

FCC REPORT

Applicant: ISTAGE NETWORK SERIVCE CO.,LTD.

Address of Applicant: 5F., NO. 248-17, XINSHENG RD., QIANZHEN DIST.,

KAOHSIUNG CITY 806. TAIWAN

Equipment Under Test (EUT)

Product Name: iStage TV Dongle

Model No.: iTU1898

Additional Model No.: iTU1898US, iTU1898TW, iTU1898EU, iTU1898TH, iTU1898JP

FCC ID: 2AD7JITU1898

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

Date of sample receipt: Jan. 04, 2015

Date of Test: Jan. 05 – Feb. 12, 2015

Date of report issued: Feb. 13, 2015

Test Result: PASS *

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



2 Version

Version No.	Date	Description
00	Feb. 13, 2015	Original

Prepared by: Date: Feb. 13, 2015

Report Clerk

EMC Manager

Reviewed by: Date: Feb. 13, 2015

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4. Test Summary

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

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



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5. General Information

5.1 Client Information

Applicant:	ISTAGE NETWORK SERIVCE CO.,LTD.
Address of Applicant:	5F., NO. 248-17, XINSHENG RD., QIANZHEN DIST., KAOHSIUNG CITY 806. TAIWAN
Manufacturer:	ISTAGE NETWORK SERIVCE CO.,LTD.
Address of Manufacturer:	5F., NO. 248-17, XINSHENG RD., QIANZHEN DIST., KAOHSIUNG CITY 806. TAIWAN

5.2 General Description of E.U.T.

Product Name:	iStage TV Dongle
Model No.:	iTU1898
Additional Model No.:	iTU1898US, iTU1898TW, iTU1898EU, iTU1898TH, iTU1898JP
Trade mark:	🛟 iStage
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11n(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 135Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.2 dBi
AC adapter:	Model: F12W3-050200SPAU Input: AC 100-240V, 50/60Hz Output: DC 5V, 2A
Power supply:	DC 5V from Adapter

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

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

Note:

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

802.11b/802.11g/802.11n (H20)

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

802.11n (H40)

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

5.3 Measurement uncertainty

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

No.	Item	Uncertainty
1	Conducted Emission	±3.28dB
2	RF power,conducted	±0.12dB
3	Spurious emissions,conducted	±0.11dB
4	All emissions,radiated(<1G)	±4.88dB
5	All emissions,radiated(>1G)	±4.88dB
6	Temperature	±0.5°C
7	Humidity	±2%

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5.4 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH	(,c)	(30)	
Atmospheric Pressure:	1010 mbar			
Test mode:	•			
Operation mode	Keep the EU	Keep the EUT in continuous transmitting with modulation		

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

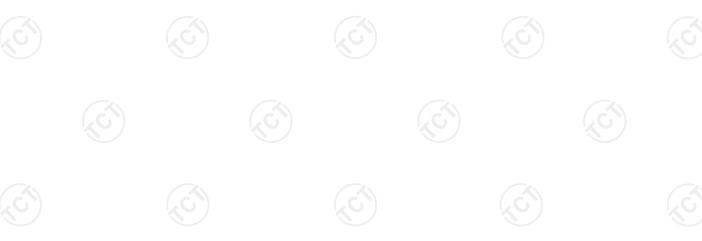
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

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

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

Final Test Mode:

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



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5.5 Laboratory Facility

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

FCC - Registration No.: 572331

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

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

IC - Registration No.: 10668A-1

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

CNAS - Registration No.: CNAS L6165

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

5.6 Laboratory Location

Shenzhen Tongce Testing Lab

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

Tel: 13410377511

Fax: --



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5.7 Test Instruments list

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

Cond	lucted Emission:	(C)		(0)	(¿C))		
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	EMI Test Receiver	R&S	ESCS30	100139	Sep.17, 2014	Sep.16, 2015	
2	LISN-1	AFJ	LS16C	16010947251	Sep.17, 2014	Sep.16, 2015	
3	LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep.17, 2014	Sep.16, 2015	
4	Coax cable	TCT	N/A	164080	Sep.17, 2014	Sep.16, 2015	
5	EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	N/A	

Cond	Conducted method test:											
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)						
1	Spectrum Analyzer	ROHDE&SCHWARZ	FSU3	200054	Sep.17, 2014	Sep.16, 2015						
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 22, 2014	Oct. 23, 2015						
3	X-series USB Peak and Average Power Sensor	Agilent	U2042XA	MY54080020	Jan. 20 2014	Jan. 19, 2015						
4	Power Meter	Agilent	E4416A	MY45101555	Sep.17, 2014	Sep.16, 2015						

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6. Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

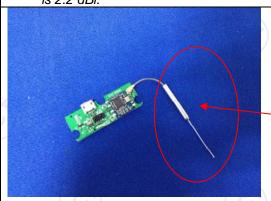
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.2 dBi.



