APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Trimax Digital Limited

SMART TV BOX
Model No.: U001, A818

FCC ID: 2ABAO-U001

Prepared for	:	Trimax Digital Limited
Address	:	Room 1016-1019, 10F, Max Smart Commercial Centre, No. 21 Baoxing Road, Bao'an District,Shenzhen, Guangdong Province, China
Prepared by	:	ACCURATE TECHNOLOGY CO., LTD
Address	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China Tel: (0755) 26503290 Fax: (0755) 26503396

Report Number	:	ATE20132586
Date of Test	:	Nov 30, 2013-Jan 03,2014
Date of Report	:	Jan 04,2014

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Description Page

Test Report Certification

Applicant **:** Trimax Digital Limited

Manufacturer **:** Trimax Digital Limited

EUT Description **:** SMART TV BOX

(A) MODEL NO.: U001,A818

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 5V (Power by Adapter)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2009

The EUT was tested according to DTS test procedure of April 09, 2013 KDB558074 D01 DTS Meas Guidance v03 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : Nov 30, 2013-Jan 03,2014

Prepared by :

(Engineer)

Approved & Authorized Signer :

(Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	SMART TV BOX
Model Number	:	U001,A818 Note: These samples are same except for the model number is difference. So we prepare the U001 for test
Frequency Range	:	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Number of Channels	:	802.11b/g/n (20MHz):11 802.11n (40MHz): 7
Antenna Gain	:	4.09dBi
Power Supply	:	DC 5V (Power by adapter)
Adapter	:	Model number: FEF0500200A1BU Input: AC 100-240V; 50/60Hz 0.3A Output: DC 5V/2.0A USB line: Non-shielded, Non-detachable, 1.5m
Data Rate	:	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 150Mbps
Applicant	:	Trimax Digital Limited
Address	:	Room 1016-1019, 10F, Max Smart Commercial Centre, No. 21 Baoxing Road, Bao'an District，Shenzhen, Guangdong Province，China
Manufacturer	:	Trimax Digital Limited
Address	:	Room 1016-1019, 10F, Max Smart Commercial Centre, No. 21 Baoxing Road, Bao'an District，Shenzhen, Guangdong Province，China
Date of sample received	:	Nov 30, 2013
Date of Test	:	Nov 30, 2013-Jan 03,2014

1.2.Carrier Frequency of Channels

802.11b, 802.11g, 802.11n (20MHz)

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

802.11n (40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---

1.3.Special Accessory and Auxiliary Equipment

n.a.

1.4.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2013	Jan. 11, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2013	Jan. 11, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2013	Jan. 11, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 12, 2013	Jan. 11, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2013	Feb. 05, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Feb. 06, 2013	Feb. 05, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014
Highpass Filter	Wainwright Instruments	WHKX3.6/18G-10SS	N/A	Jan. 12, 2013	Jan. 11, 2014
Band Reject Filter	Wainwright Instruments	WRCG2400/2485-2375/2510-60/11SS	N/A	Jan. 12, 2013	Jan. 11, 2014

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **1.802.11b Transmitting mode**

Low Channel: 2412MHz
Middle Channel: 2437MHz
High Channel: 2462MHz

2.802.11g Transmitting mode

Low Channel: 2412MHz
Middle Channel: 2437MHz
High Channel: 2462MHz

3.802.11n (20MHz) Transmitting mode

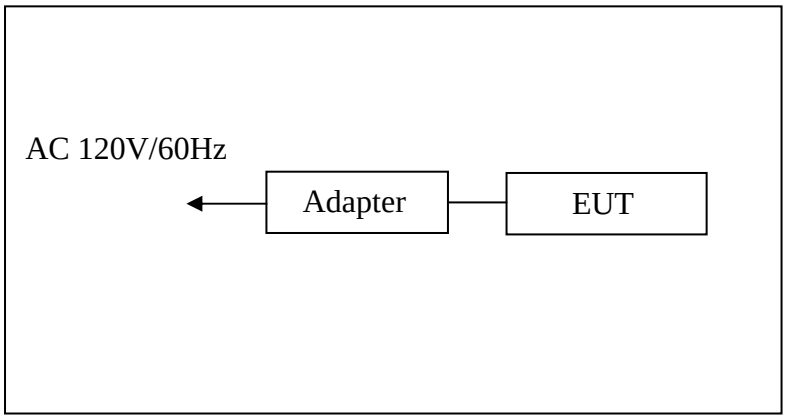
Low Channel: 2412MHz
Middle Channel: 2437MHz
High Channel: 2462MHz

4.802.11n (40MHz) Transmitting mode

Low Channel: 2422MHz
Middle Channel: 2437MHz
High Channel: 2452MHz

5. Charging

3.2.Configuration and peripherals

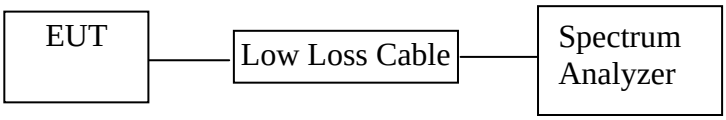


4. TEST PROCEDURES AND RESULTS

FCC Rules	**Description of Test**	**Result**
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 6DB BANDWIDTH MEASUREMENT

5.1.Block Diagram of Test Setup



5.2.The Requirement For Section 15.247(a)(2)

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

5.3.EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

5.5.Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.6.Test Result

The test was performed with 802.11b			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	10.16	> 0.5MHz
Middle	2437	10.16	> 0.5MHz
High	2462	10.12	> 0.5MHz

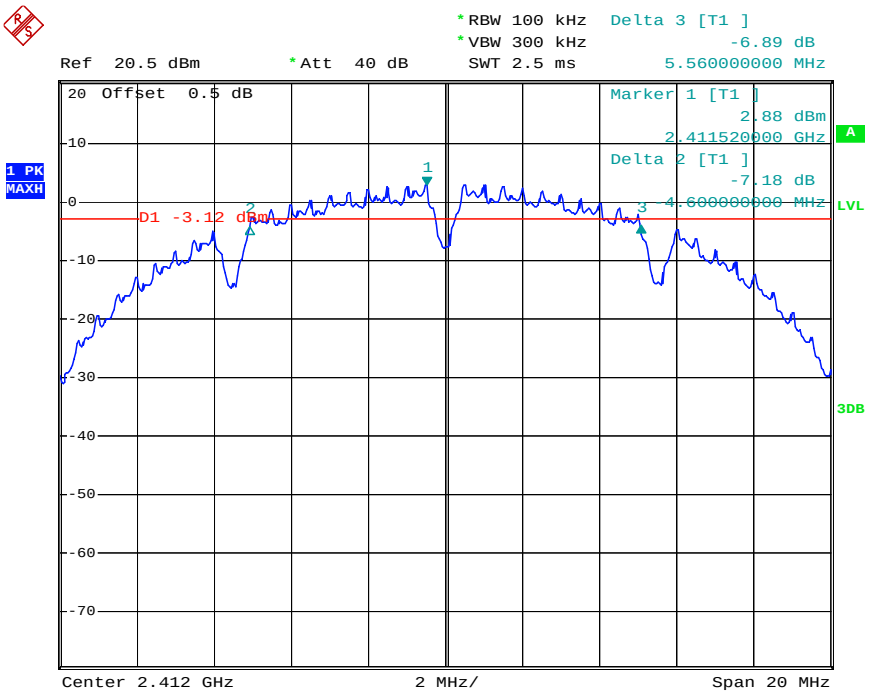
The test was performed with 802.11g			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.60	> 0.5MHz
Middle	2437	16.60	> 0.5MHz
High	2462	16.60	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 20 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.88	> 0.5MHz
Middle	2437	17.88	> 0.5MHz
High	2462	17.88	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 40 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2422	36.56	> 0.5MHz
Middle	2437	36.56	> 0.5MHz
High	2452	36.56	> 0.5MHz

The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



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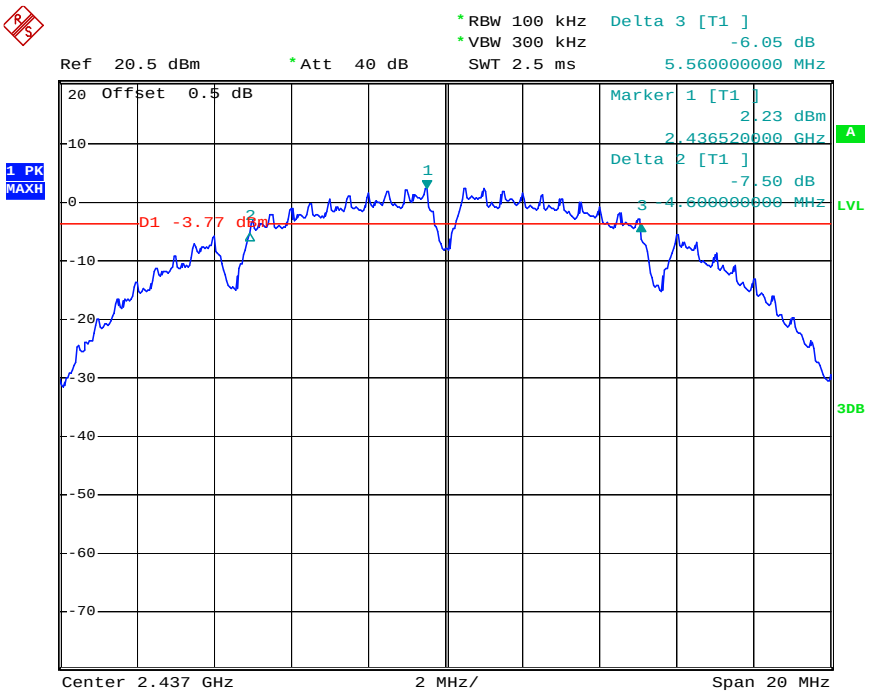
802.11b Channel Middle 2437MHz



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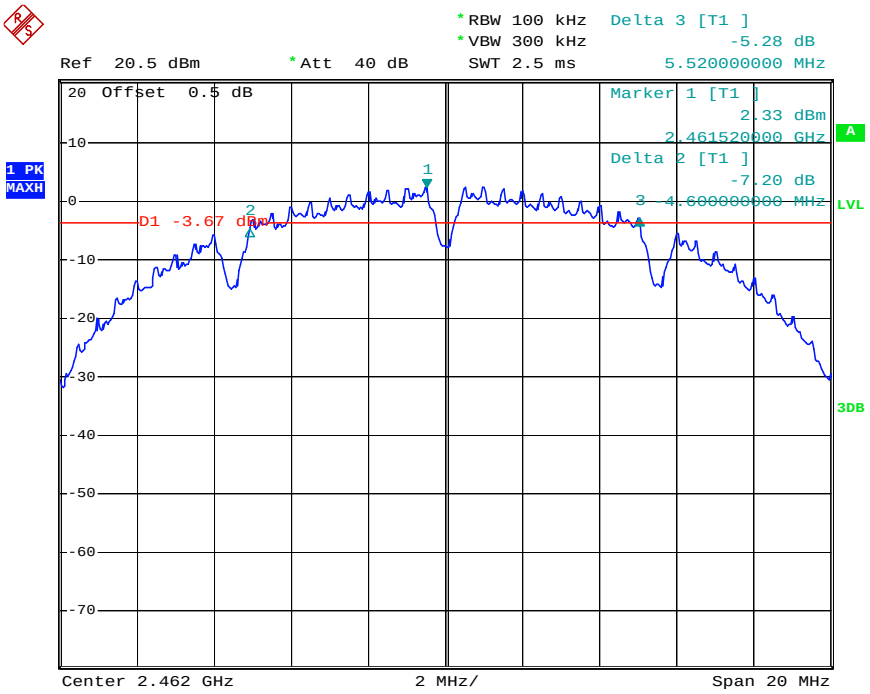
802.11b Channel High 2462MHz



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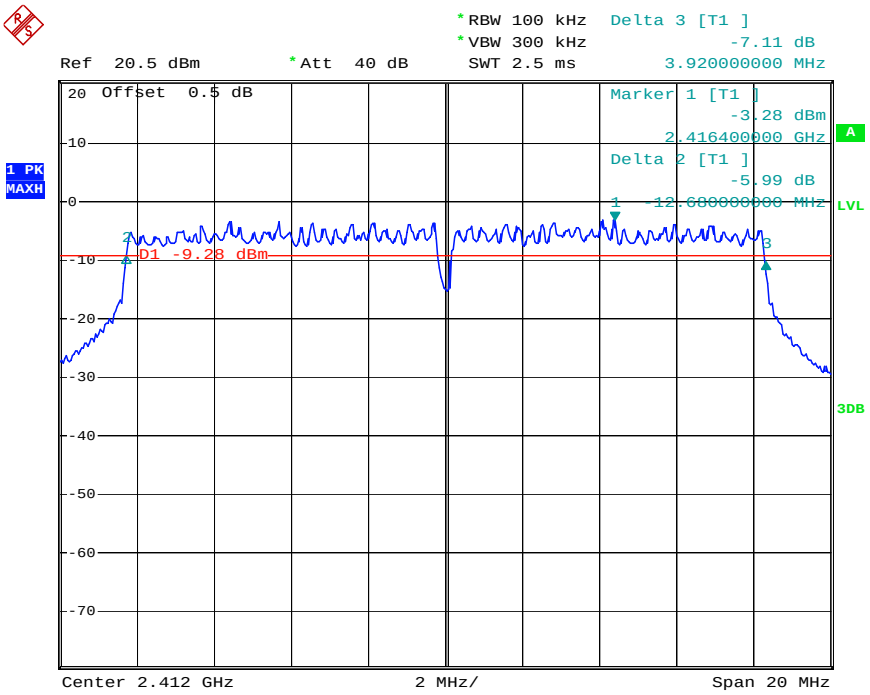
802.11g Channel Low 2412MHz



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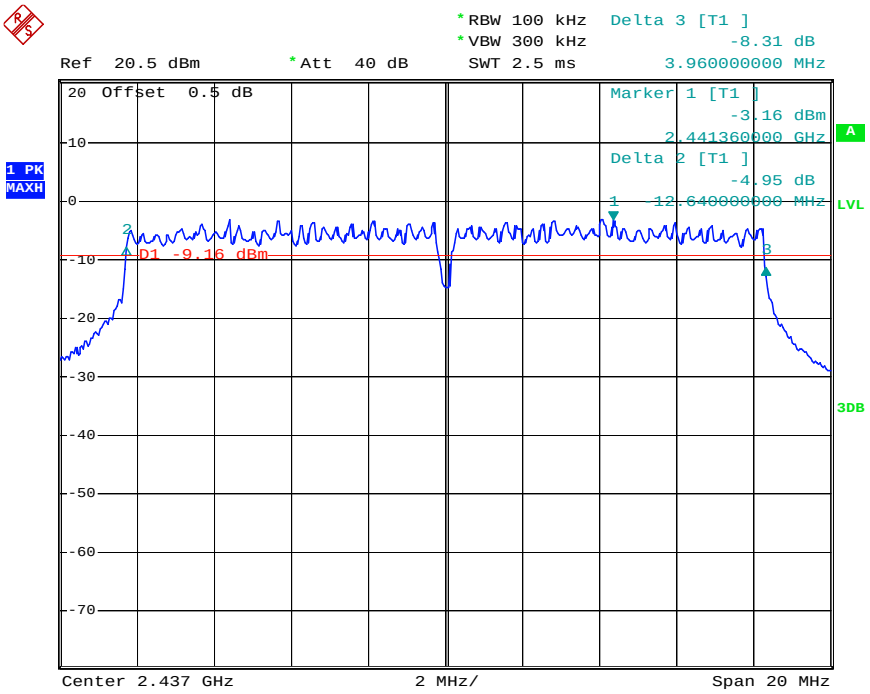
802.11g Channel Middle 2437MHz



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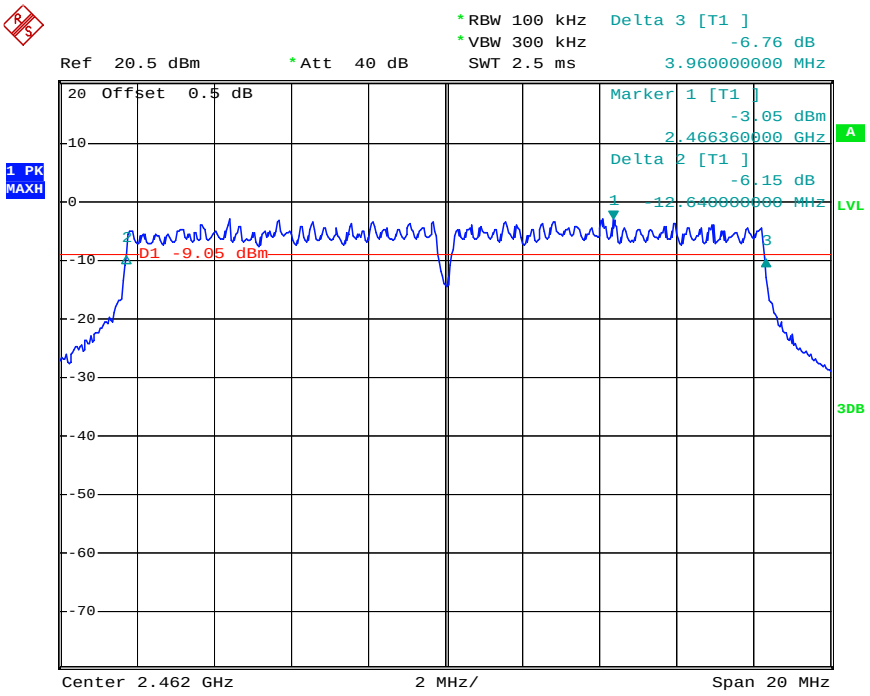
802.11g Channel High 2462MHz



