

# FCC PART 15C & RSS 247 TEST REPORT No. I19N01941-WLAN

For

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

**Tracker** 

Model Name: cp311A-CT

With

Hardware Version: V1.01

Software Version: 3.18.004.P0.190809.cp311A-CT

FCC ID: R38YLCP311A-CT

IC: 10367A-YL311ACT

Issued Date: 2019-09-26

Designation Number: CN1210 ISED Assigned Code: 23289

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

#### Test Laboratory:

Shenzhen Academy of Information and Communications Technology

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## **REPORT HISTORY**

Report Number	Report Number Revision		Issue Date
I19N01941-WLAN	Rev.0	1st edition	2019-09-26



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## 1. Test Laboratory

#### 1.1. Testing Location

Location: Shenzhen Academy of Information and Communications Technology
Address: Building G, Shenzhen International Innovation Center, No.1006

Shennan Road, Futian District, Shenzhen, Guangdong

Province, China

Postal Code: 518026

Telephone: +86(0)755-33322000 Fax: +86(0)755-33322001

#### 1.2. Testing Environment

Normal Temperature:  $15-35^{\circ}$ C Relative Humidity: 20-75%

#### 1.3. Project data

Testing Start Date: 2019-09-05
Testing End Date: 2019-09-10

### 1.4. Signature

Lin Kanfeng

林侃丰

(Prepared this test report)

**Tang Weisheng** 

(Reviewed this test report)

Zhang Bojun

(Approved this test report)



## 2. Client Information

Address:

Address:

#### 2.1. Applicant Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Building B, Boton Science Park, Chaguang Road, Xili Town, Nanshan

District, Shenzhen

Contact: Yentl Chen

Email: chenyanting@yulong.com

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### 2.2. Manufacturer Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Building B, Boton Science Park, Chaguang Road, Xili Town, Nanshan

District, Shenzhen

Contact: Yentl Chen

Email: chenyanting@yulong.com

Tel.: +86 15927320221



## 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

### 3.1. <u>About EUT</u>

Description Tracker
Model Name cp311A-CT

Brand Name /

RF Protocol IEEE 802.11 b/g/n-HT20/ n-HT40

Operating Frequency 2412MHz~2462MHz

Number of Channels 11

Antenna Type Integrated
Antenna Gain See Page 12

Power Supply 3.8V DC by Battery FCC ID R38YLCP311A-CT IC 10367A-YL311ACT

Condition of EUT as received No abnormality in appearance Note: Components list, please refer to documents of the manufacturer.

#### 3.2. Internal Identification of EUT

EUT ID*	IMEI	<b>HW Version</b>	SW Version	<b>Receive Date</b>
EUT1	860778040000218	V1.01	3.18.004.P0.190809.cp311A-CT	2019-09-04

<sup>\*</sup>EUT ID: is used to identify the test sample in the lab internally.

#### 3.3. Internal Identification of AE

AE ID*	Description	Mode	Manufacturer
AE1	Battery	Li-polymer	Ningbo Veken
AE2	Charger	618045	Shenzhen Kosun
AE3	Charger	RD0501000-USBA-18MG	Shenzhen RUIDE

<sup>\*</sup>AE ID: is used to identify the test sample in the lab internally.

#### 3.4. General Description

The Equipment under Test (EUT) is a model of Tracker with integrated antenna and battery.

It consists of normal options: Charger, USB cable and Tracker.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.



## 4. Reference Documents

### 4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

#### 4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version	
FCC Part15	FCC CFR 47, Part 15, Subpart C:		
	15.205 Restricted bands of operation;		
	15.209 Radiated emission limits, general requirements;		
	15.247 Operation within the bands 902-928MHz, 2400-2483.5		
	MHz, and 5725-5850 MHz		
ANSI C63.10	American National Standard of Procedures for Compliance	2013	
	Testing of Unlicensed Wireless Devices		
RSS-247	Spectrum Management and Telecommunications Radio	Issue 2	
	Standards Specification	February,	
	Digital Transmission Systems (DTSs), Frequency Hopping	2017	
	Systems (FHSs) and License-Exempt Local Area Network		
	(LE-LAN) Devices		
RSS-Gen	Spectrum Management and Telecommunications Radio	Issue 5 A1	
	Standards Specification	March,	
	General Requirements for Compliance of Radio Apparatus	2019	



## 5. Test Results

#### 5.1. Summary of Test Results

No	Test cases	Sub-clause of Part 15C	Sub-clause of IC	Verdict
0	Antenna Requirement	15.203	/	Р
1	Maximum Output Power	15.247 (b)	RSS-247 section 5.4	Р
2	Peak Power Spectral Density	15.247 (e)	RSS-247 section 5.2	Р
3	6dB Bandwidth	15.247 (a)	RSS-247 section 5.2	Р
4	Band Edges Compliance	15.247 (d)	RSS-247 section 5.5	Р
5	Conducted Emission	15.247 (d)	RSS-247 section 5.5/	Р
5	Conducted Emission	15.247 (u)	RSS-Gen section 6.13	F
6	Radiated Emission	15.247, 15.205, 15.209	RSS-247 section 5.5/	P
O	Radiated Effilssion	15.247, 15.205, 15.209	RSS-Gen section 6.13	F
7	AC Power Line Conducted	15.107, 15.207	RSS-Gen section 8.8	Р
8	Occupied Bandwidth	1	RSS-Gen section 6.7	Р

See ANNEX A for details.