Antenna



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6.2 Conducted Emission

0.2	Conducted Linissi	011		
	Test Requirement:	FCC Part15 C Section 15.207	7	
	Test Method:	ANSI C63.4: 2003		
	Test Frequency Range:	150 kHz to 30 MHz		
	Class / Severity:	Class B		
	Receiver setup:	RBW=9 kHz, VBW=30 kHz		
	Limit:	- 441.	Limit (d	lBuV)
	Littie.	Frequency range (MHz)	Quasi-peak	Average
		0.15-0.5	66 to 56*	56 to 46*
		0.5-5	56	46
		5-30	60	50
		* Decreases with the logarithr1. The E.U.T and simulators		
		line impedance stabilizat 50ohm/50uH coupling im 2. The peripheral devices a a LISN that provides a 50 termination. (Please refe photographs). 3. Both sides of A.C. line ar interference. In order to f positions of equipment a changed according to AN measurement.	re also connected to the Dohm/50uH coupling im r to the block diagram or checked for maximur ind the maximum emissind all of the interface care	aring equipment. The main power through appedance with 500hm of the test setup and a conducted asion, the relative ables must be
	Test setup:	Refere	ence Plane	
		40cm	U.T EMI Receiver	er — AC power
	Test Instruments:	Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m Refer to section 5.7 for details	/	(50)
	Test mode:	Refer to section 5.4 for details		
	Test results:	Passed		

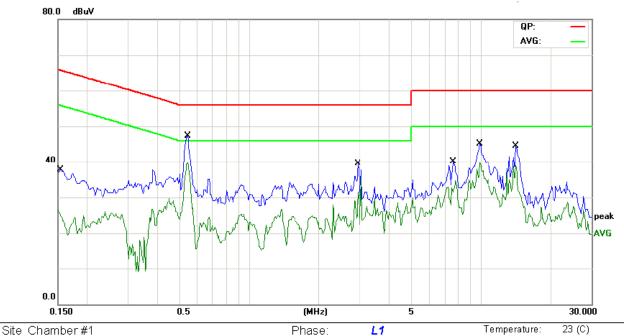
Measurement Data

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



Limit: FCC PART15 Conduction(QP)

Power:

Temperature:

Humidity:

51 %

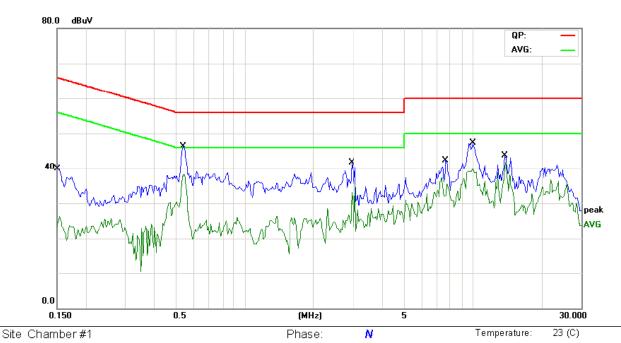
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1539	23.73	11.49	35.22	65.78	-30.56	QР	
2		0.1539	14.62	11.49	26.11	55.78	-29.67	AVG	
3		0.5445	32.28	11.29	43.57	56.00	-12.43	QP	
4	*	0.5445	27.23	11.29	38.52	46.00	-7.48	AVG	
5		2.9547	24.28	11.34	35.62	56.00	-20.38	QP	
6		2.9547	18.13	11.34	29.47	46.00	-16.53	AVG	
7		7.5859	24.01	11.00	35.01	60.00	-24.99	QP	
8		7.5859	15.27	11.00	26.27	50.00	-23.73	AVG	
9		9.9022	27.25	11.32	38.57	60.00	-21.43	QP	
10		9.9022	16.83	11.32	28.15	50.00	-21.85	AVG	
11		14.1836	30.52	11.55	42.07	60.00	-17.93	QP	
12		14 1836	20.65	11.55	32.20	50.00	-17.80	AVG	

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



Limit:	FCC PART15	Conduction(ΩP:	١
LITTIE.	100170110	Conduction	(Se)	1

Power:	Humidity:	51 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∀	dB	Detector	Comment
1		0.1500	21.18	11.52	32.70	65.99	-33.29	QP	
2		0.1500	11.31	11.52	22.83	55.99	-33.16	AVG	
3		0.5406	32.94	11.29	44.23	56.00	-11.77	QP	
4	*	0.5406	27.56	11.29	38.85	46.00	-7.15	AVG	
5		2.9547	27.34	11.35	38.69	56.00	-17.31	QP	
6		2.9547	18.65	11.35	30.00	46.00	-16.00	AVG	
7		7.6445	25.50	11.02	36.52	60.00	-23.48	QP	
8		7.6445	13.93	11.02	24.95	50.00	-25.05	AVG	
9		10.0039	29.61	11.37	40.98	60.00	-19.02	QP	
10		10.0039	17.36	11.37	28.73	50.00	-21.27	AVG	
11		13.8828	27.78	11.57	39.35	60.00	-20.65	QP	
12		13.8828	18.56	11.57	30.13	50.00	-19.87	AVG	

Notes

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

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6.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	Power Meter Attenuator
Test Instruments:	Refer to section 5.7 for details
Test procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report.
Test results:	Passed

Measurement Data

T+ O.L.	Max	kimum Conduct	ed Output Power	(dBm)	Limit/JDms)	Darult
Test CH	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBm)	Result
Lowest	13.02	10.99	11.06	8.15		
Middle	13.49	11.84	11.81	9.62	30.00	Pass
Highest	13.33	10.98	10.78	8.58		