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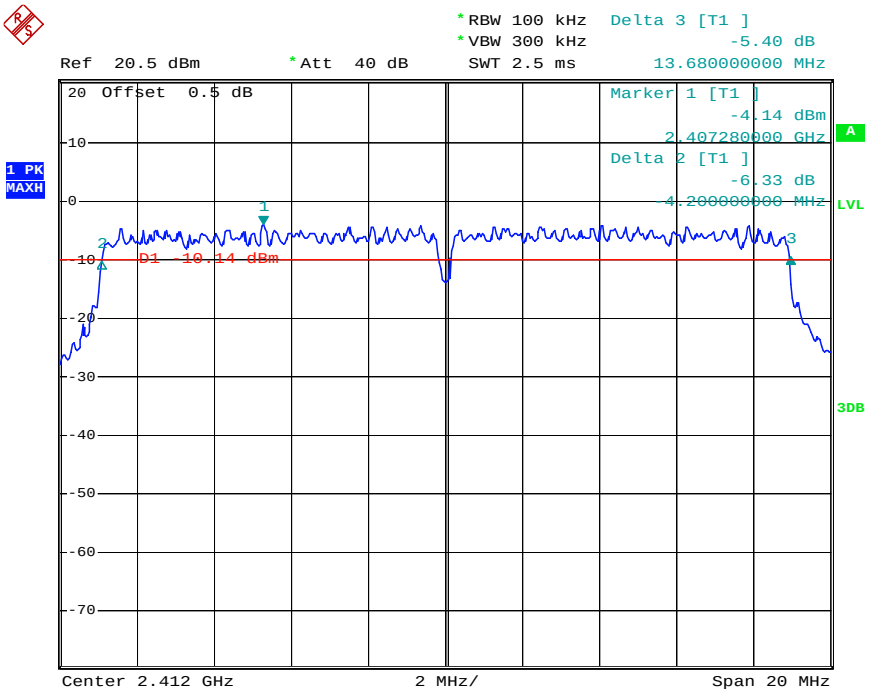
802.11n Channel Low 2412MHz (20MHz)



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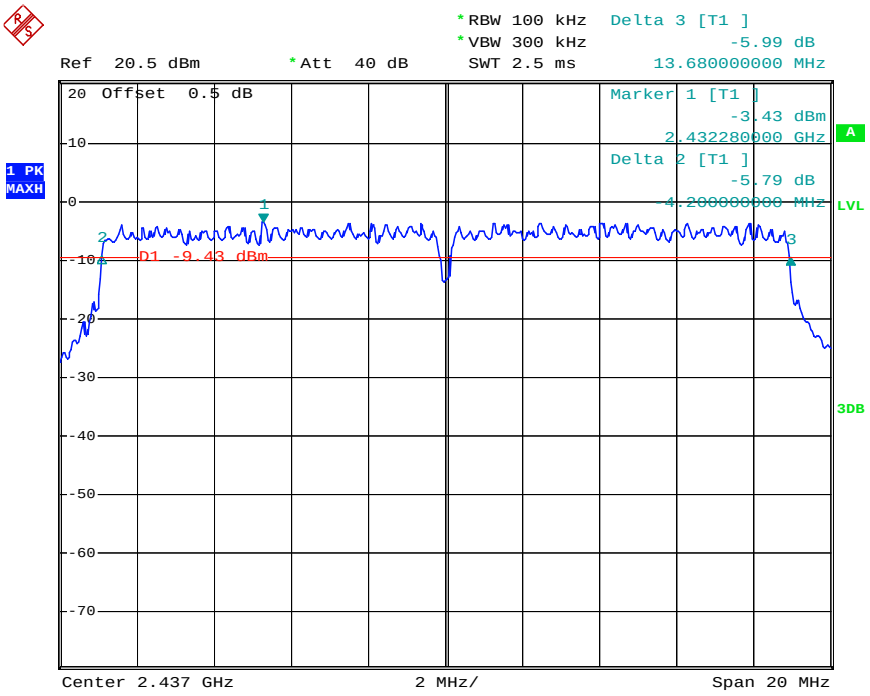
802.11n Channel Middle 2437MHz(20MHz)



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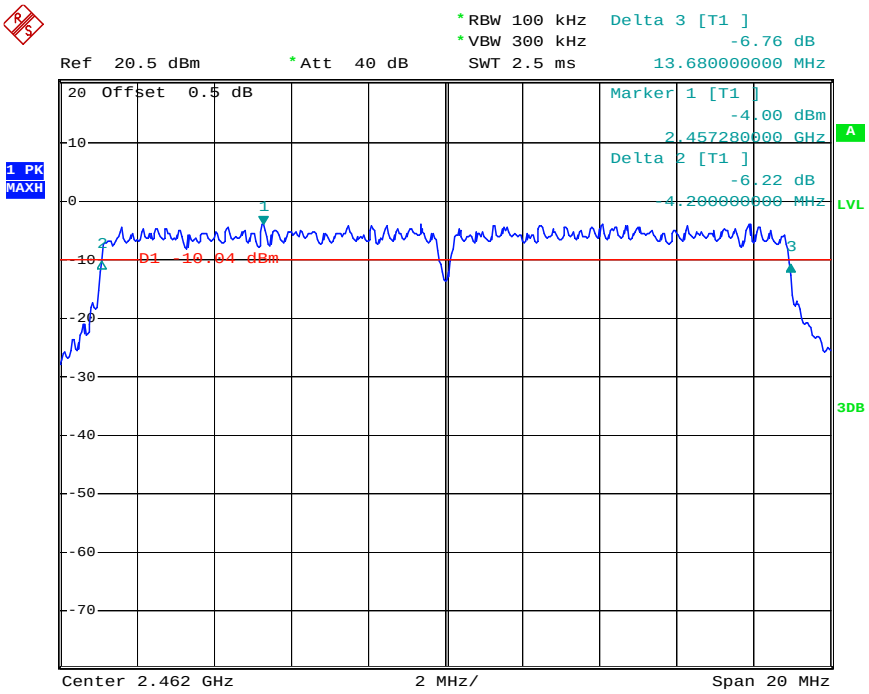
802.11n Channel High 2462MHz(20MHz)



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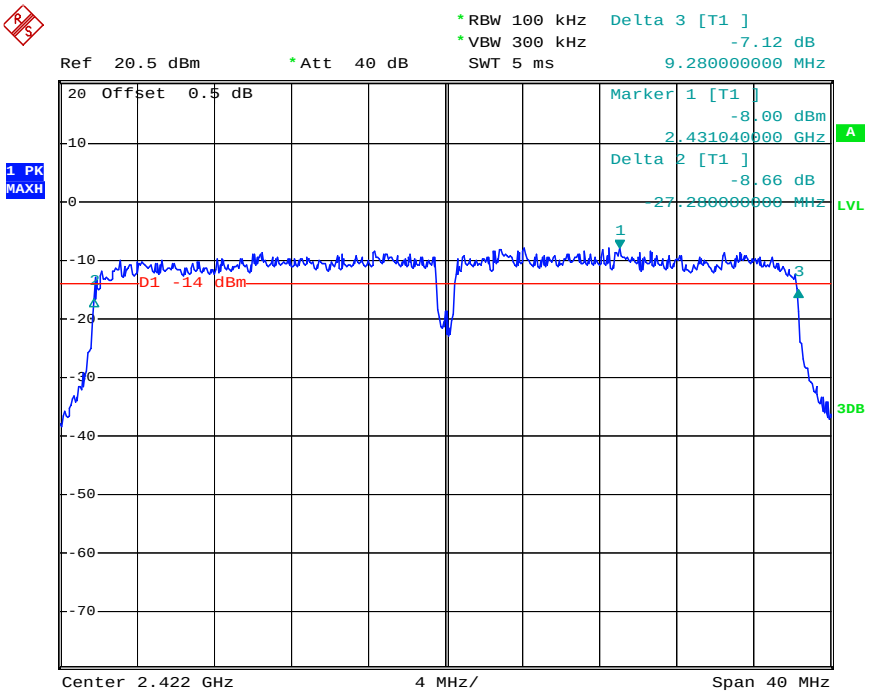
802.11n Channel Low 2422MHz (40MHz)



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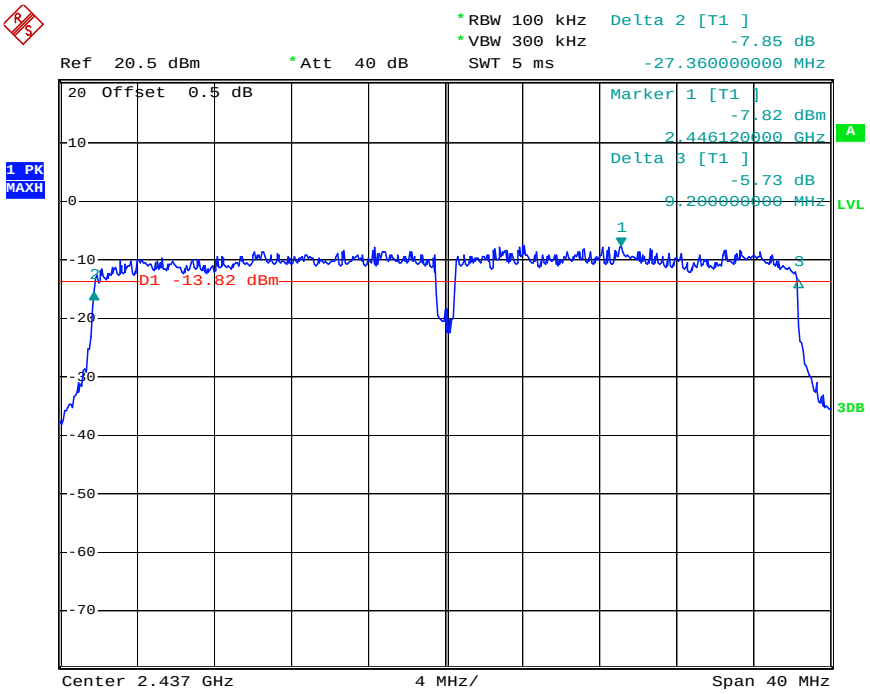
802.11n Channel Middle 2437MHz(40MHz)



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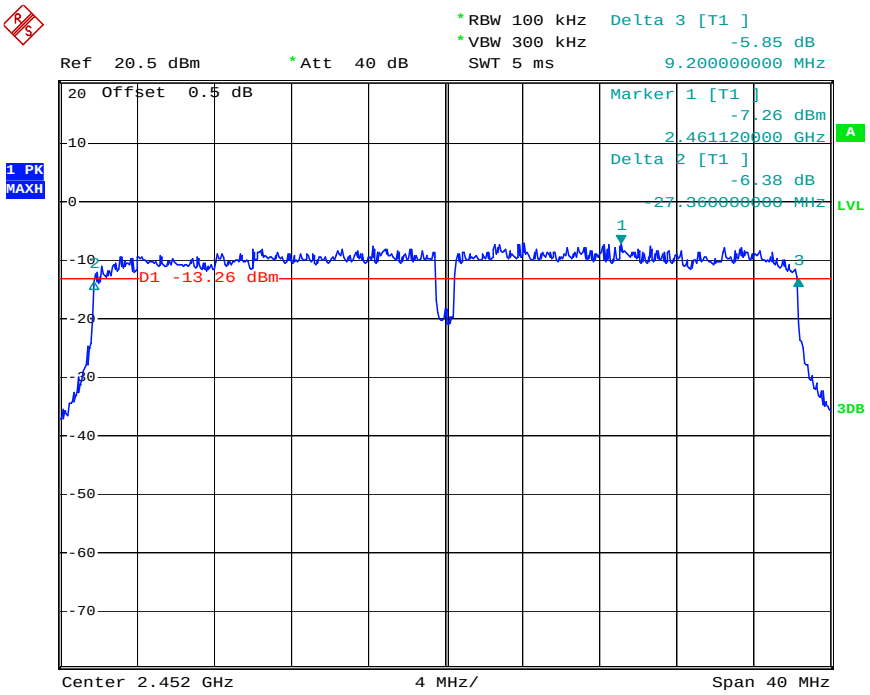
802.11n Channel High 2452MHz(40MHz)



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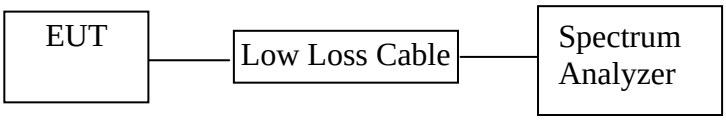
6. MAXIMUM PEAK OUTPUT POWER

6.1.Block Diagram of Test Setup



6.2.The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

6.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

6.5.Test Procedure

6.5.1.The EUT was tested according to DTS test procedure of April 09, 2013 KDB558074 D01 DTS Meas Guidance v03 for compliance to FCC 47CFR 15.247 requirements.

6.5.2.The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.3.Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.4.Measurement the maximum peak output power.

6.6.Test Result

The test was performed with 802.11b				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	16.48	44.46	30 dBm / 1 W
Middle	2437	16.24	42.07	30 dBm / 1 W
High	2462	16.45	44.16	30 dBm / 1 W

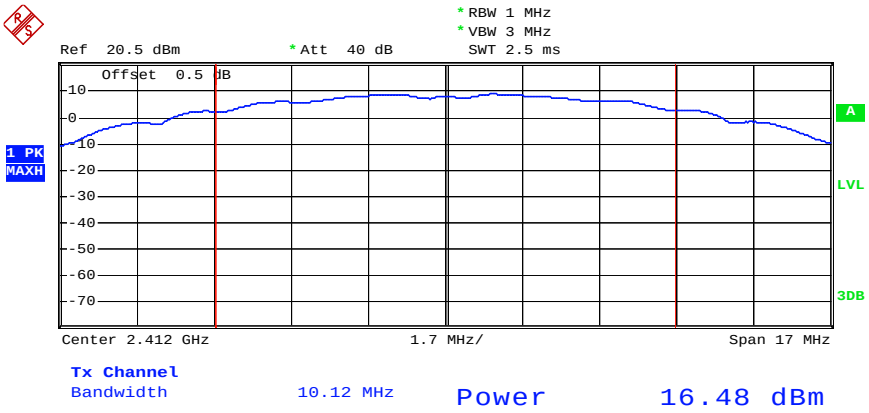
The test was performed with 802.11g				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	15.09	32.28	30 dBm / 1 W
Middle	2437	15.49	35.40	30 dBm / 1 W
High	2462	15.97	39.54	30 dBm / 1 W

The test was performed with 802.11n (20MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	14.43	27.73	30 dBm / 1 W
Middle	2437	15.29	33.81	30 dBm / 1 W
High	2462	15.01	31.70	30 dBm / 1 W

The test was performed with 802.11n (40MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2422	14.37	27.35	30 dBm / 1 W
Middle	2437	13.94	24.77	30 dBm / 1 W
High	2452	14.14	25.94	30 dBm / 1 W

The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



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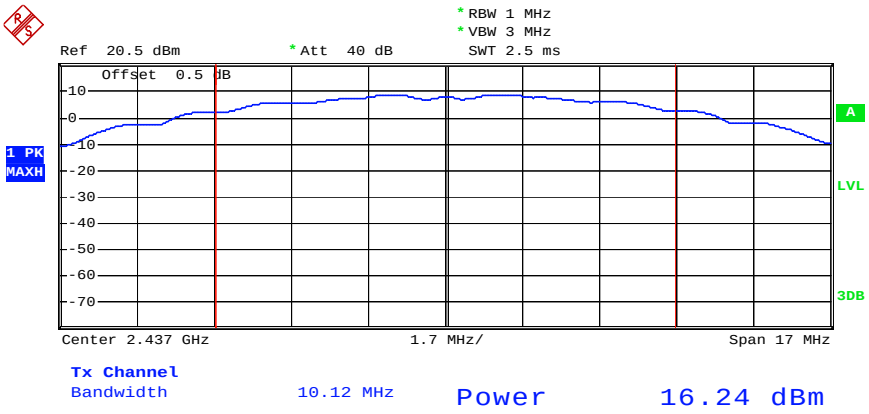
802.11b Channel Middle 2437MHz



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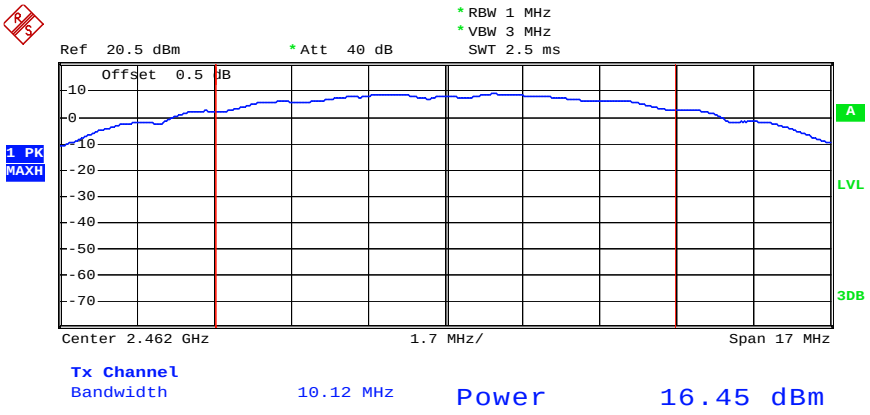
802.11b Channel High 2462MHz



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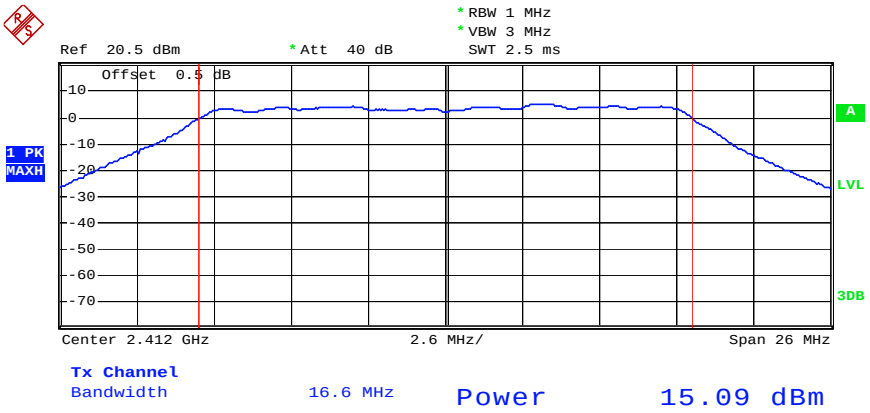
802.11g Channel Low 2412MHz



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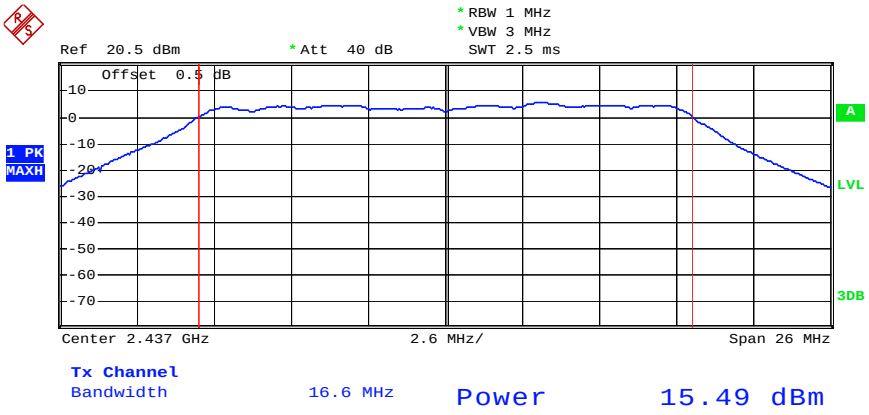
802.11g Channel Middle 2437MHz