#### 5.2. Statements

SAICT has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

#### 5.3. Terms used in the result table

Terms used in Verdict column

Р	Pass
NA	Not Available
F	Fail
	·

#### Abbreviations

AC	Alternating Current		
AFH	Adaptive Frequency Hopping		
BW	Band Width		
E.I.R.P.	equivalent isotropic radiated power		
ISM	Industrial, Scientific and Medical		
R&TTE	Radio and Telecommunications Terminal Equipment		
RF	Radio Frequency		
Tx	Transmitter		



## 5.4. <u>Laboratory Environment</u>

#### Semi-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C		
Relative humidity	Min. = 20 %, Max. = 75 %		
Shielding offertiveness	0.014 MHz - 1 MHz, > 60 dB;		
Shielding effectiveness	1 MHz - 1000 MHz, > 90 dB.		
Electrical insulation	> 2 MΩ		
Ground system resistance	< 4 Ω		
Normalised site attenuation (NSA)	< ±4 dB, 3m/10m distance, from 30 to 1000 MHz		
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz		

#### Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C	
Relative humidity	Min. = 20 %, Max. = 75 %	
Shielding effectiveness	0.014 MHz - 1 MHz, > 60 dB;	
	1 MHz - 1000 MHz, > 90 dB.	
Electrical insulation	> 2 MΩ	
Ground system resistance	<4 Ω	

#### **Fully-anechoic chamber**

Temperature	Min. = 15 °C, Max. = 35 °C		
Relative humidity	Min. = 20 %, Max. = 75 %		
Chielding offertiveness	0.014 MHz - 1MHz, > 60dB;		
Shielding effectiveness	1 MHz - 1000 MHz, > 90dB.		
Electrical insulation	> 2 MΩ		
Ground system resistance	< 4 Ω		
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3m distance		



## 6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2020-01-16	1 year
2	Power Sensor	U2021XA	MY55430013	Agilent	2020-01-16	1 year
3	Data Acquisiton	U2531A	TW55443507	Agilent	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	LISN	ESH2-Z5		R&S	2020-01-03	
	LIOIN	ESHZ-Z5	100196	Kas	2020-01-03	1 year
2	Test Receiver	ESCI	100701	R&S	2020-08-06	1 year
3	Loop Antenna	HLA6120	35779	TESEQ	2022-05-01	3 year
4	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2020-02-17	3 year
5	Horn Antenna	3117	00066585	ETS-Lindgren	2022-03-04	3 year
6	Test Receiver	ESR7	101675	R&S	2020-07-18	1 year
7	Spectrum	FSP 40	100378	R&S	2019-12-13	1 year
	Analyzer	F3F 40	100376	Καο	2019-12-13	i yeai
8	Chamber	FACT5-2.0	4166	ETS-Lindgren	2021-05-12	3 year
	Antonno	QSH-SL-1	17013	Onor	2020 01 15	2 voor
9	Antenna	8-26-S-20	17013	Q-par	2020-01-15	3 year
10	Antonna	QSH-SL-2	17014	0	2020-01-11	2 voor
10	Antenna	6-40-K-20	17014	Q-par	2020-01-11	3 year

#### **Test software**

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	8.53.0
3	EMC32	Rohde & Schwarz	10.01.00

EUT is engineering software provided by the customer to control the transmitting signal.

The EUT was programmed to be in continuously transmitting mode.

#### **Anechoic chamber**

Fully anechoic chamber by ETS-Lindgren



## 7. Measurement Uncertainty

Test Name	Uncertainty		
1. RF Output Power	±1.32dB		
2. Power Spectral Density	±2.0	32dB	
3. Occupied Channel Bandwidth	±6	6Hz	
	30MHz≤f≤1GHz	±1.41dB	
4 Transmitter Spurious Emission Conducted	1GHz≤f≤7GHz	±1.92dB	
4. Transmitter Spurious Emission - Conducted	7GHz≤f≤13GHz	±2.31dB	
	13GHz≤f≤26GHz	±2.61dB	
	9kHz≤f≤30MHz	±1.84dB	
5. Transmitter Spurious Emission - Radiated	30MHz≤f≤1GHz	±4.90dB	
5. Transmitter Spunous Emission - Radiated	1GHz≤f≤18GHz	±5.12dB	
	18GHz≤f≤40GHz	±4.66dB	
6. AC Power line Conducted Emission	150kHz≶f≶30MHz	±3.10dB	



## **ANNEX A: Detailed Test Results**

### A.0 Antenna Requirement

#### **Measurement Limit:**

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

#### **Antenna Gain:**

Channel	CH 1	CH 3	CH 6	CH 9	CH 11
Gain (dBi)	-4.94	-4.62	-4.58	-4.58	-4.64

Note: The RF transmitter uses an integrate antenna without connector.



### A.1 Test Configuration

#### **A.1.1 Conducted Measurements**

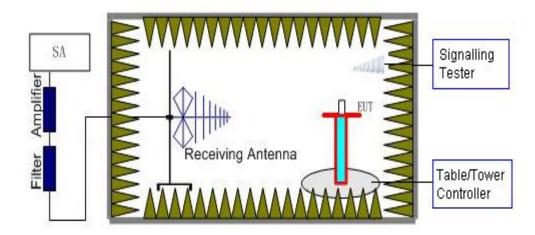
The measurement is made according to ANSI C63.10.

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values.



#### A.1.2 Radiated Measurements

**Test setup:** EUT was placed on a 1.5 meter high non-conductive table at a 3 meter test distance from the receive antenna. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiving antenna polarization.





#### A.2 Maximum Output Power

#### Measurement of method :See ANSI C63.10-Clause 11.9.2.3.2

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

#### **Measurement Limit:**

Standard	Limit (dBm)	E.I.R.P Limit (dBm)
FCC CRF Part 15.247(b) & RSS-247 section 5.4	< 30	< 36

#### **Measurement Results:**

Mode	Channel	Frequency (MHz)	Average Conducted Power (dBm)	E.I.R.P (dBm)	Conclusion
	CH 1	2412	15.65	10.71	Р
802.11b	CH 6	2437	15.15	10.57	Р
	CH 11	2462	15.52	10.88	Р
	CH 1	2412	12.64	7.70	Р
802.11g	CH 6	2437	12.74	8.16	Р
	CH 11	2462	12.53	7.89	Р
002.445	CH 1	2412	10.65	5.71	Р
802.11n HT20	CH 6	2437	10.79	6.21	Р
H120	CH 11	2462	10.56	5.92	Р
002.445	CH 3	2422	10.53	5.91	Р
802.11n	CH 6	2437	10.59	6.01	Р
HT40	CH 9	2452	10.28	5.70	Р

Note: E.I.R.P value = Conducted values (with conducted samples) + Antenna Gain.

