

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
YuppTV USA, Inc.

YuppTV Media Player
Model No.: Y001

FCC ID: 2ADW5-Y001

Prepared for : YuppTV USA, Inc.
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Report No. : ATE20142548
Date of Test : Dec 22, 2014-Dec 31, 2014
Date of Report : Dec 31, 2014

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Test Report Certification

Applicant : YuppTV USA, Inc.
Manufacturer : YuppTV USA, Inc.
EUT Description : YuppTV Media Player
(A) MODEL NO.: Y001
(B) Trade Name.: YuppTV
(C) POWER SUPPLY: AC 120V/60Hz(Powered by Adapter)

Measurement Procedure Used:

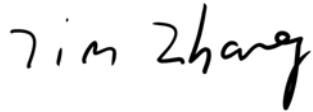
FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2009

The EUT was tested according to DTS test procedure of Jun 05, 2014 KDB558074 D01 DTS Meas Guidance v03r02 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 : _____ Dec 22, 2014-Dec 31, 2014

Prepared by : _____
(Tim.zhang, Engineer)


Approved & Authorized Signer : _____
(Sean Liu, Manager)


1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	YuppTV Media Player
Model Number	:	Y001
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	:	0dBi
Type of Antenna	:	Integral Antenna
Power Supply	:	AC 120V/60Hz (Powered by Adapter)
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
Adapter	:	Model:RJ-AS050200U501 Input: AC 100-240V 50/60Hz 0.5A Output: 5.0V 2A
Modulation Type	:	CCK, OFDM
Applicant	:	YuppTV USA, Inc.
Address	:	11175, Cicero Dr, Suite 100, Alpharetta, GA, 30022, USA
Manufacturer	:	YuppTV USA, Inc.
Address	:	11175, Cicero Dr, Suite 100, Alpharetta, GA, 30022, USA
Date of sample received	:	Dec 22, 2014
Date of Test	:	Dec 22-Dec 31, 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.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. 11, 2014	Jan. 10, 2015
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2014	Jan. 10, 2015
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2014	Jan. 10, 2015
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 11, 2014	Jan. 10, 2015
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2014	Jan. 14, 2015
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2014	Jan. 14, 2015
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2014	Jan. 10, 2015
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2014	Jan. 10, 2015
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 11, 2014	Jan. 10, 2015
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 11, 2014	Jan. 10, 2015

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

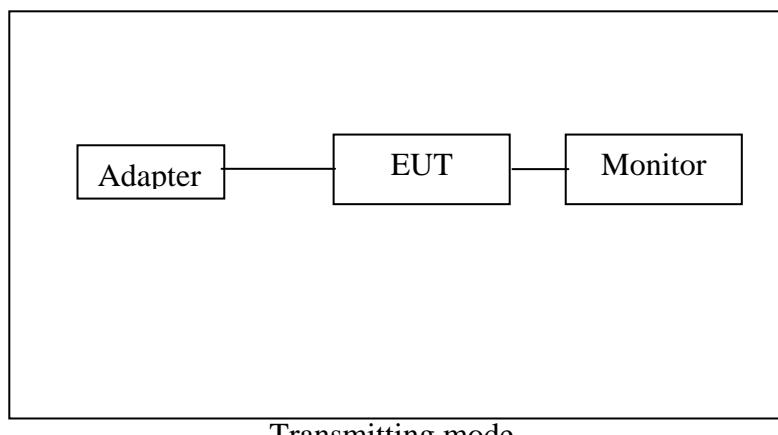
3.802.11n (20MHz) Transmitting mode

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

4.802.11n (40MHz) Transmitting mode

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

3.2. Configuration and peripherals

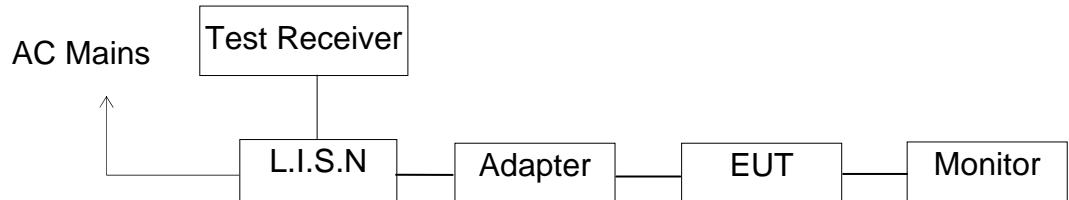


4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Power Line Conducted Emission	Compliant
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 15.203	Antenna Requirement	Compliant

5. POWER LINE CONDUCTED MEASUREMENT

5.1. Block Diagram of Test Setup



(EUT: YuppTV Media Player)

5.2. Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

NOTE1: The lower limit shall apply at the transition frequencies.
 NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a 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 test mode and measure it.

5.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : WIFI communicating								
MEASUREMENT RESULT: "CQER004_fin"								
2014-12-26 23:47								
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE	
0.356000	48.30	11.2	59	10.5	QP	L1	GND	
0.372000	48.30	11.2	59	10.2	QP	L1	GND	
4.209500	45.20	11.8	56	10.8	QP	L1	GND	
10.509500	50.60	11.9	60	9.4	QP	L1	GND	
MEASUREMENT RESULT: "CQER004_fin2"								
2014-12-26 23:47								
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE	
0.374000	44.20	11.2	48	4.2	AV	L1	GND	
3.759500	38.10	11.7	46	7.9	AV	L1	GND	
10.491500	41.00	11.9	50	9.0	AV	L1	GND	
MEASUREMENT RESULT: "CQER002_fin"								
2014-12-26 23:40								
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE	
0.362000	48.00	11.2	59	10.7	QP	N	GND	
0.474000	44.50	11.4	56	11.9	QP	N	GND	
10.586000	48.50	11.9	60	11.5	QP	N	GND	
MEASUREMENT RESULT: "CQER002_fin2"								
2014-12-26 23:40								
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE	
0.370000	44.00	11.2	49	4.5	AV	N	GND	
0.472000	39.30	11.4	47	7.2	AV	N	GND	
10.676000	38.90	11.9	50	11.1	AV	N	GND	

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

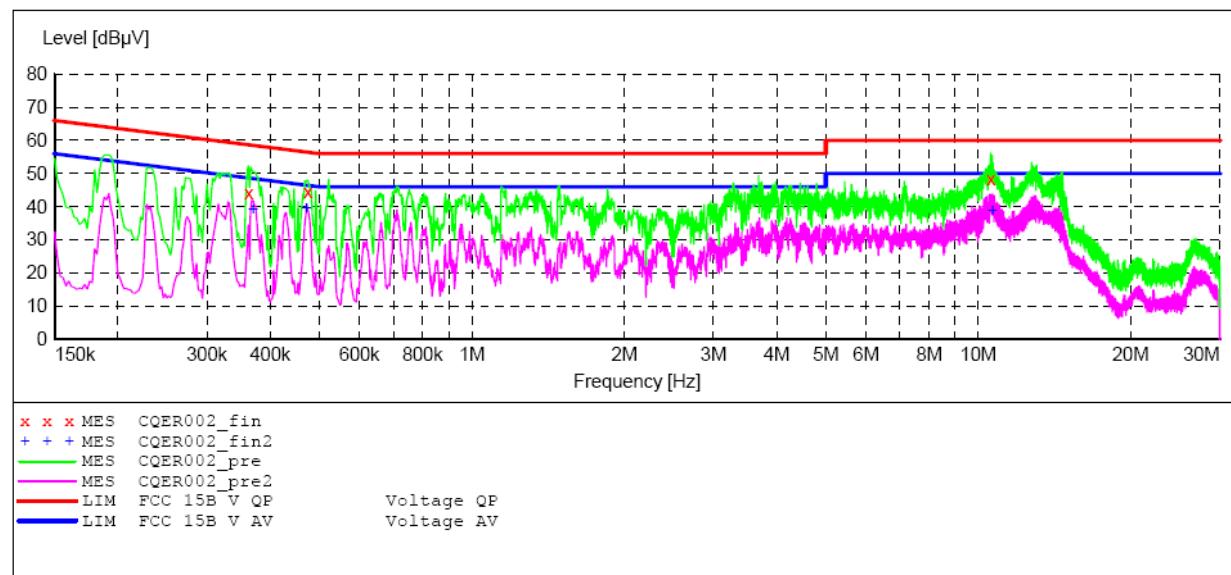
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: YuppTV Miedia Player M/N:Y001
 Manufacturer: YuppTV USA, Inc.
 Operating Condition: WIFI Operation
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20142548
 Start of Test: 2014-12-26 / 23:37:45

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average

**MEASUREMENT RESULT: "CQER002_fin"**

2014-12-26 23:40

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.362000	48.00	11.2	59	10.7	QP	N	GND
0.474000	44.50	11.4	56	11.9	QP	N	GND
10.586000	48.50	11.9	60	11.5	QP	N	GND

MEASUREMENT RESULT: "CQER002_fin2"

2014-12-26 23:40

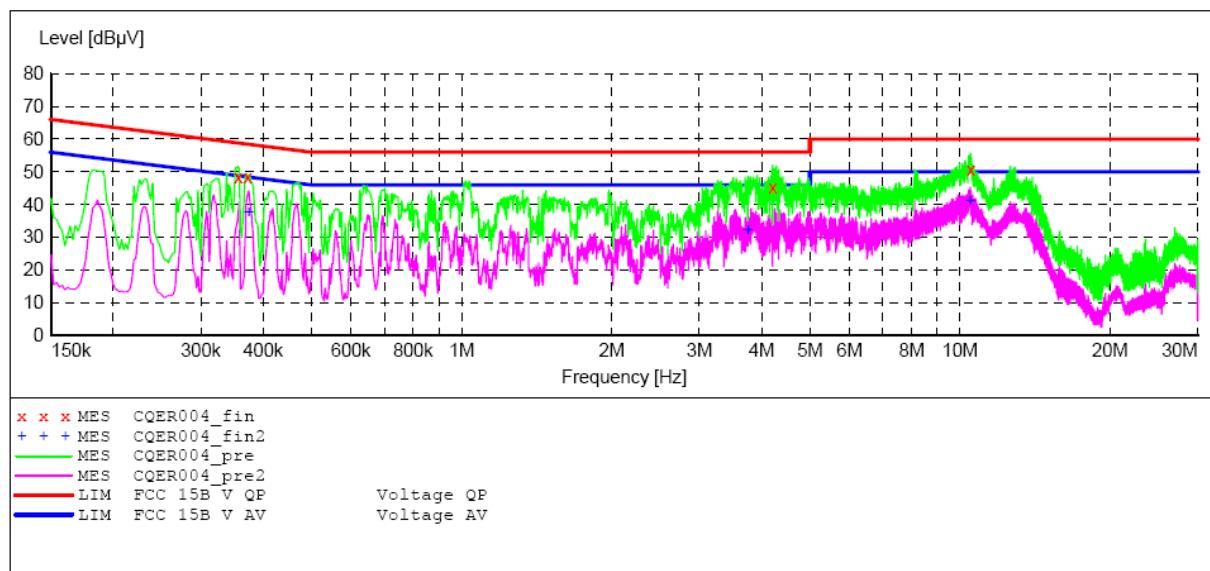
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.370000	44.00	11.2	49	4.5	AV	N	GND
0.472000	39.30	11.4	47	7.2	AV	N	GND
10.676000	38.90	11.9	50	11.1	AV	N	GND

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: YuppTV Miedia Player M/N:Y001
 Manufacturer: YuppTV USA, Inc.
 Operating Condition: WIFI Operation
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20142548
 Start of Test: 2014-12-26 / 23:44:22

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average

**MEASUREMENT RESULT: "CQER004_fin"**

2014-12-26 23:47

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.356000	48.30	11.2	59	10.5	QP	L1	GND
0.372000	48.30	11.2	59	10.2	QP	L1	GND
4.209500	45.20	11.8	56	10.8	QP	L1	GND
10.509500	50.60	11.9	60	9.4	QP	L1	GND

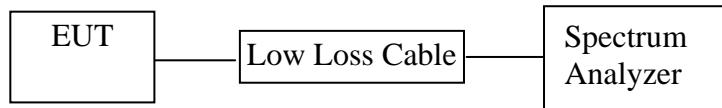
MEASUREMENT RESULT: "CQER004_fin2"

2014-12-26 23:47

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.374000	44.20	11.2	48	4.2	AV	L1	GND
3.759500	38.10	11.7	46	7.9	AV	L1	GND
10.491500	41.00	11.9	50	9.0	AV	L1	GND

6. 6DB&20DB BANDWIDTH MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. 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.

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 5.1.

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

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times RBW$.
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.

20dB bandwidth

1. Set resolution bandwidth (RBW) = 1%-5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times RBW$.

3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the -20 dB levels with respect to the reference level

6.6. Test Result

The test was performed with 802.11b				
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2412	10.52	17.60	> 0.5MHz
Middle	2437	10.04	17.52	> 0.5MHz
High	2462	10.26	17.52	> 0.5MHz

The test was performed with 802.11g				
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.60	19.52	> 0.5MHz
Middle	2437	16.64	20.24	> 0.5MHz
High	2462	16.60	20.00	> 0.5MHz

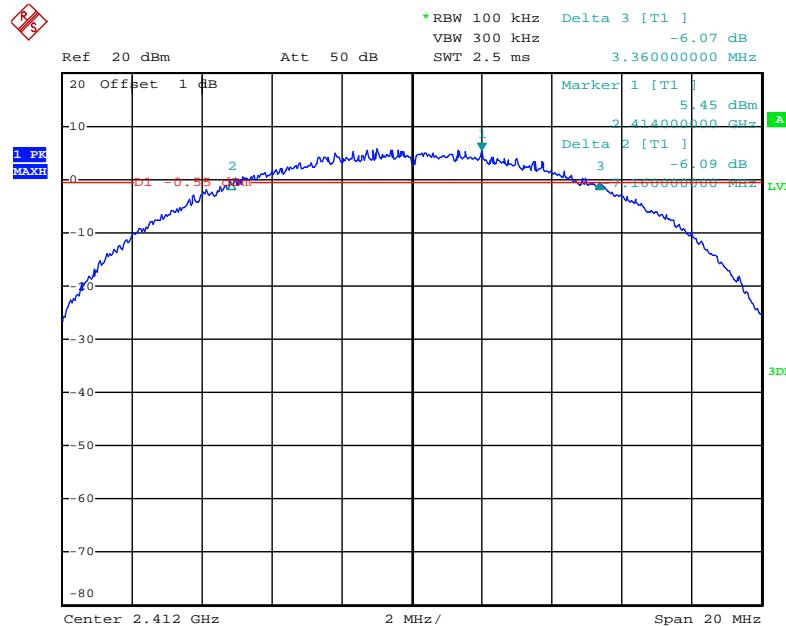
The test was performed with 802.11n (Bandwidth: 20 MHz)				
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.84	20.64	> 0.5MHz
Middle	2437	17.84	20.80	> 0.5MHz
High	2462	17.84	20.80	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 40 MHz)				
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2422	36.48	41.12	> 0.5MHz
Middle	2437	36.44	40.64	> 0.5MHz
High	2452	36.40	40.96	> 0.5MHz

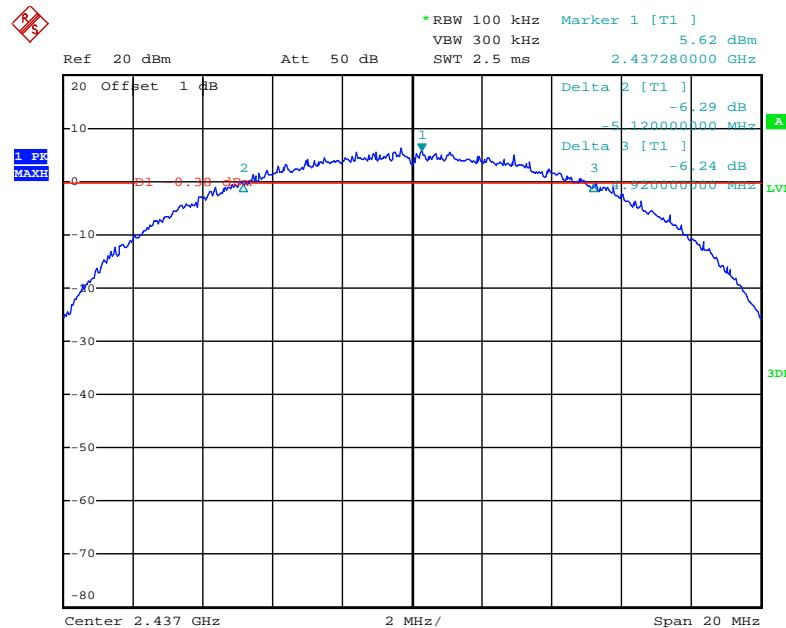
The spectrum analyzer plots are attached as below.