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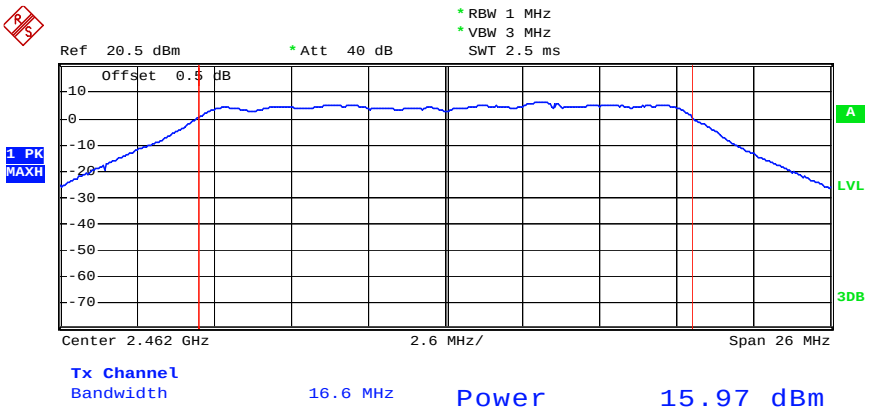
802.11g Channel High 2462MHz



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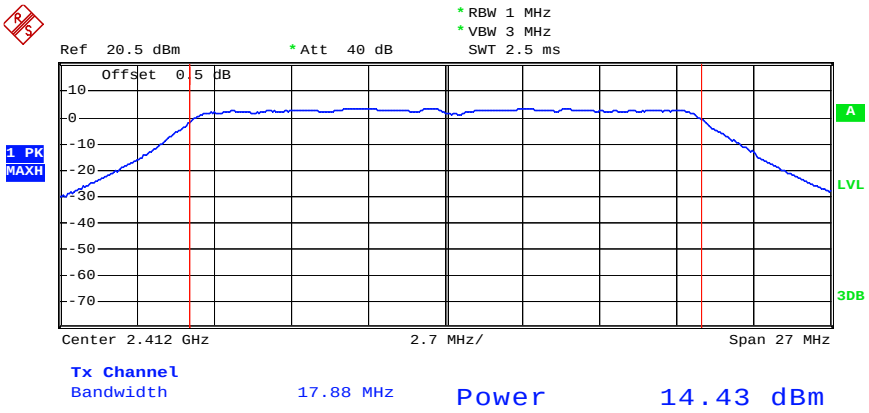
802.11n Channel Low 2412MHz (20MHz)



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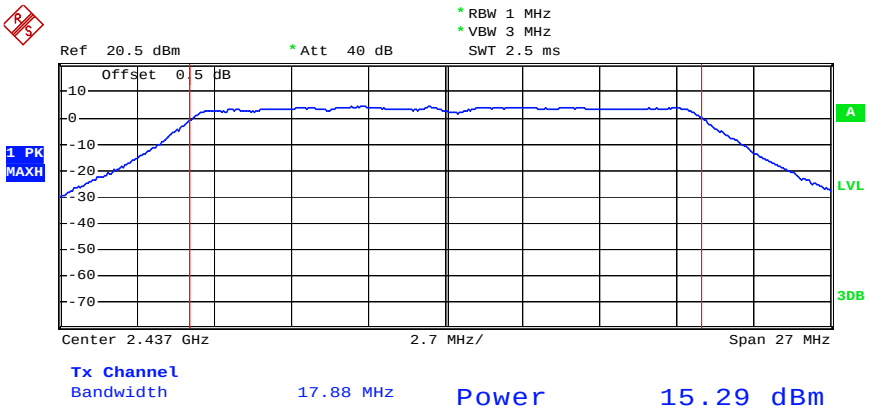
802.11n Channel Middle 2437MHz (20MHz)



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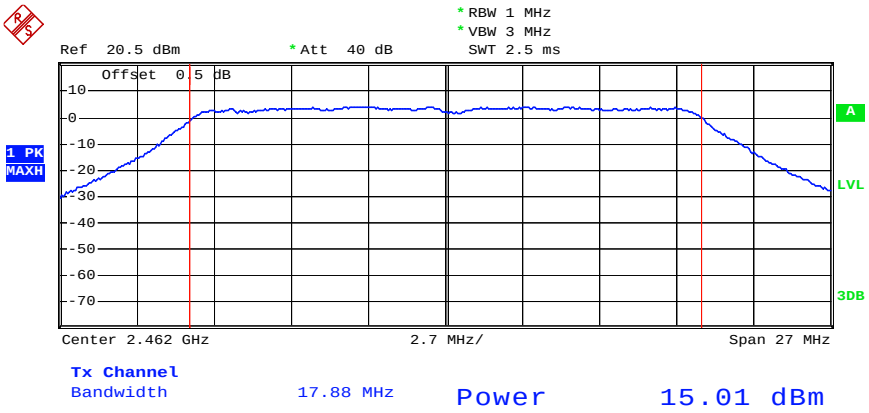
802.11n Channel High 2462MHz (20MHz)



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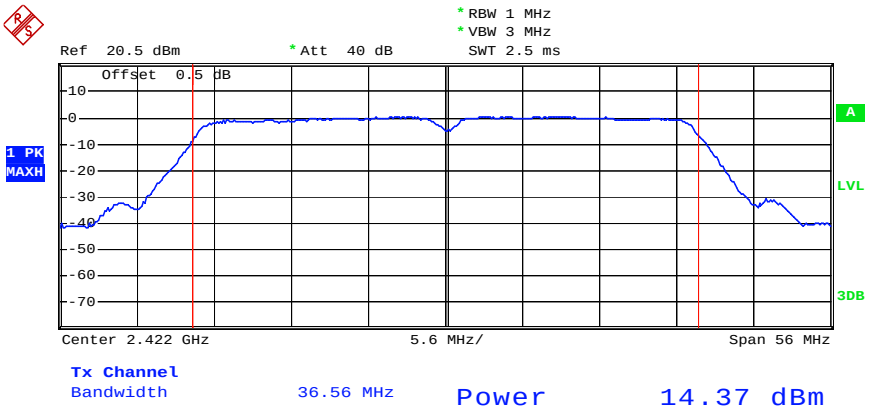
802.11n Channel Low 2422MHz (40MHz)



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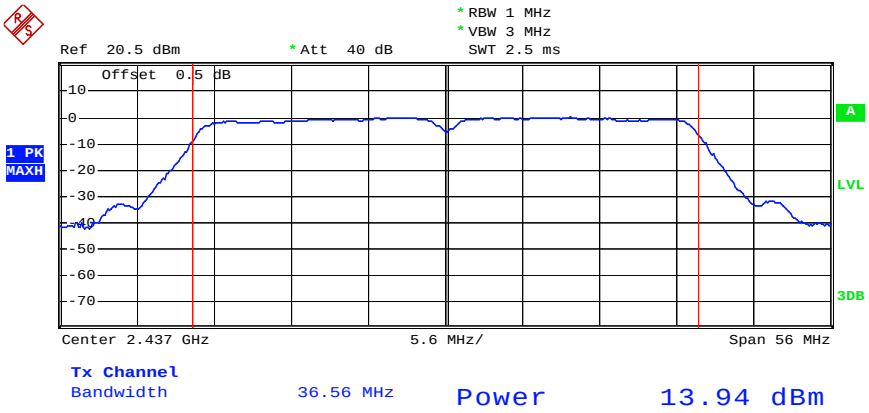
802.11n Channel Middle 2437MHz (40MHz)



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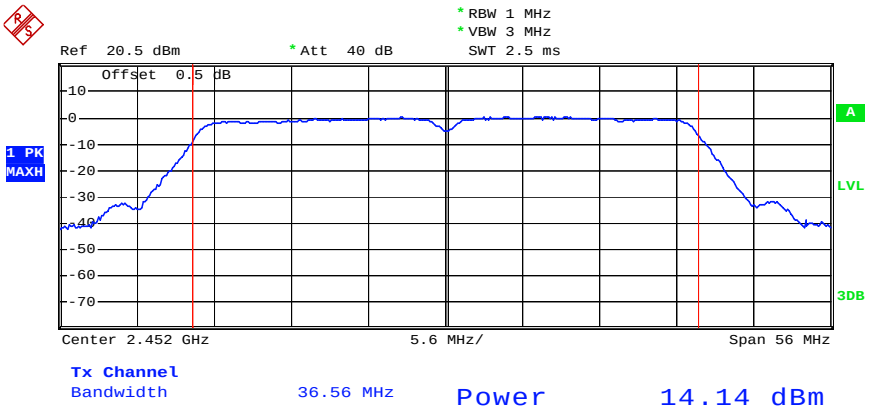
802.11n Channel High 2452MHz (40MHz)



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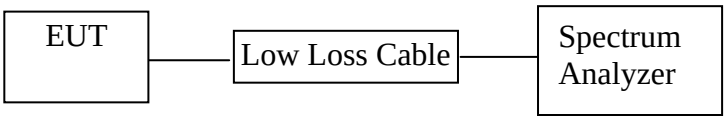
7. POWER SPECTRAL DENSITY MEASUREMENT

7.1.Block Diagram of Test Setup



7.2.The Requirement For Section 15.247(e)

Section 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.

7.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 7.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

7.5.Test Procedure

7.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2.Measurement Procedure PKPSD:

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW 3 kHz $\leqslant$ RBW $\leqslant$ 100 kHz.

4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.5.3.Measurement the maximum power spectral density.

7.6.Test Result

The test was performed with 802.11b			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-18.04	8 dBm
Middle	2437	-17.31	8 dBm
High	2462	-16.55	8 dBm

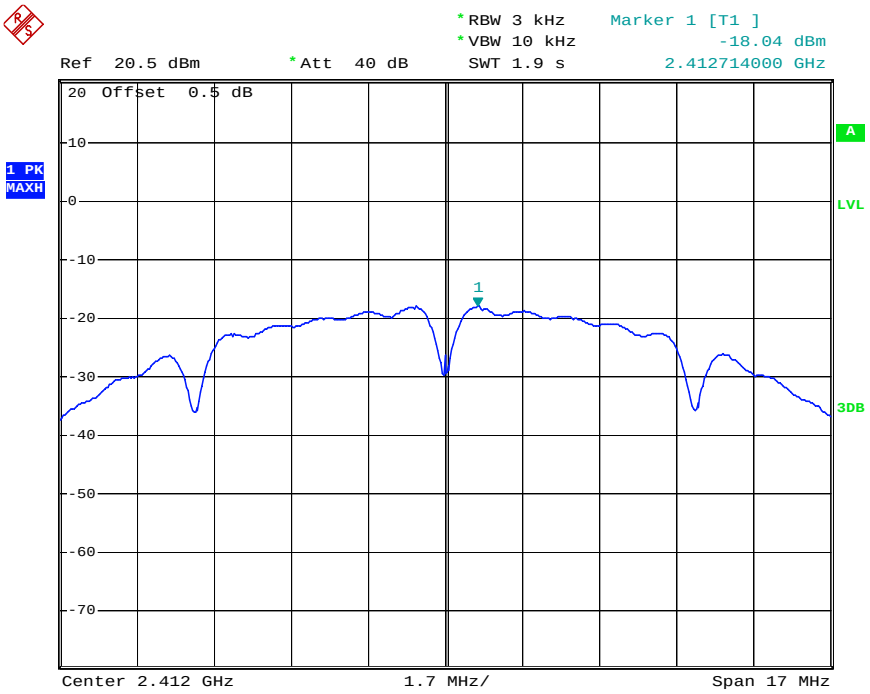
The test was performed with 802.11g			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-19.80	8 dBm
Middle	2437	-19.29	8 dBm
High	2462	-18.38	8 dBm

The test was performed with 802.11n (20MHz)			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-20.45	8 dBm
Middle	2437	-20.24	8 dBm
High	2462	-19.48	8 dBm

The test was performed with 802.11n (40MHz)			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2422	-23.89	8 dBm
Middle	2437	-23.09	8 dBm
High	2452	-22.55	8 dBm

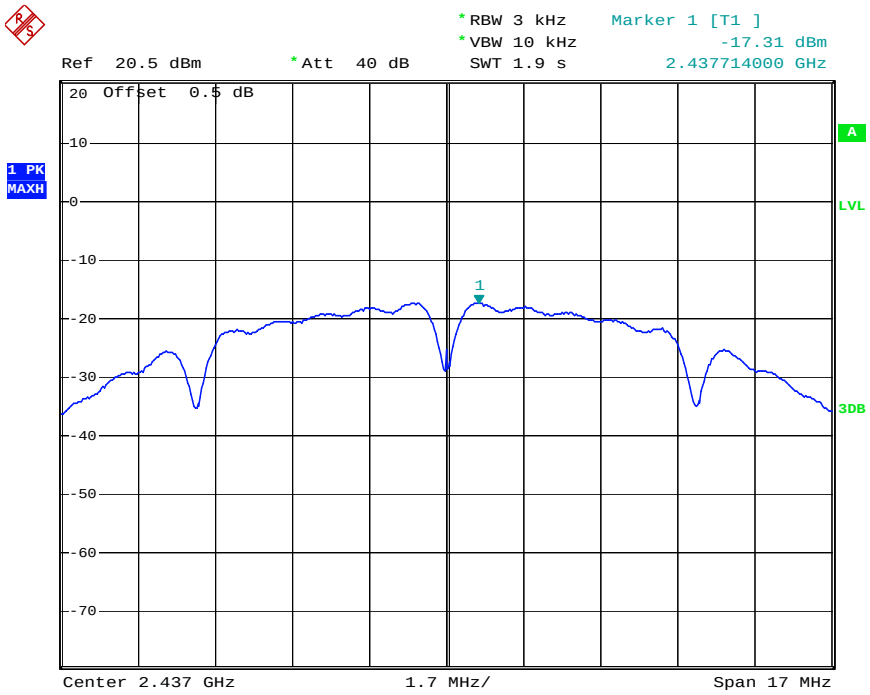
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