Note: Worst-case data rates as provided by the client were: 11Mbps (802.11b), 54Mbps (802.11g), MCS7 (802.11n). The following cases and test graphs are performed with this condition. The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



## A.3 Peak Power Spectral Density

#### **Measurement Limit:**

Standard	Limit	
FCC CRF Part 15.247(e) & RSS-247 section 5.2	< 8 dBm/3 kHz	

#### **Measurement Results:**

Mode	Channel	Frequency (MHz)	Test Results (dBm)		Conclusion
	CH 1	2412	Fig.1	-6.59	Р
802.11b	CH 6	2437	Fig.2	-7.77	Р
	CH 11	2462	Fig.3	-7.29	Р
	CH 1	2412	Fig.4	-12.94	Р
802.11g	CH 6	2437	Fig.5	-12.28	Р
	CH 11	2462	Fig.6	-12.76	Р
002 11n	CH 1	2412	Fig.7	-15.49	Р
802.11n HT20	CH 6	2437	Fig.8	-15.78	Р
П120	CH 11	2462	Fig.9	-15.84	Р
002.445	CH 3	2422	Fig.10	-18.06	Р
802.11n	CH 6	2437	Fig.11	-18.00	Р
HT40	CH 9	2452	Fig.12	-18.36	Р

See below for test graphs.



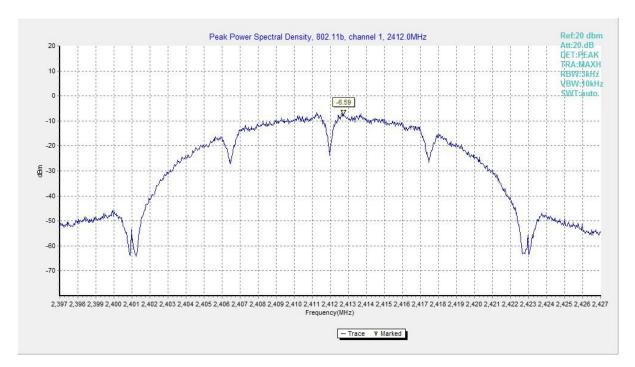


Fig.1 Power Spectral Density (802.11b, CH1)

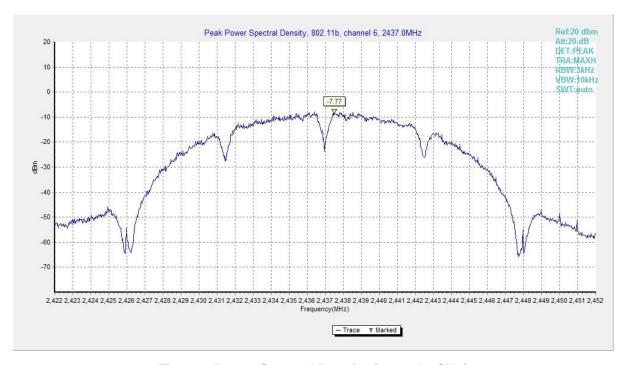


Fig.2 Power Spectral Density (802.11b, CH6)



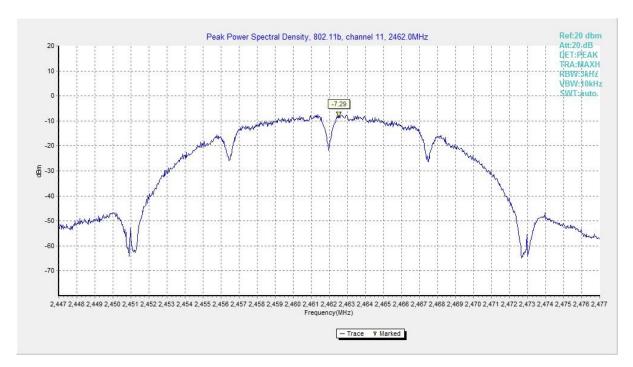


Fig.3 Power Spectral Density (802.11b, CH11)

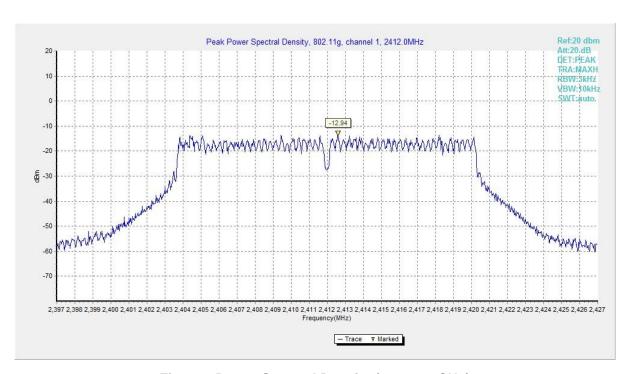


Fig.4 Power Spectral Density (802.11g, CH1)



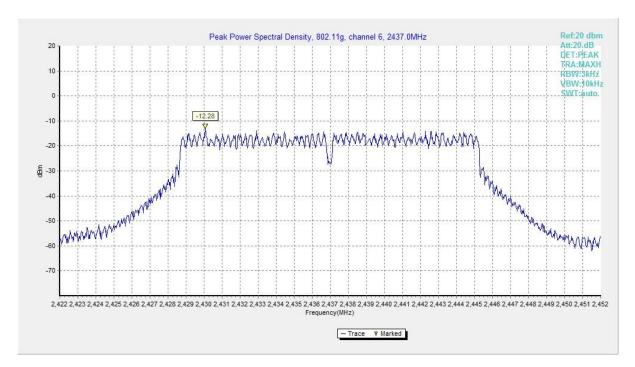


Fig.5 Power Spectral Density (802.11g, CH6)

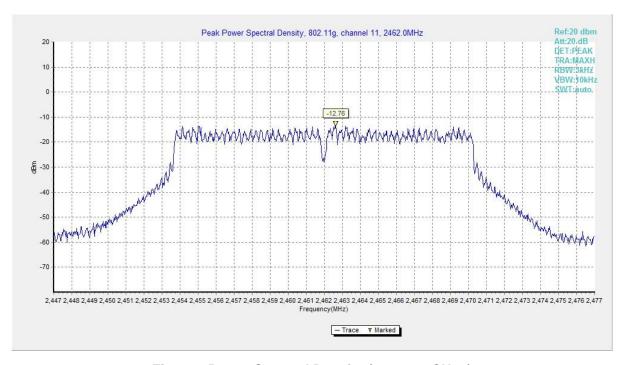


Fig.6 Power Spectral Density (802.11g, CH11)