6dB Bandwidth

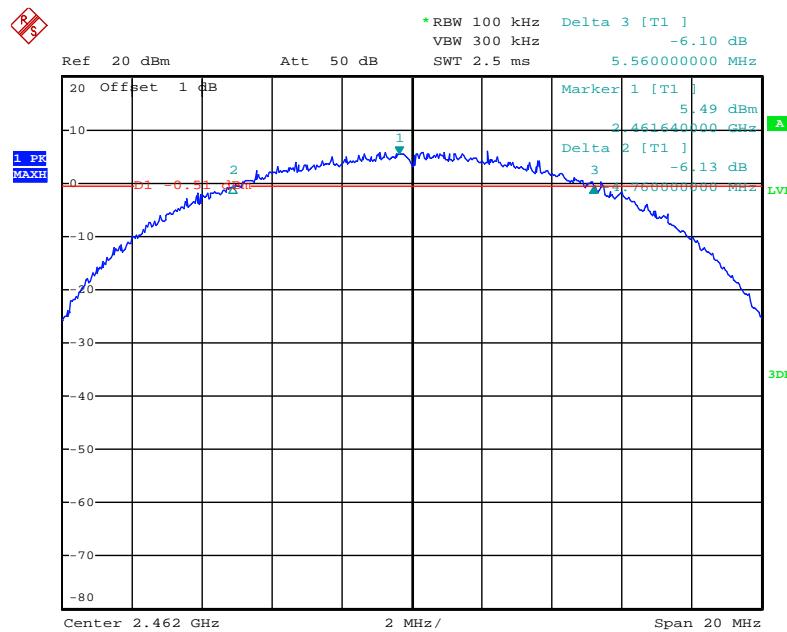
802.11b Channel Low 2412MHz



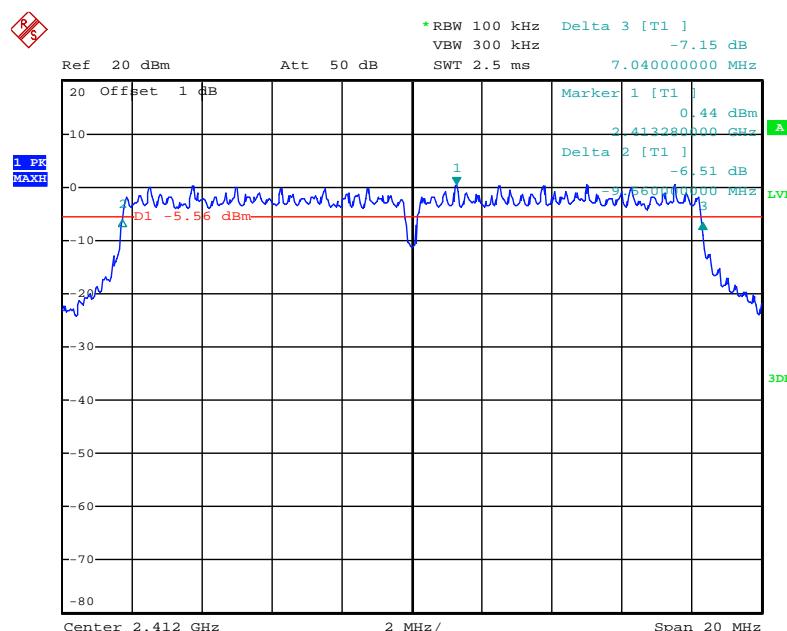
802.11b Channel Middle 2437MHz



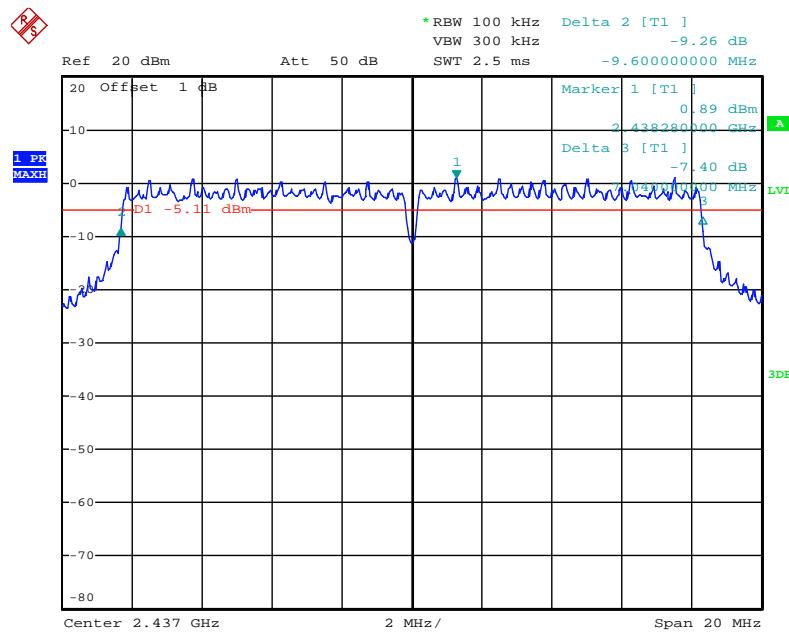
802.11b Channel High 2462MHz



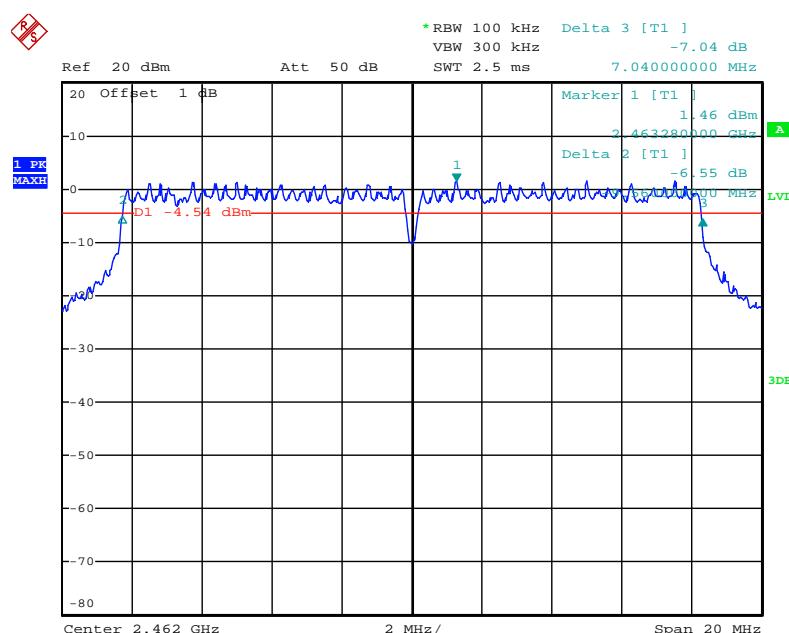
802.11g Channel Low 2412MHz



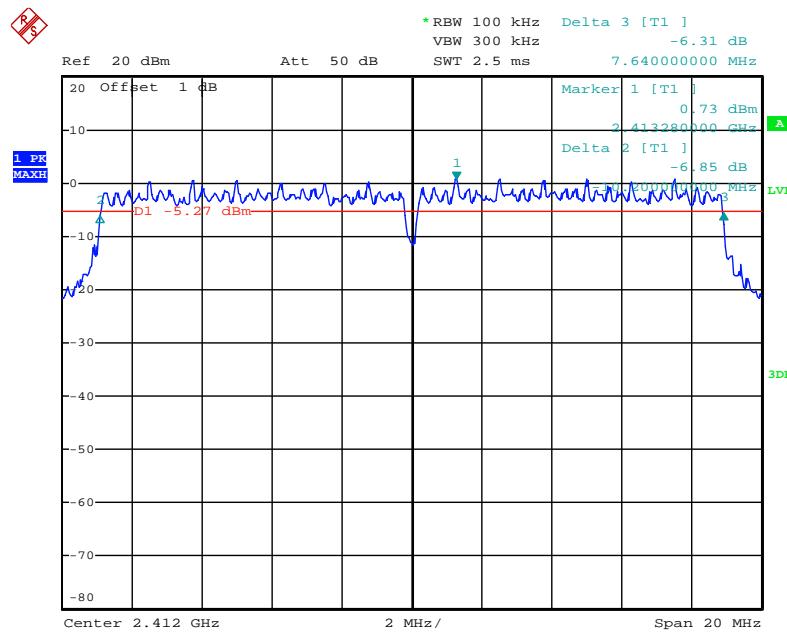
802.11g Channel Middle 2437MHz



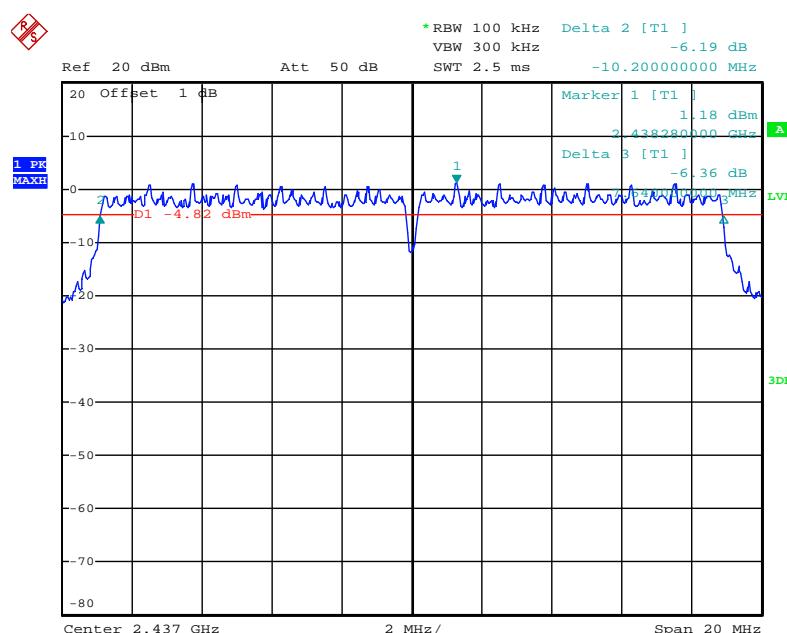
802.11g Channel High 2462MHz



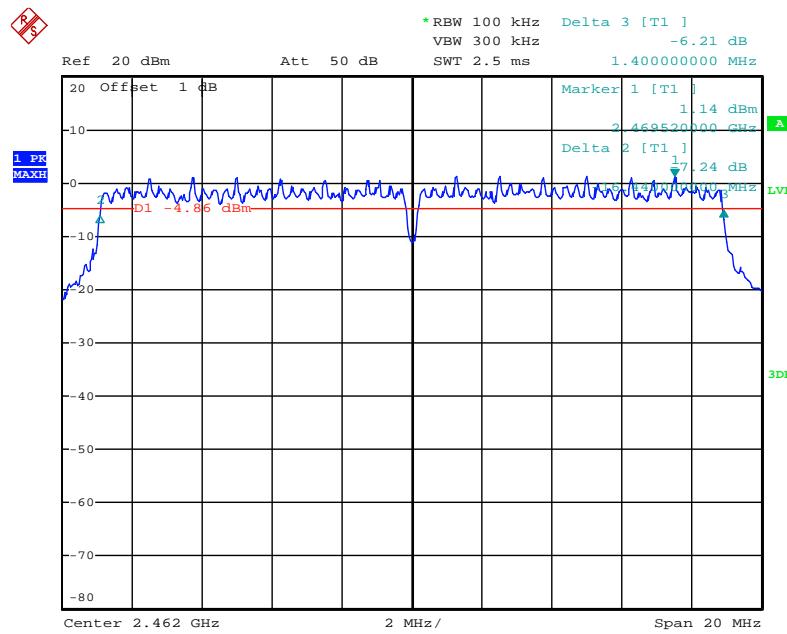
802.11n Channel Low 2412MHz (20MHz)



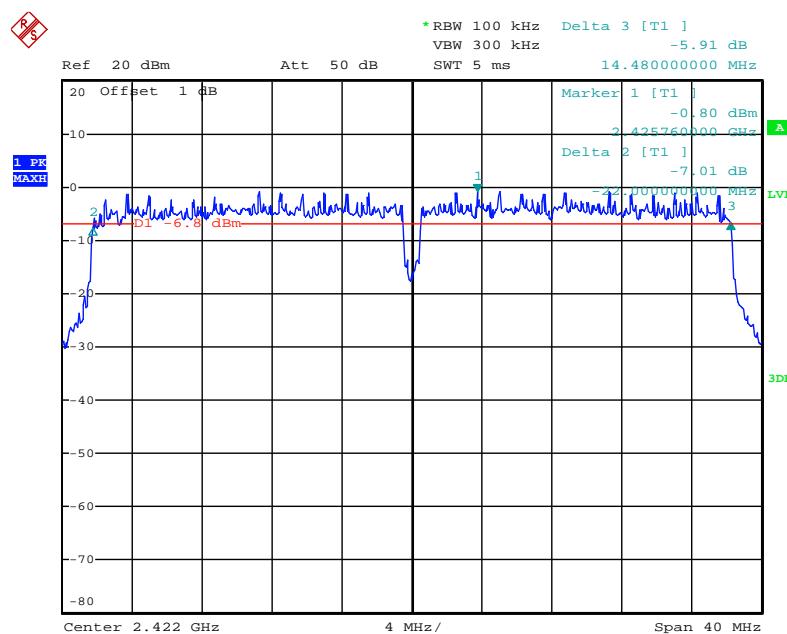
802.11n Channel Middle 2437MHz(20MHz)



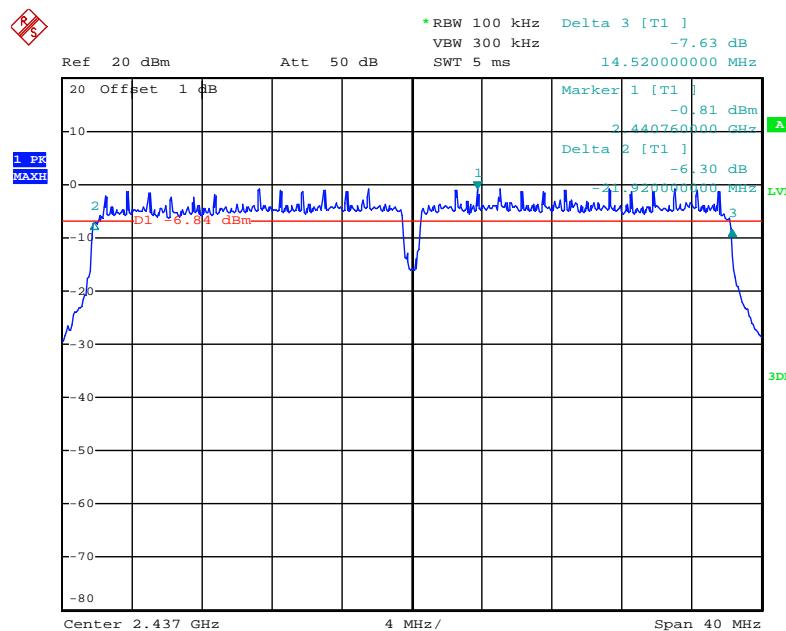
802.11n Channel High 2462MHz(20MHz)



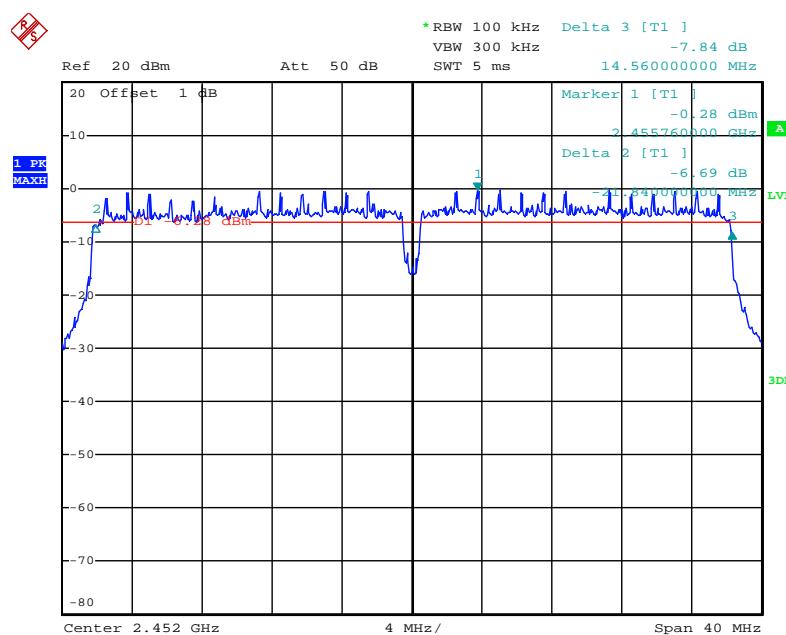
802.11n Channel Low 2422MHz (40MHz)



802.11n Channel Middle 2437MHz(40MHz)

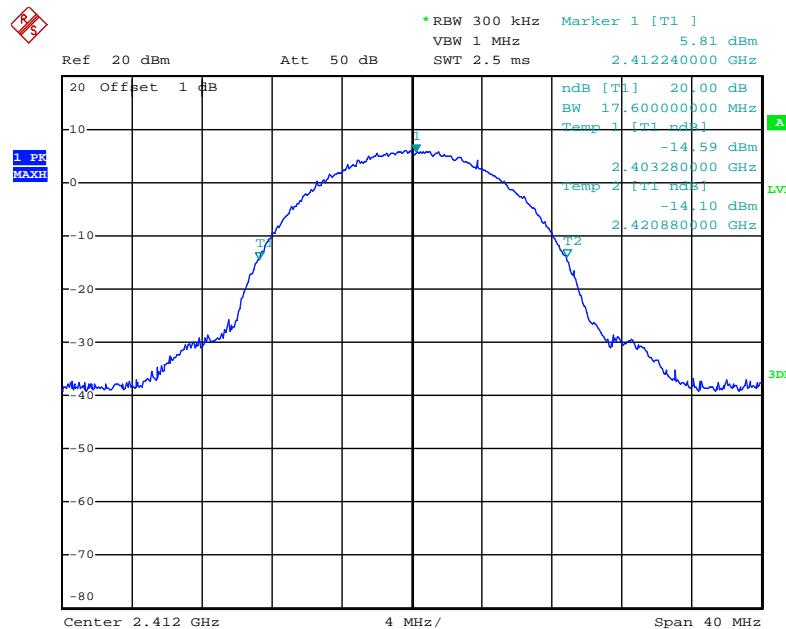


802.11n Channel High 2452MHz(40MHz)

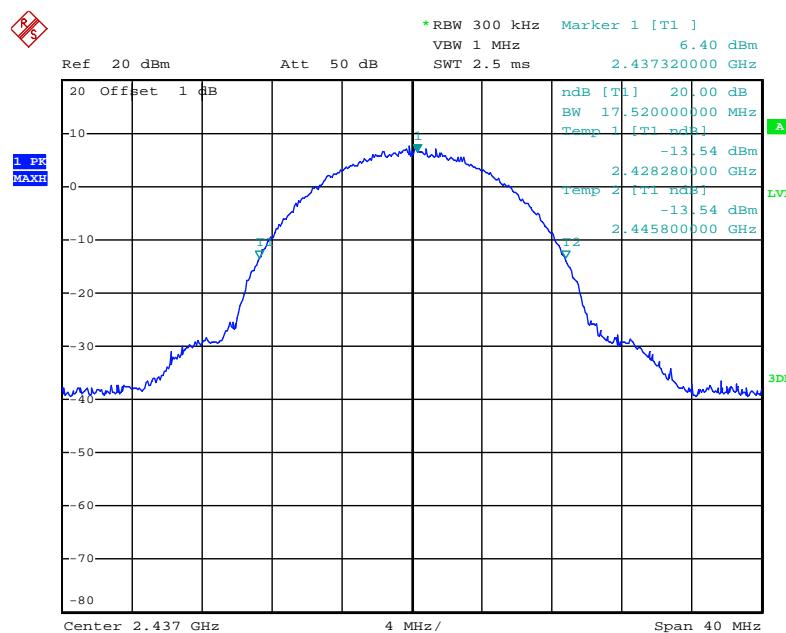


20dB Bandwidth

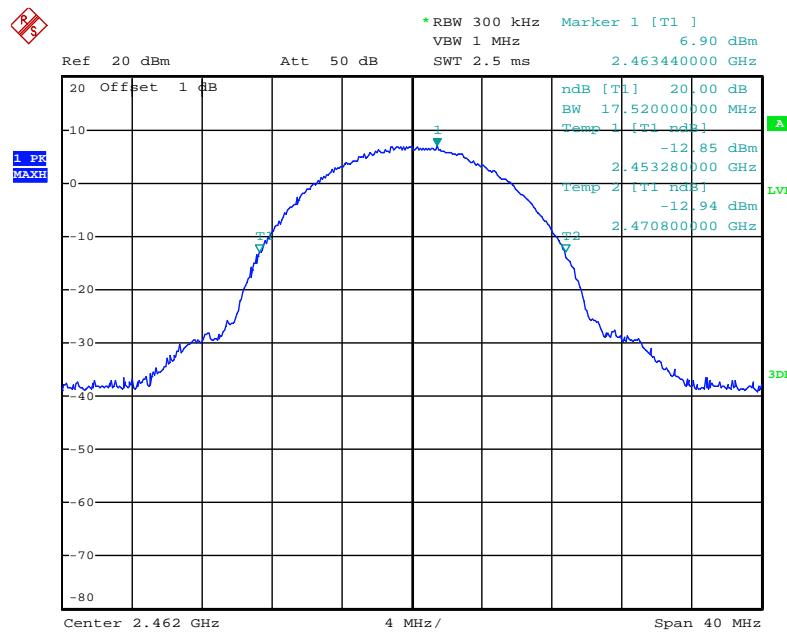
802.11b Channel Low 2412MHz



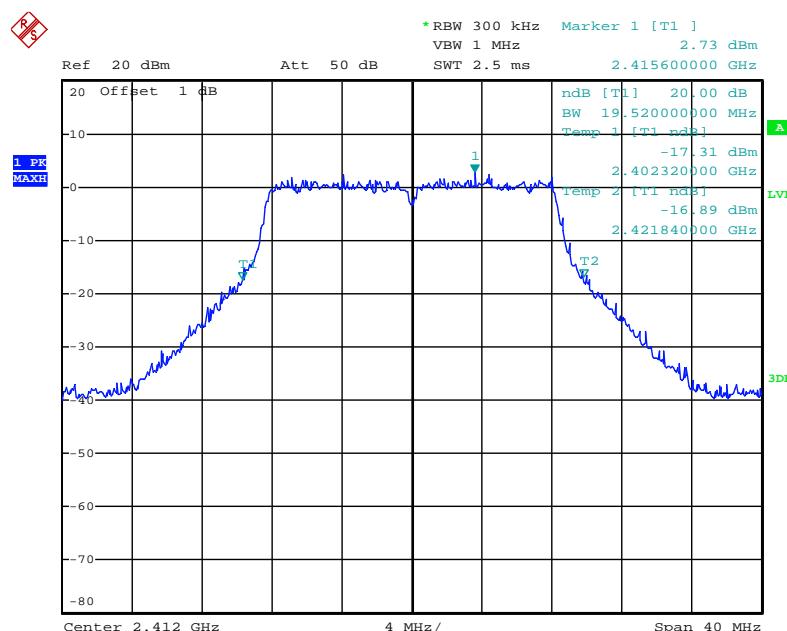
802.11b Channel Middle 2437MHz



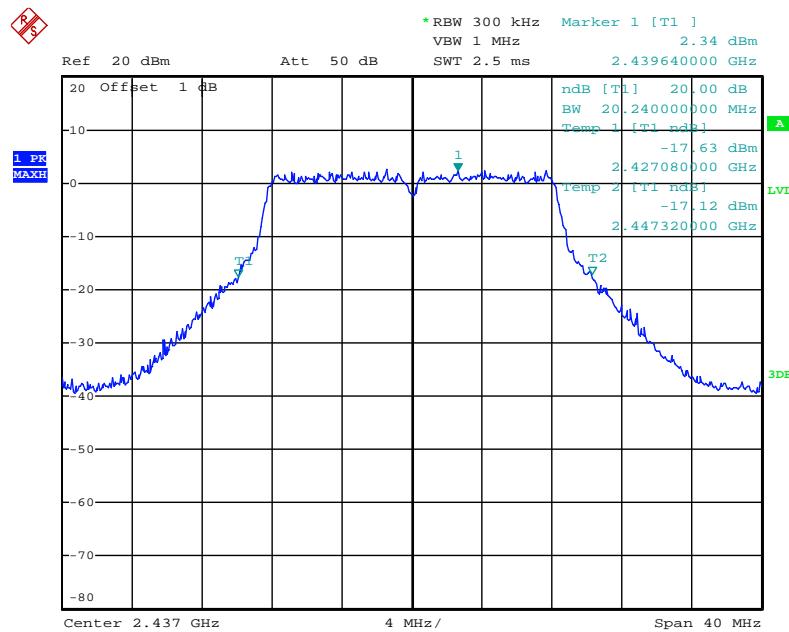
802.11b Channel High 2462MHz



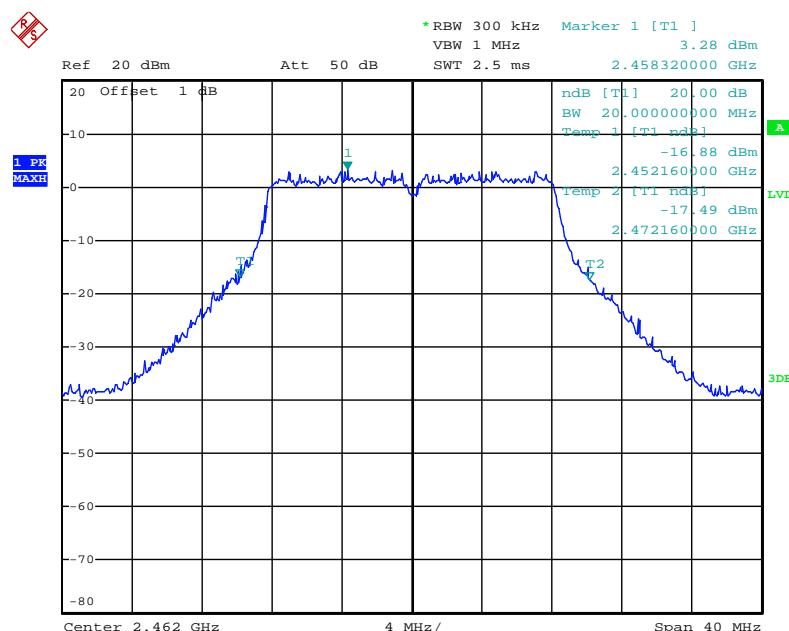
802.11g Channel Low 2412MHz



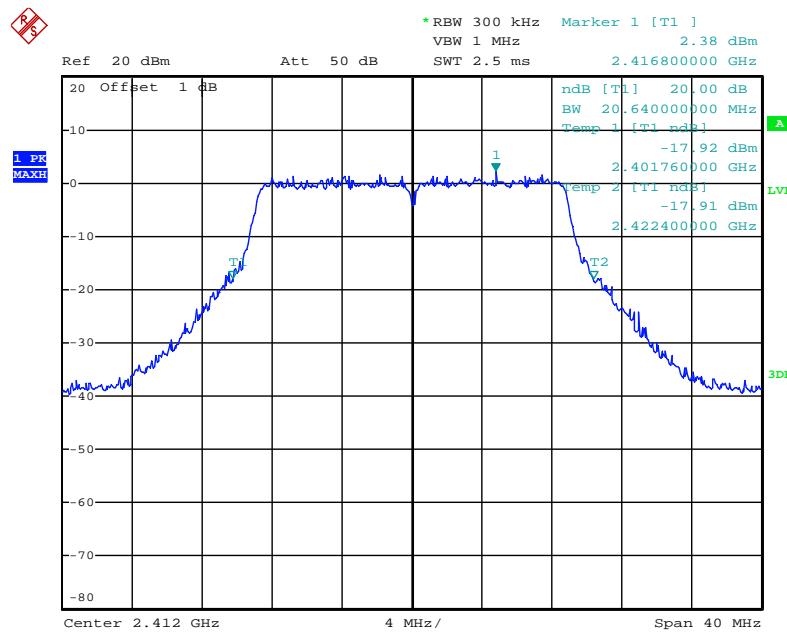
802.11g Channel Middle 2437MHz



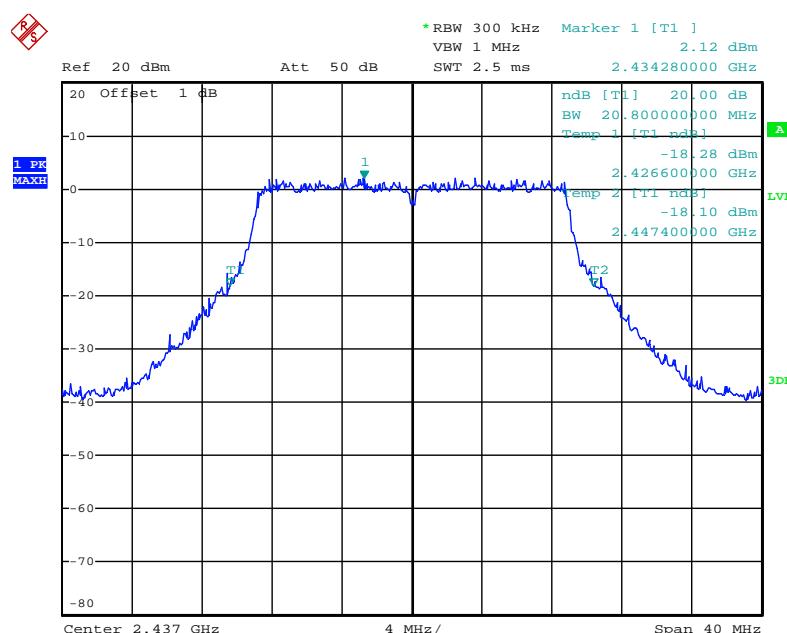
802.11g Channel High 2462MHz



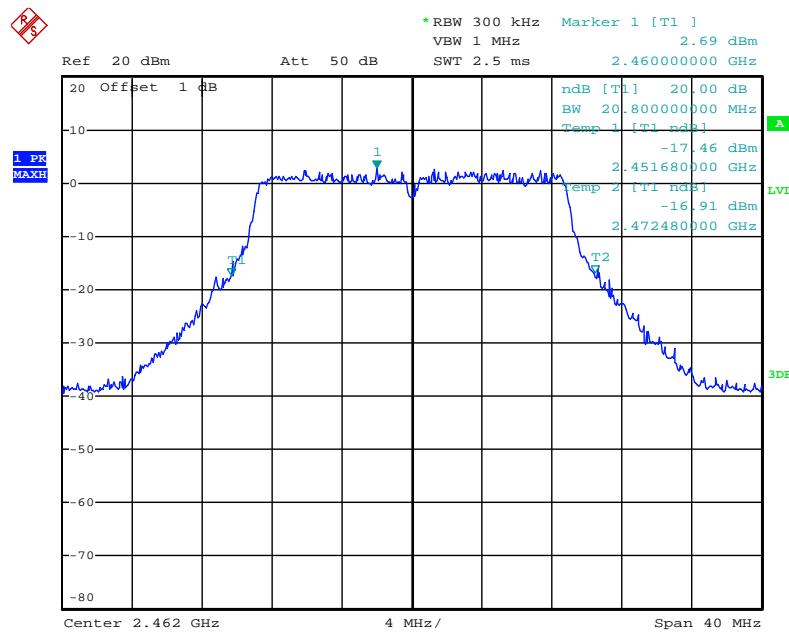
802.11n Channel Low 2412MHz (20MHz)