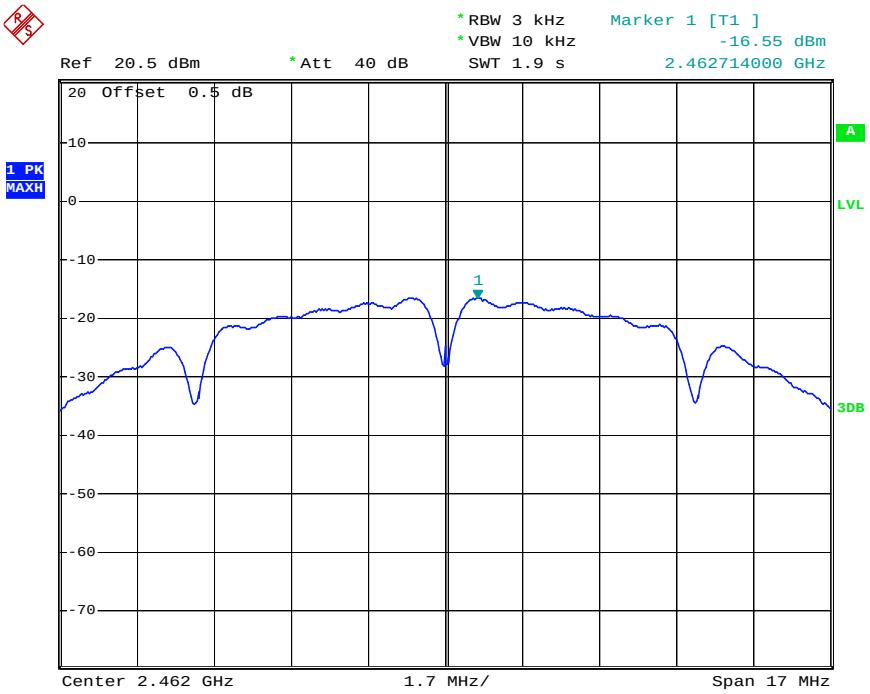
Date: 19.DEC.2013 16:41:29

802.11b Channel Middle 2437MHz



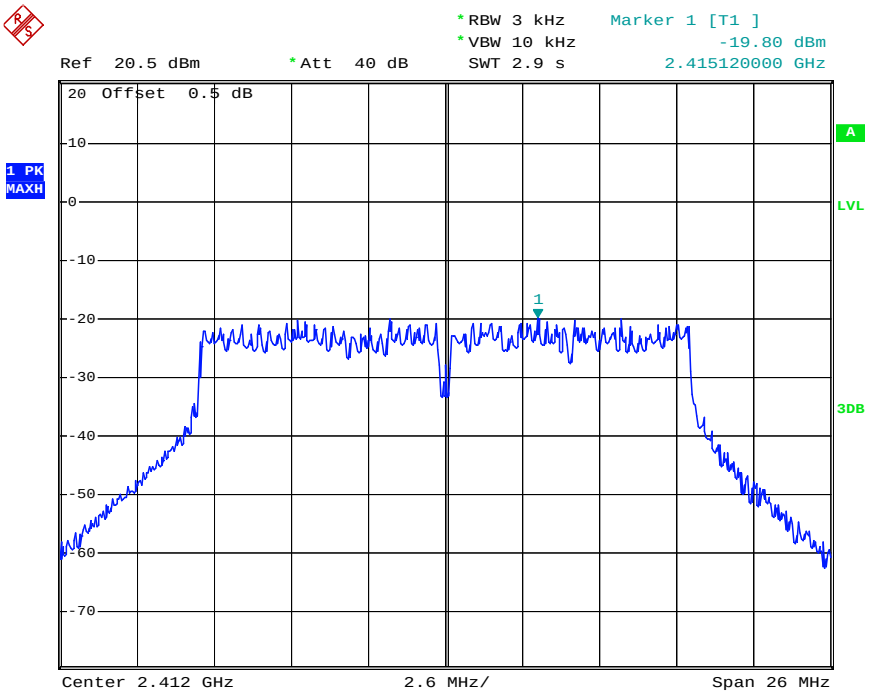
Date: 19.DEC.2013 16:41:52

802.11b Channel High 2462MHz



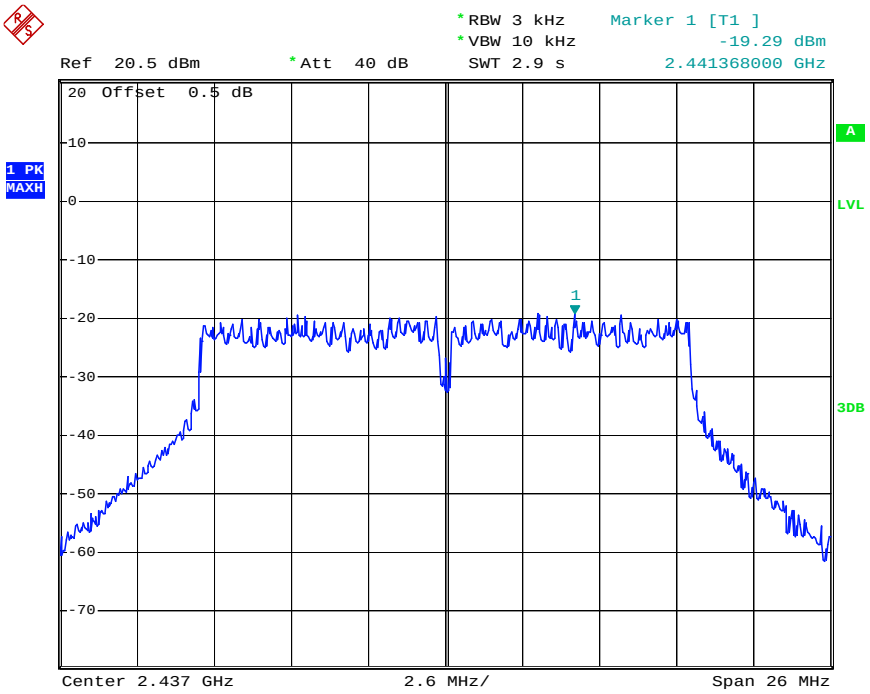
Date: 19.DEC.2013 16:42:20

802.11g Channel Low 2412MHz



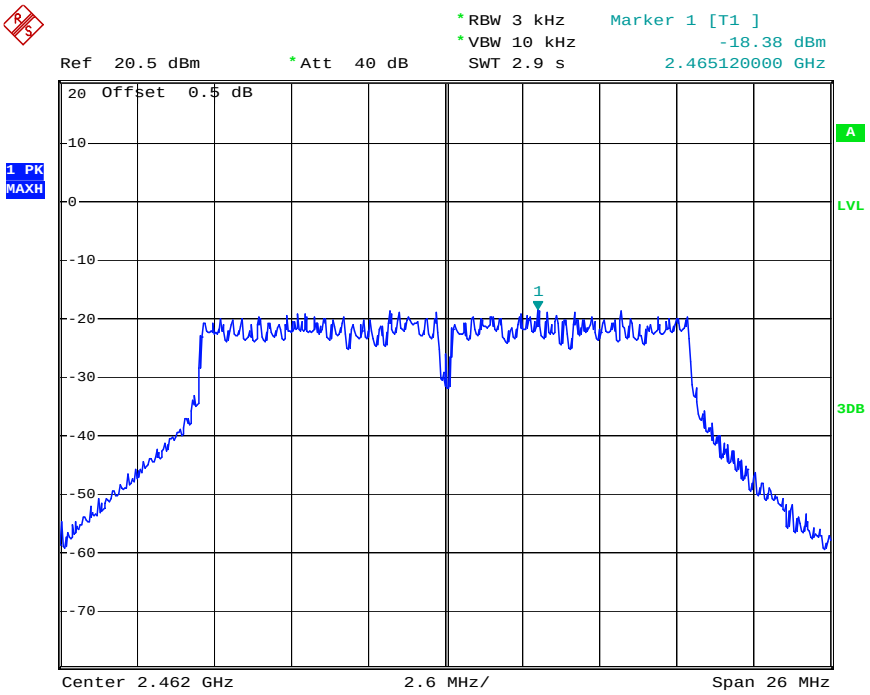
Date: 19.DEC.2013 16:43:56

802.11g Channel Middle 2437MHz



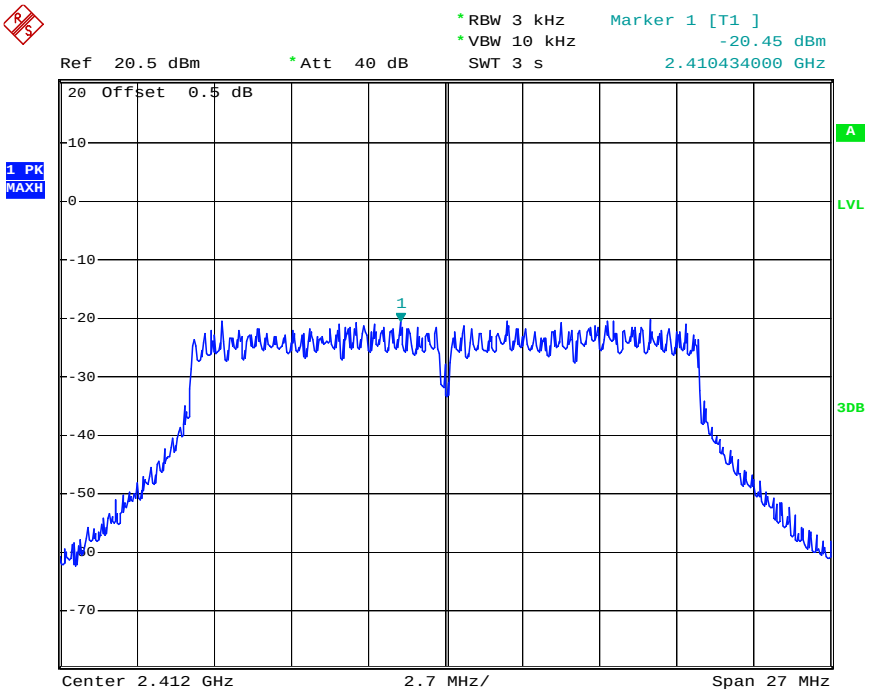
Date: 19.DEC.2013 16:43:33

802.11g Channel High 2462MHz



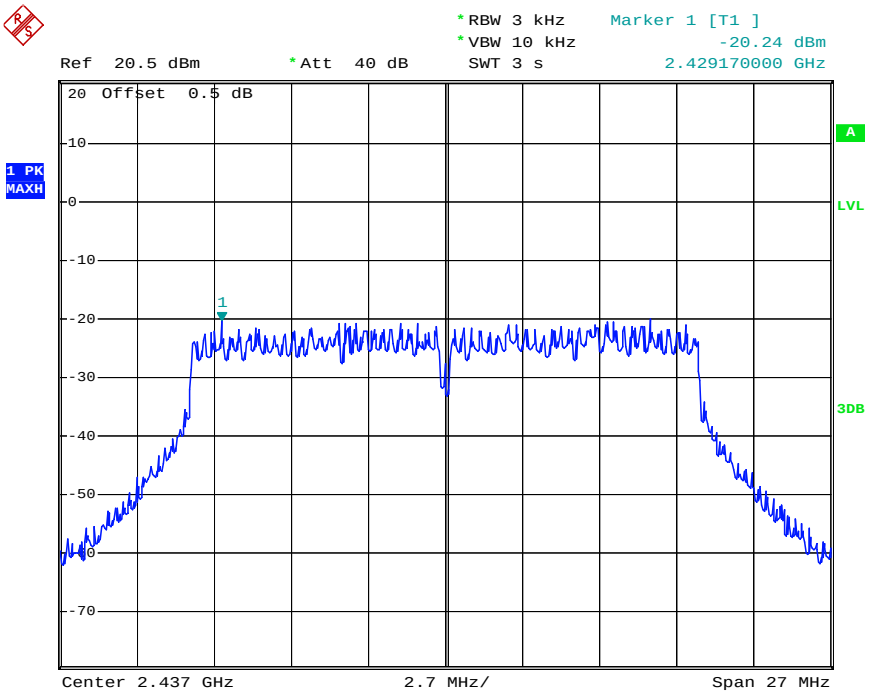
Date: 19.DEC.2013 16:43:06

802.11n Channel Low 2412MHz (20MHz)



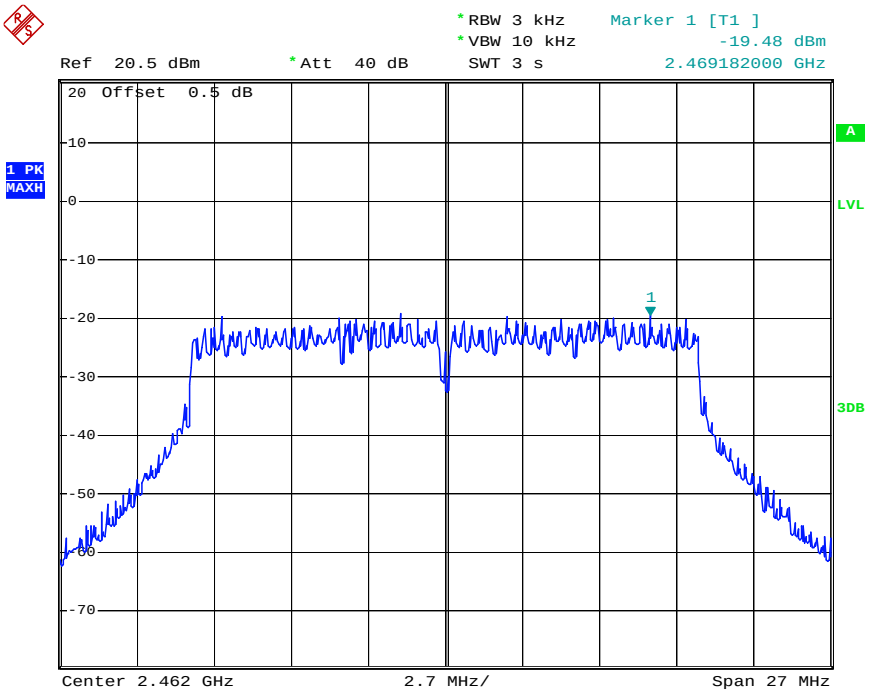
Date: 19.DEC.2013 16:44:40

802.11n Channel Middle 2437MHz (20MHz)



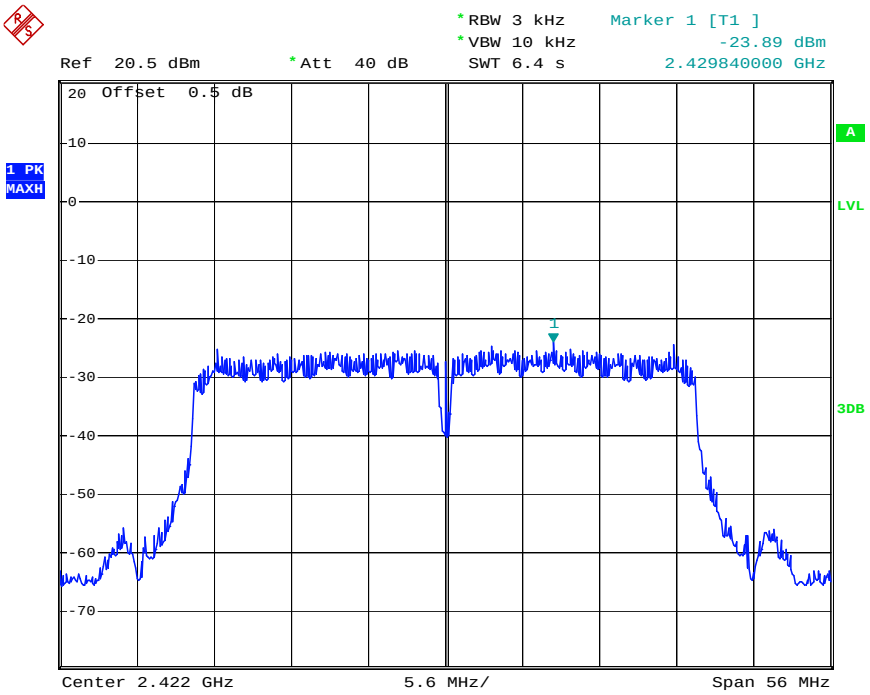
Date: 19.DEC.2013 16:45:07

802.11n Channel High 2462MHz(20MHz)



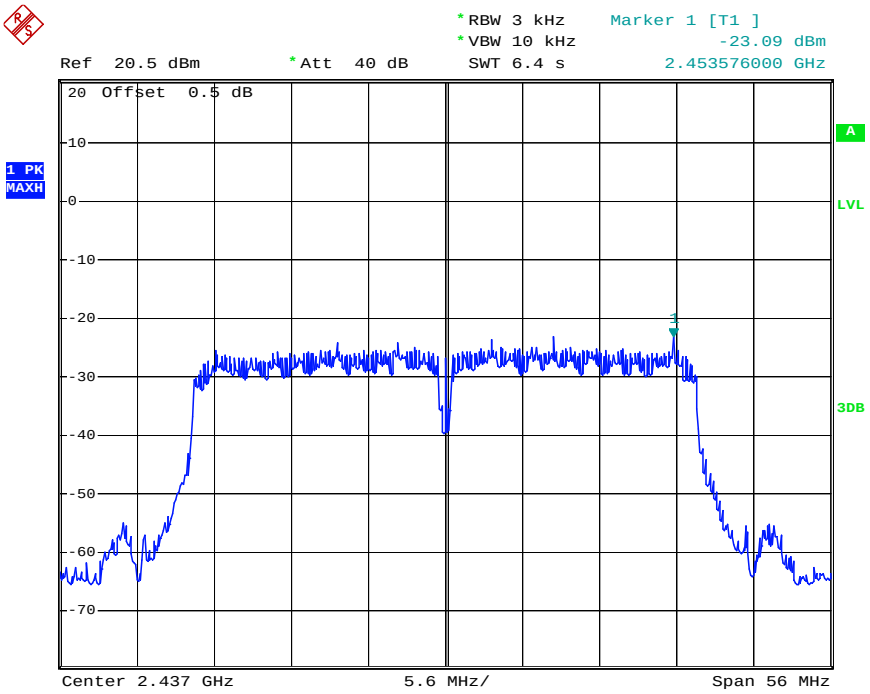
Date: 19.DEC.2013 16:45:40

802.11n Channel Low 2422MHz (40MHz)



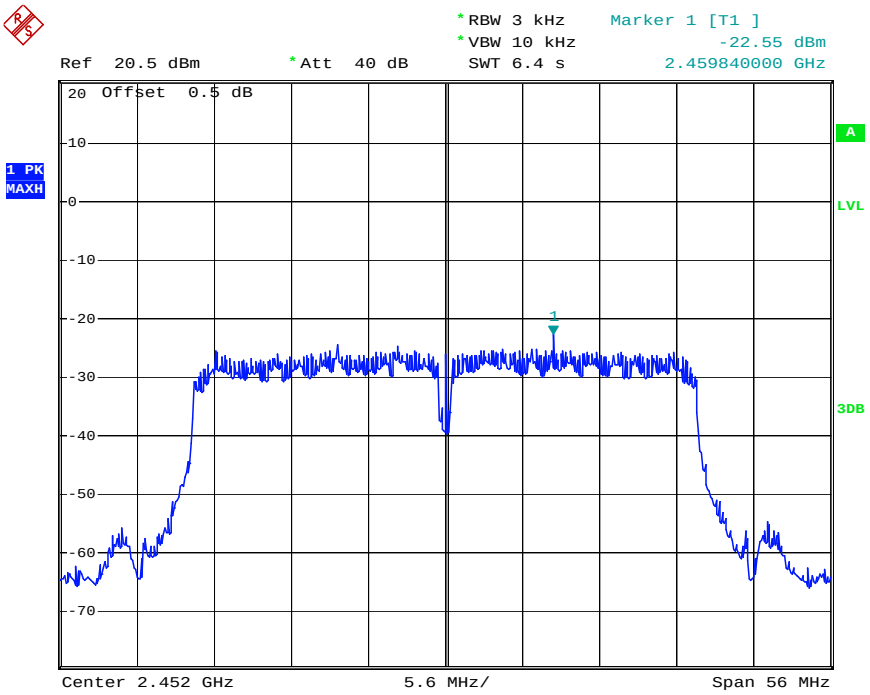
Date: 19.DEC.2013 16:40:31

802.11n Channel Middle 2437MHz(40MHz)



Date: 19.DEC.2013 16:39:56

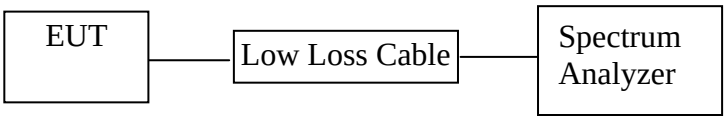
802.11n Channel High 2452MHz(40MHz)



Date: 19.DEC.2013 16:39:07

8. BAND EDGE COMPLIANCE TEST

8.1.Block Diagram of Test Setup



8.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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).

8.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4.Operating Condition of EUT

8.4.1.Setup the EUT and simulator as shown as Section 8.1.

8.4.2.Turn on the power of all equipment.

8.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz MHz. We select 2412MHz, 2462MHz and 2422MHz, 2452MHz TX frequency to transmit.

8.5.Test Procedure

Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

8.5.7.The band edges was measured and recorded.