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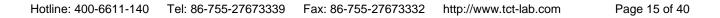
6.4 Emission Bandwidth

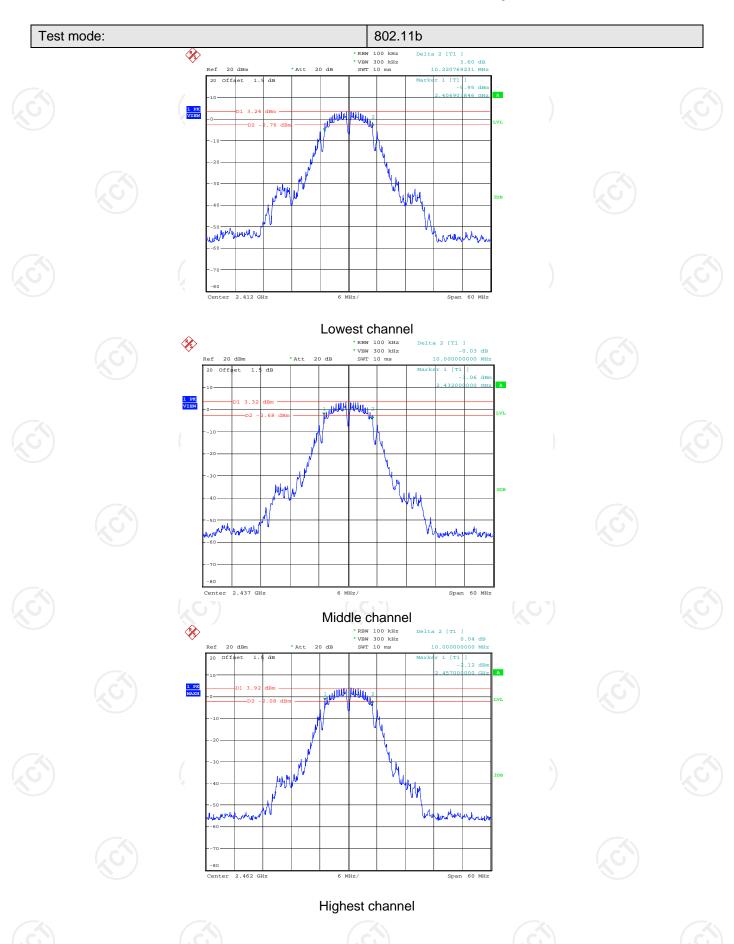
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	>500kHz
Test setup:	Spectrum Analyzer EUT
Test Instruments:	Refer to section 5.7 for details
Test procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test results:	Passed

Measurement Data

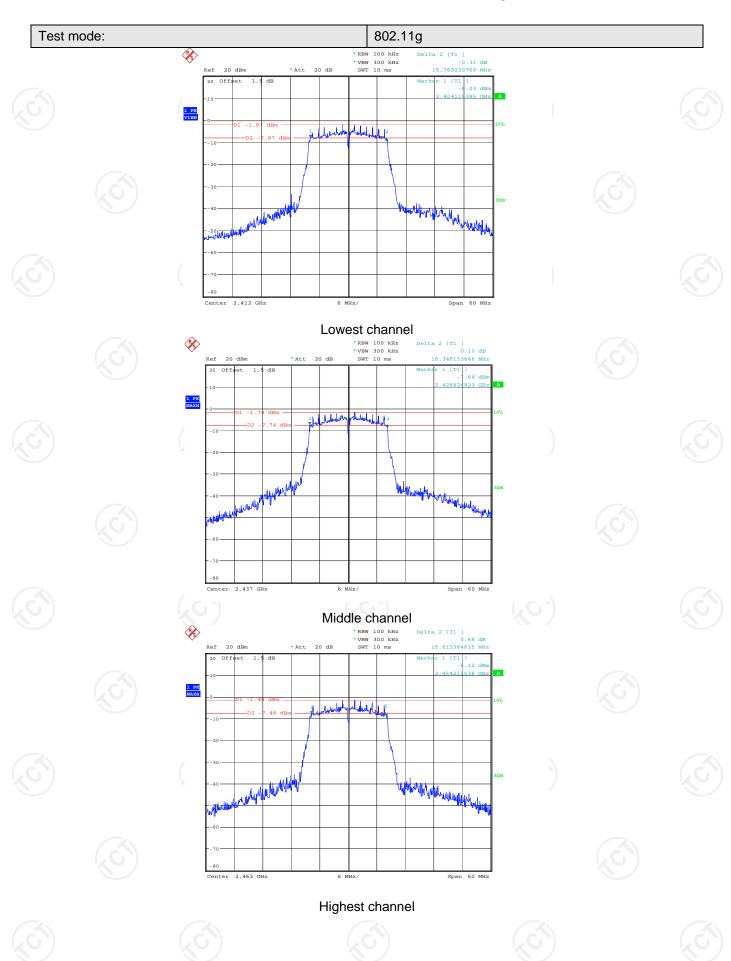
	ioaddiomon Bata										
	-		6dB Emission	Bandwidth (MHz)						
	Test CH	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(kHz)	Result				
	Lowest	10.22	15.77	16.92	35.38						
	Middle	10.00	16.35	17.25	35.38	>500	Pass				
5	Highest	10.00	15.62	16.83	35.38						