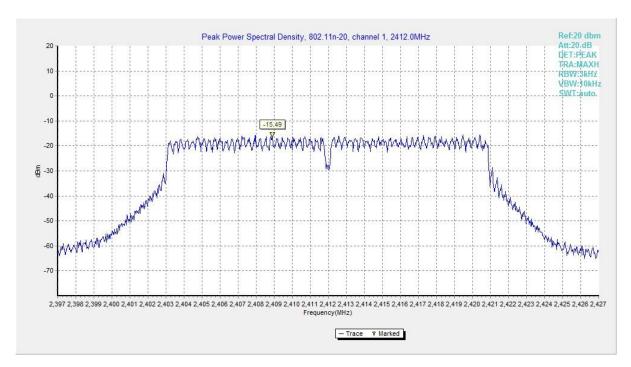


Fig.7 Power Spectral Density (802.11n HT20, CH1)

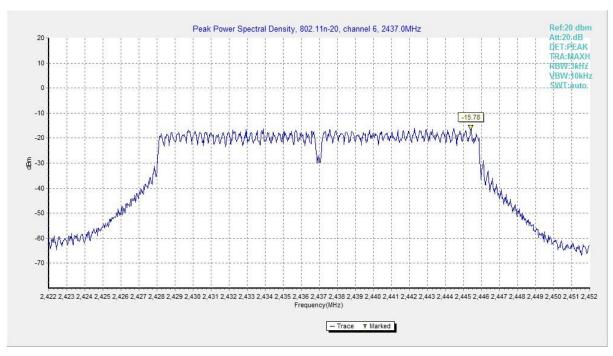


Fig.8 Power Spectral Density (802.11n HT20, CH6)



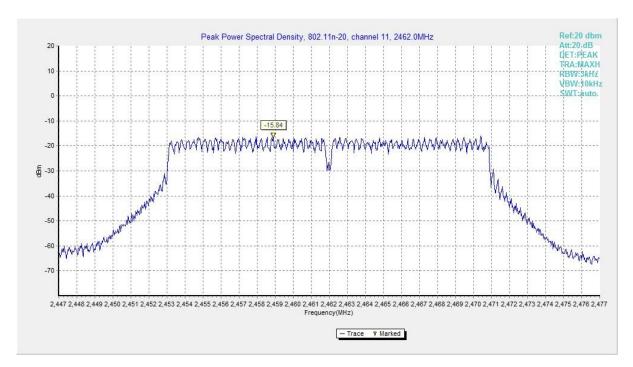


Fig.9 Power Spectral Density (802.11n HT20, CH11)

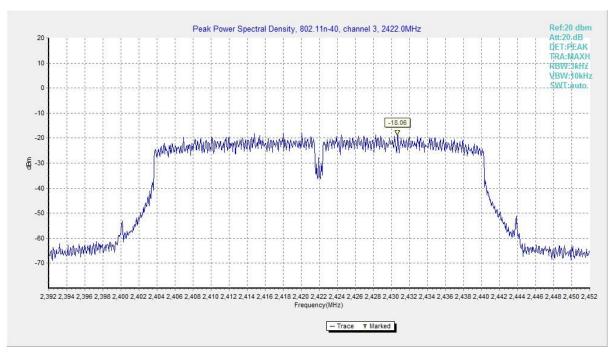


Fig.10 Power Spectral Density (802.11n HT40, CH3)



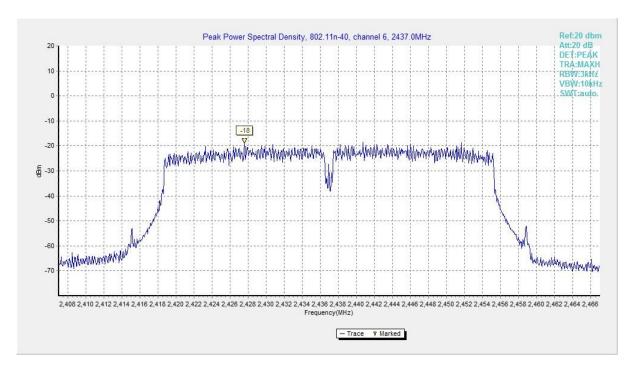


Fig.11 Power Spectral Density (802.11n HT40, CH6)

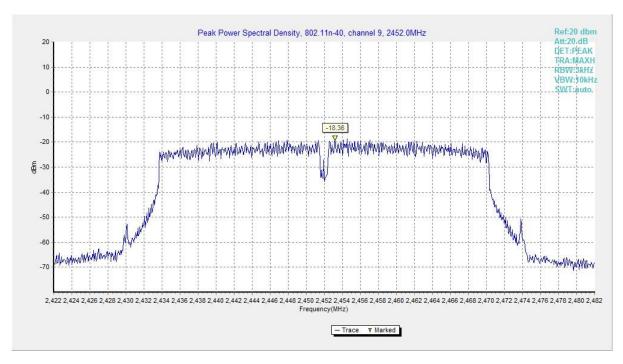


Fig.12 Power Spectral Density (802.11n HT40, CH9)



#### A.4 6dB Bandwidth

#### **Measurement Limit:**

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a) & RSS-247 section 5.2	≥ 500

#### **Measurement Result:**

Mode	Channel	Frequency (MHz)	Test Results (kHz)		Conclusion
	CH 1	2412	Fig.13	9550	Р
802.11b	CH 6	2437	Fig.14	10000	Р
	CH 11	2462	Fig.15	10050	Р
	CH 1	2412	Fig.16	16350	Р
802.11g	CH 6	2437	Fig.17	16350	Р
	CH 11	2462	Fig.18	16350	Р
000 44 =	CH 1	2412	Fig.19	17350	Р
802.11n HT20	CH 6	2437	Fig.20	17550	Р
П120	CH 11	2462	Fig.21	17550	Р
902 11n	CH 3	2422	Fig.22	35200	Р
802.11n	CH 6	2437	Fig.23	35200	Р
HT40	CH 9	2452	Fig.24	35120	Р

See below for test graphs.