8.6.Test Result

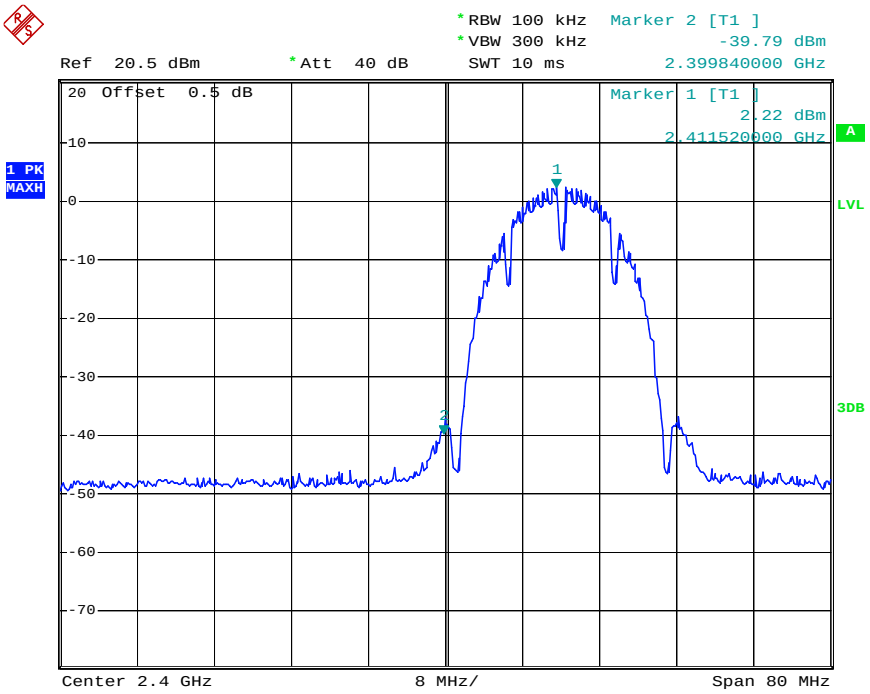
The test was performed with 802.11b		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	42.01	> 20dBc
2462	49.06	> 20dBc

The test was performed with 802.11g		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	34.32	> 20dBc
2462	44.45	> 20dBc

The test was performed with 802.11n (20MHz)		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	34.40	> 20dBc
2462	42.36	> 20dBc

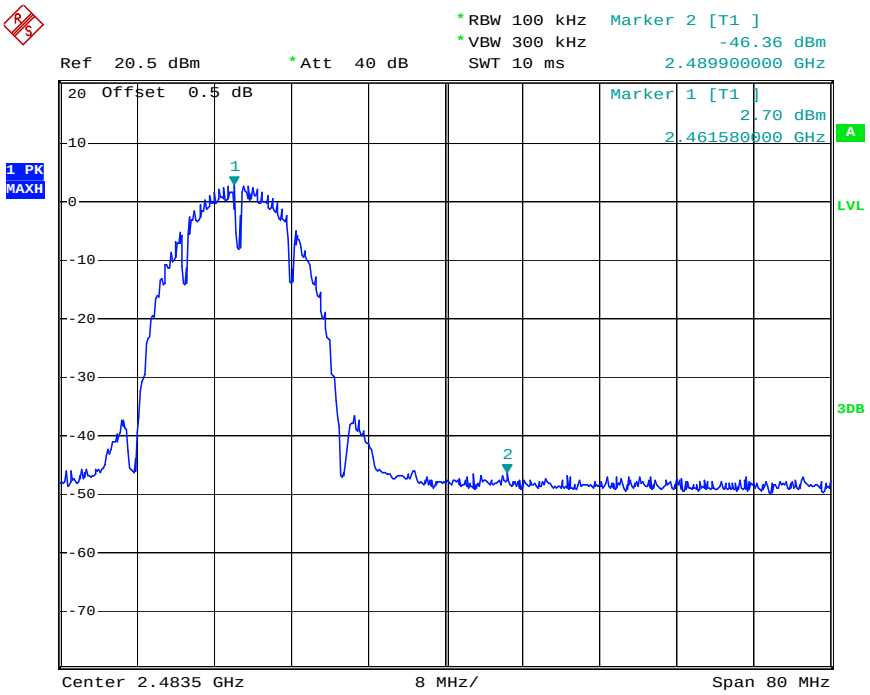
The test was performed with 802.11n (40MHz)		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2422	32.50	> 20dBc
2452	38.91	> 20dBc

802.11b Channel Low 2412MHz



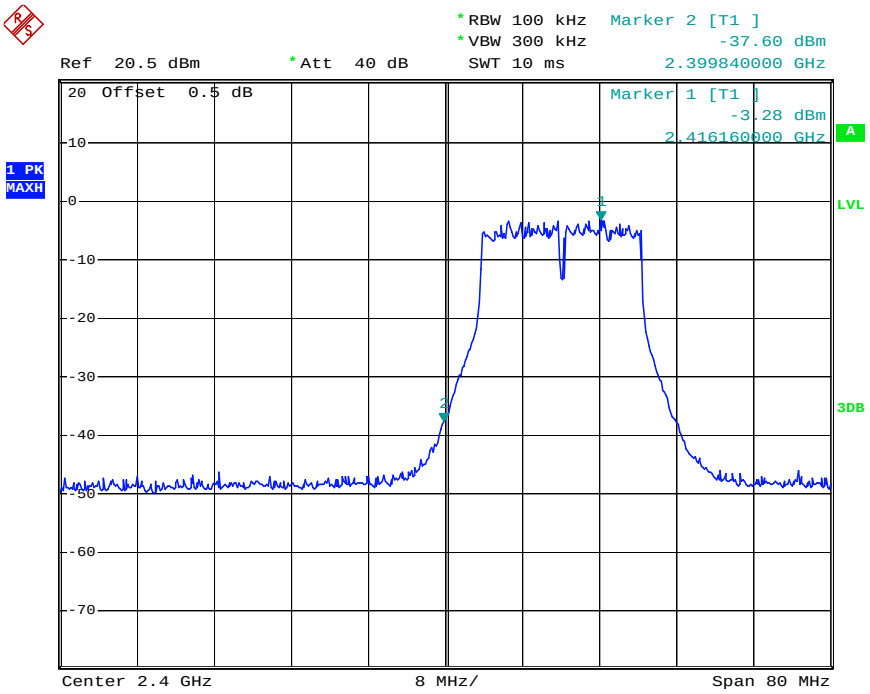
Date: 19.DEC.2013 16:16:15

802.11b Channel High 2462MHz



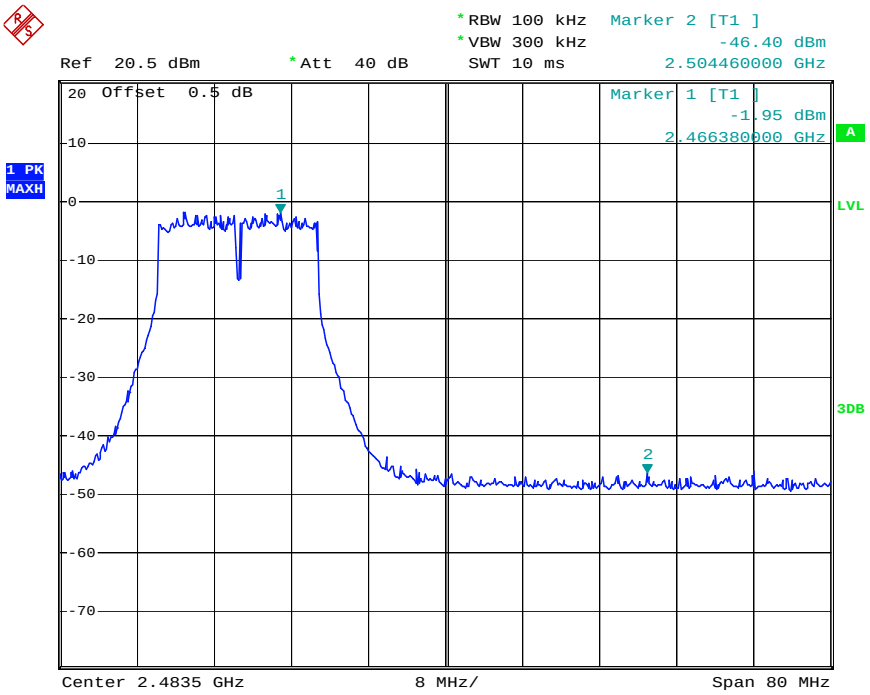
Date: 19.DEC.2013 16:17:19

802.11g Channel Low 2412MHz



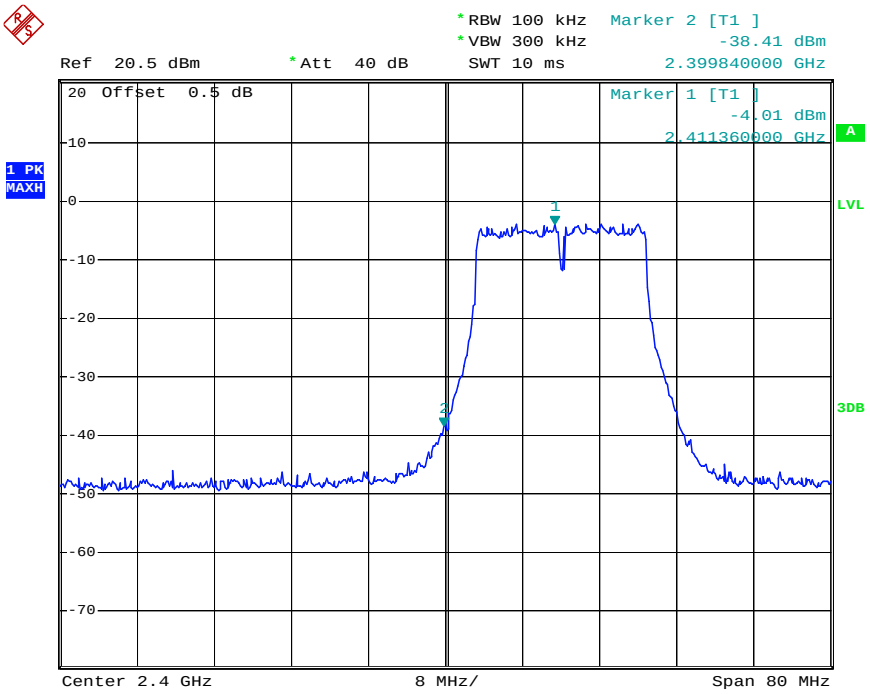
Date: 19.DEC.2013 16:19:31

802.11g Channel High 2462MHz



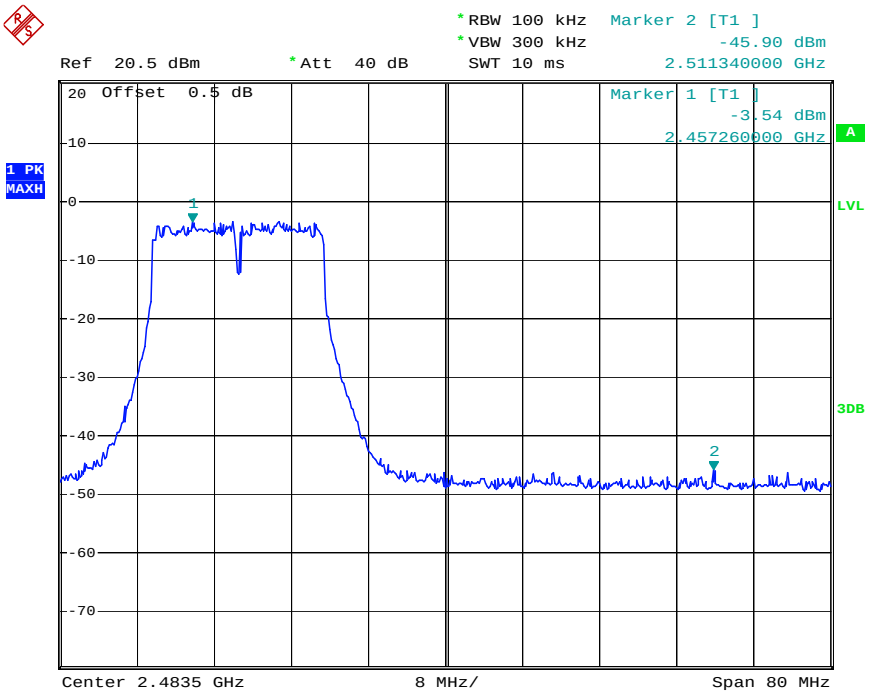
Date: 19.DEC.2013 16:18:43

802.11n Channel Low 2412MHz (20MHz)



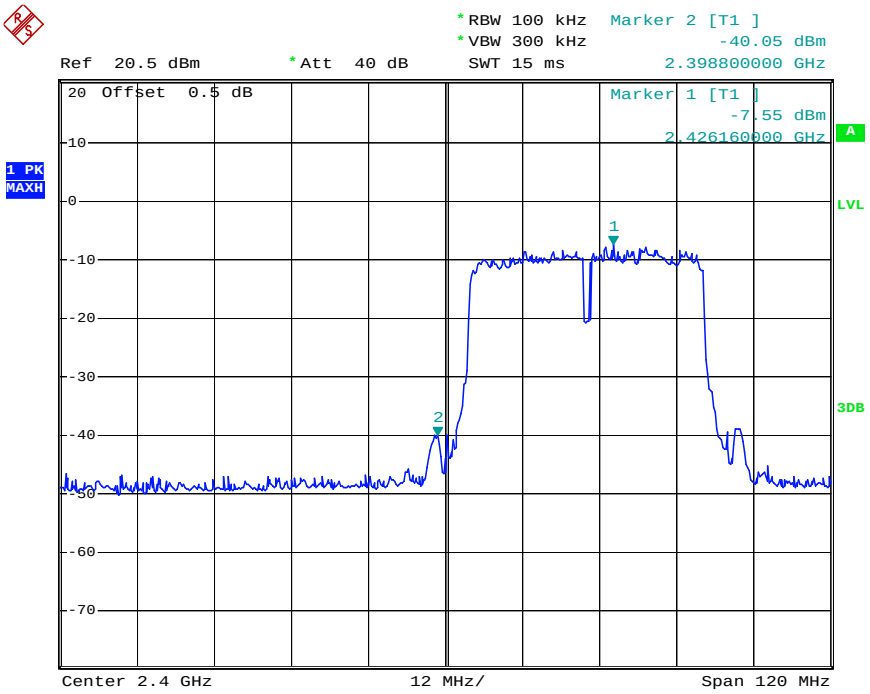
Date: 19.DEC.2013 16:20:43

802.11n Channel High 2462MHz (20MHz)



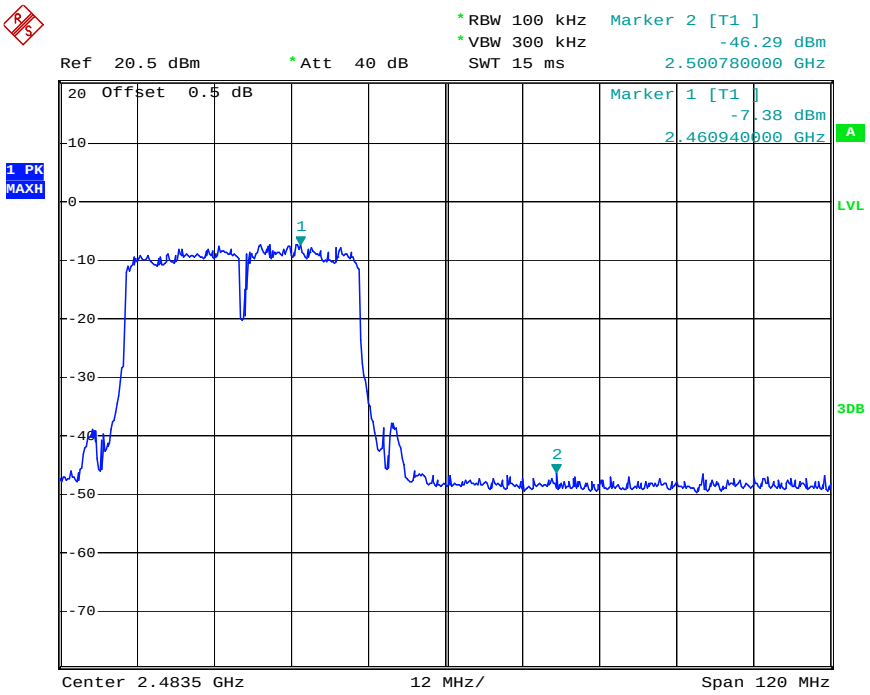
Date: 19.DEC.2013 16:22:00

802.11n Channel Low 2422MHz (40MHz)



Date: 19.DEC.2013 16:24:24

802.11n Channel High 2452MHz (40MHz)



Date: 19.DEC.2013 16:23:26

Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

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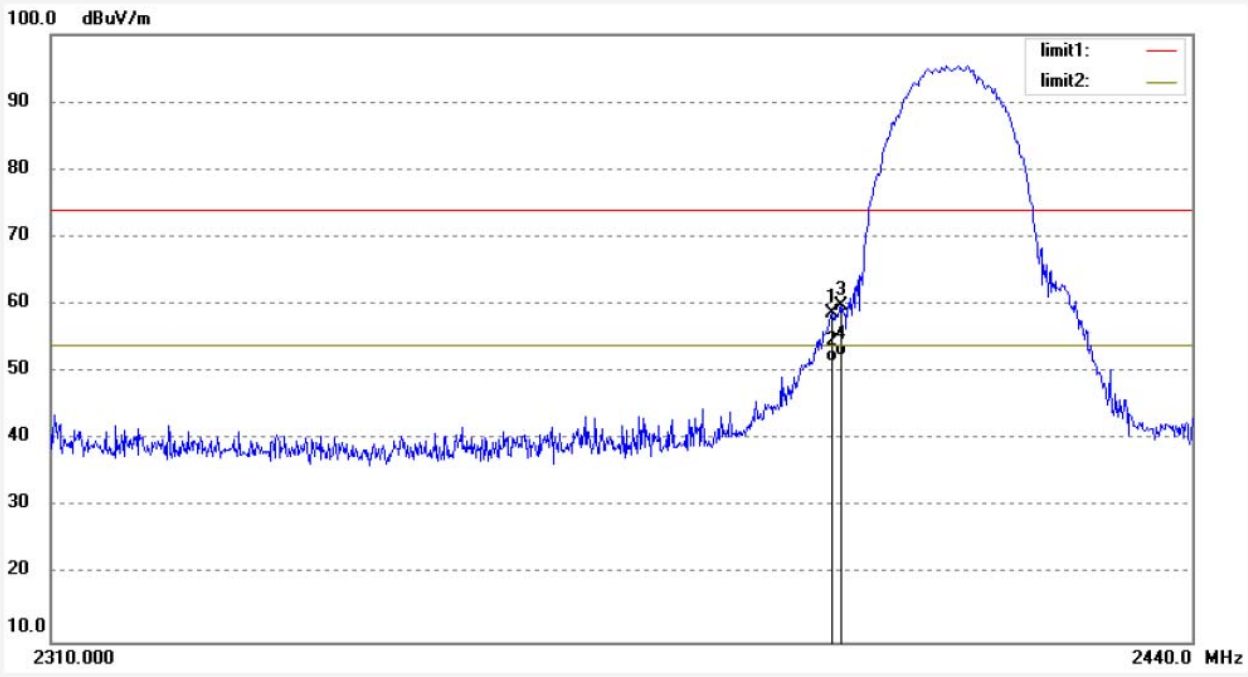
Fax:+86-0755-26503396