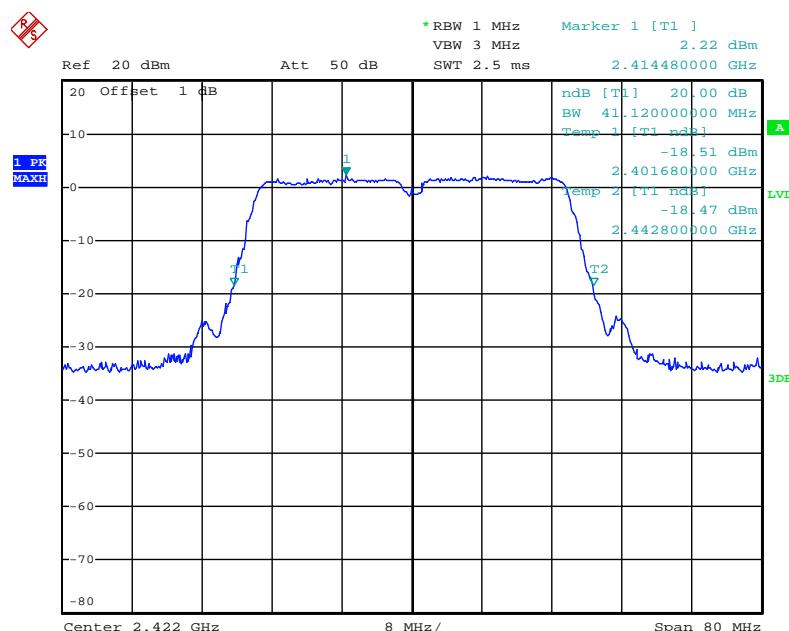
802.11n Channel Middle 2437MHz(20MHz)



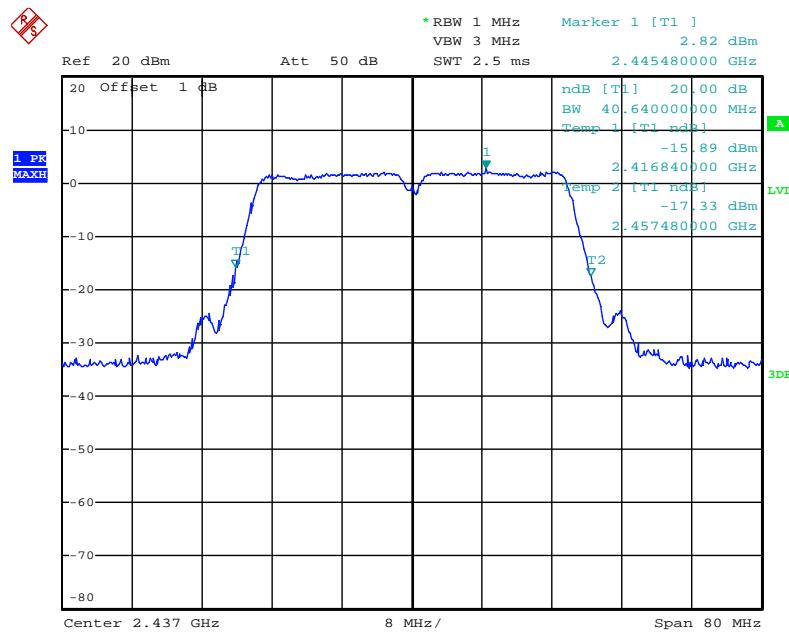
802.11n Channel High 2462MHz(20MHz)



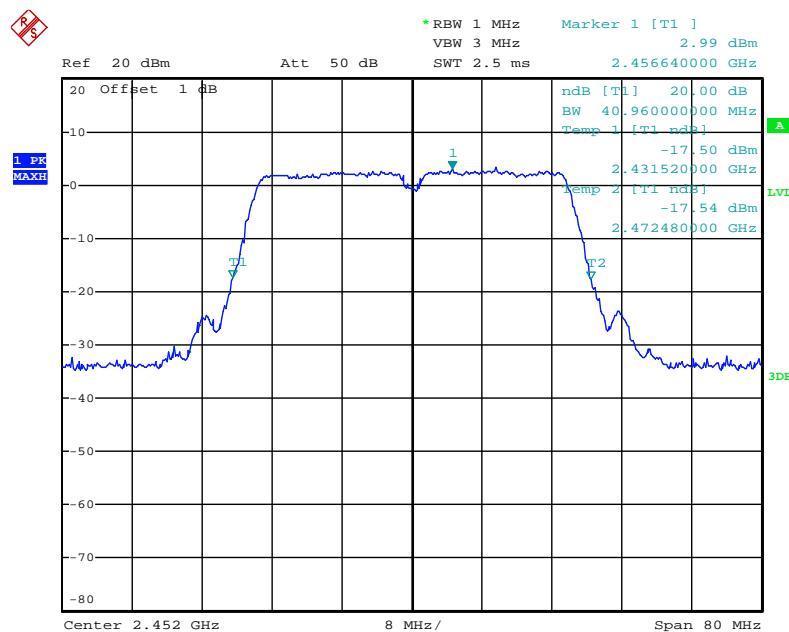
802.11n Channel Low 2422MHz (40MHz)



802.11n Channel Middle 2437MHz(40MHz)

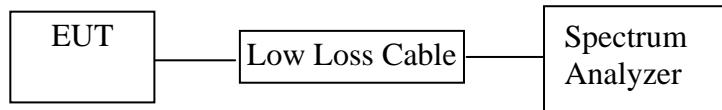


802.11n Channel High 2452MHz(40MHz)



7. MAXIMUM CONDUCTED (AVERAGE) OUTPUT POWER

7.1. Block Diagram of Test Setup



(EUT: YuppTV Media Player)

7.2. 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.

7.3. EUT Configuration on Measurement

The equipment is 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 EUT was tested according to DTS test procedure of Jun 05, 2014 KDB558074 D01 DTS Meas Guidance v03r02 for compliance to FCC 47CFR 15.247 requirements.

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

7.5.3. Set RBW = 1-5% of the OBW, not to exceed 1 MHz, VBW \geq 3 x RBW, Sweep time = auto, Set span to at least 1.5 times the OBW, Detector = RMS.

7.5.4. Measurement the Maximum conducted (average) output power.

7.6. Test Result

The test was performed with 802.11b				
Channel	Frequency (MHz)	Ave output power (dBm)	Ave output power (mW)	Limits dBm / W
Low	2412	12.36	17.22	30 dBm / 1 W
Middle	2437	12.42	17.46	30 dBm / 1 W
High	2462	12.22	16.67	30 dBm / 1 W

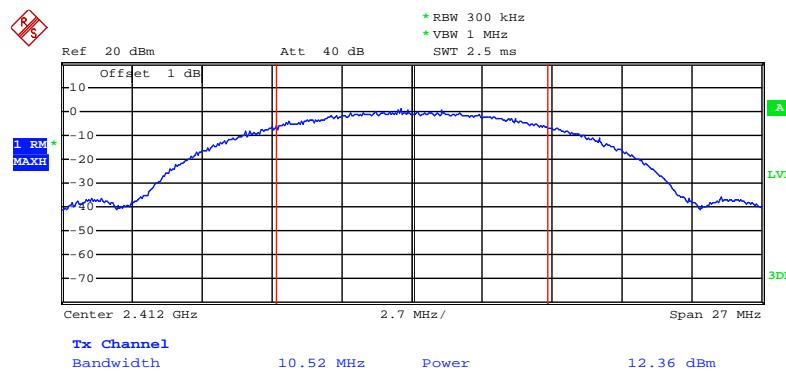
The test was performed with 802.11g				
Channel	Frequency (MHz)	Ave output power (dBm)	Ave output power (mW)	Limits dBm / W
Low	2412	10.56	11.38	30 dBm / 1 W
Middle	2437	10.87	12.22	30 dBm / 1 W
High	2462	11.13	12.97	30 dBm / 1 W

The test was performed with 802.11n (20MHz)				
Channel	Frequency (MHz)	Ave output power (dBm)	Ave output power (mW)	Limits dBm / W
Low	2412	10.50	11.22	30 dBm / 1 W
Middle	2437	10.70	11.75	30 dBm / 1 W
High	2462	10.84	12.13	30 dBm / 1 W

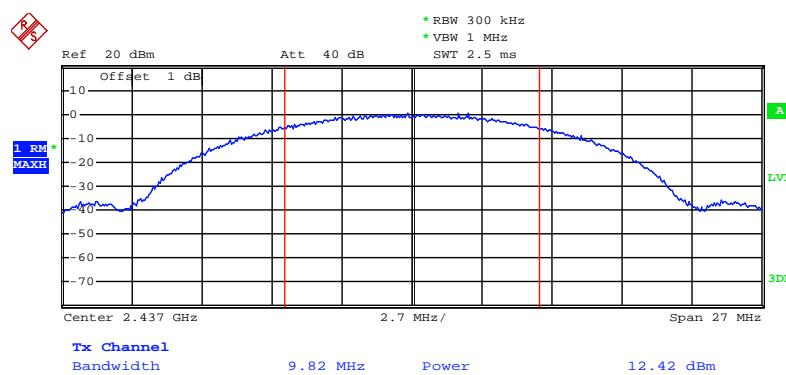
The test was performed with 802.11n (40MHz)				
Channel	Frequency (MHz)	Ave output power (dBm)	Ave output power (mW)	Limits dBm / W
Low	2422	8.87	7.71	30 dBm / 1 W
Middle	2437	9.21	8.34	30 dBm / 1 W
High	2452	9.45	8.81	30 dBm / 1 W

The spectrum analyzer plots are attached as below.

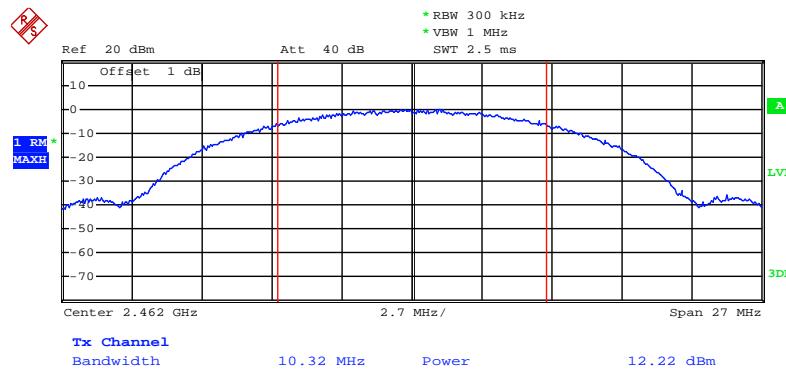
802.11b Channel Low 2412MHz



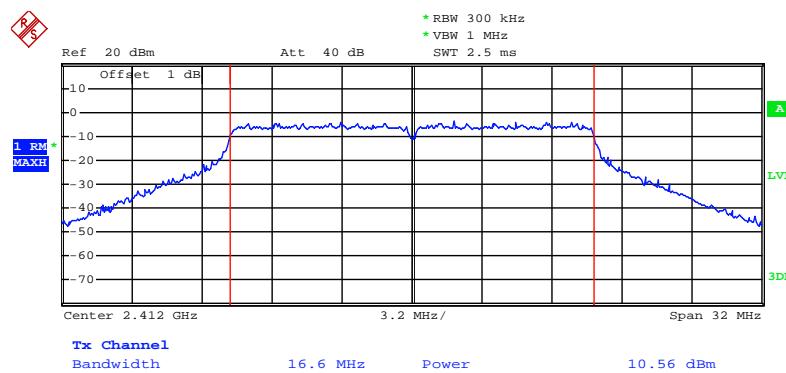
802.11b Channel Middle 2437MHz



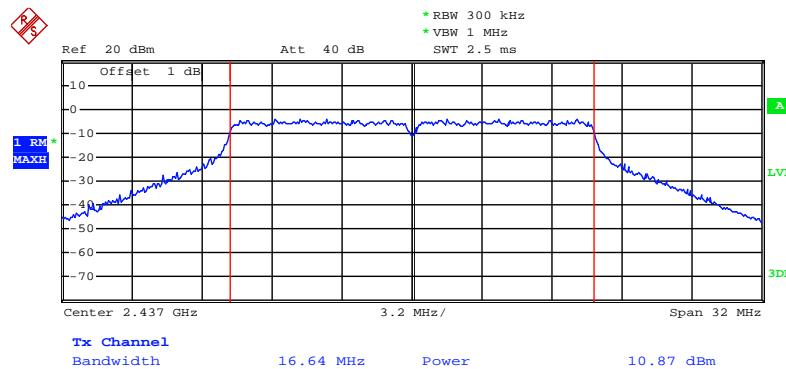
802.11b Channel High 2462MHz



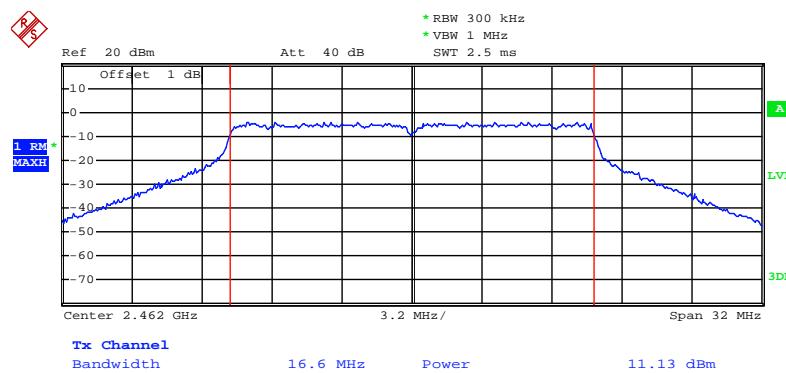
802.11g Channel Low 2412MHz



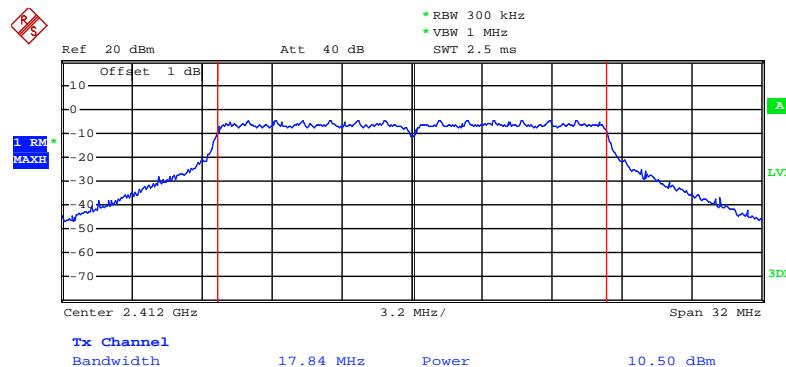
802.11g Channel Middle 2437MHz



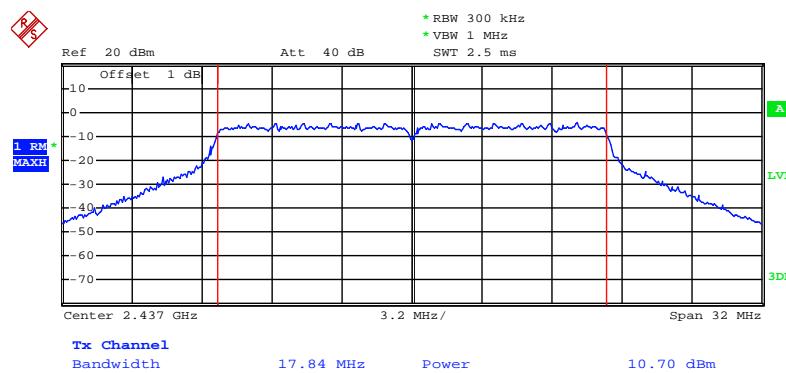
802.11g Channel High 2462MHz



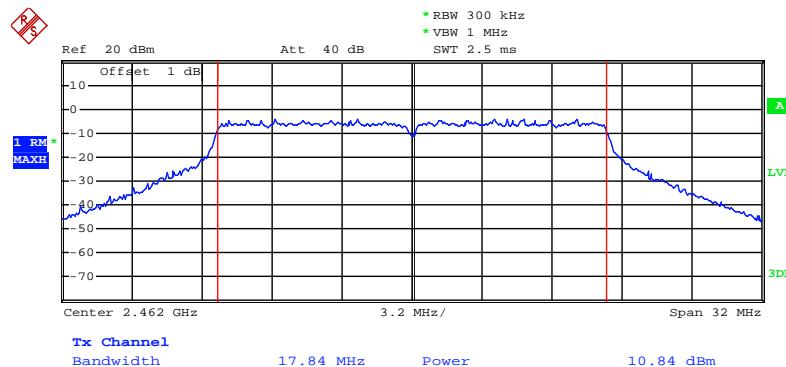
802.11n Channel Low 2412MHz (20MHz)



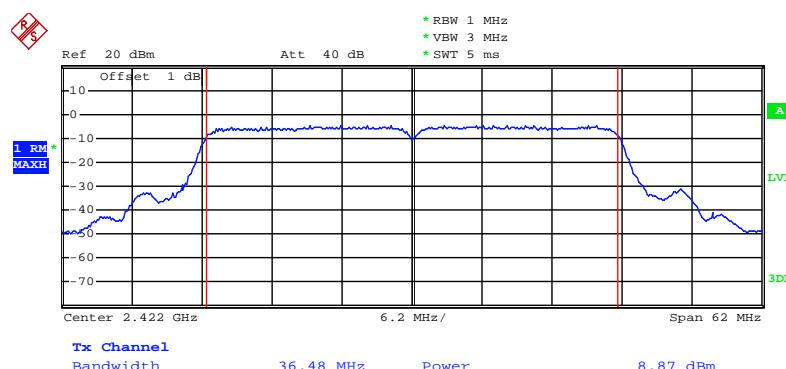
802.11n Channel Middle 2437MHz (20MHz)



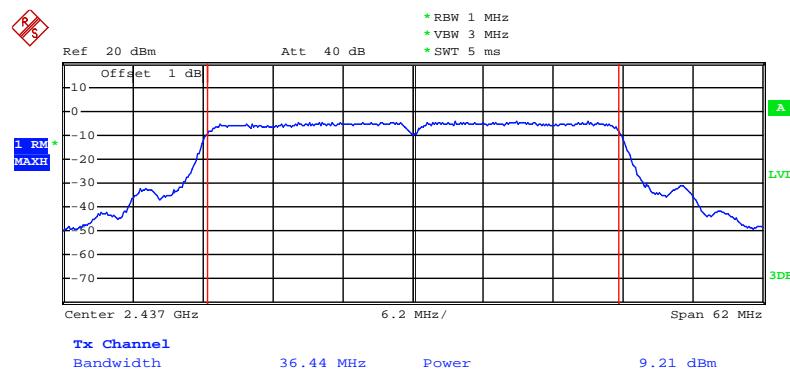
802.11n Channel High 2462MHz (20MHz)



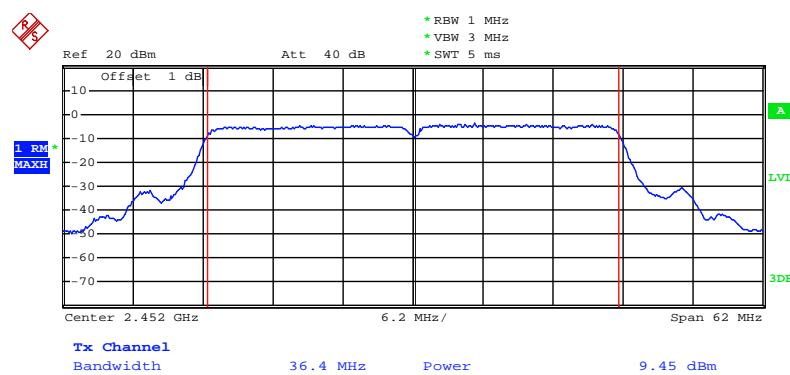
802.11n Channel Low 2422MHz (40MHz)



802.11n Channel Middle 2437MHz (40MHz)



802.11n Channel High 2452MHz (40MHz)



8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. 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.