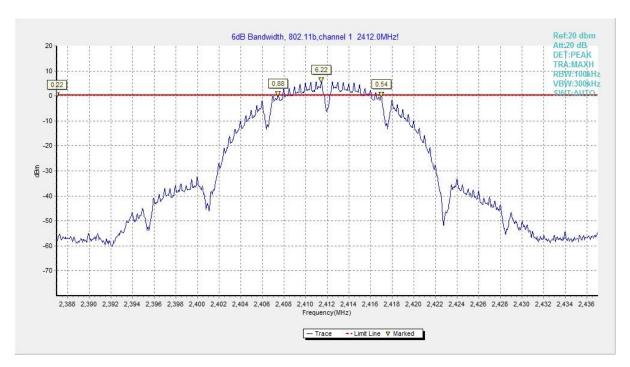


Fig.13 6dB Bandwidth (802.11b, CH1)



Fig.14 6dB Bandwidth (802.11b, CH6)



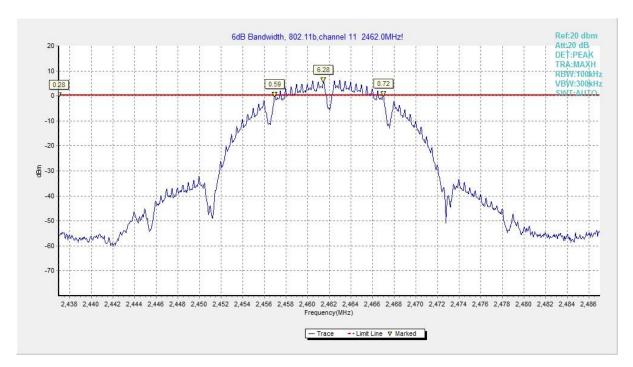


Fig.15 6dB Bandwidth (802.11b, CH11)

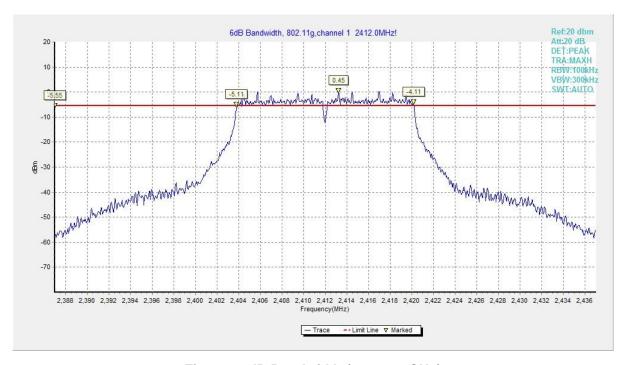


Fig.16 6dB Bandwidth (802.11g, CH1)



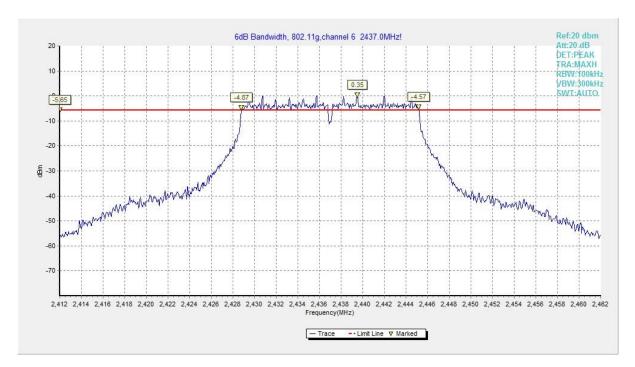


Fig.17 6dB Bandwidth (802.11g, CH6)

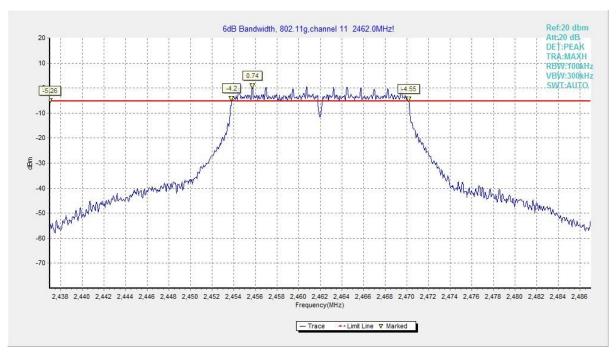


Fig.18 6dB Bandwidth (802.11g, CH11)



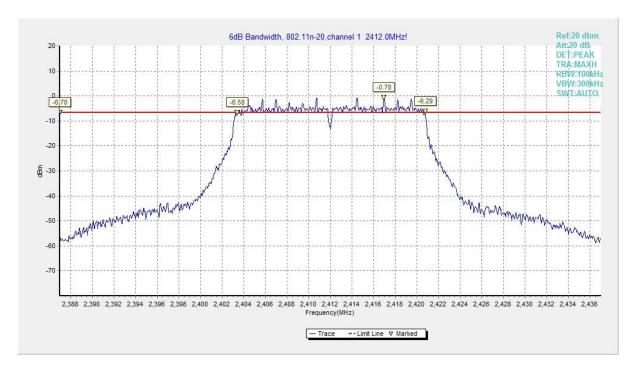


Fig.19 6dB Bandwidth (802.11n HT20, CH1)

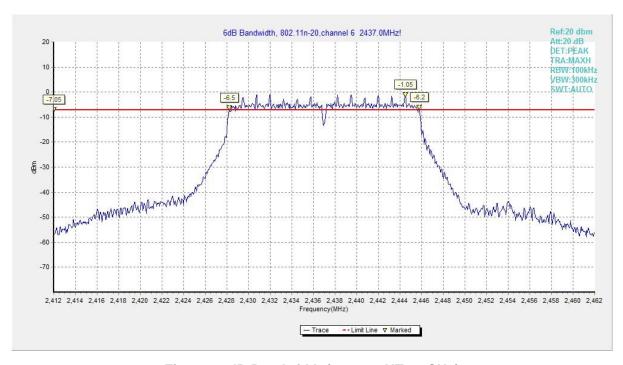


Fig.20 6dB Bandwidth (802.11n HT20, CH6)



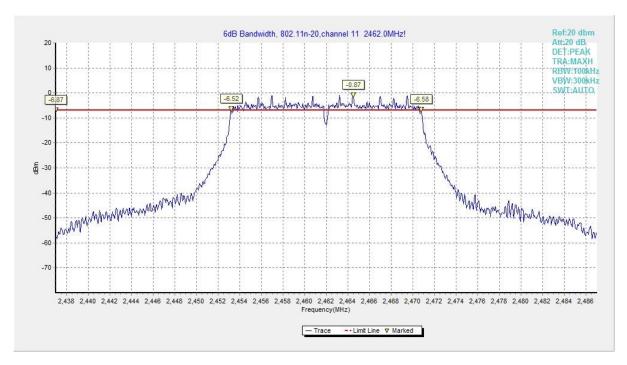


Fig.21 6dB Bandwidth (802.11n HT20, CH11)