Job No.: alen #2533	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/30/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/33/04
EUT: Smart TV Box	Engineer Signature:
Mode: TX 2412MHz(802.11b)	Distance: 3m
Model: U001	
Manufacturer: Trimax	

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.400	65.38	-6.75	58.63	74.00	-15.37	peak			
2	2398.400	58.35	-6.75	51.60	54.00	-2.40	AVG			
3	2399.310	66.63	-6.76	59.87	74.00	-14.13	peak			
4	2399.310	59.23	-6.76	52.47	54.00	-1.53	AVG			

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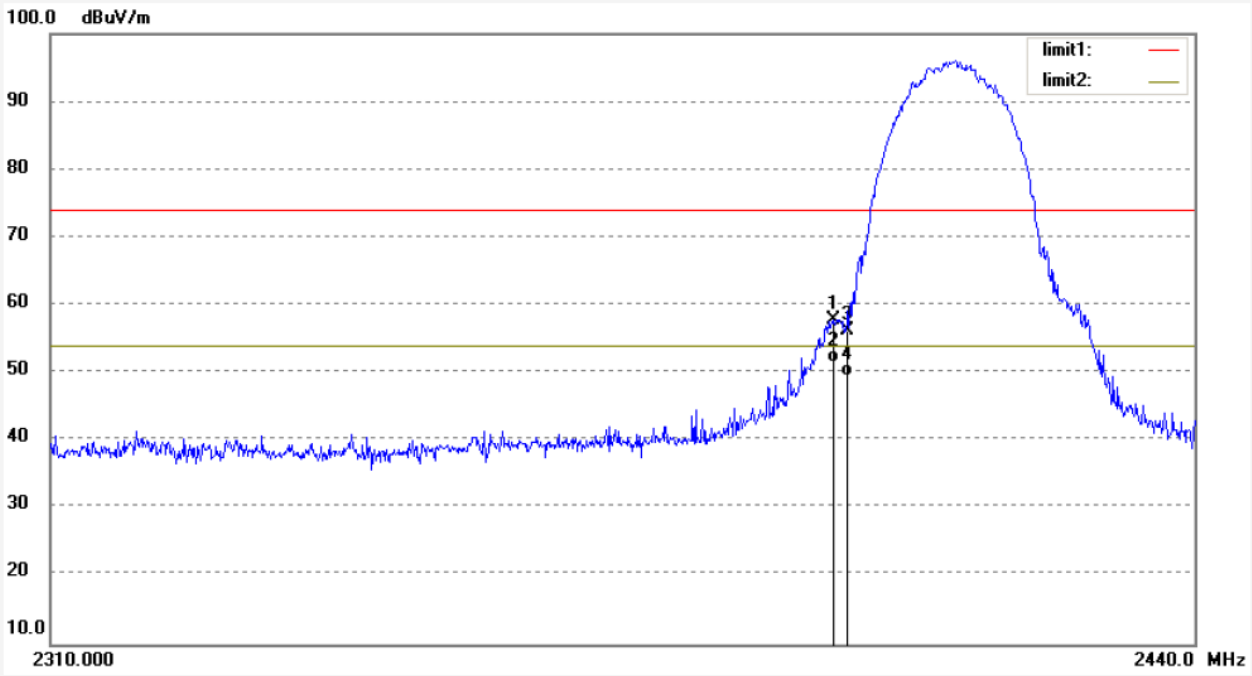
Job No.: alen #2534
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2412MHz(802.11b)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/33/40
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.270	64.58	-6.75	57.83	74.00	-16.17	peak			
2	2398.270	58.32	-6.75	51.57	54.00	-2.43	AVG			
3	2399.700	62.94	-6.76	56.18	74.00	-17.82	peak			
4	2399.700	56.21	-6.76	49.45	54.00	-4.55	AVG			

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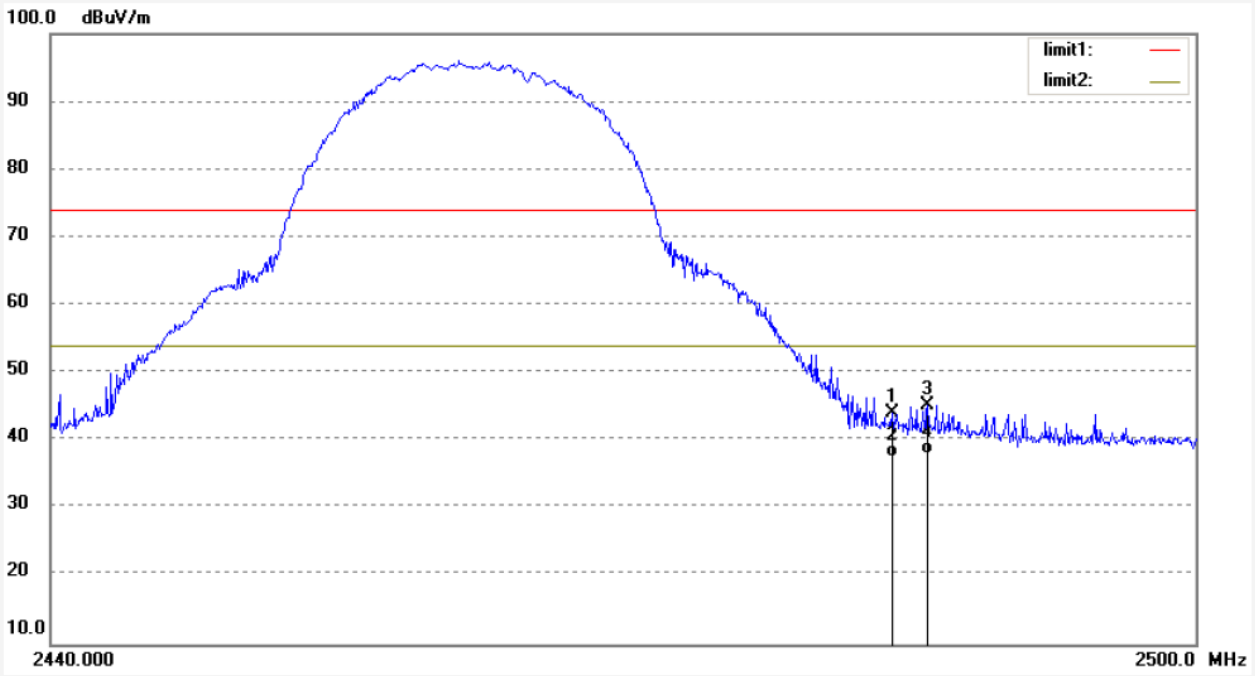
Job No.: alen #2535
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2462MHz(802.11b)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/35/20
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.980	50.56	-6.54	44.02	74.00	-29.98	peak			
2	2483.980	44.20	-6.54	37.66	54.00	-16.34	AVG			
3	2485.840	51.72	-6.54	45.18	74.00	-28.82	peak			
4	2485.840	44.65	-6.54	38.11	54.00	-15.89	AVG			

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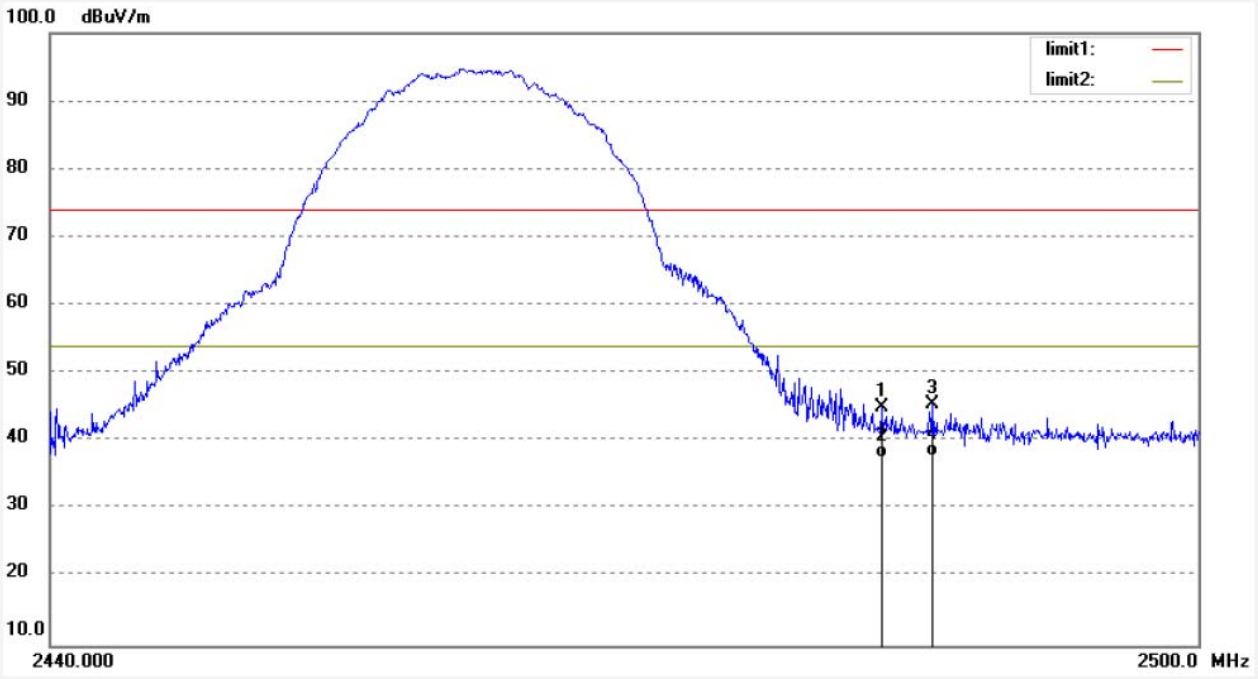
Job No.: alen #2536
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2462MHz(802.11b)
Model: U001
Manufacturer: Trimax

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/37/19
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.320	51.53	-6.54	44.99	74.00	-29.01	peak			
2	2483.320	44.21	-6.54	37.67	54.00	-16.33	AVG			
3	2486.020	51.93	-6.54	45.39	74.00	-28.61	peak			
4	2486.020	44.32	-6.54	37.78	54.00	-16.22	AVG			

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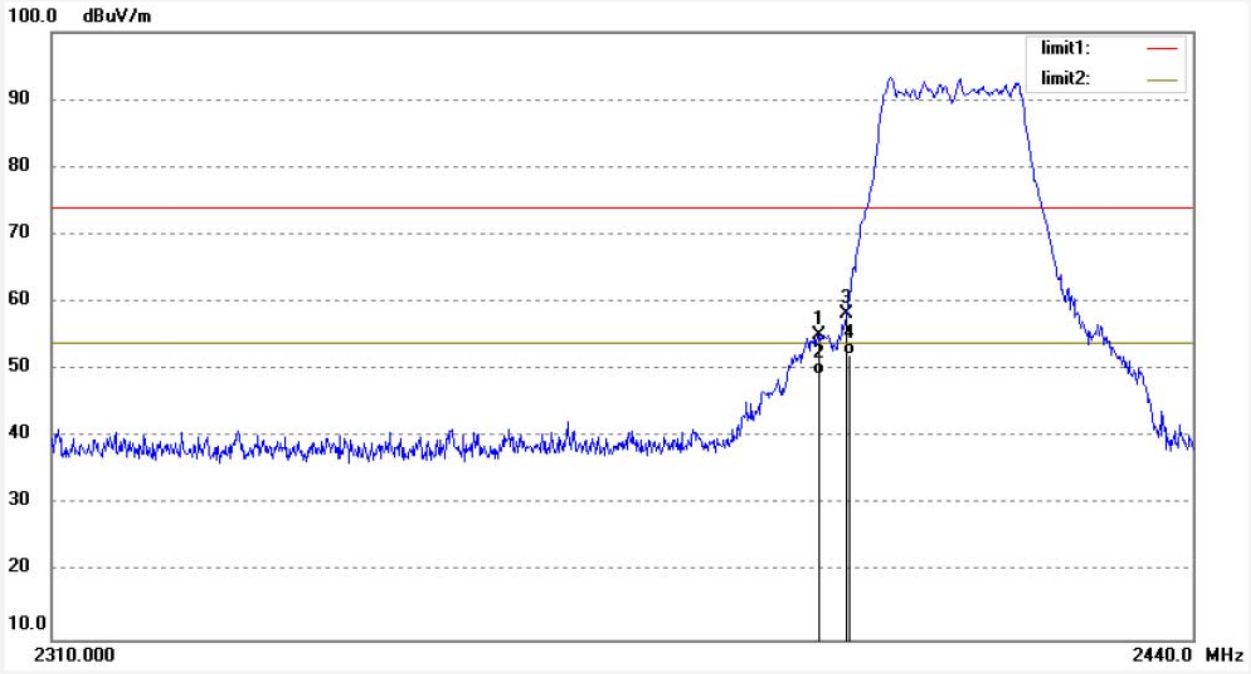
Fax:+86-0755-26503396

Job No.: alen #2539
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2412MHz(802.11g)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/41/08
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2396.710	61.98	-6.76	55.22	74.00	-18.78	peak			
2	2396.710	55.94	-6.76	49.18	54.00	-4.82	AVG			
3	2399.960	65.03	-6.76	58.27	74.00	-15.73	peak			
4	2399.960	58.89	-6.76	52.13	54.00	-1.87	AVG			

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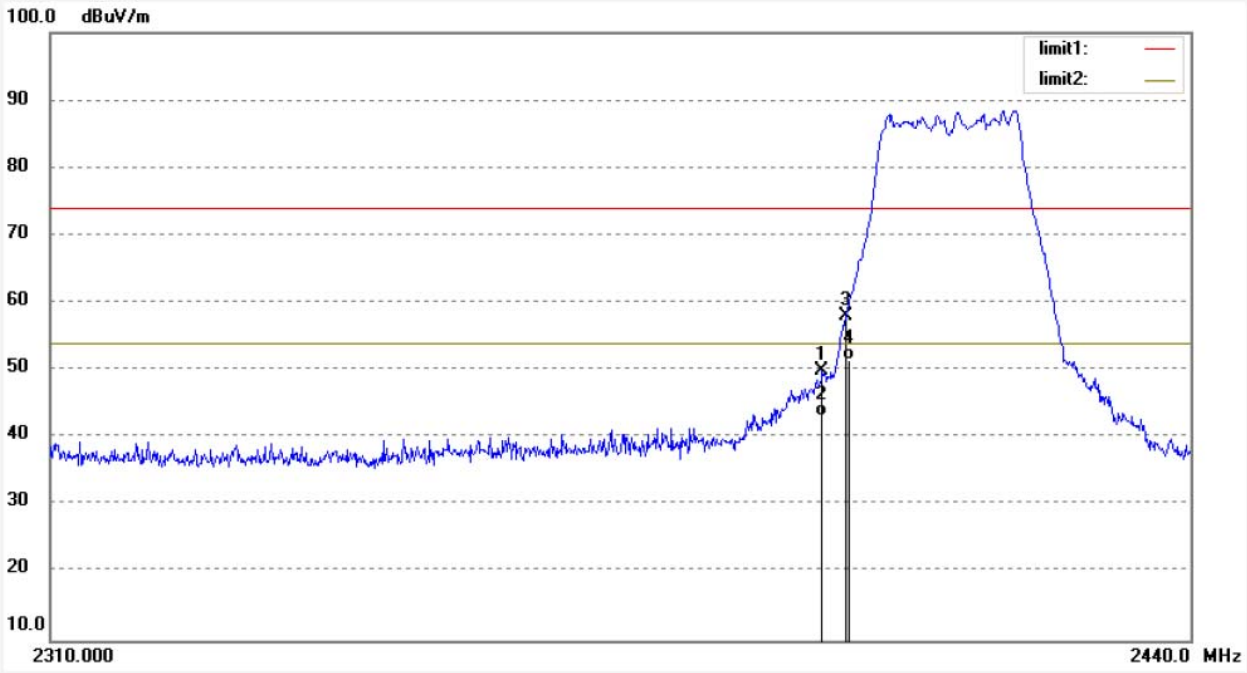
Job No.: alen #2540
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2412MHz(802.11g)
Model: U001
Manufacturer: Trimax

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/42/17
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2397.360	56.60	-6.76	49.84	74.00	-24.16	peak			
2	2397.360	50.01	-6.76	43.25	54.00	-10.75	AVG			
3	2400.090	64.80	-6.76	58.04	74.00	-15.96	peak			
4	2400.090	58.23	-6.76	51.47	54.00	-2.53	AVG			

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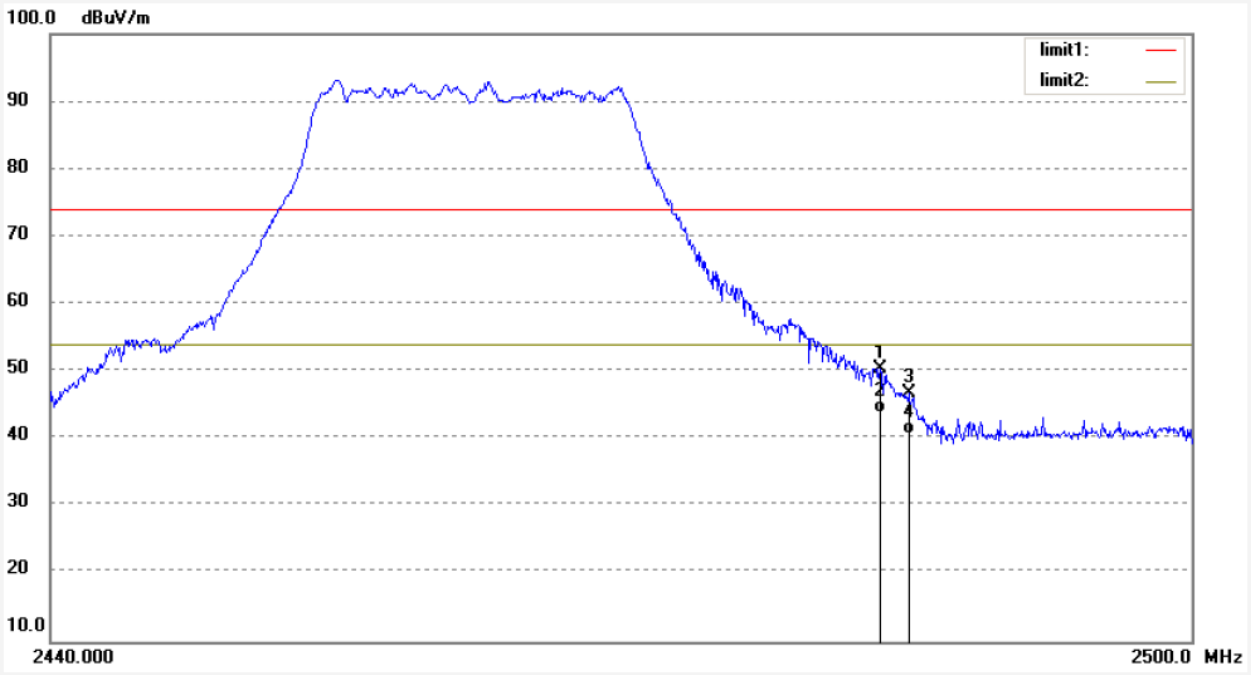
Job No.: alen #2538
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2462MHz(802.11g)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/39/51
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	56.95	-6.54	50.41	74.00	-23.59	peak			
2	2483.500	50.32	-6.54	43.78	54.00	-10.22	AVG			
3	2485.000	53.31	-6.54	46.77	74.00	-27.23	peak			
4	2485.000	47.21	-6.54	40.67	54.00	-13.33	AVG			