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. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

8.5. Test Procedure

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

8.5.2. 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 $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
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.

8.5.3. Measurement the maximum power spectral density.

8.6. Test Result

The test was performed with 802.11b			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-10.57	8 dBm
Middle	2437	-8.79	8 dBm
High	2462	-8.69	8 dBm

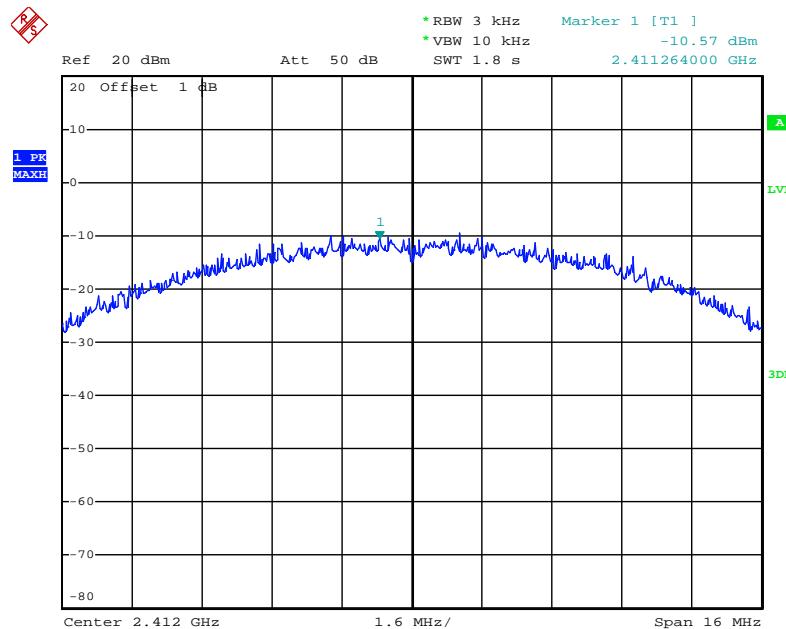
The test was performed with 802.11g			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-17.10	8 dBm
Middle	2437	-16.71	8 dBm
High	2462	-16.25	8 dBm

The test was performed with 802.11n (20MHz)			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-16.57	8 dBm
Middle	2437	-15.01	8 dBm
High	2462	-15.36	8 dBm

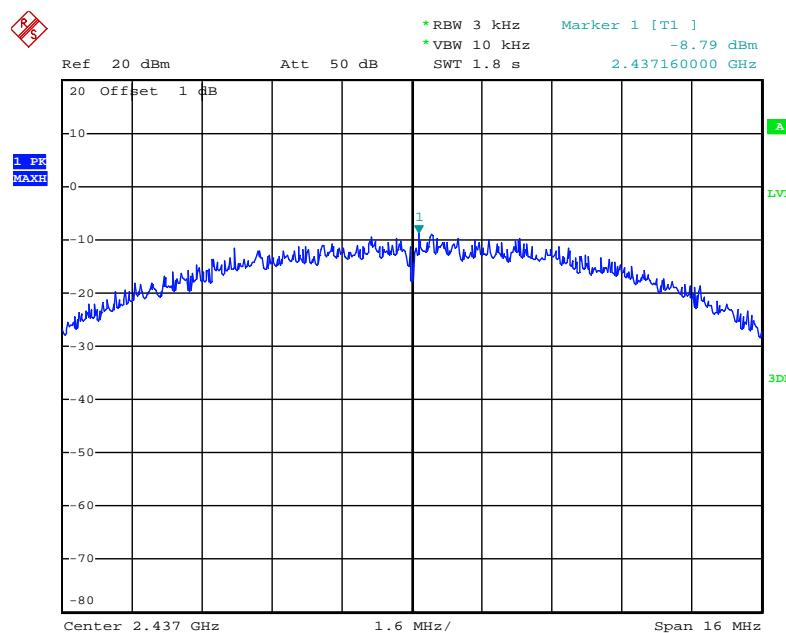
The test was performed with 802.11n (40MHz)			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2422	-20.07	8 dBm
Middle	2437	-19.23	8 dBm
High	2452	-18.60	8 dBm

The spectrum analyzer plots are attached as below.

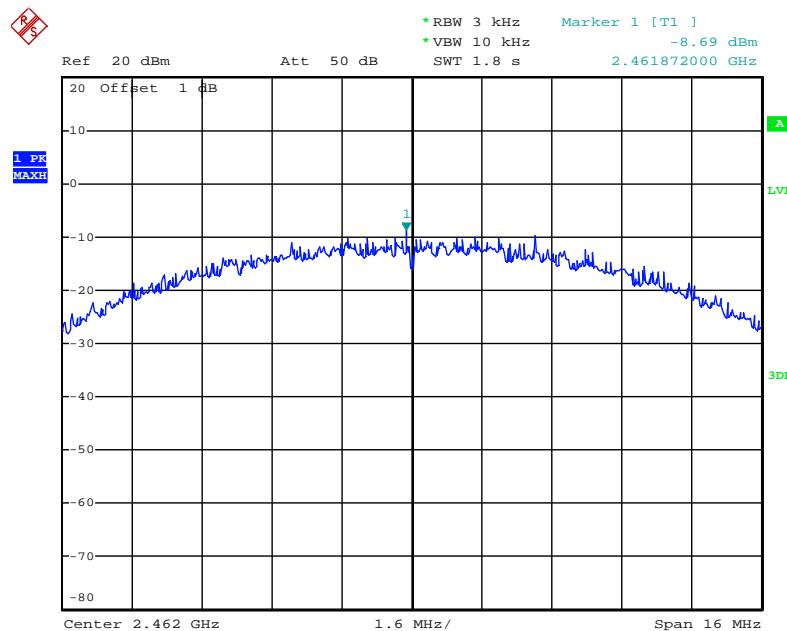
802.11b Channel Low 2412MHz



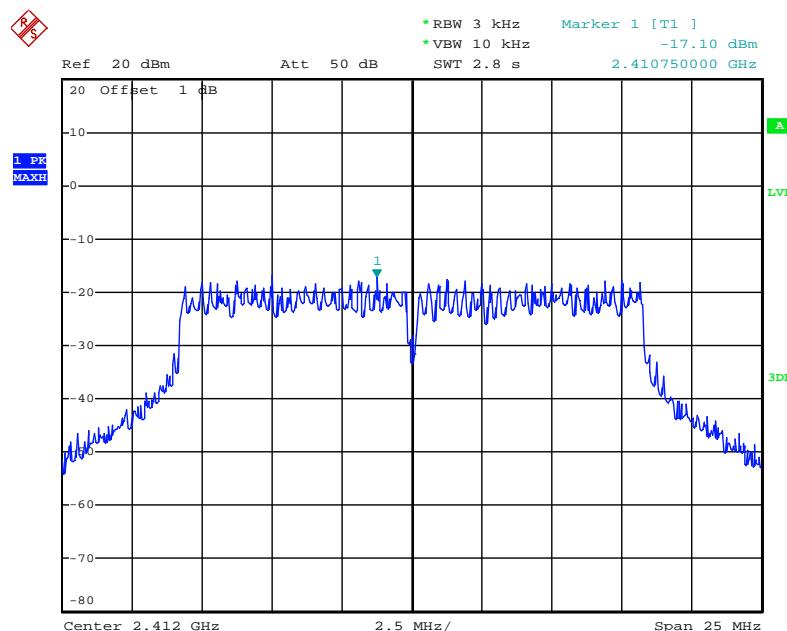
802.11b Channel Middle 2437MHz



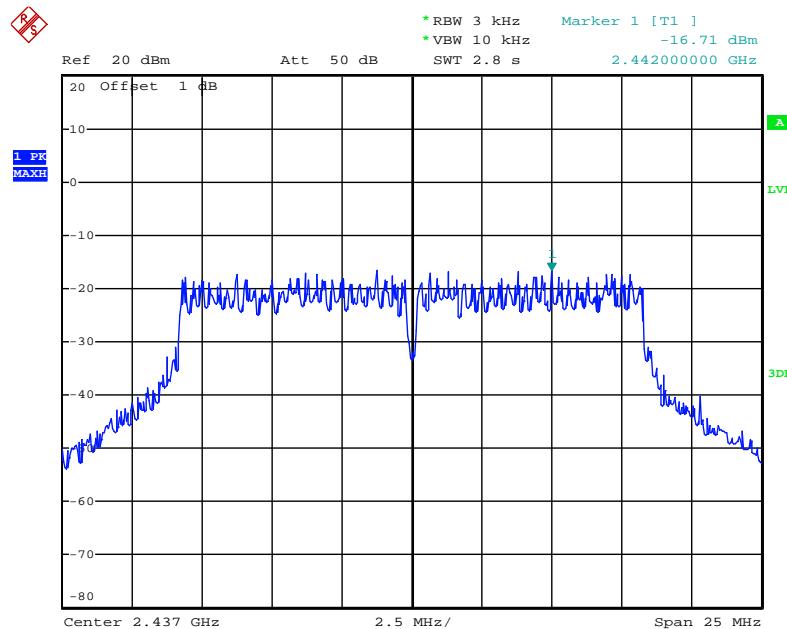
802.11b Channel High 2462MHz



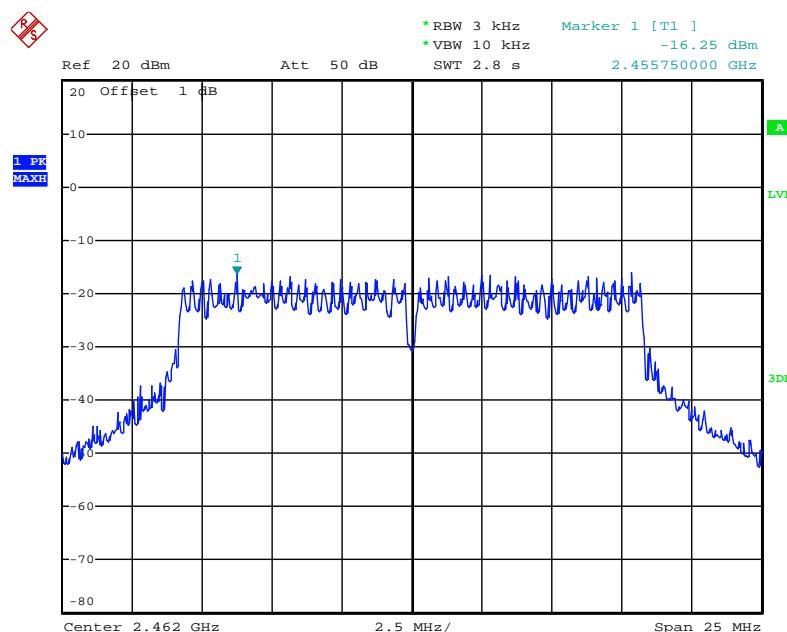
802.11g Channel Low 2412MHz



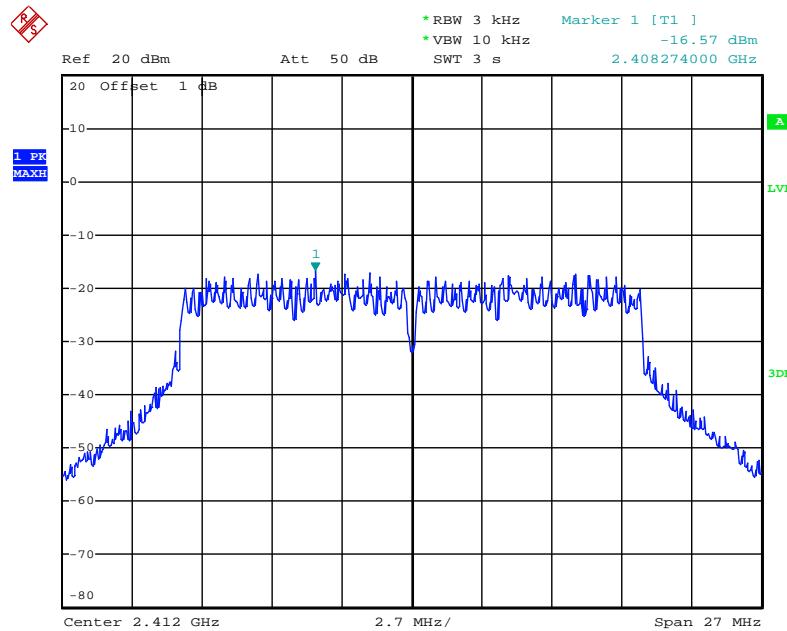
802.11g Channel Middle 2437MHz



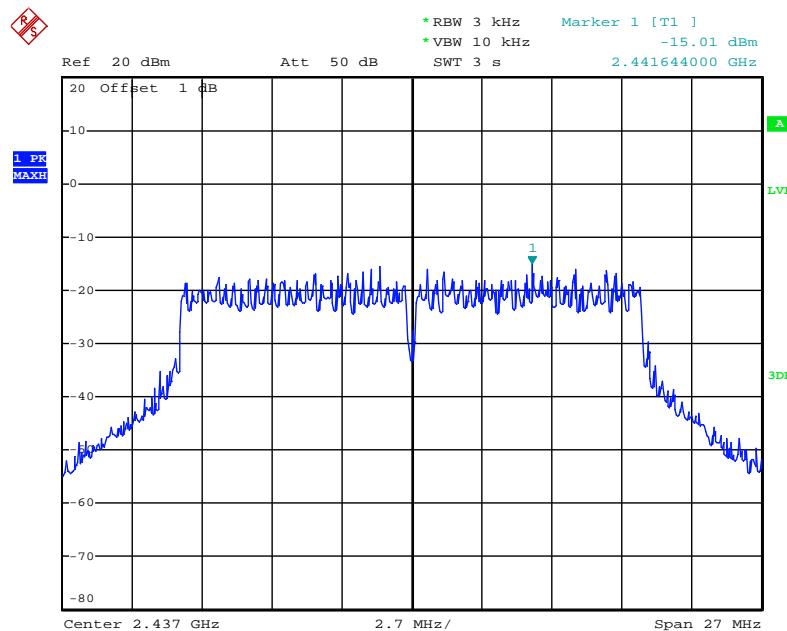
802.11g Channel High 2462MHz



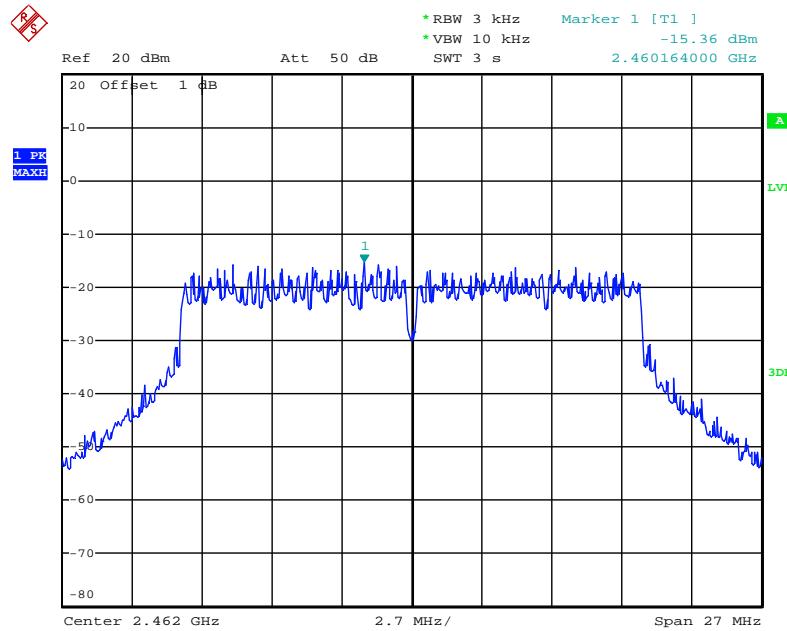
802.11n Channel Low 2412MHz (20MHz)



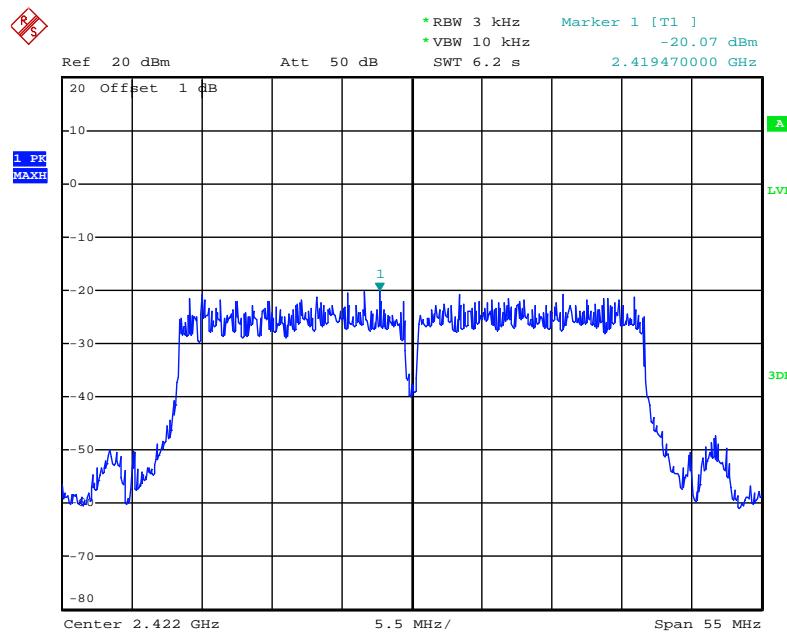
802.11n Channel Middle 2437MHz (20MHz)



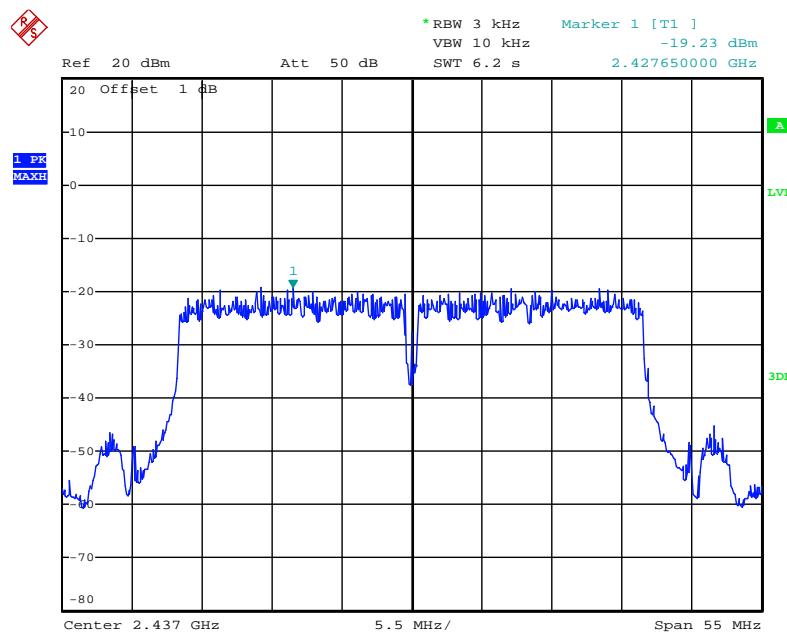
802.11n Channel High 2462MHz(20MHz)



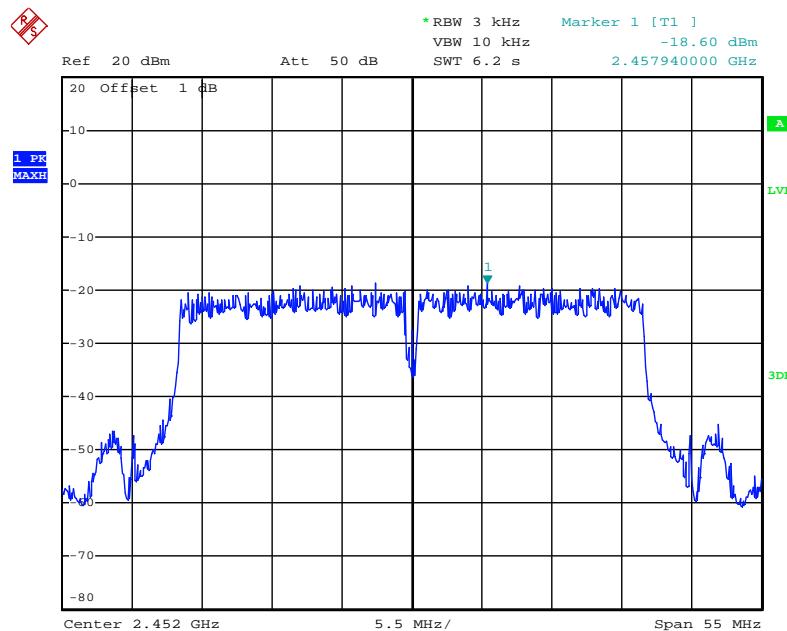
802.11n Channel Low 2422MHz (40MHz)



802.11n Channel Middle 2437MHz(40MHz)

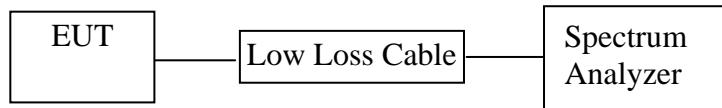


802.11n Channel High 2452MHz(40MHz)



9. BAND EDGE COMPLIANCE TEST

9.1. Block Diagram of Test Setup



9.2. 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).

9.3. 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.

9.4. Operating Condition of EUT

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

9.4.2. Turn on the power of all equipment.

9.4.3. 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.