Fig.22 6dB Bandwidth (802.11n HT40, CH3)



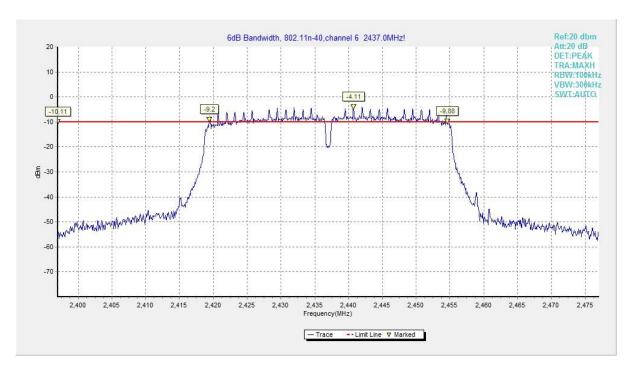


Fig.23 6dB Bandwidth (802.11n HT40, CH6)

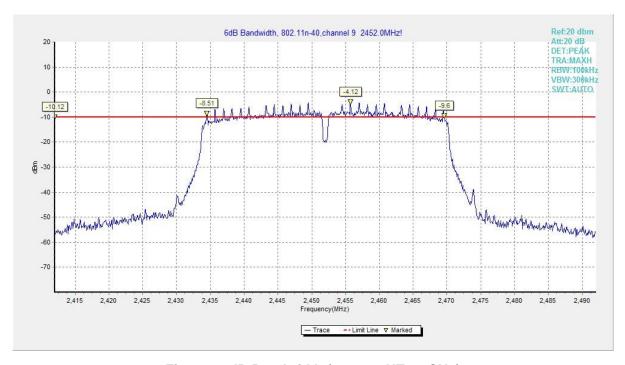


Fig.24 6dB Bandwidth (802.11n HT40, CH9)



## A.5 Band Edges Compliance

#### **Measurement Limit:**

Standard	Limit (dB)
FCC 47 CFR Part 15.247 (d) & RSS-247 section 5.5	> 20

#### **Measurement Result:**

Mode	Channel	Frequency (MHz)	Test Results (dB)		Conclusion
802.11b	CH 1	2412	Fig.25	39.33	Р
	CH 11	2462	Fig.26	61.45	Р
802.11g	CH 1	2412	Fig.27	38.70	Р
	CH 11	2462	Fig.28	49.39	Р
802.11n	CH 1	2412	Fig.29	40.26	Р
HT20	CH 11	2462	Fig.30	52.69	Р
802.11n	CH 3	2422	Fig.31	39.36	Р
HT40	CH 9	2452	Fig.32	47.67	Р

See below for test graphs.



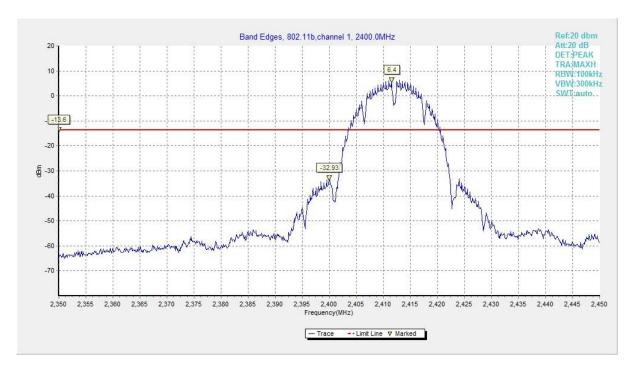


Fig.25 Band Edges (802.11b, CH1)



Fig.26 Band Edges (802.11b, CH11)



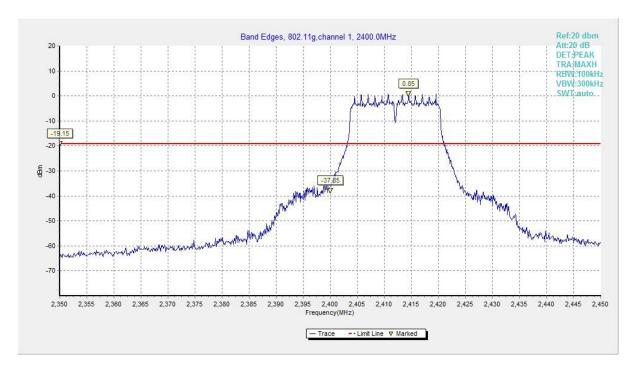


Fig.27 Band Edges (802.11g, CH1)

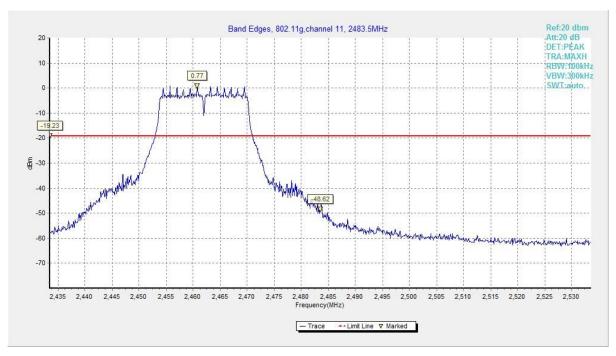


Fig.28 Band Edges (802.11g, CH11)



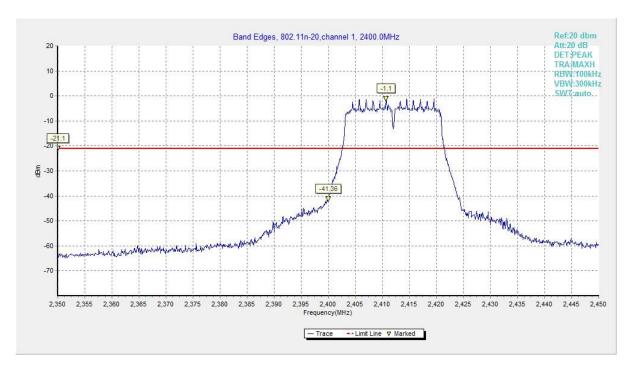


Fig.29 Band Edges (802.11n HT20, CH1)