Test plot as follows:

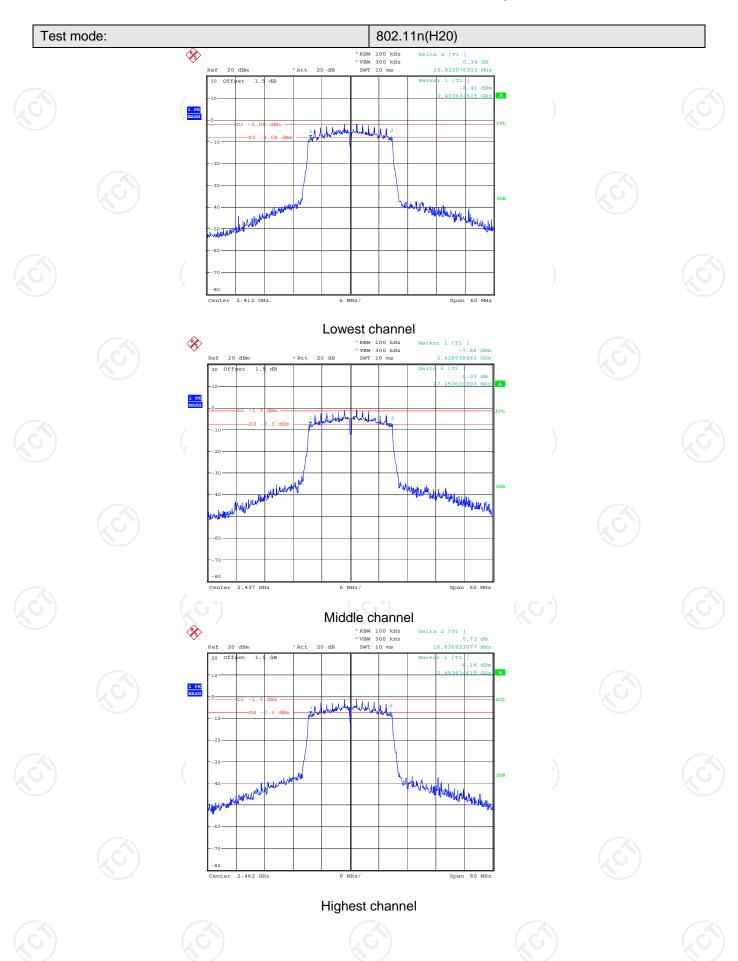




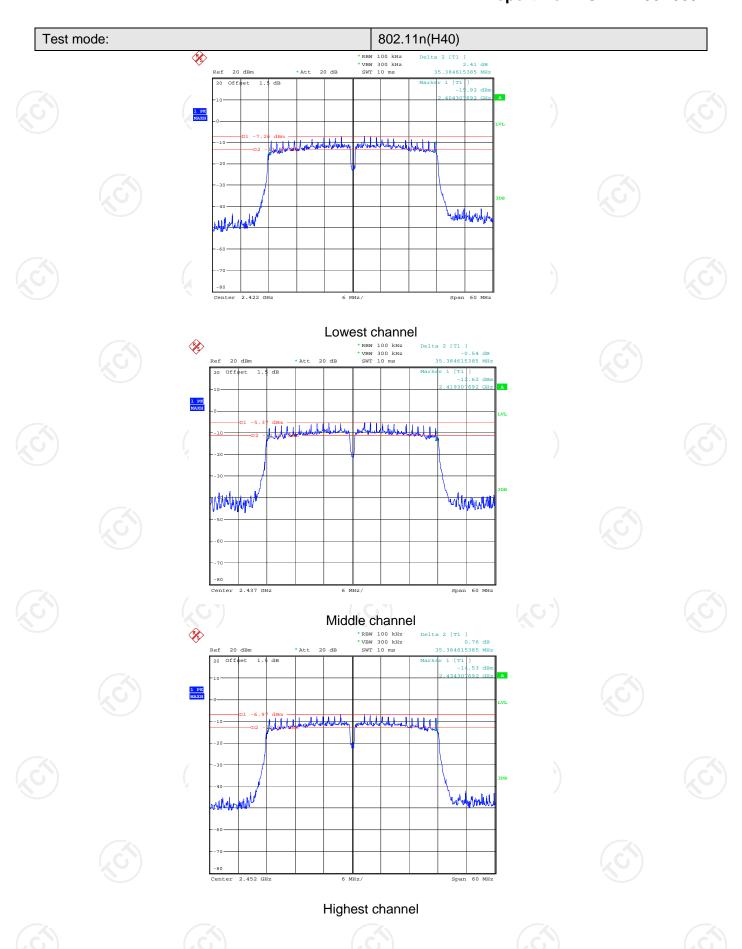
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6.5 Power Spectral Density