9.5. Test Procedure

Conducted Band Edge:

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

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

Radiate Band Edge:

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

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

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

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

9.5.7. RBW=1MHz, VBW=1MHz

9.5.8. The band edges were measured and recorded.

9.6. Test Result

The test was performed with 802.11b

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	36.76	> 20dBc
2462	47.20	> 20dBc

The test was performed with 802.11g

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	35.37	> 20dBc
2462	42.06	> 20dBc

The test was performed with 802.11n (20MHz)

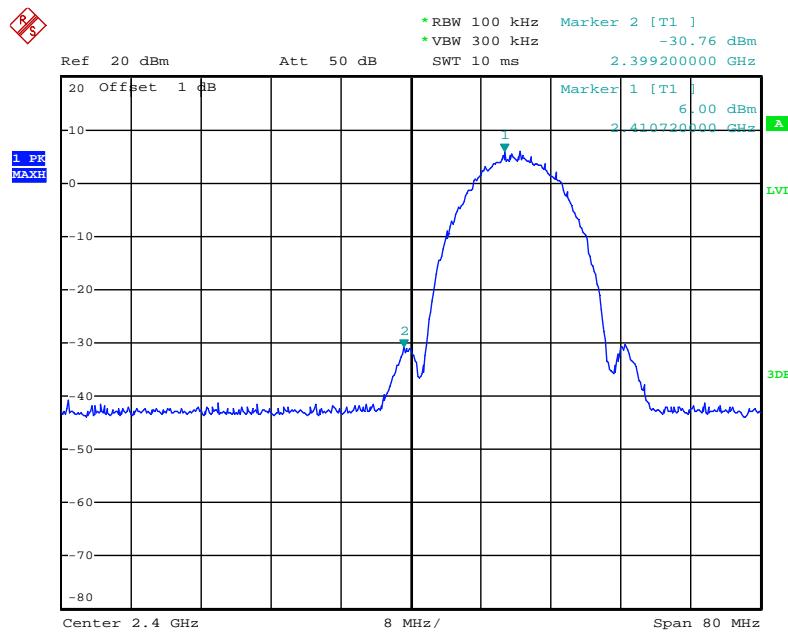
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	29.23	> 20dBc
2462	41.70	> 20dBc

The test was performed with 802.11n (40MHz)

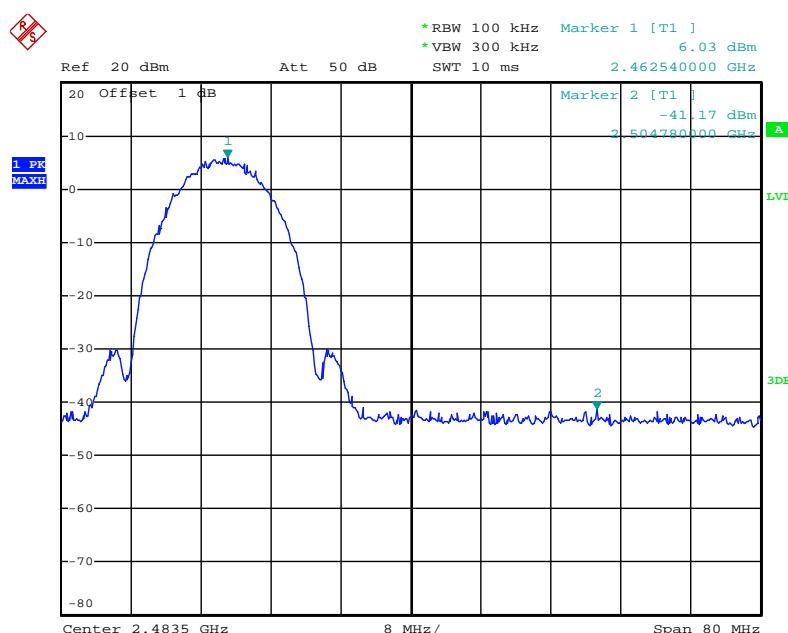
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2422	26.56	> 20dBc
2452	39.14	> 20dBc

The worst case conduct band edge data

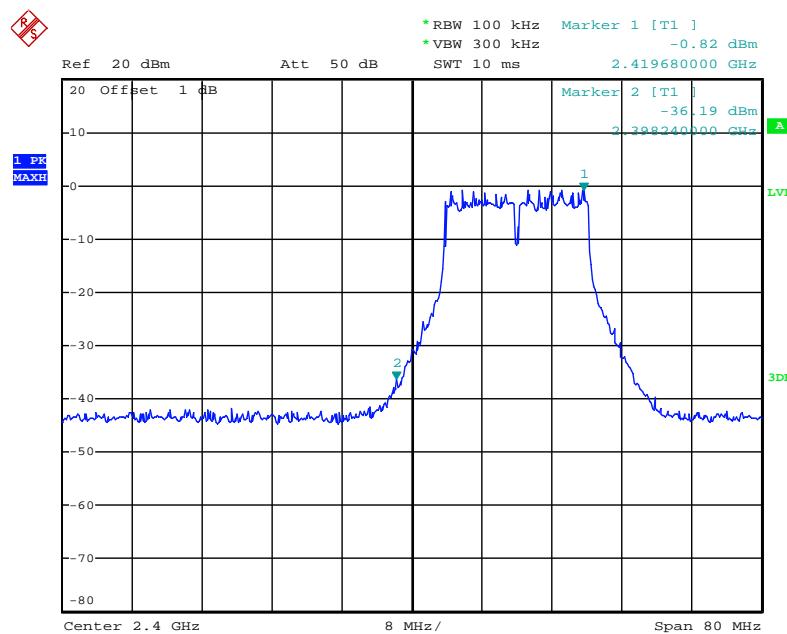
802.11b Channel Low 2412MHz



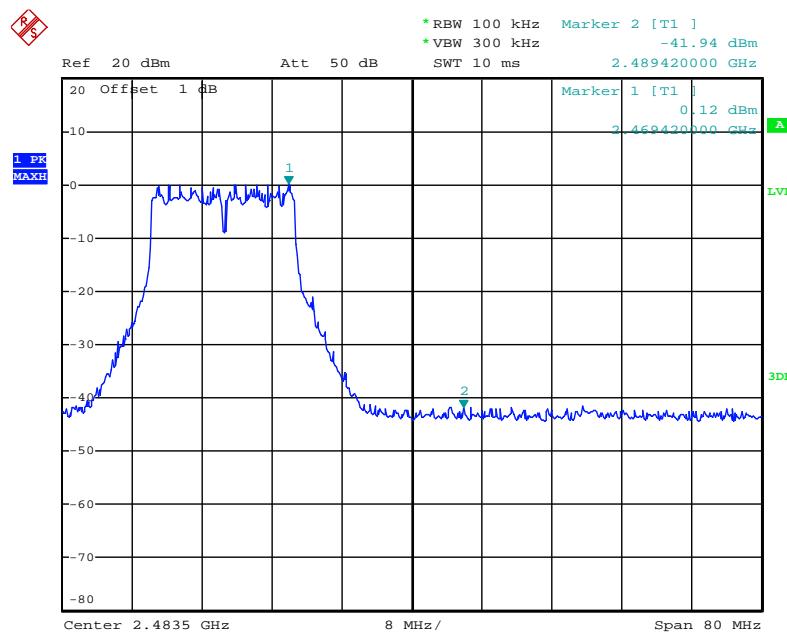
802.11b Channel High 2462MHz



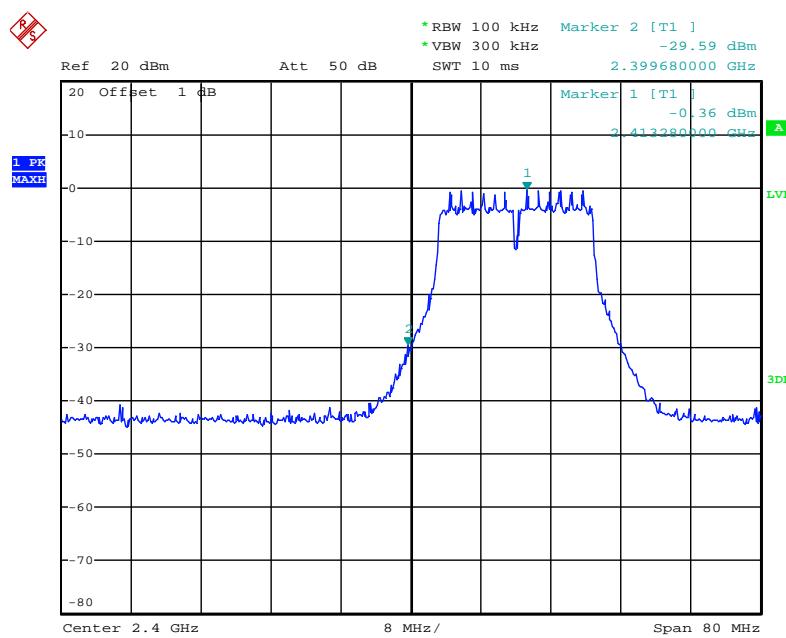
802.11g Channel Low 2412MHz



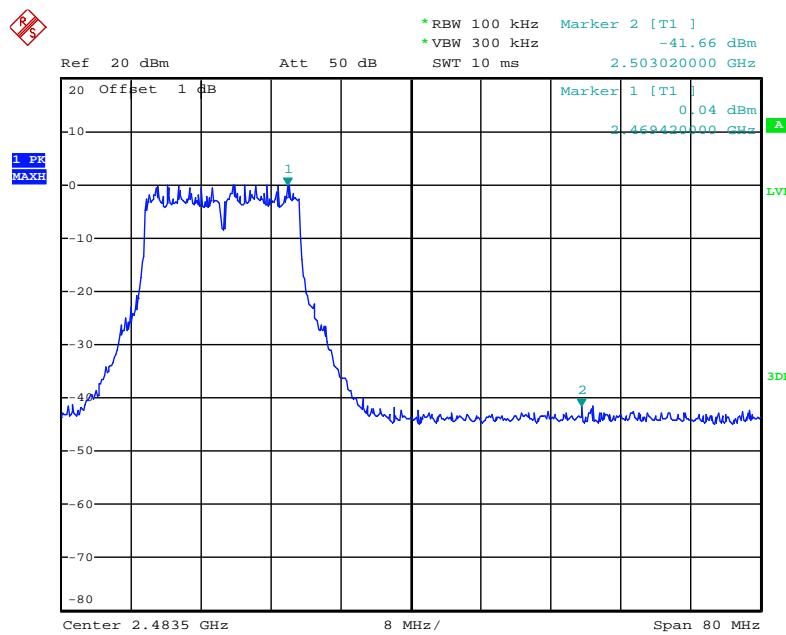
802.11g Channel High 2462MHz



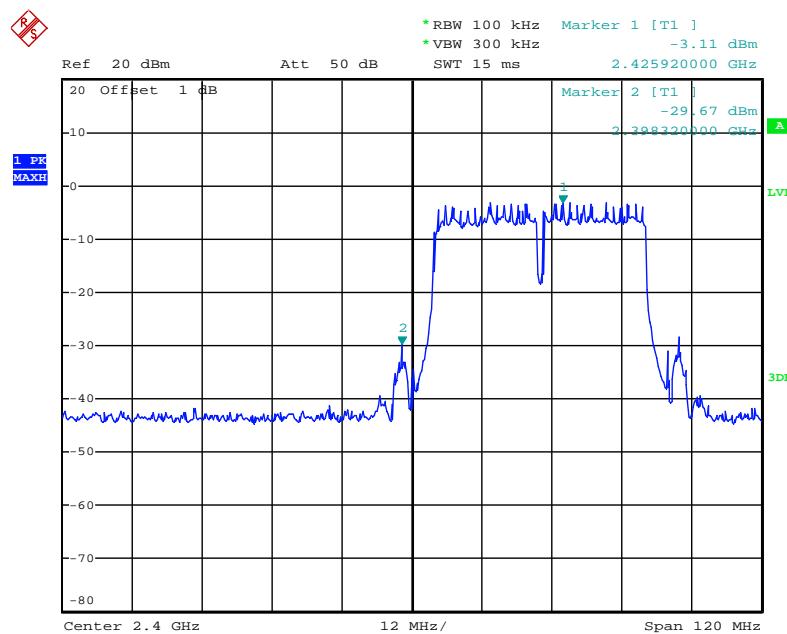
802.11n Channel Low 2412MHz (20MHz)



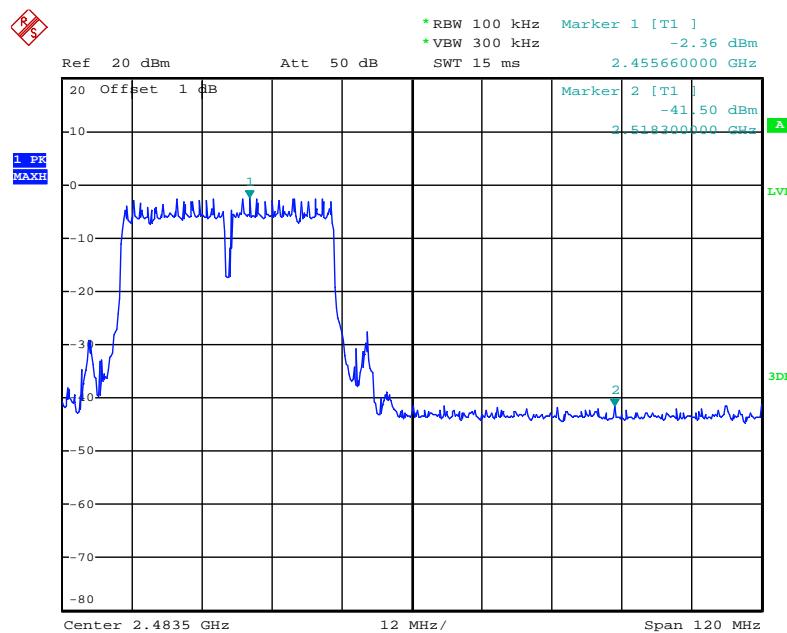
802.11n Channel High 2462MHz (20MHz)



802.11n Channel Low 2422MHz (40MHz)



802.11n Channel High 2452MHz (40MHz)

**Radiated Band Edge Result**

Note:

FCC ID: 2ADW5-Y001

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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.

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.

Let the EUT work in TX modes then measure it.

We select 2412MHz, 2462MHz TX frequency to transmit(802.11b/g/n20 mode).

We select 2422MHz, 2452MHz TX frequency to transmit(802.11n40 mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2014 #1178

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TuppTV Media Player

Mode: TX Channel 1(802.11b)

Model: Y001

Manufacturer: YuppTV

Polarization: Horizontal

Power Source: AC 120V/60Hz

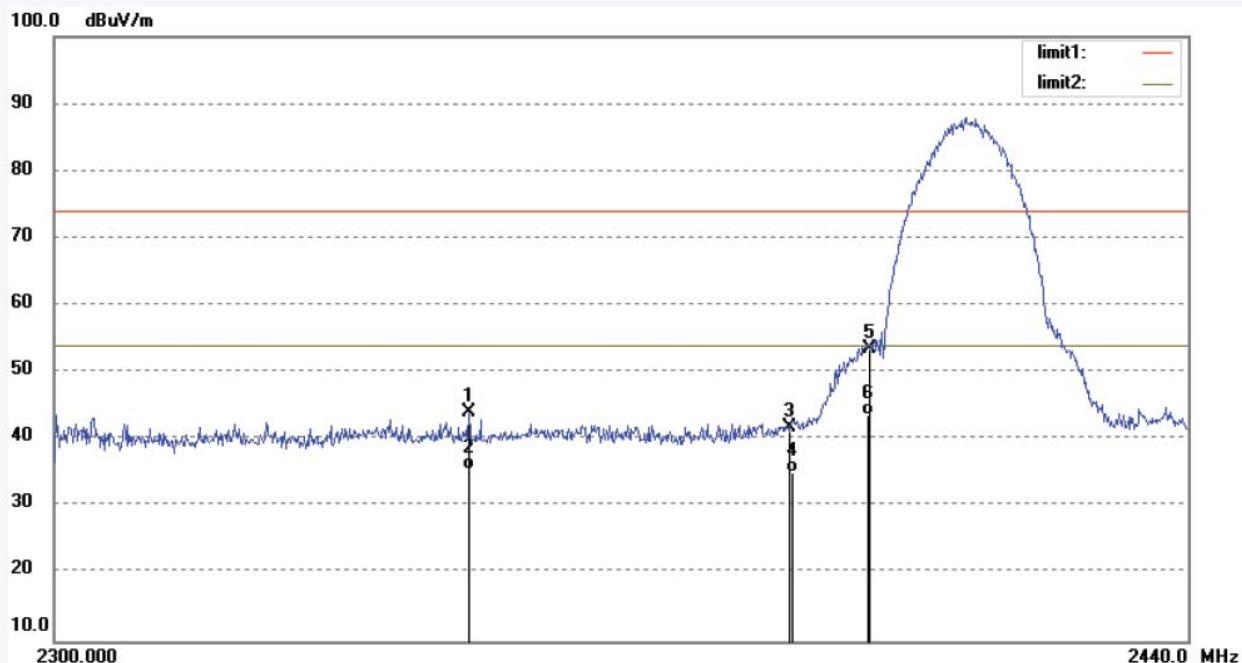
Date: 14/12/28/

Time: 2/31/07

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2350.400	51.80	-7.79	44.01	74.00	-29.99	peak			
2	2350.400	43.44	-7.79	35.65	54.00	-18.35	peak			
3	2390.000	49.34	-7.53	41.81	74.00	-32.19	peak			
4	2390.000	42.69	-7.53	35.16	54.00	-18.84	peak			
5	2400.000	60.91	-7.46	53.45	74.00	-20.55	peak			
6	2400.000	51.20	-7.46	43.74	54.00	-10.26	peak			

Note: Average measurement with peak detection at No.2&4&6



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

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2014 #1177

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/29/56

EUT: TuppTV Media Player

Engineer Signature:

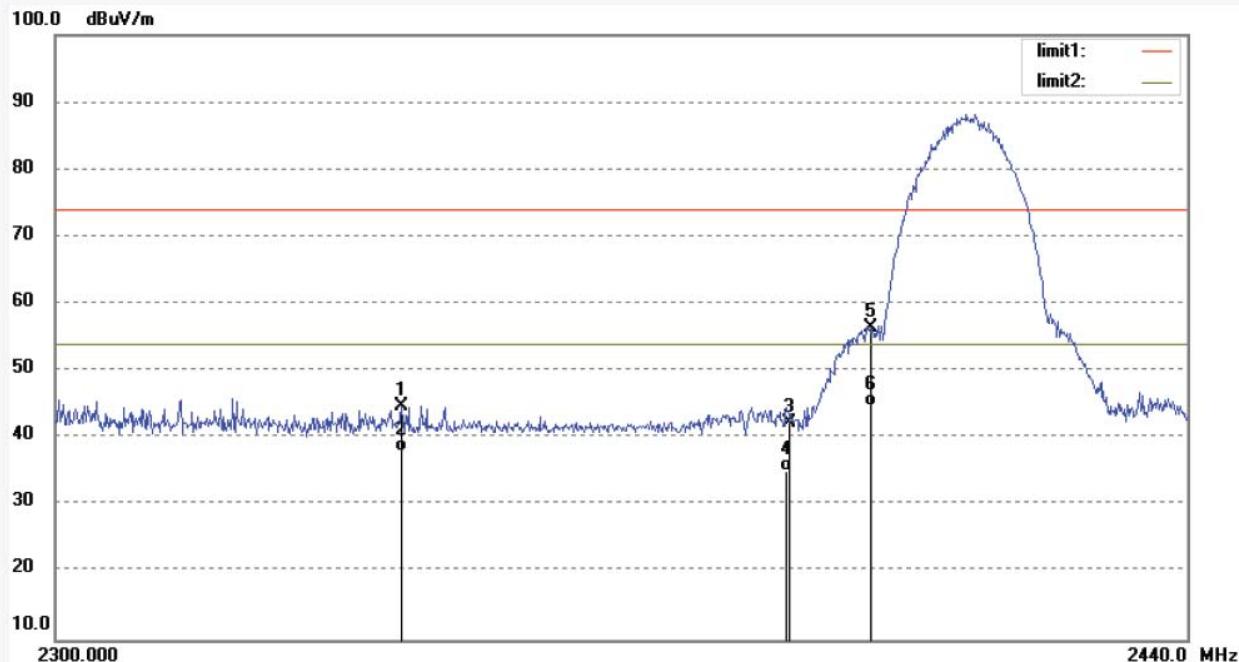
Mode: TX Channel 1(802.11b)

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2342.000	52.58	-7.80	44.78	74.00	-29.22	peak			
2	2342.000	45.77	-7.80	37.97	54.00	-16.03	peak			
3	2390.000	49.72	-7.53	42.19	74.00	-31.81	peak			
4	2390.000	42.69	-7.53	35.16	54.00	-18.84	peak			
5	2400.000	63.92	-7.46	56.46	74.00	-17.54	peak			
6	2400.000	52.12	-7.46	44.66	54.00	-9.34	peak			

Note: Average measurement with peak detection at No.2&4&6



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Site: 1# Chamber

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Job No.: STAR2014 #1179

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/33/23

EUT: TuppTV Media Player

Engineer Signature:

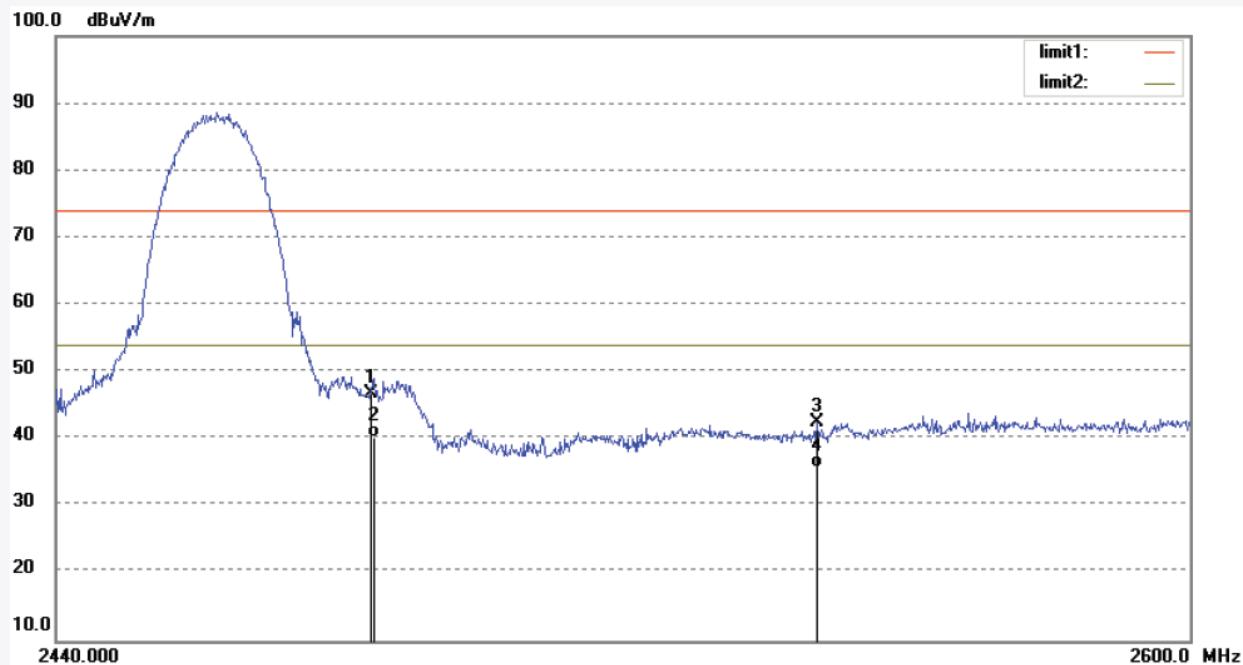
Mode: TX Channel 11(802.11b)