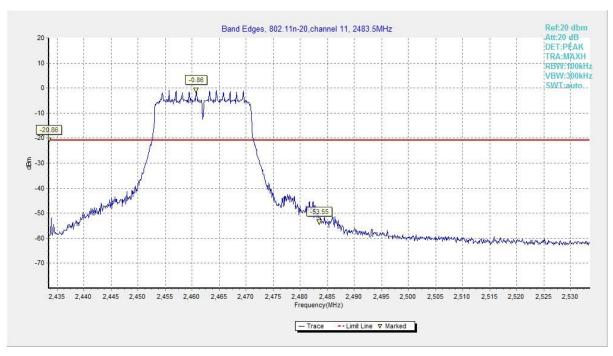


Fig.30 Band Edges (802.11n HT20, CH11)



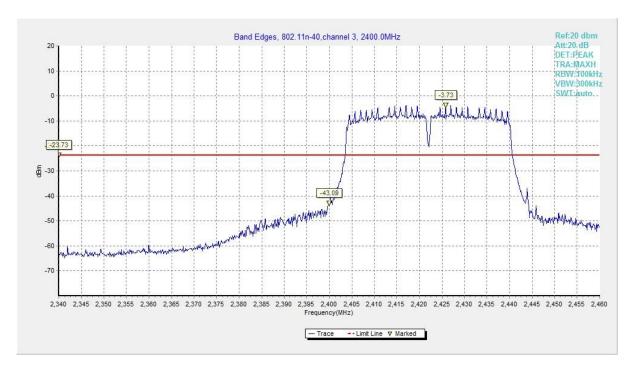


Fig.31 Band Edges (802.11n HT40, CH3)

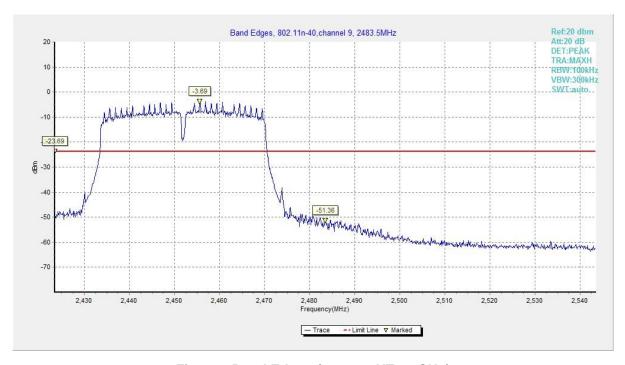


Fig.32 Band Edges (802.11n HT40, CH9)



#### **A.6 Conducted Emission**

#### **Measurement Limit:**

Standard	Limit
FCC 47 CFR Part 15.247 (d) & RSS-247 section 5.5/	30dB below peak output power in
RSS-Gen section 6.13	100kHz bandwidth

#### **Measurement Results:**

Mode	Channel	Frequency (MHz)	Frequency Range	Test Results	Conclusion
802.11b	CH 1	2412	30MHz~26GHz	Fig.33	Р
	CH 6	2437	30MHz~26GHz	Fig.34	Р
	CH 11	2462	30MHz~26GHz	Fig.35	Р
802.11g	CH 1	2412	30MHz~26GHz	Fig.36	Р
	CH 6	2437	30MHz~26GHz	Fig.37	Р
	CH 11	2462	30MHz~26GHz	Fig.38	Р
802.11n HT20	CH 1	2412	30MHz~26GHz	Fig.39	Р
	CH 6	2437	30MHz~26GHz	Fig.40	Р
	CH 11	2462	30MHz~26GHz	Fig.41	Р
802.11n HT40	CH 3	2422	30MHz~26GHz	Fig.42	Р
	CH 6	2437	30MHz~26GHz	Fig.43	Р
	CH 9	2452	30MHz~26GHz	Fig.44	Р

See below for test graphs.



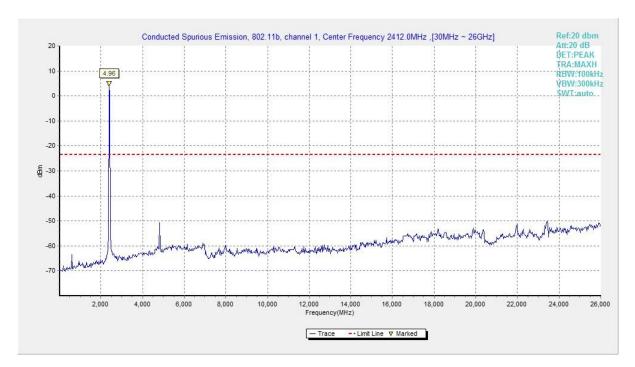


Fig.33 Conducted Spurious Emission (802.11b, CH1)

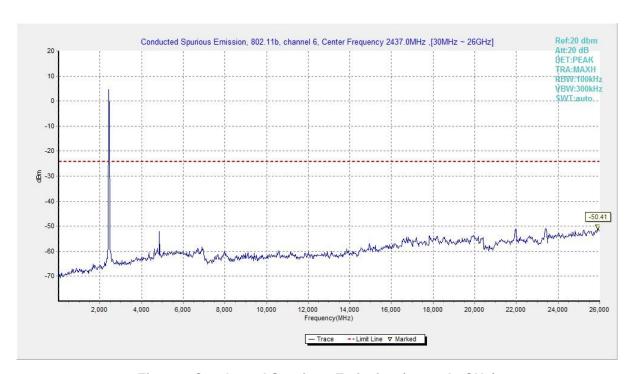


Fig.34 Conducted Spurious Emission (802.11b, CH6)



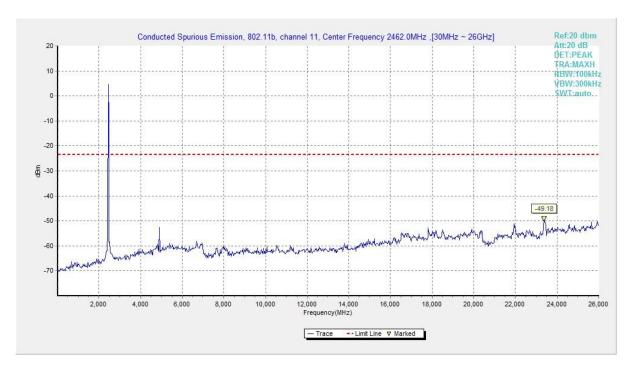


Fig.35 Conducted Spurious Emission (802.11b, CH11)