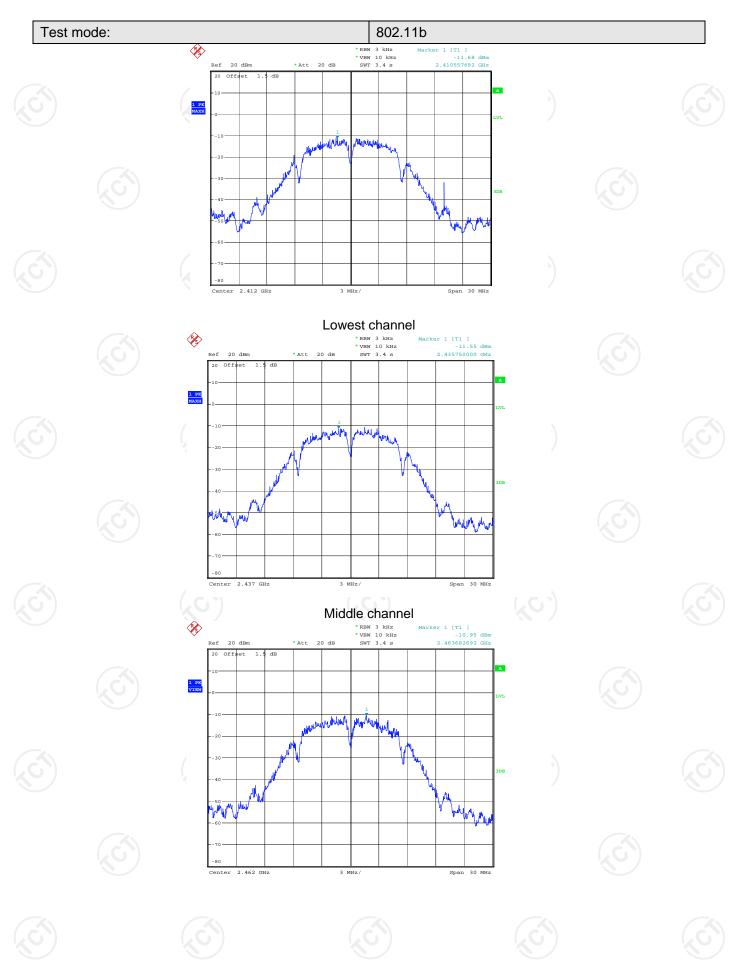
Test setup: Spectrum Analyzer Test Instruments: Refer to section 5.7 for details 1. The testing follows Measurement Procedure 10.2 FCC KDB Publication No.558074 D01 DTS Meas 2. The RF output of EUT was connected to the spec cable and attenuator. The path loss was compense each measurement. 3. Set to the maximum power setting and enable the continuously. 4. Make the measurement with the spectrum analyz bandwidth (RBW) = 3 kHz. Video bandwidth VBW make an accurate measurement, set the span to Channel Bandwidth. (6dB BW) 5. Detector = peak, Sweep time = auto couple, Trac Allow trace to fully stabilize. Use the peak marker		
Test setup: Spectrum Analyzer Test Instruments: Refer to section 5.7 for details Test mode: 1. The testing follows Measurement Procedure 10.2 FCC KDB Publication No.558074 D01 DTS Meas 2. The RF output of EUT was connected to the spec cable and attenuator. The path loss was compense each measurement. 3. Set to the maximum power setting and enable the continuously. 4. Make the measurement with the spectrum analyze bandwidth (RBW) = 3 kHz. Video bandwidth VBW make an accurate measurement, set the span to Channel Bandwidth. (6dB BW) 5. Detector = peak, Sweep time = auto couple, Trace Allow trace to fully stabilize. Use the peak marker	Test Requirement: FCC F	art15 C Section 15.247 (e)
Test setup: Spectrum Analyzer Test Instruments: Refer to section 5.7 for details 1. The testing follows Measurement Procedure 10.2 FCC KDB Publication No.558074 D01 DTS Meas 2. The RF output of EUT was connected to the spec cable and attenuator. The path loss was compense each measurement. 3. Set to the maximum power setting and enable the continuously. 4. Make the measurement with the spectrum analyz bandwidth (RBW) = 3 kHz. Video bandwidth VBW make an accurate measurement, set the span to Channel Bandwidth. (6dB BW) 5. Detector = peak, Sweep time = auto couple, Trac Allow trace to fully stabilize. Use the peak marker	Test Method: ANSI	C63.4:2003 and KDB558074
Test Instruments: Refer to section 5.7 for details Test mode: 1. The testing follows Measurement Procedure 10.2 FCC KDB Publication No.558074 D01 DTS Meas 2. The RF output of EUT was connected to the spec cable and attenuator. The path loss was compense each measurement. 3. Set to the maximum power setting and enable the continuously. 4. Make the measurement with the spectrum analyz bandwidth (RBW) = 3 kHz. Video bandwidth VBW make an accurate measurement, set the span to Channel Bandwidth. (6dB BW) 5. Detector = peak, Sweep time = auto couple, Traca Allow trace to fully stabilize. Use the peak marker		eak power spectral density shall not be greater than 8dBm in any and at any time interval of continuous transmission.
Test mode: 1. The testing follows Measurement Procedure 10.2 FCC KDB Publication No.558074 D01 DTS Meas 2. The RF output of EUT was connected to the spectable and attenuator. The path loss was compense each measurement. 3. Set to the maximum power setting and enable the continuously. 4. Make the measurement with the spectrum analyz bandwidth (RBW) = 3 kHz. Video bandwidth VBW make an accurate measurement, set the span to Channel Bandwidth. (6dB BW) 5. Detector = peak, Sweep time = auto couple, Trac Allow trace to fully stabilize. Use the peak marker		EUT.
FCC KDB Publication No.558074 D01 DTS Meas 2. The RF output of EUT was connected to the spectable and attenuator. The path loss was compense each measurement. 3. Set to the maximum power setting and enable the continuously. 4. Make the measurement with the spectrum analyz bandwidth (RBW) = 3 kHz. Video bandwidth VBW make an accurate measurement, set the span to Channel Bandwidth. (6dB BW) 5. Detector = peak, Sweep time = auto couple, Trac Allow trace to fully stabilize. Use the peak marker	Test Instruments: Refer	o section 5.7 for details
6. Measure and record the results in the test report.	FCC 2. The cabl eacl 3. Set conf 4. Mak bane mak Cha 5. Dete Allor the	to the maximum power setting and enable the EUT transmit nuously. The the measurement with the spectrum analyzer's resolution alwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to the an accurate measurement, set the span to 1.5 times DTS annel Bandwidth. (6dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW) The test of the span to 1.5 times DTS and Bandwidth. (5dB BW)
Test results: Passed	Test results: Passe	