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



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	54.14	-7.37	46.77	74.00	-27.23	peak			
2	2483.500	47.63	-7.37	40.26	54.00	-13.74	peak			
3	2546.240	49.51	-6.99	42.52	74.00	-31.48	peak			
4	2546.240	42.69	-6.99	35.70	54.00	-18.30	peak			

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2014 #1180

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/35/00

EUT: TuppTV Media Player

Engineer Signature:

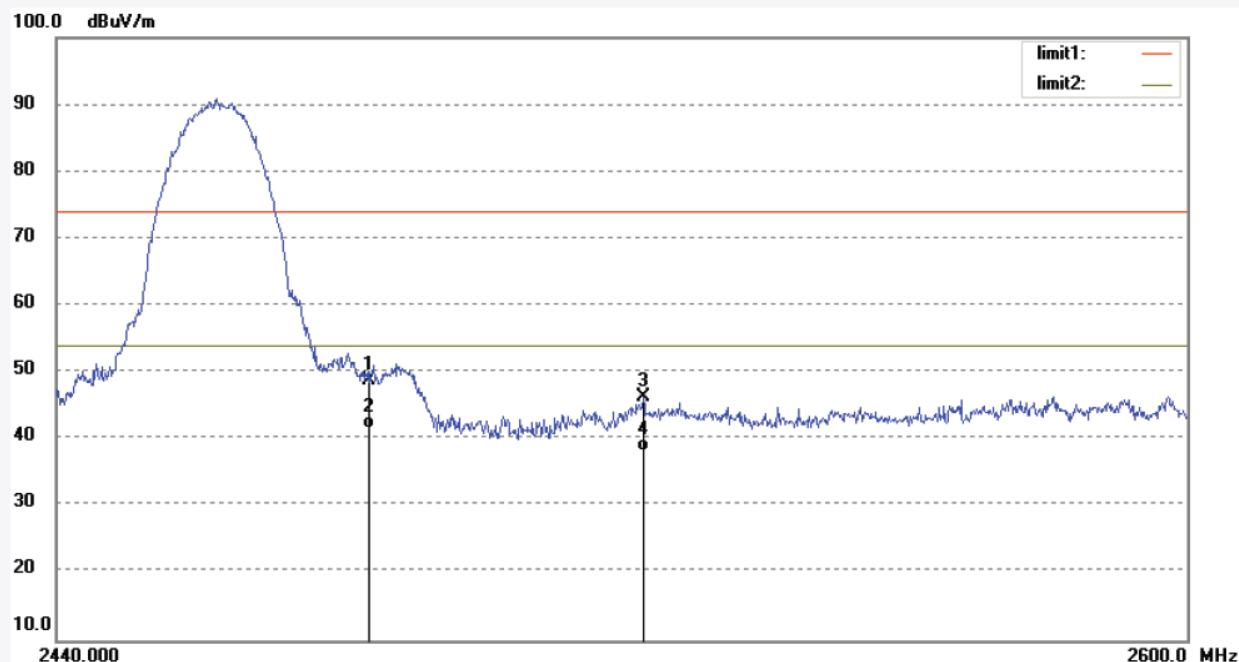
Mode: TX Channel 11(802.11b)

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



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	56.24	-7.37	48.87	74.00	-25.13	peak			
2	2483.500	48.90	-7.37	41.53	54.00	-12.47	peak			
3	2521.920	53.65	-7.21	46.44	74.00	-27.56	peak			
4	2521.920	45.36	-7.21	38.15	54.00	-15.85	peak			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber
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Fax:+86-0755-26503396

Job No.: STAR2014 #1183

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TuppTV Media Player

Mode: TX Channel 1(802.11g)

Model: Y001

Manufacturer: YuppTV

Polarization: Horizontal

Power Source: AC 120V/60Hz

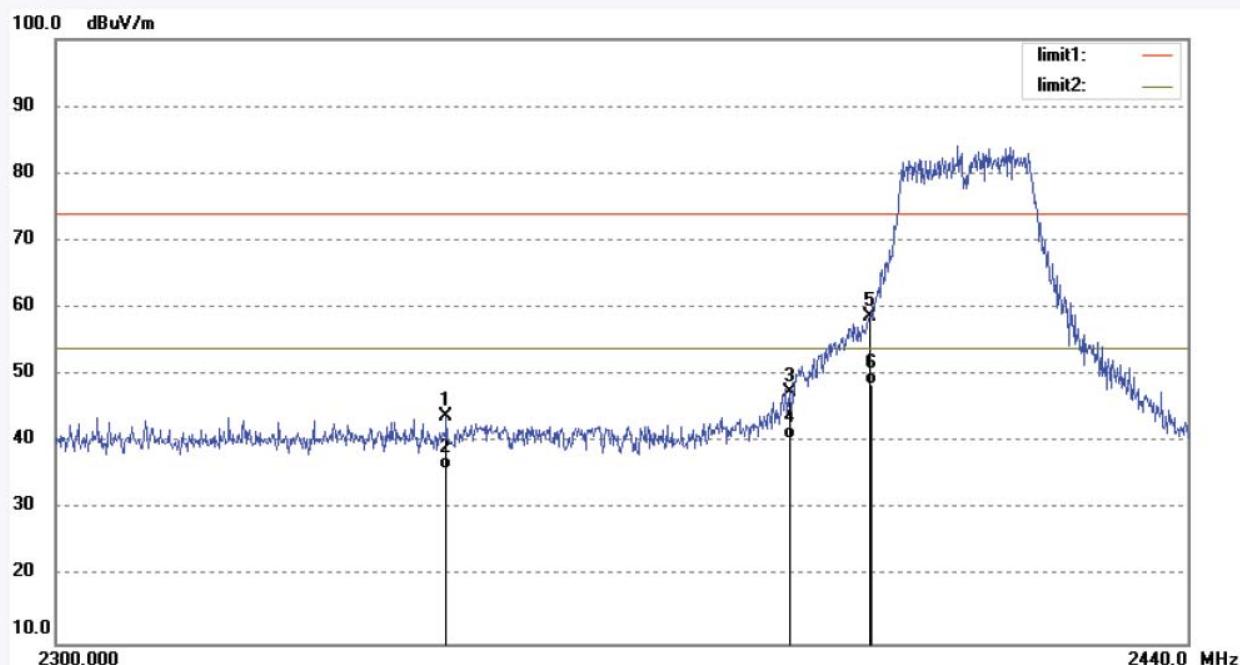
Date: 14/12/28/

Time: 2/42/26

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2347.460	51.60	-7.80	43.80	74.00	-30.20	peak			
2	2347.460	43.69	-7.80	35.89	54.00	-18.11	peak			
3	2390.000	55.04	-7.53	47.51	74.00	-26.49	peak			
4	2390.000	47.96	-7.53	40.43	54.00	-13.57	peak			
5	2400.000	66.14	-7.46	58.68	74.00	-15.32	peak			
6	2400.000	56.14	-7.46	48.68	54.00	-5.32	peak			

Note: Average measurement with peak detection at No.2&4&6



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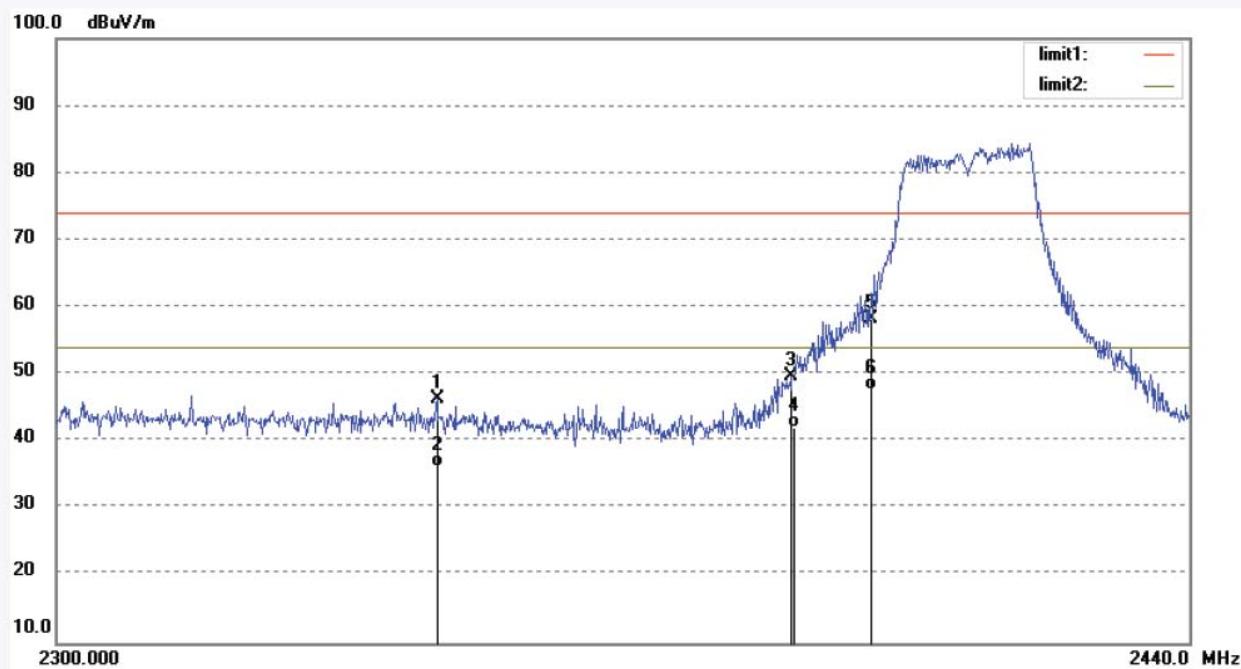
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 1# Chamber

Tel:+86-0755-26503290

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Job No.:	STAR2014 #1184	Polarization:	Vertical
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/12/28/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	2/43/56
EUT:	TuppTV Media Player	Engineer Signature:	
Mode:	TX Channel 1(802.11g)	Distance:	3m
Model:	Y001		
Manufacturer:	YuppTV		
Note:	Report No.:ATE20142548		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2346.200	54.07	-7.79	46.28	74.00	-27.72	peak			
2	2346.200	44.10	-7.79	36.31	54.00	-17.69	peak			
3	2390.000	57.24	-7.53	49.71	74.00	-24.29	peak			
4	2390.000	49.70	-7.53	42.17	54.00	-11.83	peak			
5	2400.000	65.80	-7.46	58.34	74.00	-15.66	peak			
6	2400.000	55.14	-7.46	47.68	54.00	-6.32	peak			

Note: Average measurement with peak detection at No.2&4&6



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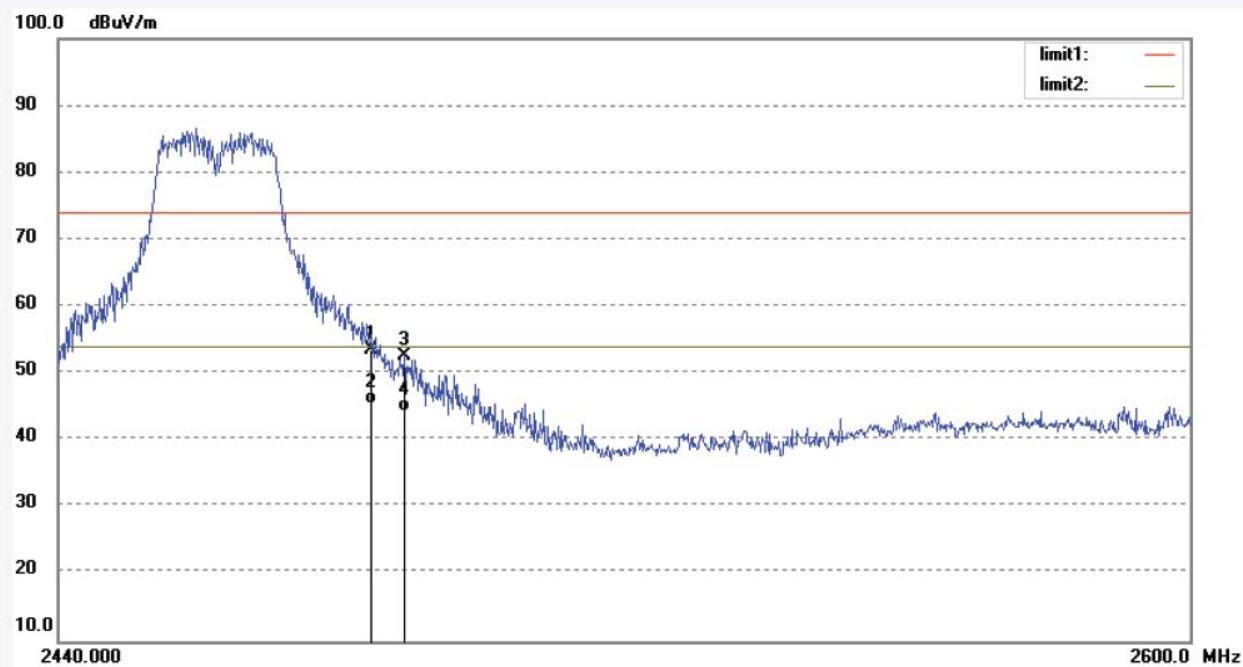
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

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Job No.:	STAR2014 #1182	Polarization:	Horizontal
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/12/28/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	2/39/46
EUT:	TuppTV Media Player	Engineer Signature:	
Mode:	TX Channel 11(802.11g)	Distance:	3m
Model:	Y001		
Manufacturer:	YuppTV		
Note:	Report No.:ATE20142548		



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	60.99	-7.37	53.62	74.00	-20.38	peak			
2	2483.500	52.90	-7.37	45.53	54.00	-8.47	peak			
3	2488.000	60.13	-7.38	52.75	74.00	-21.25	peak			
4	2488.000	51.70	-7.38	44.32	54.00	-9.68	peak			

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2014 #1181

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/38/08

EUT: TuppTV Media Player

Engineer Signature:

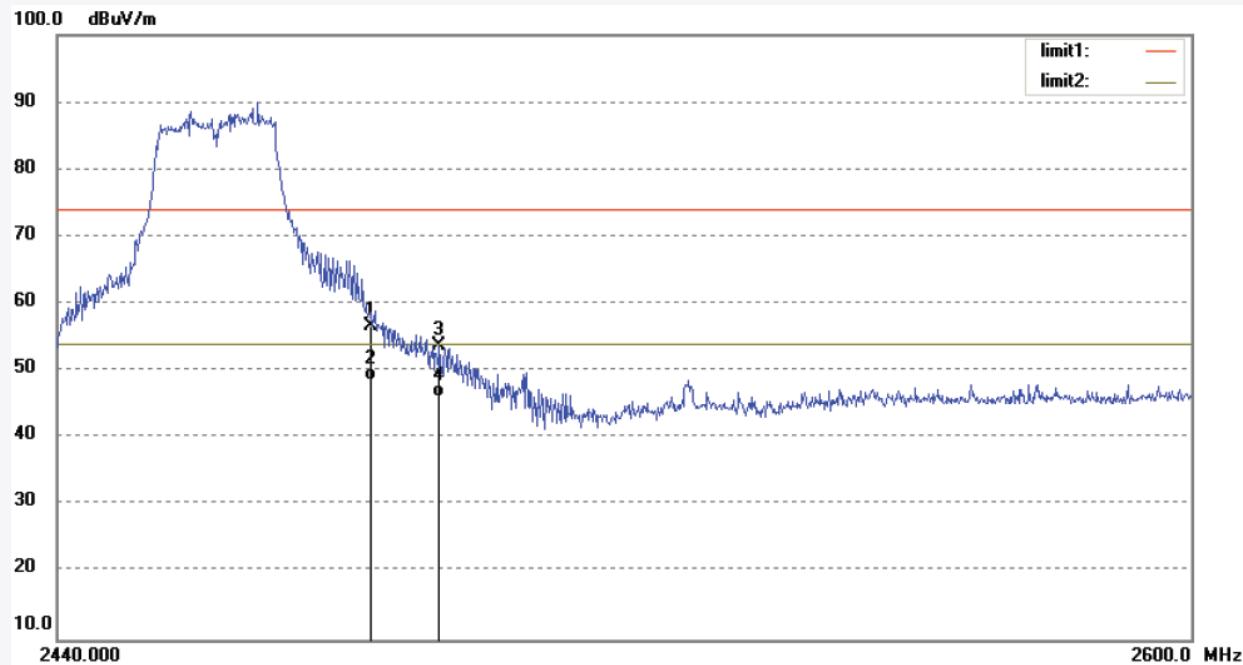
Mode: TX Channel 11(802.11g)

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



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	64.07	-7.37	56.70	74.00	-17.30	peak			
2	2483.500	55.90	-7.37	48.53	54.00	-5.47	peak			
3	2492.800	61.13	-7.39	53.74	74.00	-20.26	peak			
4	2492.800	53.60	-7.39	46.21	54.00	-7.79	peak			

Note: Average measurement with peak detection at No.2&4



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Job No.: STAR2014 #1186

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/49/26

EUT: TuppTV Media Player

Engineer Signature:

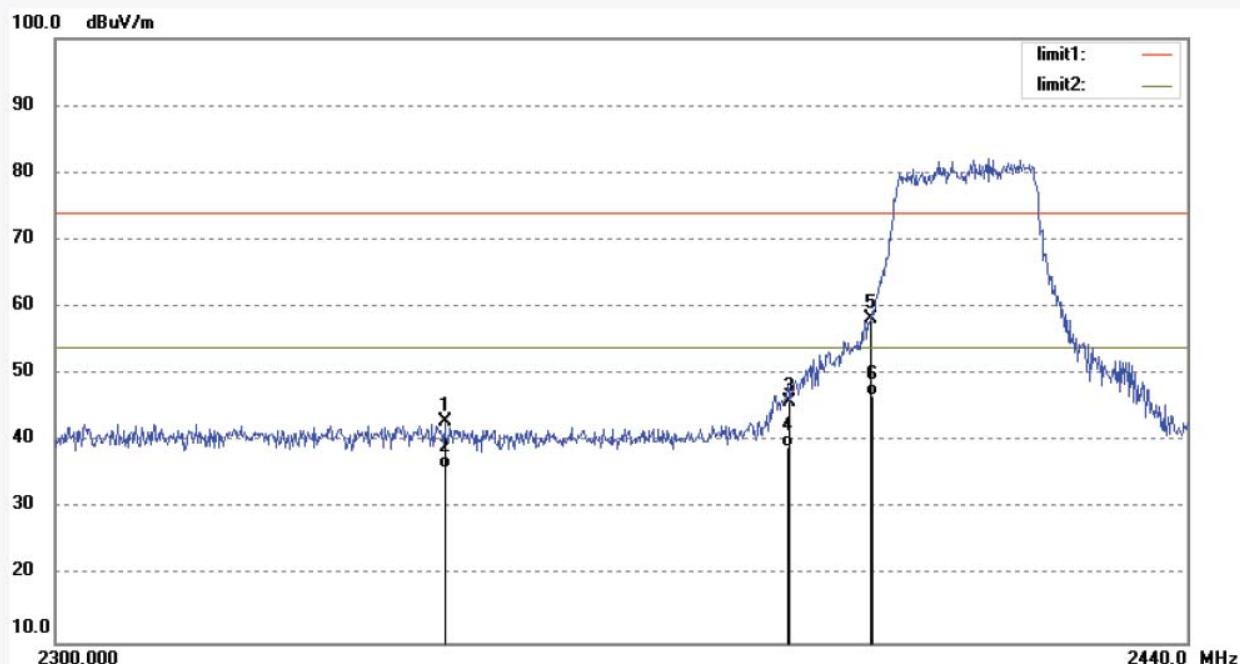
Mode: TX Channel 1(802.11n)20MHz

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2347.320	50.72	-7.80	42.92	74.00	-31.08	peak			
2	2347.320	43.84	-7.80	36.04	54.00	-17.96	peak			
3	2390.000	53.41	-7.53	45.88	74.00	-28.12	peak			
4	2390.000	46.70	-7.53	39.17	54.00	-14.83	peak			
5	2400.000	65.69	-7.46	58.23	74.00	-15.77	peak			
6	2400.000	54.36	-7.46	46.90	54.00	-7.10	peak			

Note: Average measurement with peak detection at No.2&4&6



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Site: 1# Chamber

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Job No.: STAR2014 #1185

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TuppTV Media Player

Mode: TX Channel 1(802.11n)20MHz

Model: Y001

Manufacturer: YuppTV

Polarization: Vertical

Power Source: AC 120V/60Hz

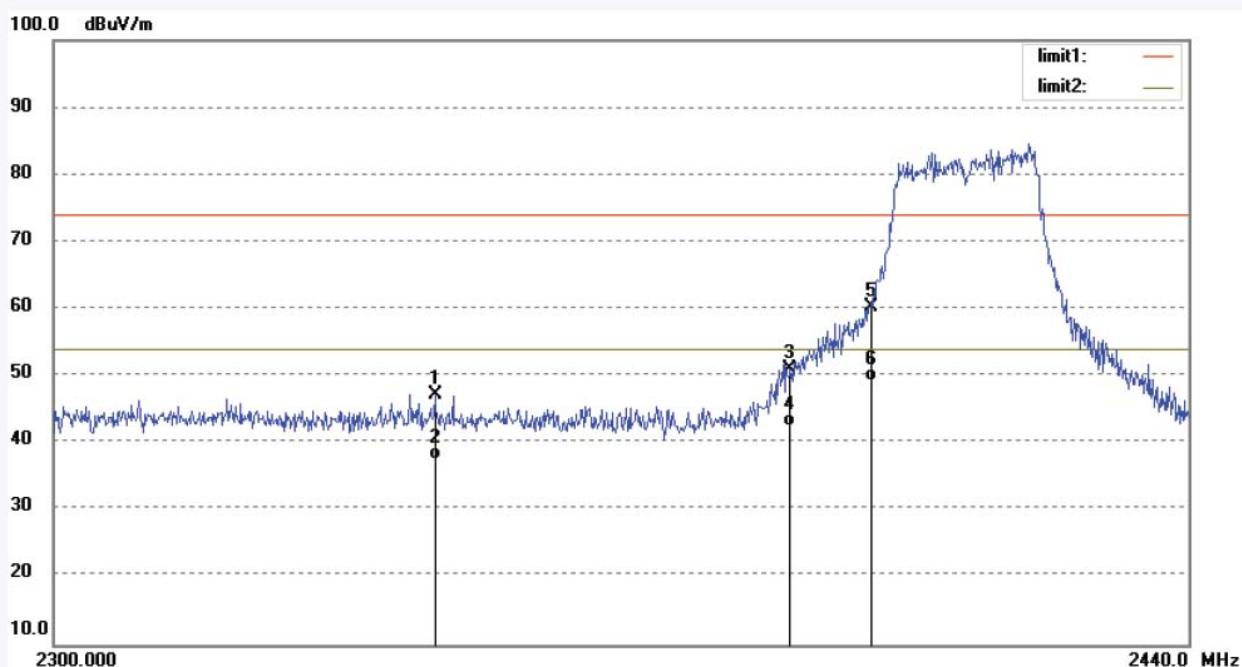
Date: 14/12/28/

Time: 2/48/06

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2346.200	55.07	-7.79	47.28	74.00	-26.72	peak			
2	2346.200	45.33	-7.79	37.54	54.00	-16.46	peak			
3	2390.000	58.64	-7.53	51.11	74.00	-22.89	peak			
4	2390.000	50.10	-7.53	42.57	54.00	-11.43	peak			
5	2400.000	67.74	-7.46	60.28	74.00	-13.72	peak			
6	2400.000	56.79	-7.46	49.33	54.00	-4.67	peak			