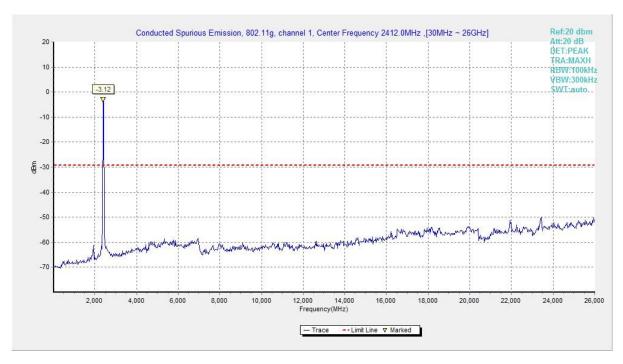


Fig.36 Conducted Spurious Emission (802.11g, CH1)



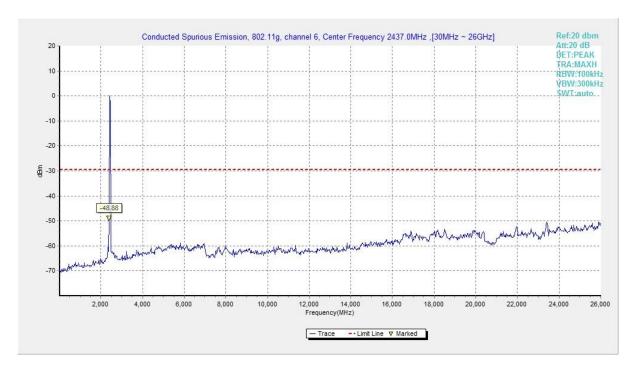


Fig.37 Conducted Spurious Emission (802.11g, CH6)

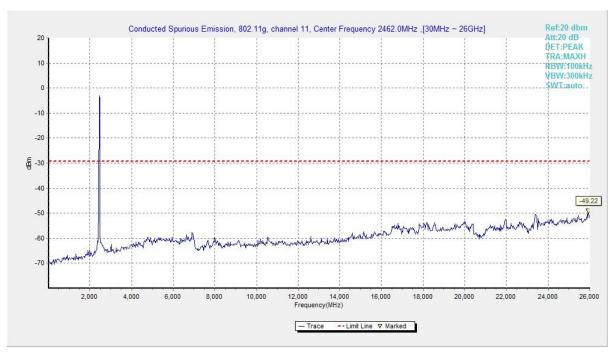


Fig.38 Conducted Spurious Emission (802.11g, CH11)



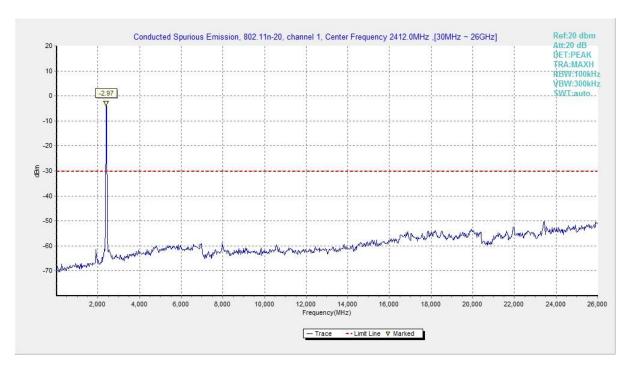


Fig.39 Conducted Spurious Emission (802.11n HT20, CH1)

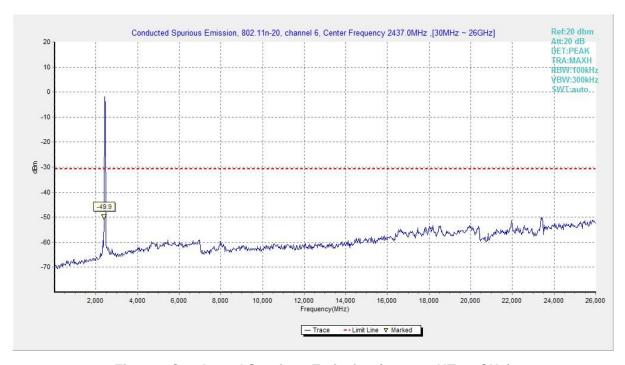


Fig.40 Conducted Spurious Emission (802.11n HT20, CH6)



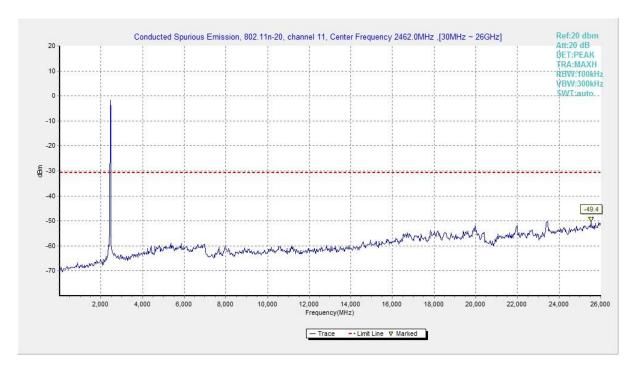


Fig.41 Conducted Spurious Emission (802.11n HT20, CH11)

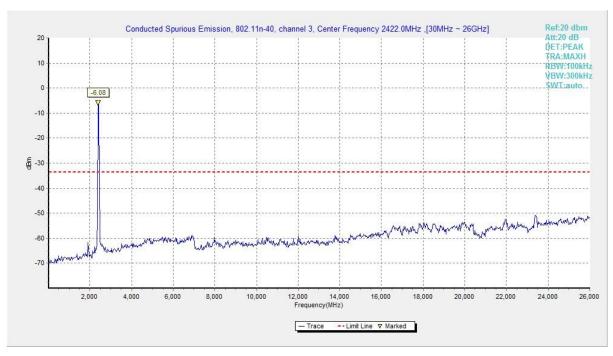


Fig.42 Conducted Spurious Emission (802.11n HT40, CH3)