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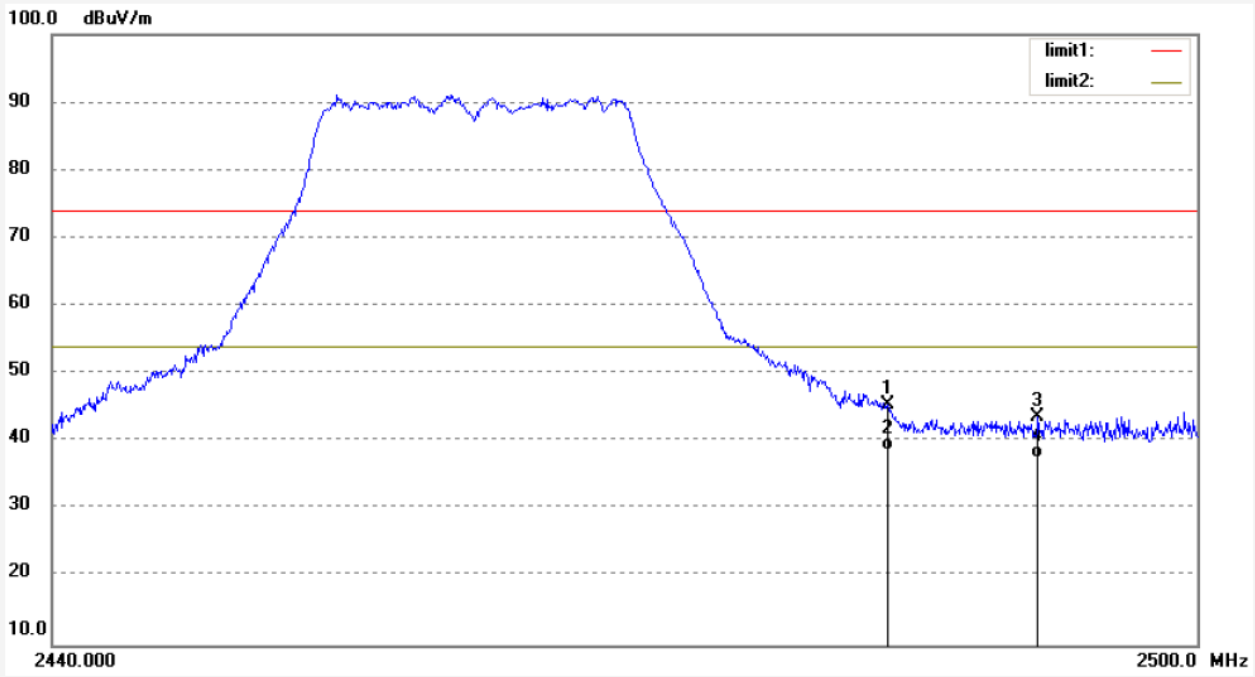
Job No.: alen #2537
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2462MHz(802.11g)
Model: U001
Manufacturer: Trimax

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/38/35
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.680	51.93	-6.54	45.39	74.00	-28.61	peak			
2	2483.680	45.21	-6.54	38.67	54.00	-15.33	AVG			
3	2491.600	50.05	-6.51	43.54	74.00	-30.46	peak			
4	2491.600	44.01	-6.51	37.50	54.00	-16.50	AVG			

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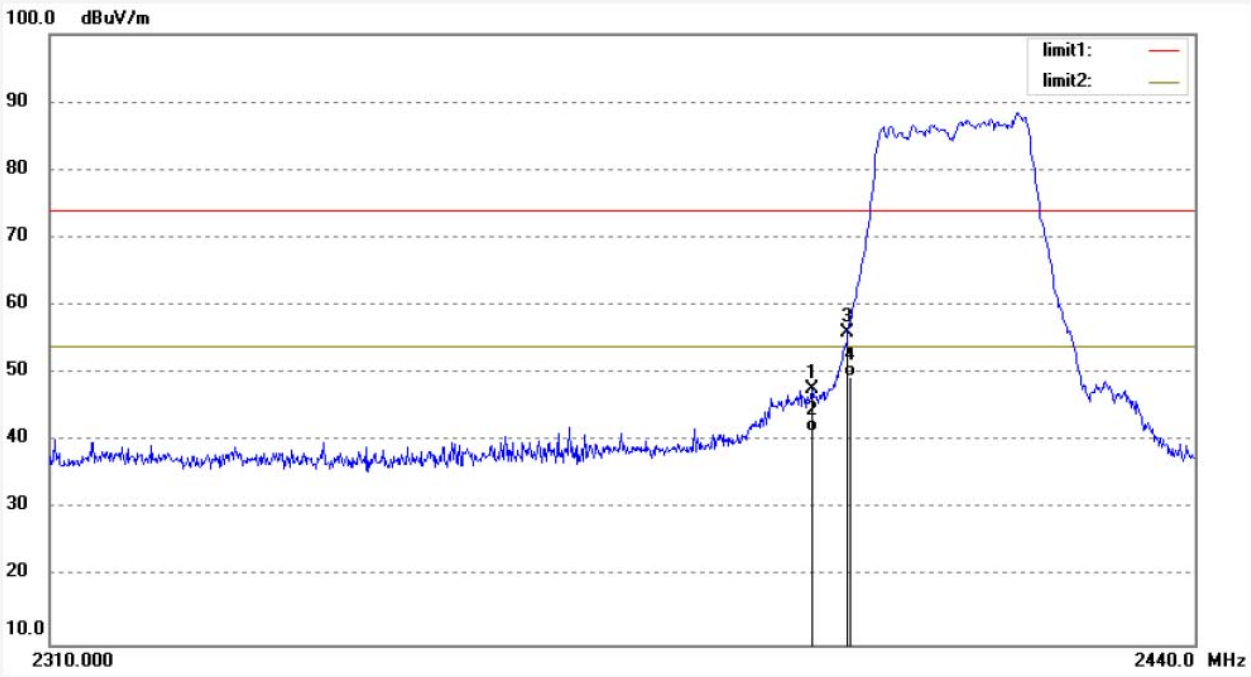
Job No.: alen #2541
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2412MHz(802.11n20)
Model: U001
Manufacturer: Trimax

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/43/47
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2395.800	54.55	-6.76	47.79	74.00	-26.21	peak			
2	2395.800	48.07	-6.76	41.31	54.00	-12.69	AVG			
3	2399.960	62.77	-6.76	56.01	74.00	-17.99	peak			
4	2399.960	56.23	-6.76	49.47	54.00	-4.53	AVG			

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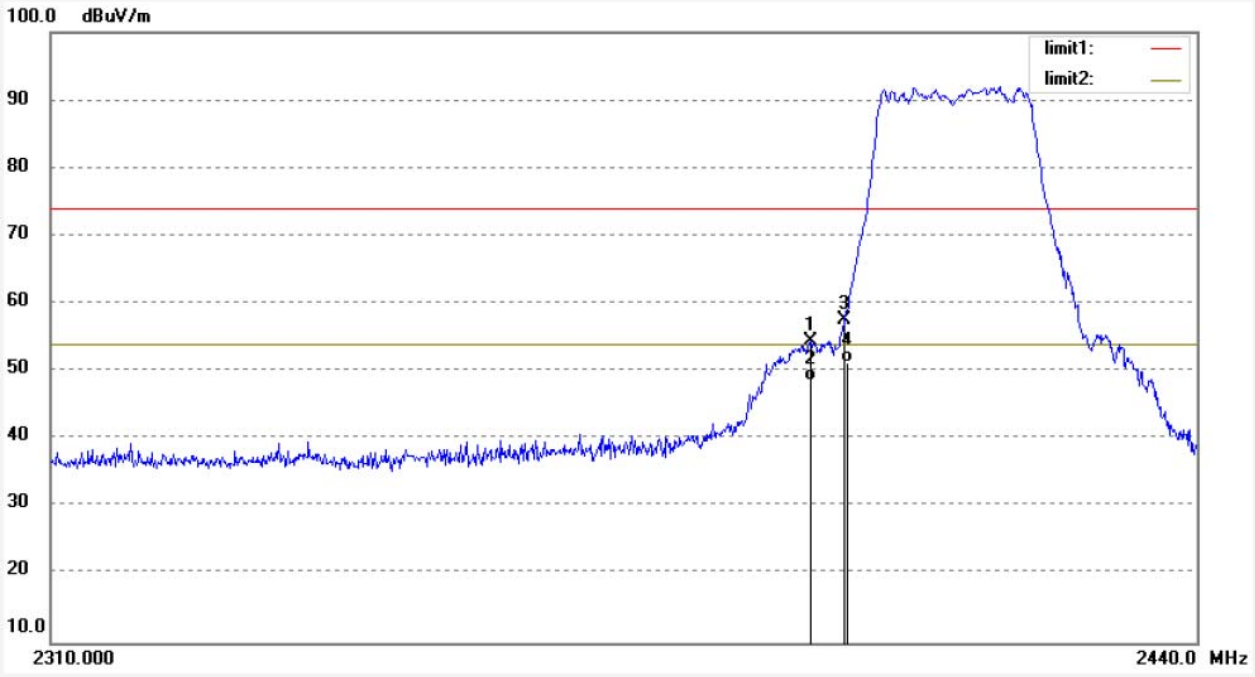
Job No.: alen #2542
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2412MHz(802.11n20)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/44/59
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2395.410	61.15	-6.76	54.39	74.00	-19.61	peak			
2	2395.410	55.35	-6.76	48.59	54.00	-5.41	AVG			
3	2399.440	64.36	-6.76	57.60	74.00	-16.40	peak			
4	2399.440	58.02	-6.76	51.26	54.00	-2.74	AVG			

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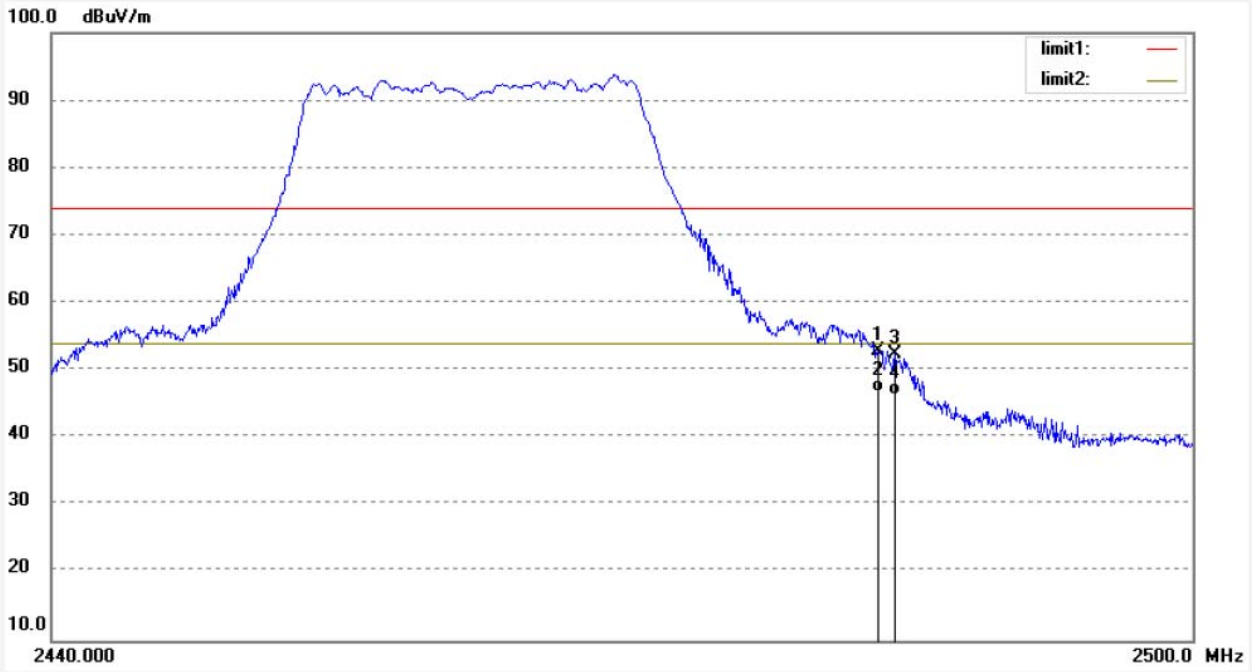
Job No.: alen #2543
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2462MHz(802.11n20)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/46/19
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.380	59.46	-6.54	52.92	74.00	-21.08	peak			
2	2483.380	53.35	-6.54	46.81	54.00	-7.19	AVG			
3	2484.220	58.92	-6.54	52.38	74.00	-21.62	peak			
4	2484.220	52.87	-6.54	46.33	54.00	-7.67	AVG			

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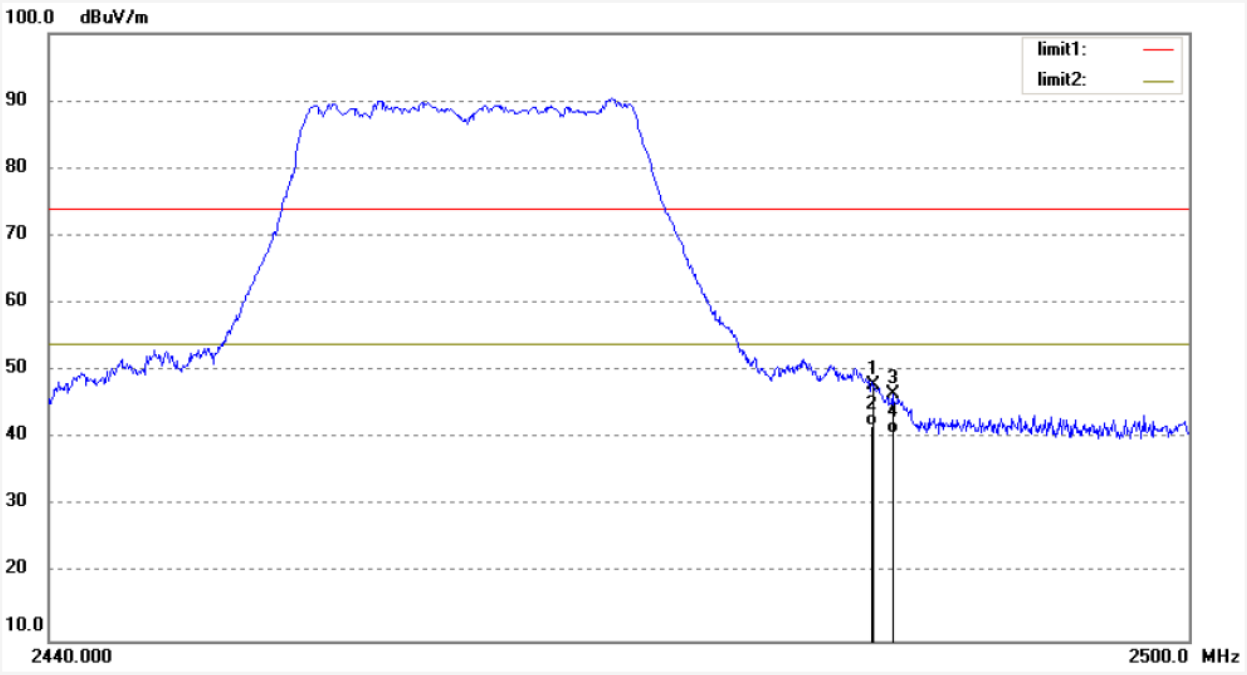
Job No.: alen #2544
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2462MHz(802.11n20)
Model: U001
Manufacturer: Trimax

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/47/28
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.260	54.42	-6.54	47.88	74.00	-26.12	peak			
2	2483.260	48.48	-6.54	41.94	54.00	-12.06	AVG			
3	2484.280	53.08	-6.54	46.54	74.00	-27.46	peak			
4	2484.280	47.21	-6.54	40.67	54.00	-13.33	AVG			

