74.00	54.00	-6.60
---	---	---	---	---	---	---	---	---	---
4874.00	V	50.31	---	-3.98	46.33	---	74.00	54.00	-7.67
7311.00	V	46.03	---	0.57	46.60	---	74.00	54.00	-7.40
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IEEE 802.11n(H40) mode: High channel: 2452 MHz									
Freq. (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB)	Emission Level		Peak limit (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
2493.51	H	70.35	---	-2.38	67.97	---	74.00	54.00	-6.03
2493.51	H	---	50.50	-2.38	---	48.12	74.00	54.00	-5.88
4904.00	H	51.57	---	-3.98	47.59	---	74.00	54.00	-6.41
7356.00	H	46.84	---	0.57	47.41	---	74.00	54.00	-6.59
---	---	---	---	---	---	---	---	---	---
2493.51	H	70.94	---	-2.38	68.56	---	74.00	54.00	-5.44
2493.51	H	---	49.93	-2.38	---	47.55	74.00	54.00	-6.45
4904.00	V	51.21	---	-3.98	47.23	---	74.00	54.00	-6.77
7356.00	V	46.71	---	0.57	47.28	---	74.00	54.00	-6.72
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- Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.  
2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.  
3) Average test would be performed if the peak readings were greater than the average limit.  
4) Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.  
5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier  
6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

-----End of report-----