Note: Average measurement with peak detection at No.2&4&6



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Site: 1# Chamber

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Job No.: STAR2014 #1187

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/51/37

EUT: TuppTV Media Player

Engineer Signature:

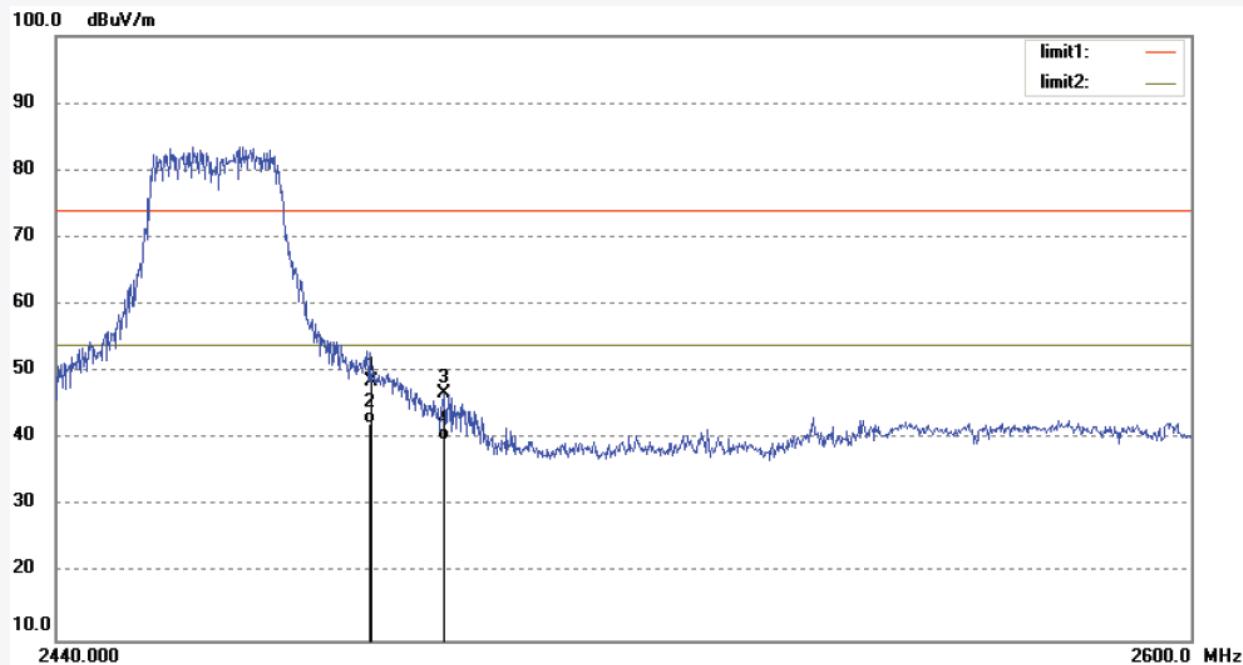
Mode: TX Channel 11(802.11n)20MHz

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



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	56.03	-7.37	48.66	74.00	-25.34	peak			
2	2483.500	49.63	-7.37	42.26	54.00	-11.74	peak			
3	2493.600	54.25	-7.39	46.86	74.00	-27.14	peak			
4	2493.600	47.30	-7.39	39.91	54.00	-14.09	peak			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber

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Job No.: STAR2014 #1188

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/54/20

EUT: TuppTV Media Player

Engineer Signature:

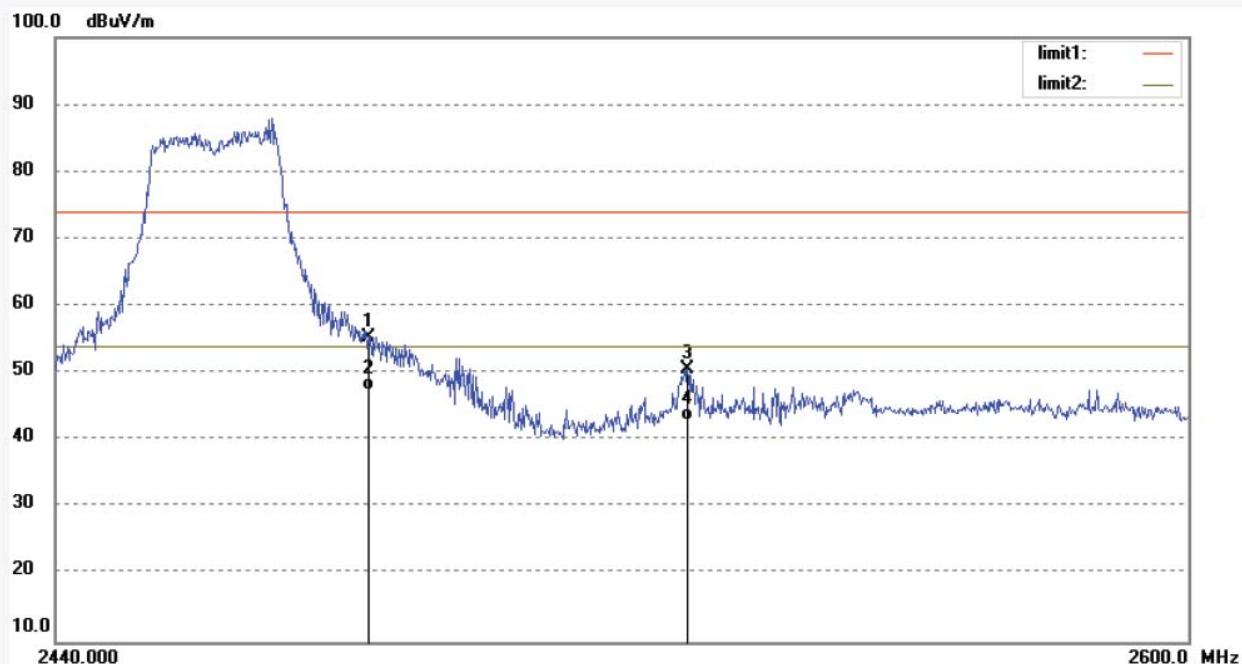
Mode: TX Channel 11(802.11n)20MHz

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



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	62.70	-7.37	55.33	74.00	-18.67	peak			
2	2483.500	54.73	-7.37	47.36	54.00	-6.64	peak			
3	2528.160	57.75	-7.15	50.60	74.00	-23.40	peak			
4	2528.160	50.10	-7.15	42.95	54.00	-11.05	peak			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber

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Job No.: STAR2014 #1191

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 3/01/04

EUT: TuppTV Media Player

Engineer Signature:

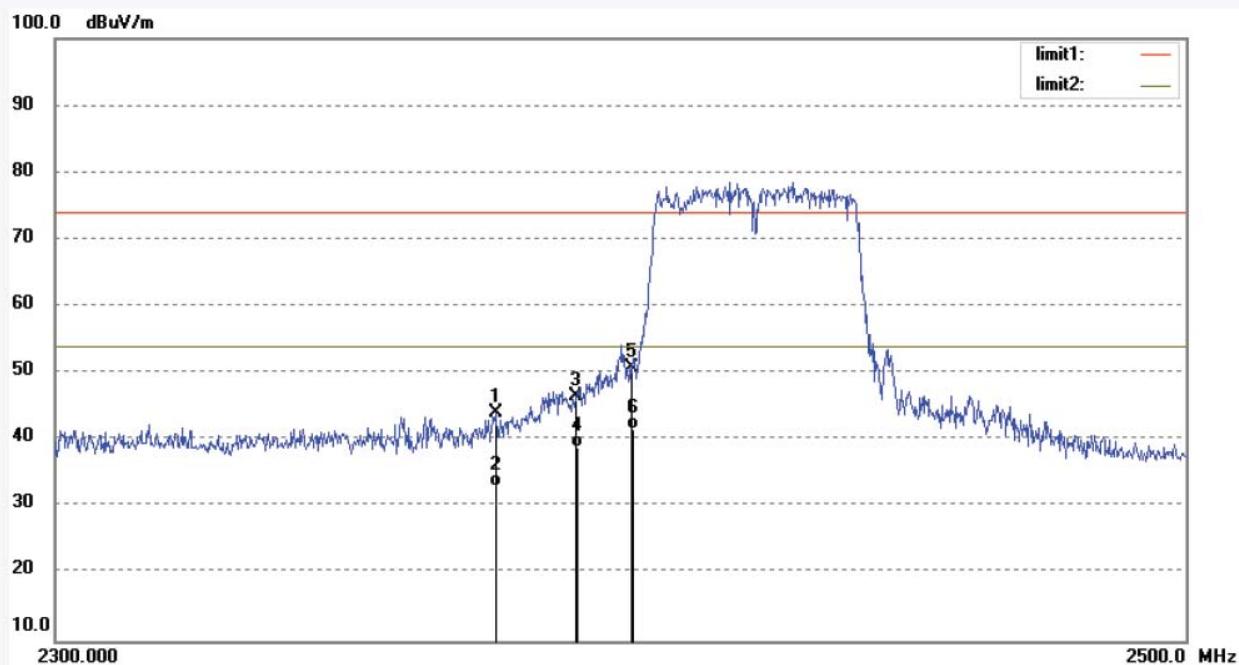
Mode: TX Channel 3(802.11n)40MHz

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2376.200	51.74	-7.62	44.12	74.00	-29.88	peak			
2	2376.200	40.67	-7.62	33.05	54.00	-20.95	peak			
3	2390.000	54.07	-7.53	46.54	74.00	-27.46	peak			
4	2390.000	46.39	-7.53	38.86	54.00	-15.14	peak			
5	2400.000	58.40	-7.46	50.94	74.00	-23.06	peak			
6	2400.000	49.10	-7.46	41.64	54.00	-12.36	peak			

Note: Average measurement with peak detection at No.2&4&6



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Job No.: STAR2014 #1192

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 3/02/21

EUT: TuppTV Media Player

Engineer Signature:

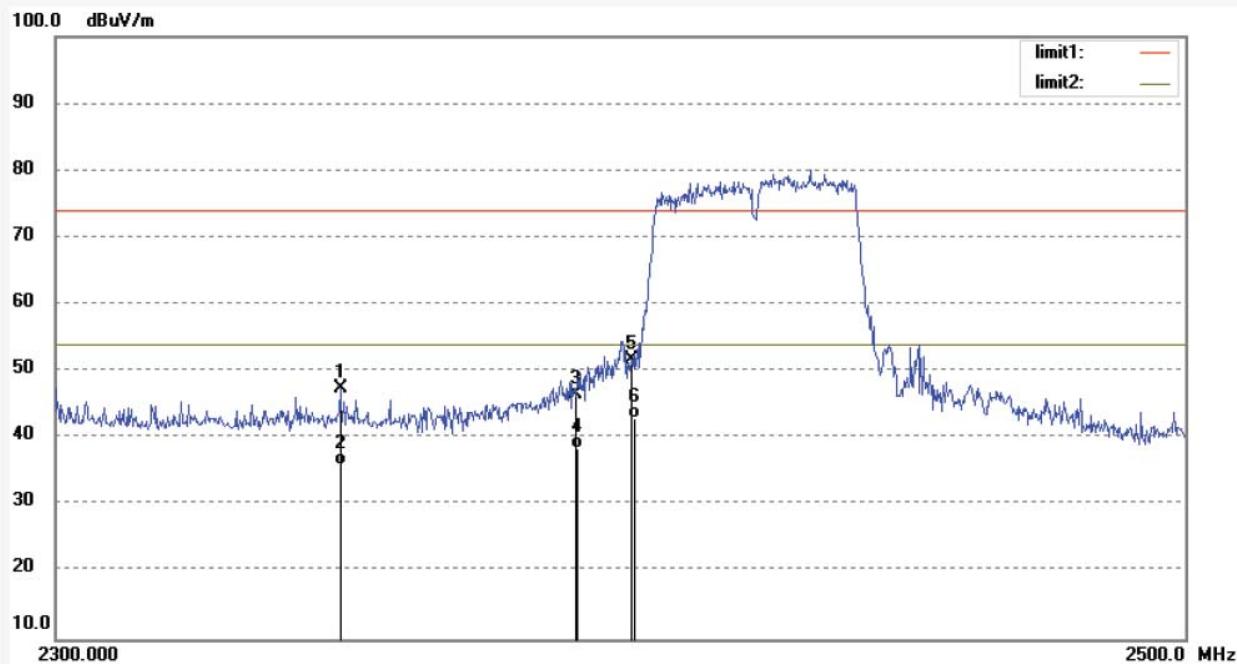
Mode: TX Channel 3(802.11n)40MHz

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2349.000	55.21	-7.79	47.42	74.00	-26.58	peak			
2	2349.000	43.69	-7.79	35.90	54.00	-18.10	peak			
3	2390.000	54.18	-7.53	46.65	74.00	-27.35	peak			
4	2390.000	46.10	-7.53	38.57	54.00	-15.43	peak			
5	2400.000	59.18	-7.46	51.72	74.00	-22.28	peak			
6	2400.000	50.36	-7.46	42.90	54.00	-11.10	peak			

Note: Average measurement with peak detection at No.2&4&6



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Site: 1# Chamber

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Job No.: STAR2014 #1190

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/59/09

EUT: TuppTV Media Player

Engineer Signature:

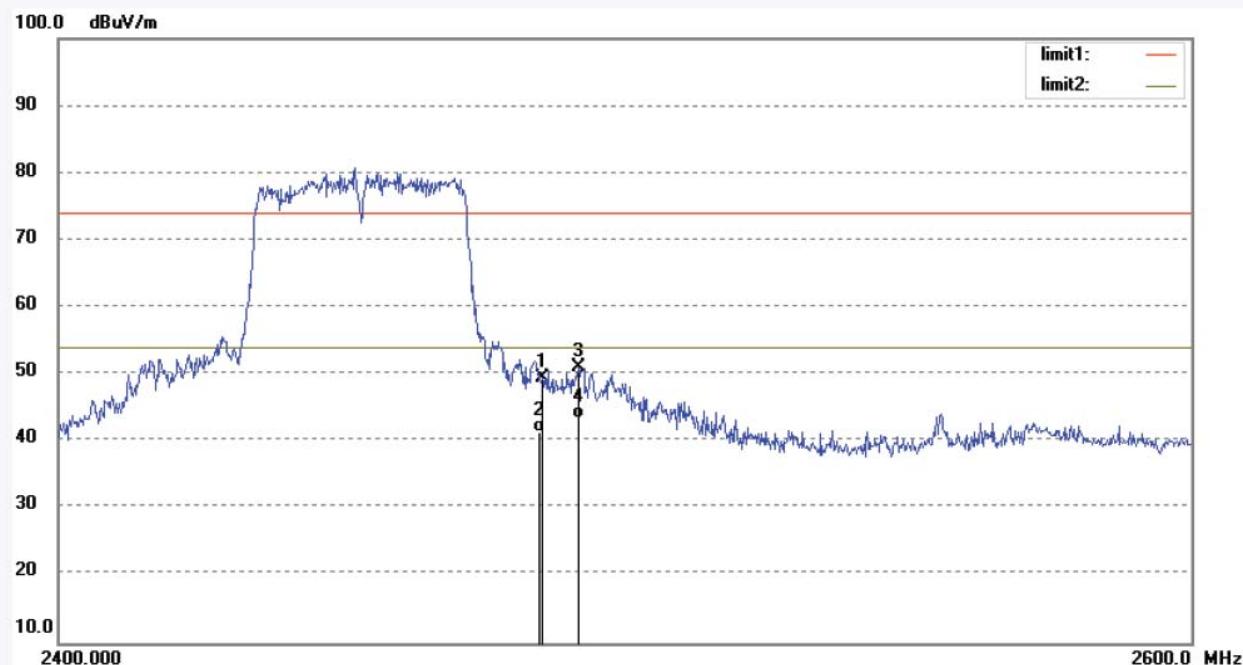
Mode: TX Channel 9(802.11n)40MHz

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



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	56.93	-7.37	49.56	74.00	-24.44	peak			
2	2483.500	48.70	-7.37	41.33	54.00	-12.67	peak			
3	2490.000	58.43	-7.39	51.04	74.00	-22.96	peak			
4	2490.000	50.74	-7.39	43.35	54.00	-10.65	peak			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber
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Job No.: STAR2014 #1189

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/12/28/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 2/57/12

EUT: TuppTV Media Player

Engineer Signature:

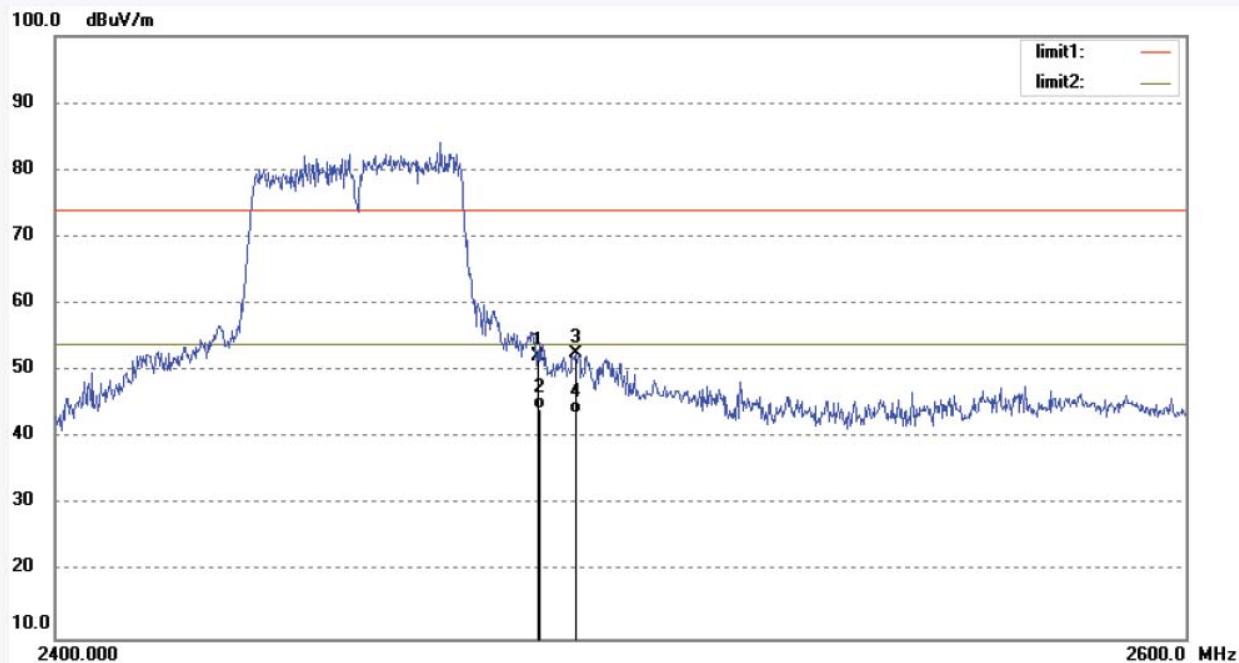
Mode: TX Channel 9(802.11n)40MHz

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



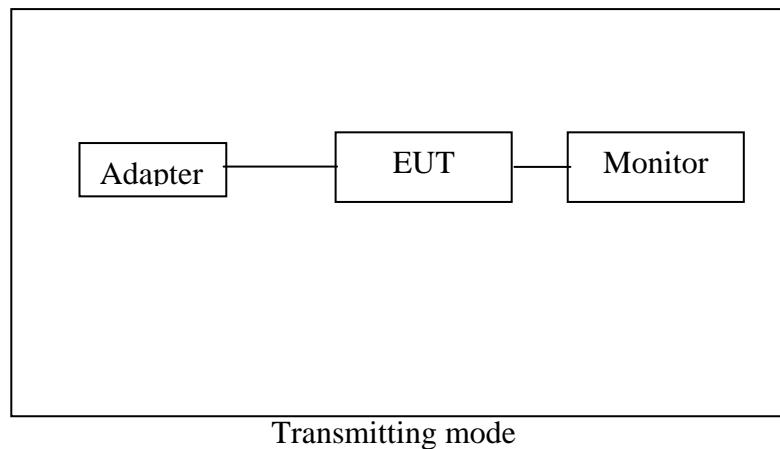
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	59.57	-7.37	52.20	74.00	-21.80	peak			
2	2483.500	51.69	-7.37	44.32	54.00	-9.68	peak			
3	2490.200	60.03	-7.39	52.64	74.00	-21.36	peak			
4	2490.200	51.10	-7.39	43.71	54.00	-10.29	peak			

Note: Average measurement with peak detection at No.2&4

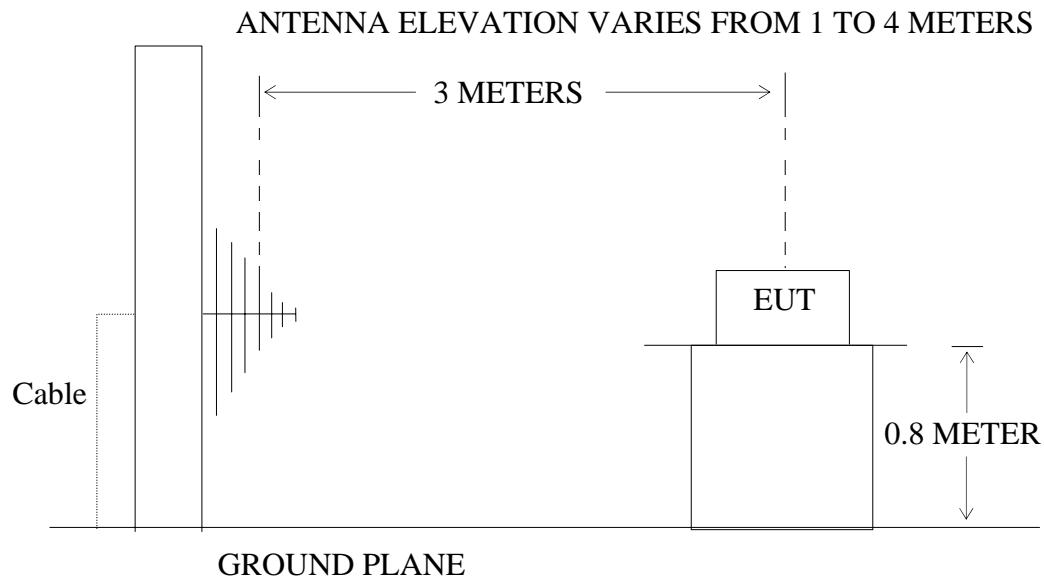
10.RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals



10.1.2.Semi-Anechoic Chamber Test Setup Diagram



10.2.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).