Measurement Data

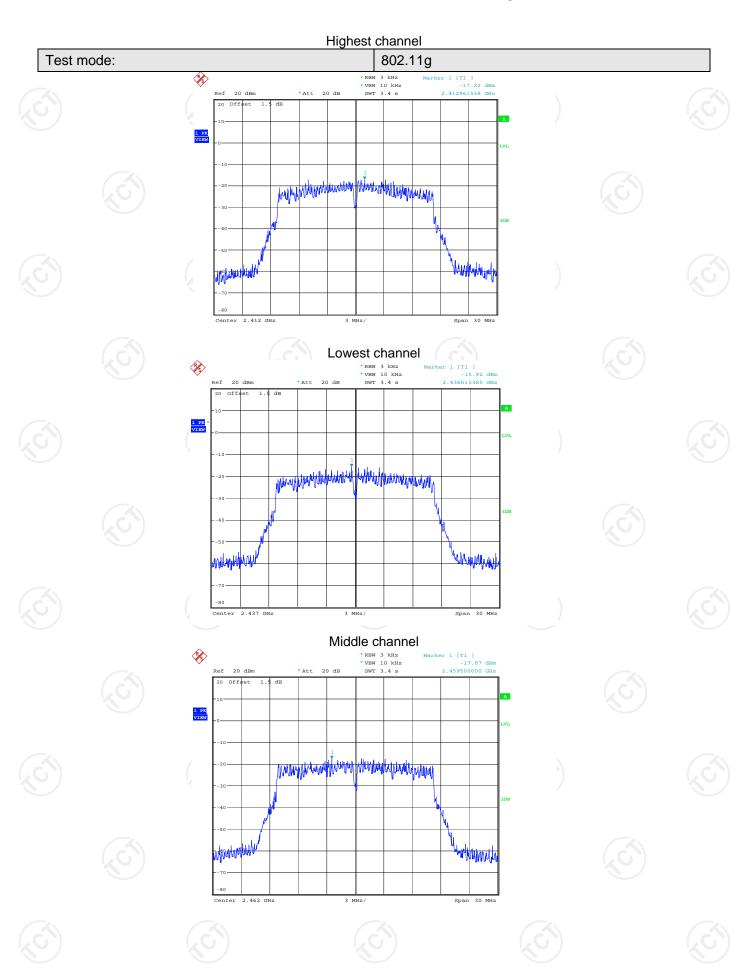
T O		Power Spec	tral Density (dBn	n)		D "
Test CH	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBm)	Result
Lowest	-11.68	-17.22	-17.66	-21.18		
Middle	-11.55	-15.92	-16.28	-21.02	8.00	Pass
Highest	-10.95	-17.67	-16.96	-22.12	, v	

Test plot as follows:

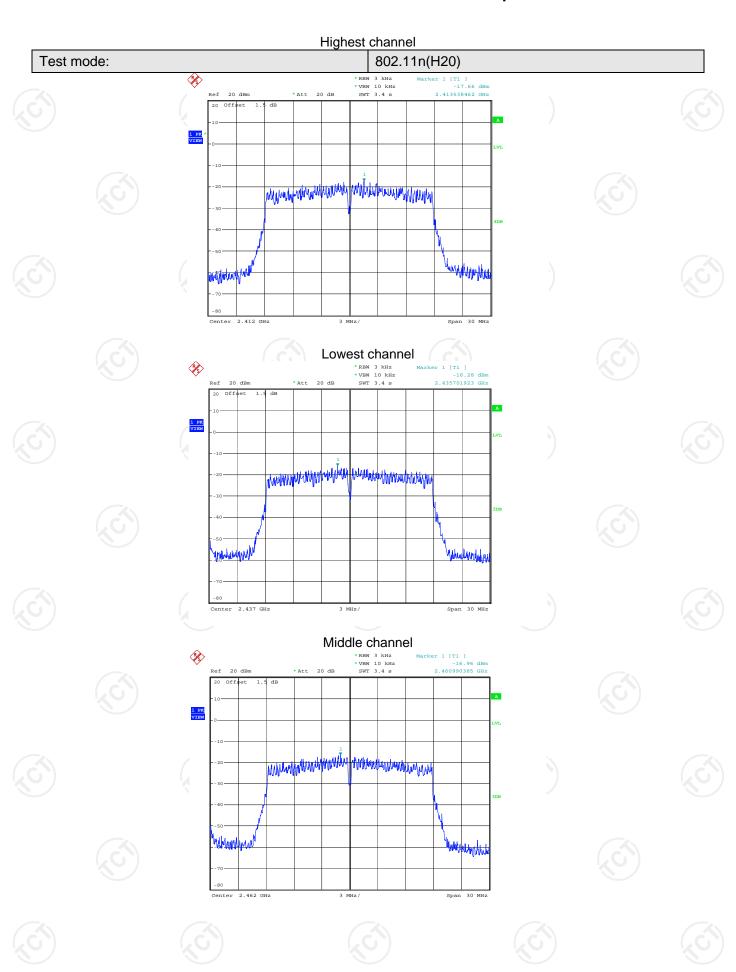
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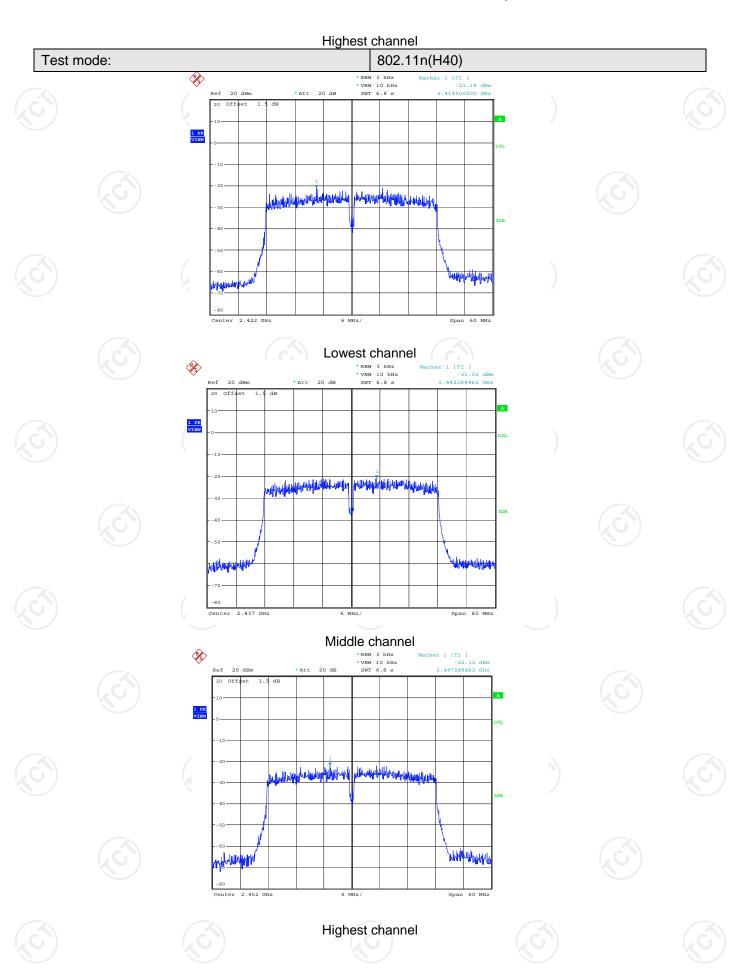
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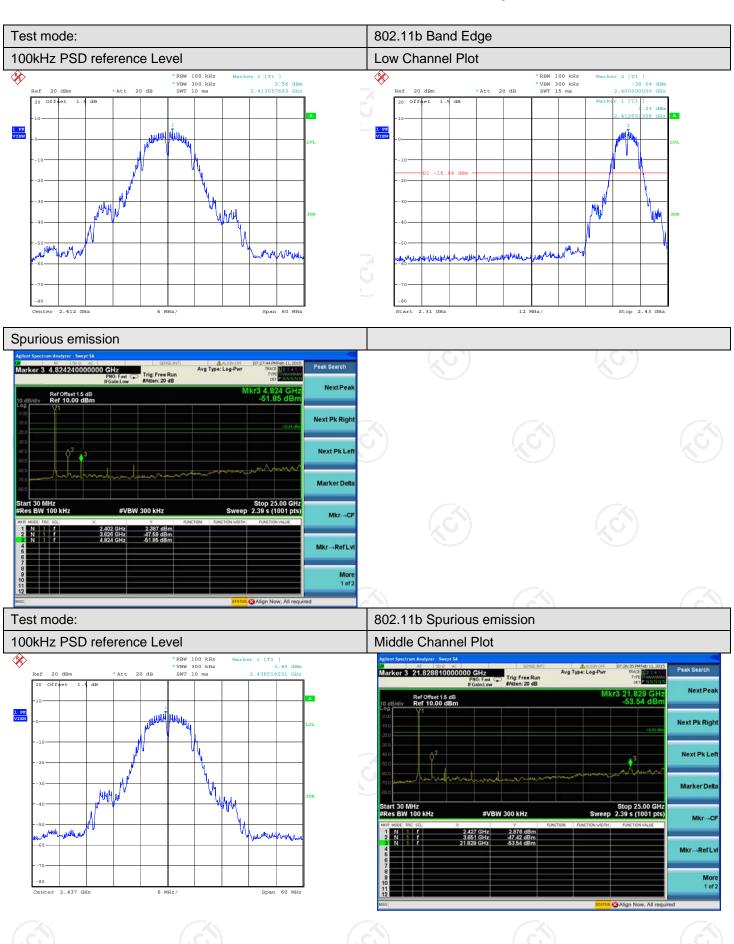