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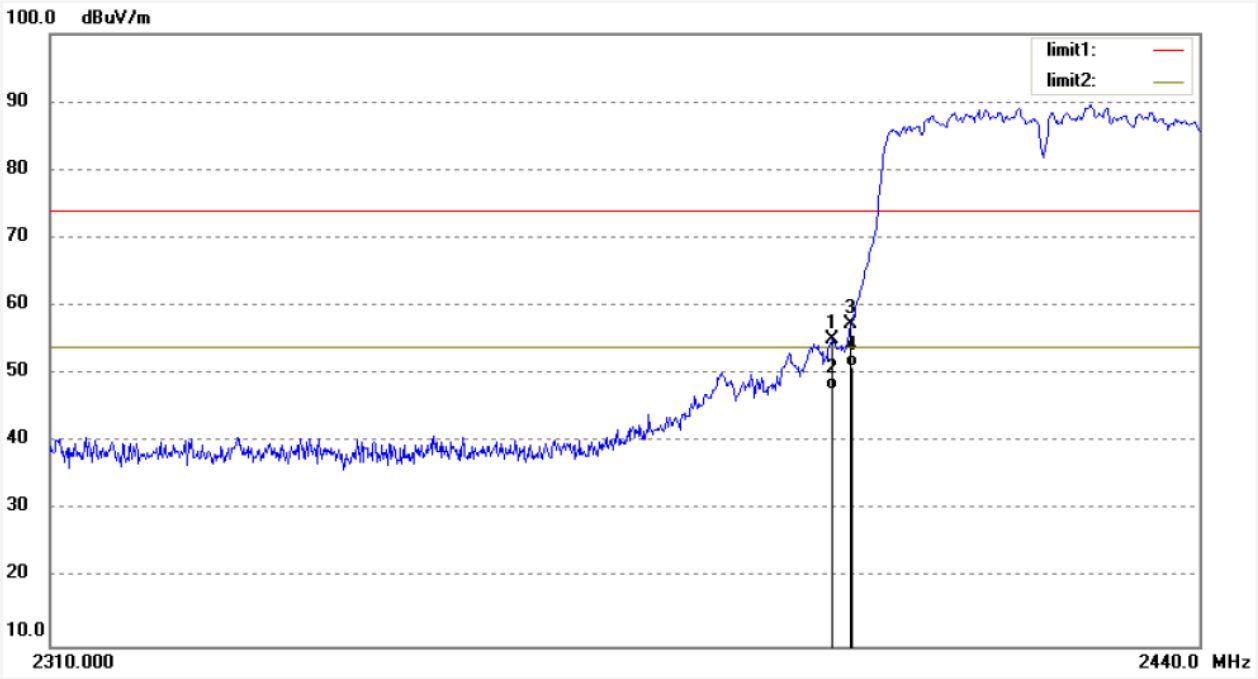
Job No.: alen #2547
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2422MHz(802.11n40)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/51/27
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2397.880	61.90	-6.76	55.14	74.00	-18.86	peak			
2	2397.880	54.56	-6.76	47.80	54.00	-6.20	AVG			
3	2399.830	64.10	-6.76	57.34	74.00	-16.66	peak			
4	2399.830	57.89	-6.76	51.13	54.00	-2.87	AVG			

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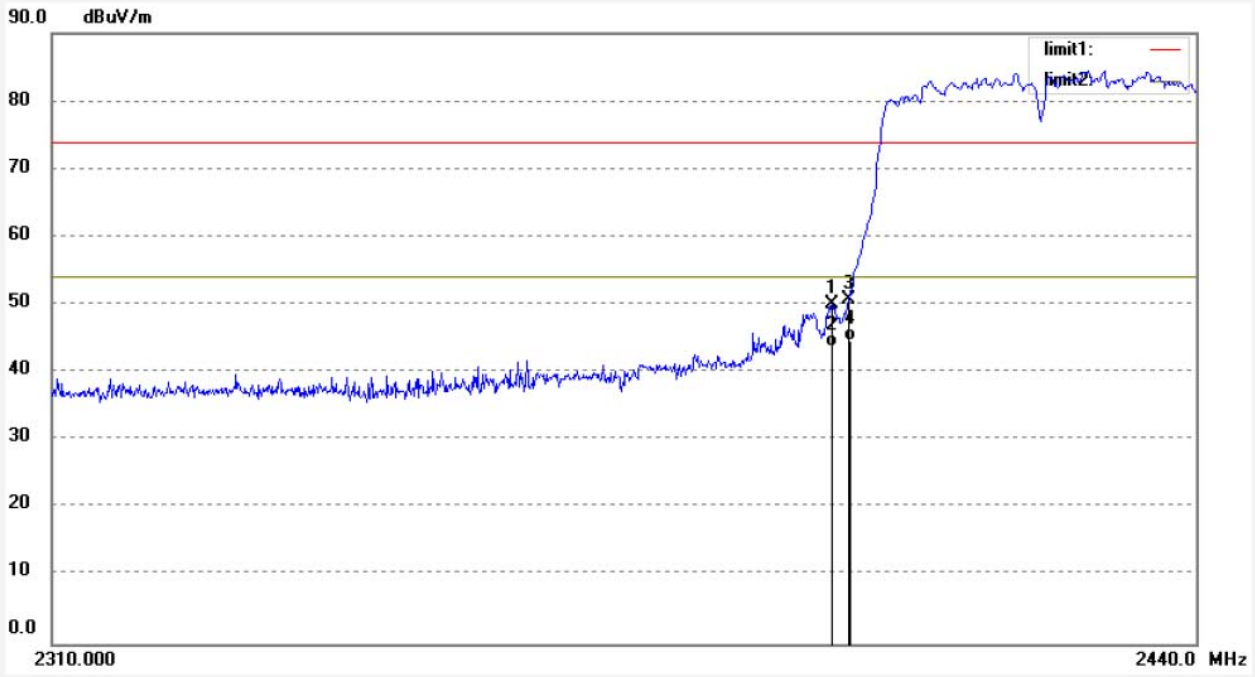
Job No.: alen #2548
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2422MHz(802.11n40)
Model: U001
Manufacturer: Trimax

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/53/04
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.010	56.89	-6.76	50.13	74.00	-23.87	peak			
2	2398.010	50.57	-6.76	43.81	54.00	-10.19	AVG			
3	2399.830	57.48	-6.76	50.72	74.00	-23.28	peak			
4	2399.830	51.35	-6.76	44.59	54.00	-9.41	AVG			

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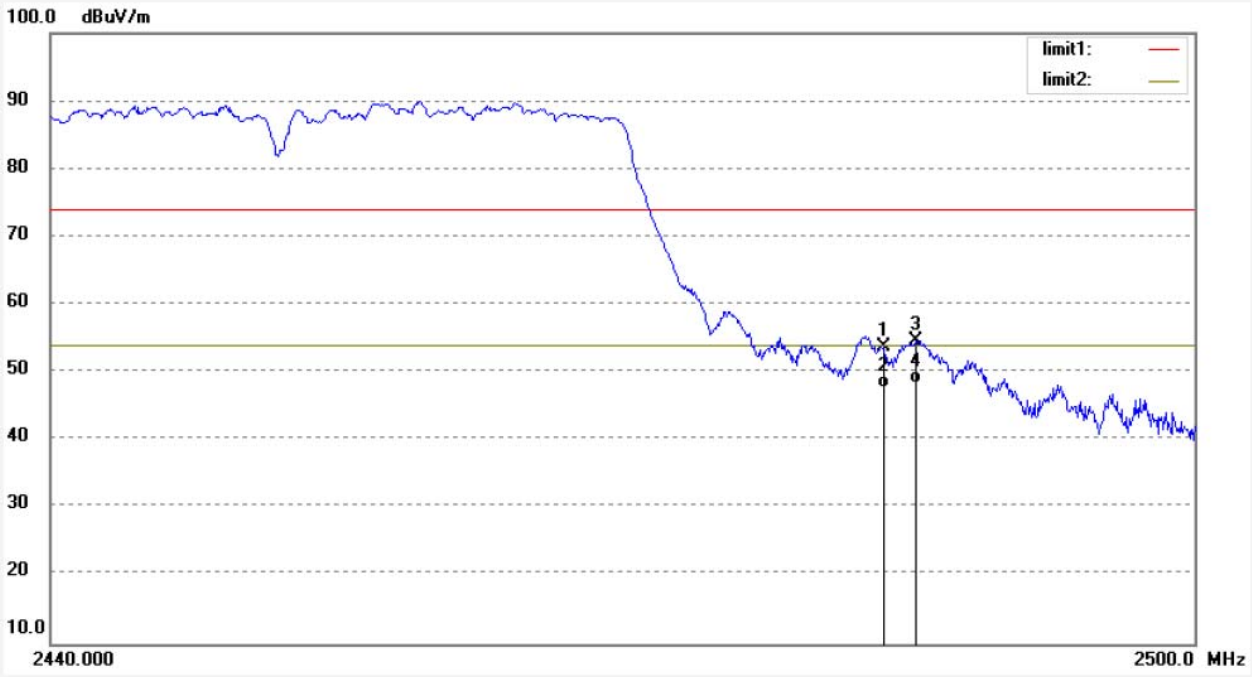
Job No.: alen #2546
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2452MHz(802.11n40)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/49/51
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.560	60.37	-6.54	53.83	74.00	-20.17	peak			
2	2483.560	54.14	-6.54	47.60	54.00	-6.40	AVG			
3	2485.240	61.30	-6.54	54.76	74.00	-19.24	peak			
4	2485.240	55.01	-6.54	48.47	54.00	-5.53	AVG			

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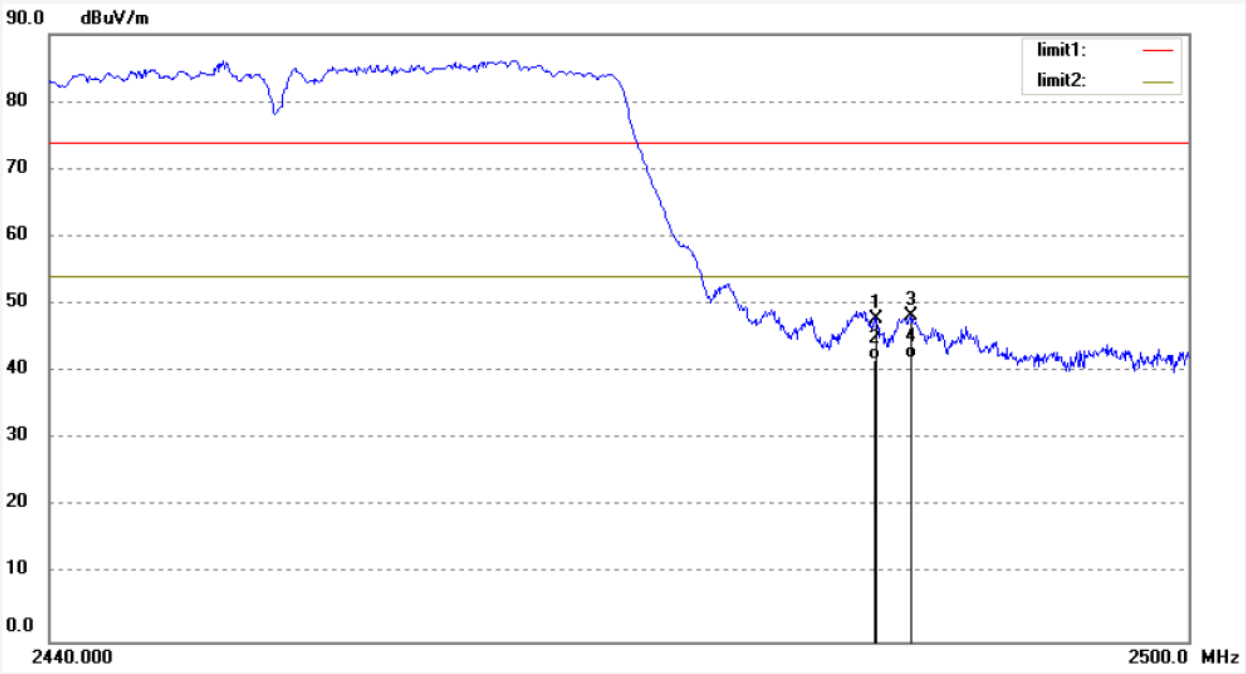
Job No.: alen #2545
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2452MHz(802.11n40)
Model: U001
Manufacturer: Trimax

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/12/30/
Time: 14/48/44
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586

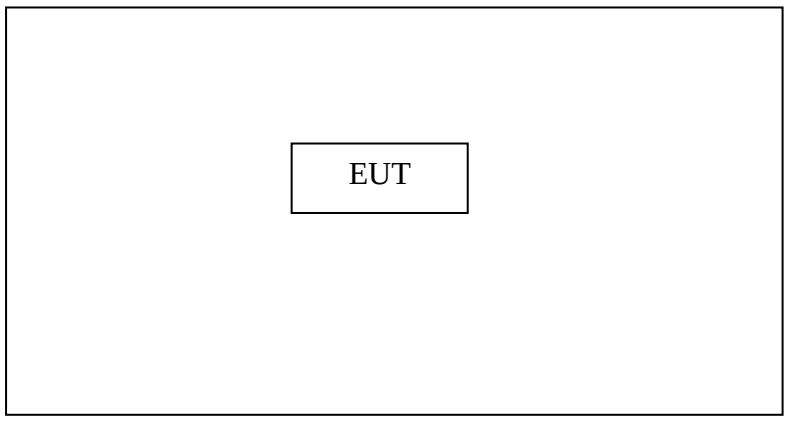


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.440	54.25	-6.54	47.71	74.00	-26.29	peak			
2	2483.440	48.35	-6.54	41.81	54.00	-12.19	AVG			
3	2485.300	54.80	-6.54	48.26	74.00	-25.74	peak			
4	2485.300	48.56	-6.54	42.02	54.00	-11.98	AVG			

9. RADIATED SPURIOUS EMISSION TEST

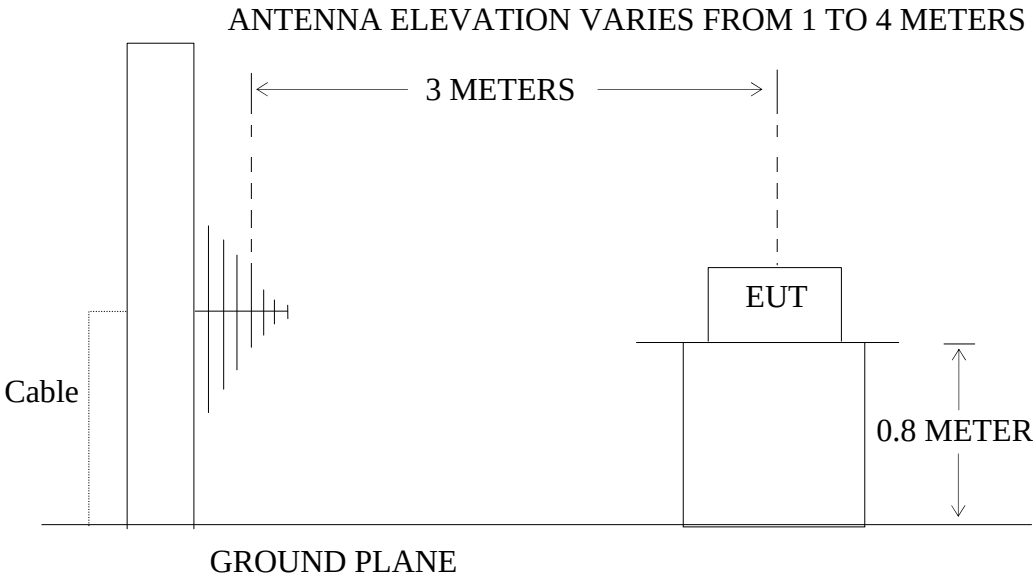
9.1.Block Diagram of Test Setup

9.1.1.Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

9.1.2.Semi-Anechoic Chamber Test Setup Diagram



9.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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. If the

transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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).

9.3.Restricted bands of operation

9.3.1.FCC Part 15.205 Restricted bands of operation

(a) 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
[1]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	2690-2900	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	([2])
13.36-13.41			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510

[2]Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

9.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.5.Operating Condition of EUT

9.5.1.Setup the EUT and simulator as shown as Section 9.1.

9.5.2.Turn on the power of all equipment.

9.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

9.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.
The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode and 150Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz is checked.
The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

9.7.The Field Strength of Radiation Emission Measurement Results

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.

4. The EUT is tested radiation emission at each test mode(802.11 b/g/n) in three axes. The worst emissions are reported in all test mode and channels.

5. The 18-25GHz emissions are not reported, because the levels are too low against the limit.

Below 1G

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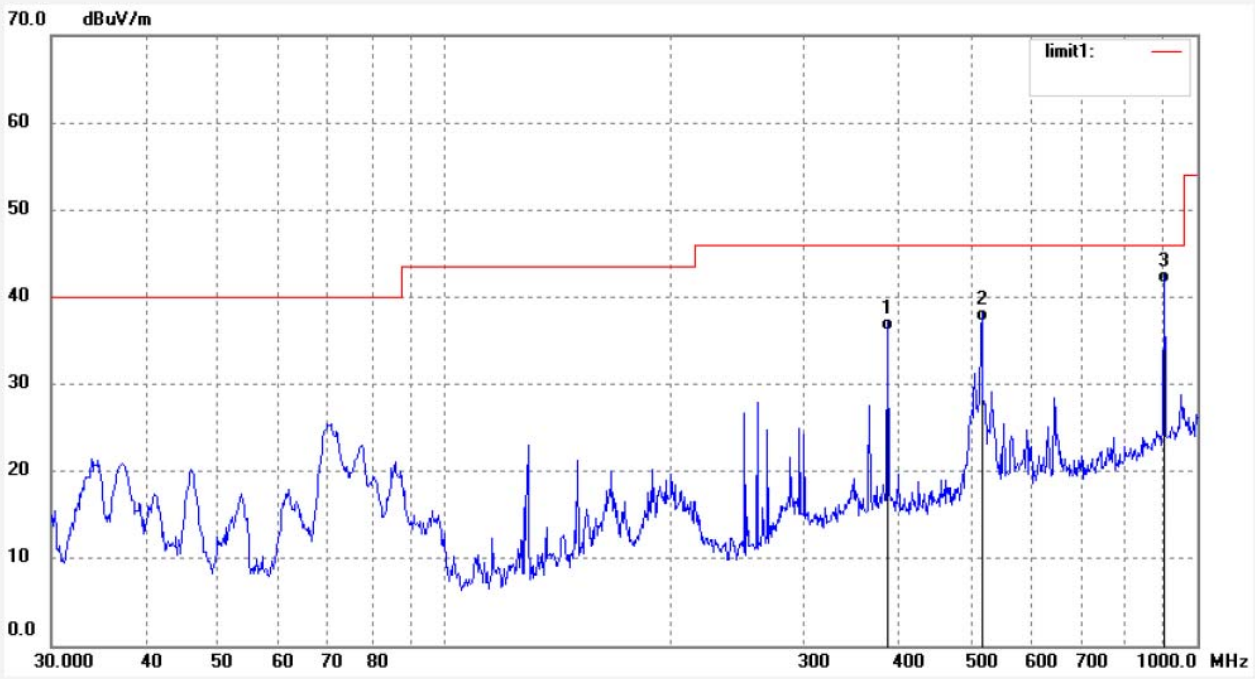
Job No.: alen #3302
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart TV Box
Mode: TX 2412MHz(802.11b)
Model: U001
Manufacturer: Trimax

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 14/01/02/
Time: 8/36/24
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132586



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	387.9920	51.89	-15.74	36.15	46.00	-9.85	QP			
2	517.2480	50.67	-13.55	37.12	46.00	-8.88	QP			
3	903.3093	47.54	-6.05	41.49	46.00	-4.51	QP			