10.3. Restricted bands of operation

10.3.1. 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			

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

²Above 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 Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4. 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.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 10.1.

10.5.2.Turn on the power of all equipment.

10.5.3.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.

10.6.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 frequency range from 30MHz to 25000MHz is checked.

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

10.7.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 radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.

Below 1G



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Job No.: star2014 #1079

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014-12-27

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 0:16:41

EUT: TuppTV Media Player

Engineer Signature:

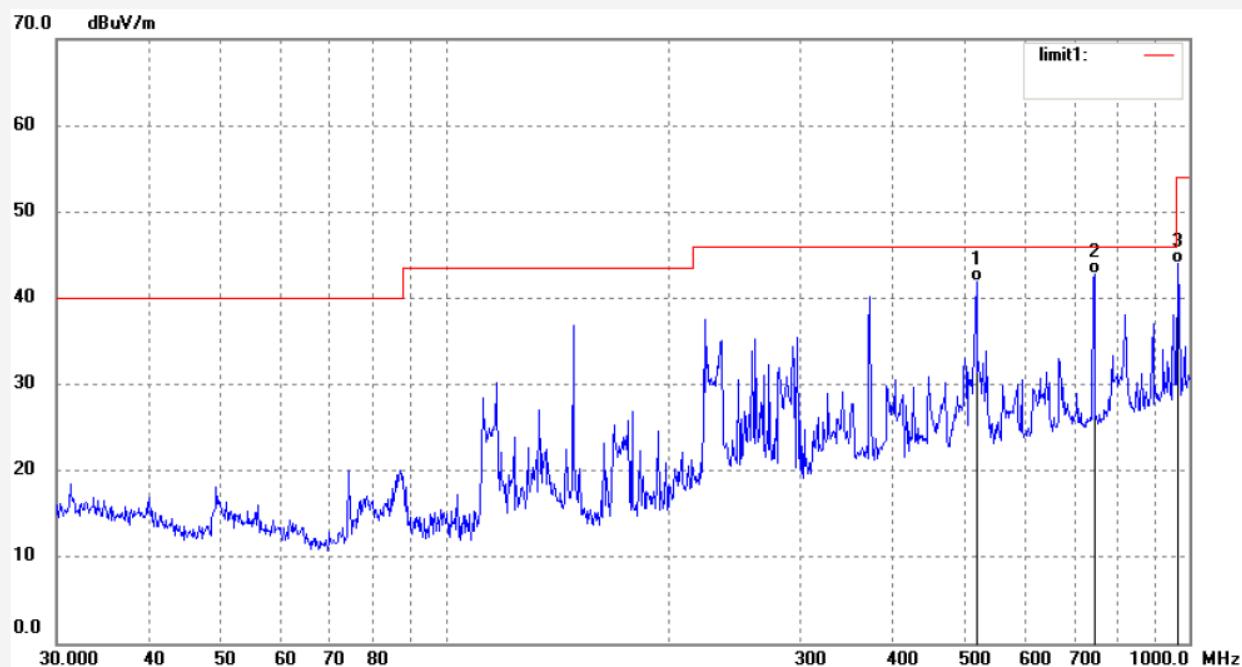
Mode: TX Channel 1(802.11b)

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



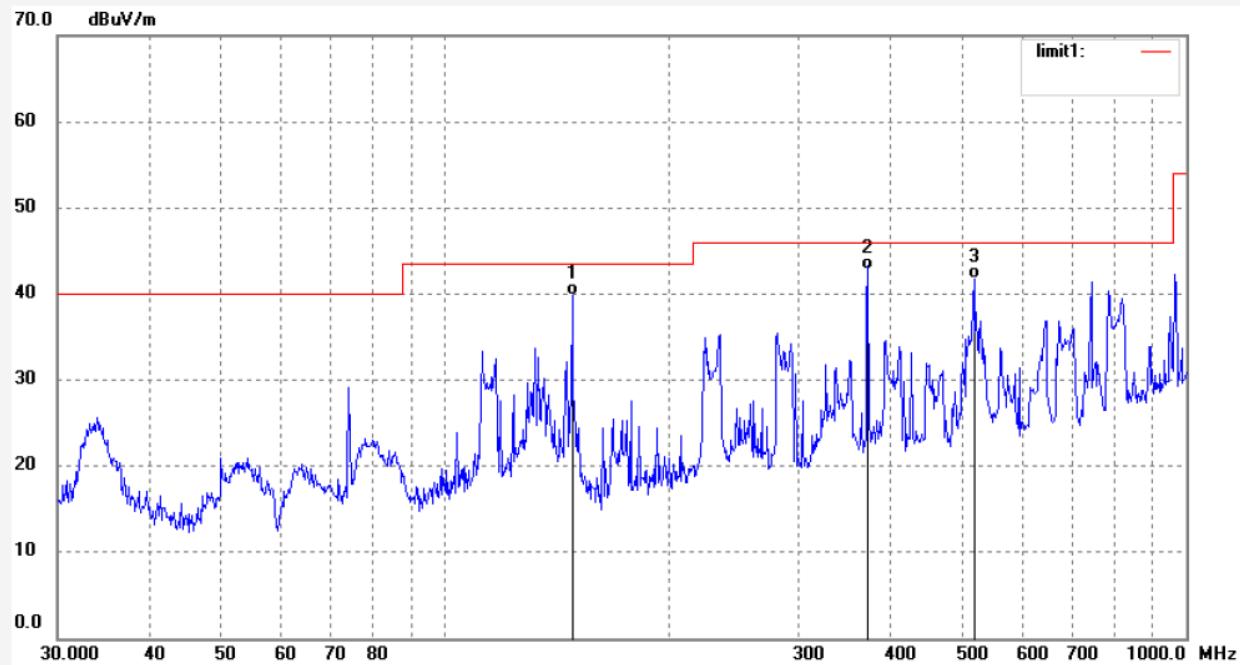
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	517.2480	46.29	-4.41	41.88	46.00	-4.12	QP			
2	744.8661	43.85	-1.11	42.74	46.00	-3.26	QP			
3	965.5421	41.62	2.39	44.01	54.00	-9.99	QP			



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Job No.: star2014 #1078	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014-12-27
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 0:12:05
EUT: TuppTV Media Player	Engineer Signature:
Mode: TX Channel 1(802.11b)	Distance: 3m
Model: Y001	
Manufacturer: YuppTV	
Note: Report No.:ATE20142548	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	148.4410	54.98	-15.18	39.80	43.50	-3.70	QP			
2	372.0045	50.30	-7.48	42.82	46.00	-3.18	QP			
3	517.2480	46.15	-4.41	41.74	46.00	-4.26	QP			



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Job No.: star2014 #1080

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014-12-27

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 0:19:53

EUT: TuppTV Media Player

Engineer Signature:

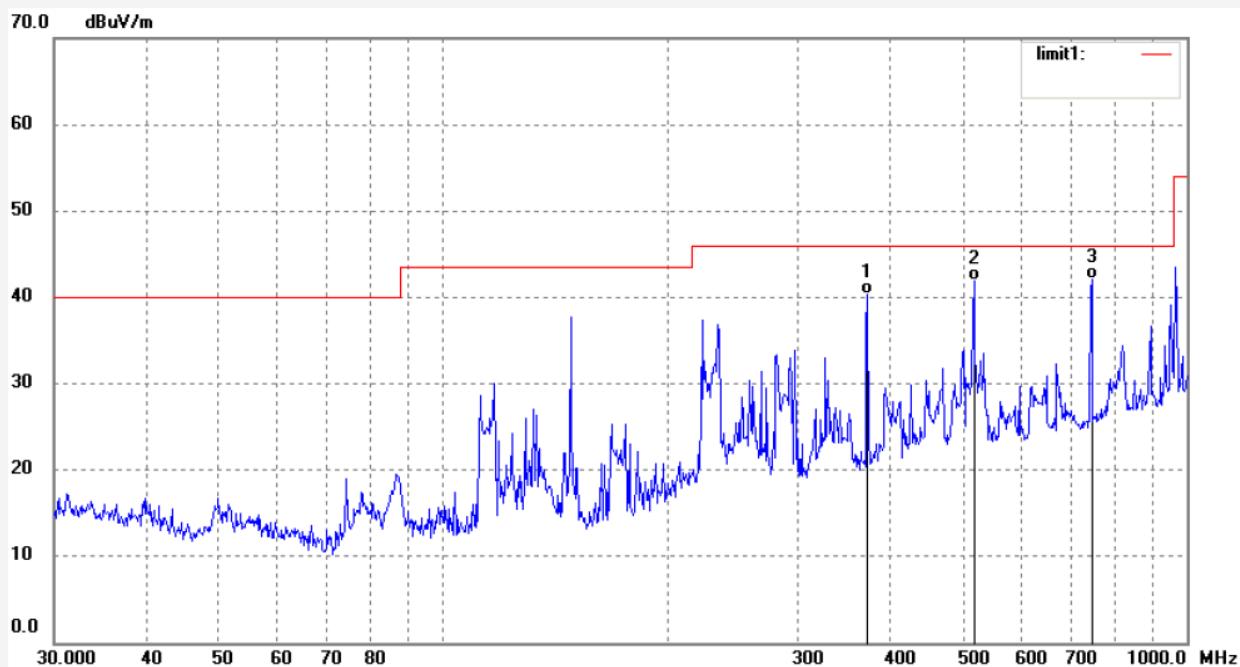
Mode: TX Channel 6(802.11b)

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	372.0045	47.74	-7.48	40.26	46.00	-5.74	QP			
2	517.2480	46.33	-4.41	41.92	46.00	-4.08	QP			
3	744.8660	43.16	-1.11	42.05	46.00	-3.95	QP			



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Job No.: star2014 #1081

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: TuppTV Media Player

Mode: TX Channel 6(802.11b)

Model: Y001

Manufacturer: YuppTV

Polarization: Vertical

Power Source: AC 120V/60Hz

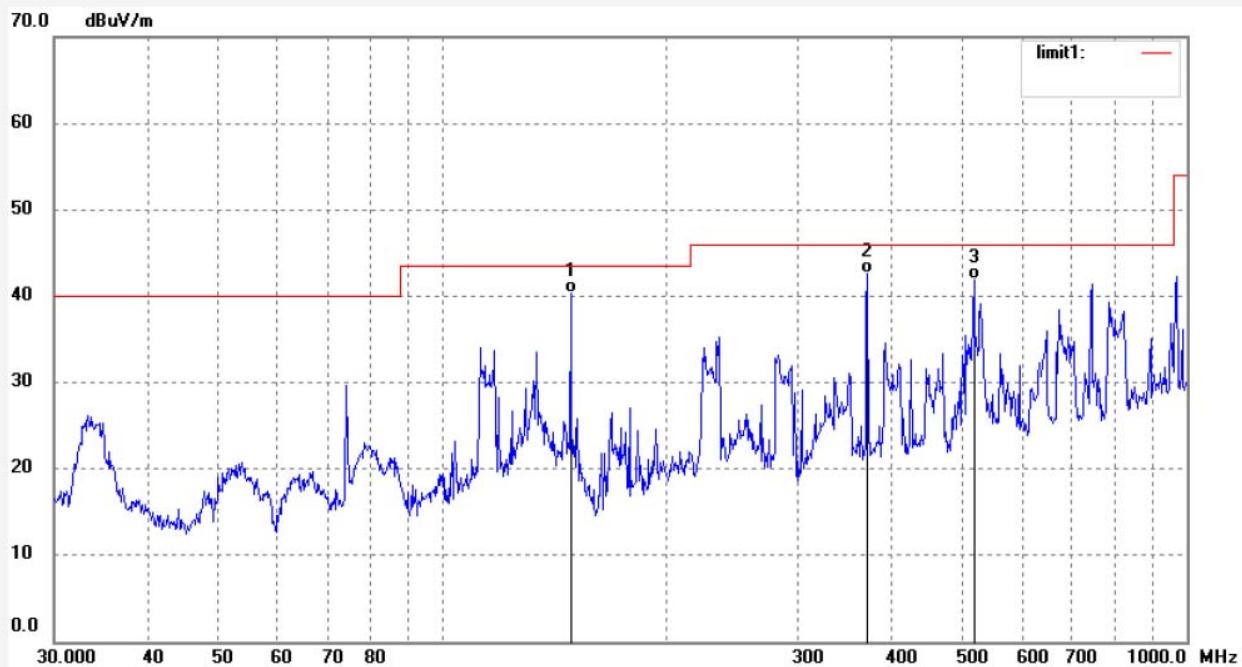
Date: 2014-12-27

Time: 0:22:45

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	148.4410	55.54	-15.18	40.36	43.50	-3.14	QP			
2	372.0045	50.06	-7.48	42.58	46.00	-3.42	QP			
3	517.2480	46.37	-4.41	41.96	46.00	-4.04	QP			



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Job No.: star2014 #1083

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014-12-27

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 0:30:53

EUT: TuppTV Media Player

Engineer Signature:

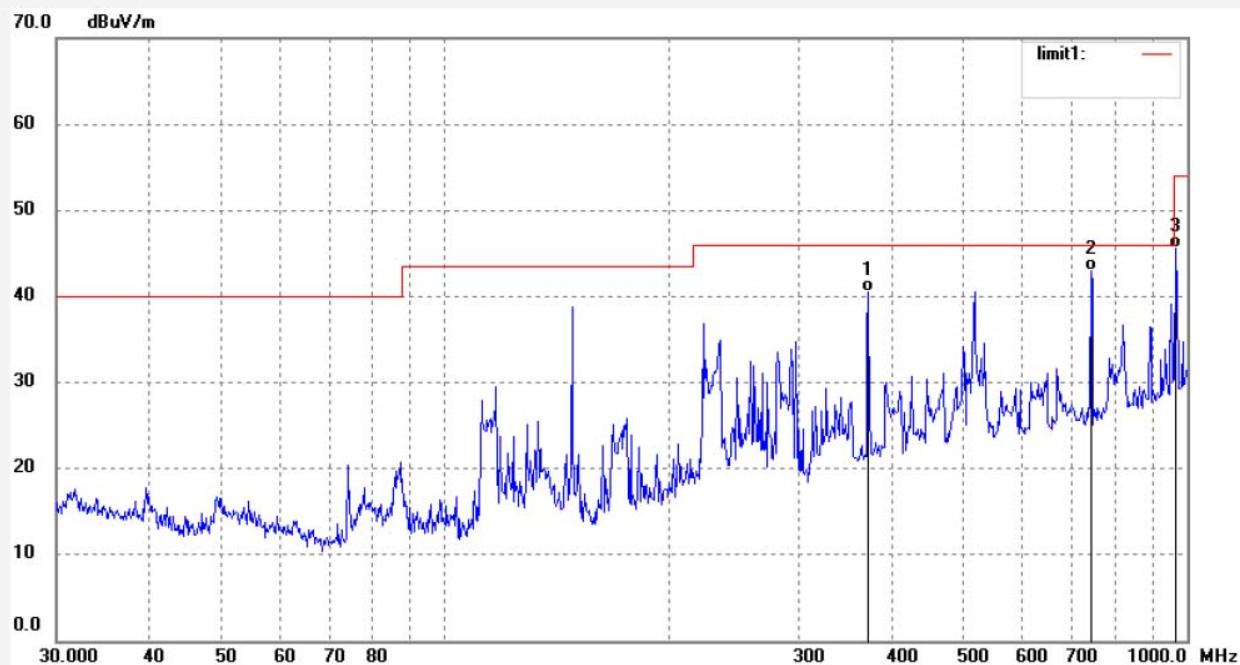
Mode: TX Channel 11(802.11b)

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	372.0045	48.02	-7.48	40.54	46.00	-5.46	QP			
2	742.2586	44.06	-1.16	42.90	46.00	-3.10	QP			
3	965.5421	43.19	2.39	45.58	54.00	-8.42	QP			



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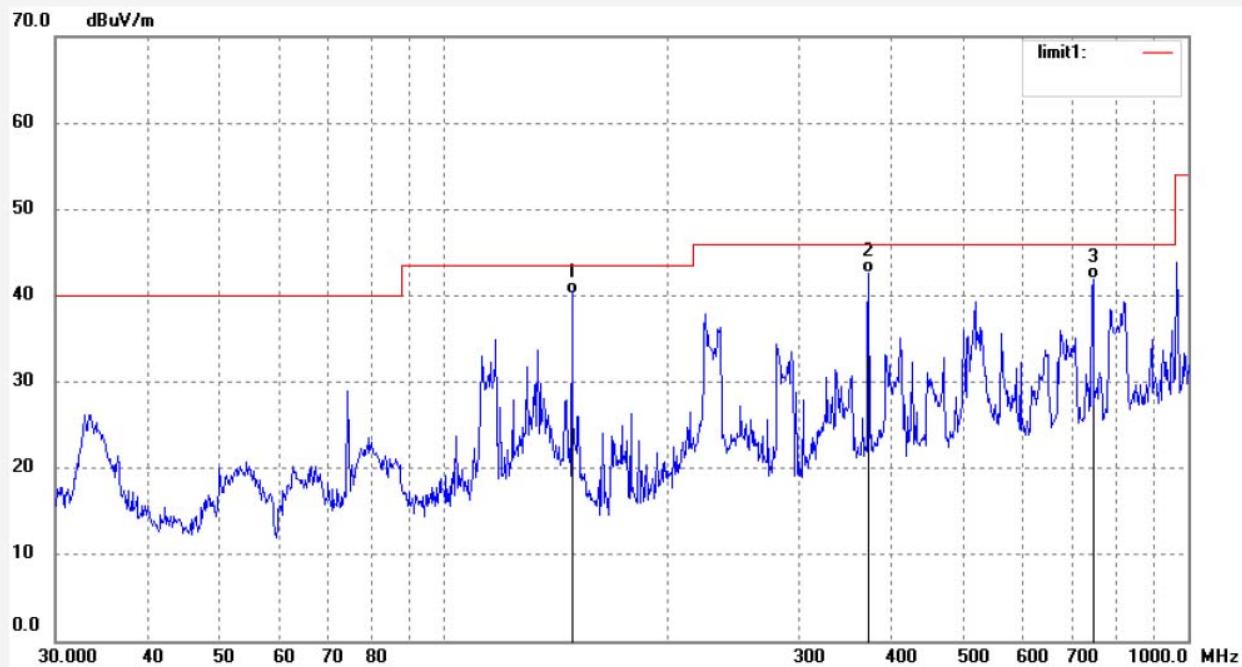
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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.:	star2014 #1082	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2014-12-27
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	0:26:25
EUT:	TuppTV Media Player	Engineer Signature:	
Mode:	TX Channel 11(802.11b)	Distance:	3m
Model:	Y001		
Manufacturer:	YuppTV		
Note:	Report No.:ATE20142548		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	148.4410	55.31	-15.18	40.13	43.50	-3.37	QP			
2	372.0045	50.09	-7.48	42.61	46.00	-3.39	QP			
3	744.8661	42.97	-1.11	41.86	46.00	-4.14	QP			

Above 1G



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Job No.: star2014 #1128

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014-12-27

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 3:30:57

EUT: TuppTV Media Player

Engineer Signature:

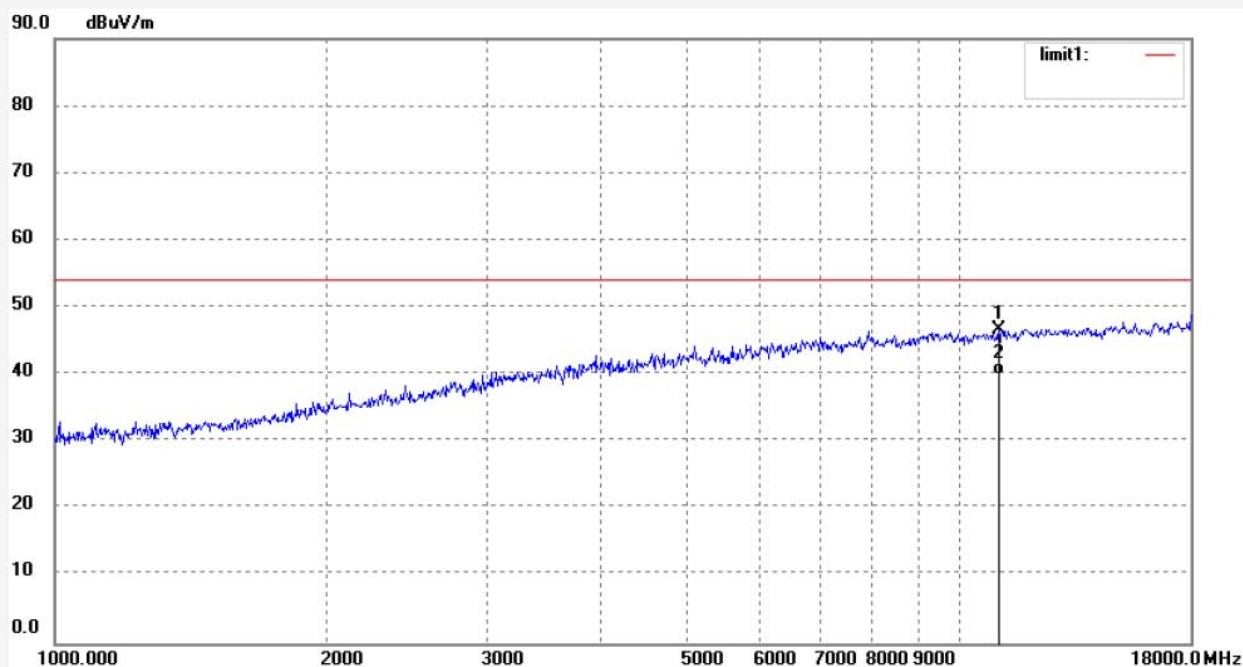
Mode: TX Channel 1(802.11b)

Distance: 3m

Model: Y001

Manufacturer: YuppTV

Note: Report No.:ATE20142548



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11044.129	37.19	9.48	46.67	74.00	-27.33	peak			
2	11044.129	30.40	9.48	39.88	54.00	-14.12	peak			