6.6 Conducted Band Edges and Spurious Emission Measurement

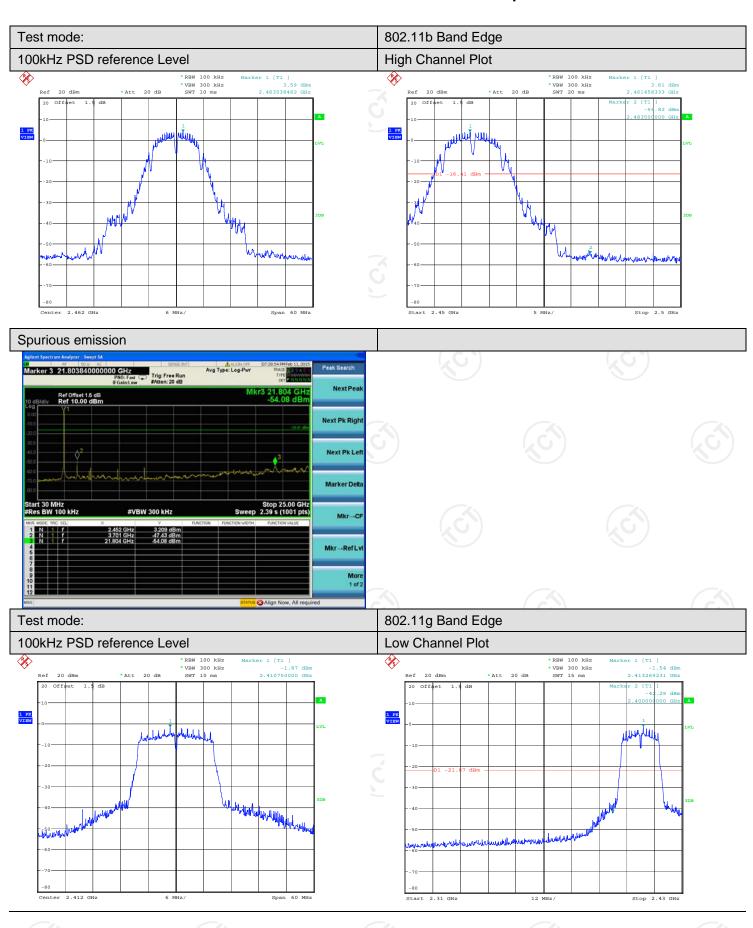
T (D :	1500 D 145 0 O 15 15 047 (1)
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test setup:	Spectrum Analyzer EUT
Test Instruments:	Refer to section 5.7 for details
Test procedure:	 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test results:	Passed

Test plot as follows:

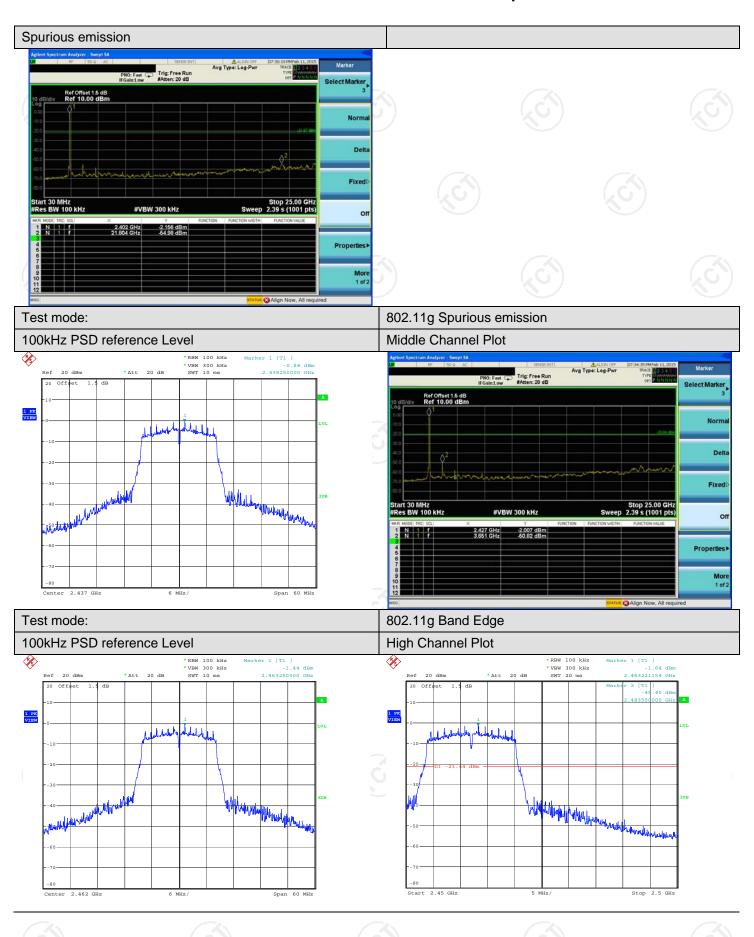
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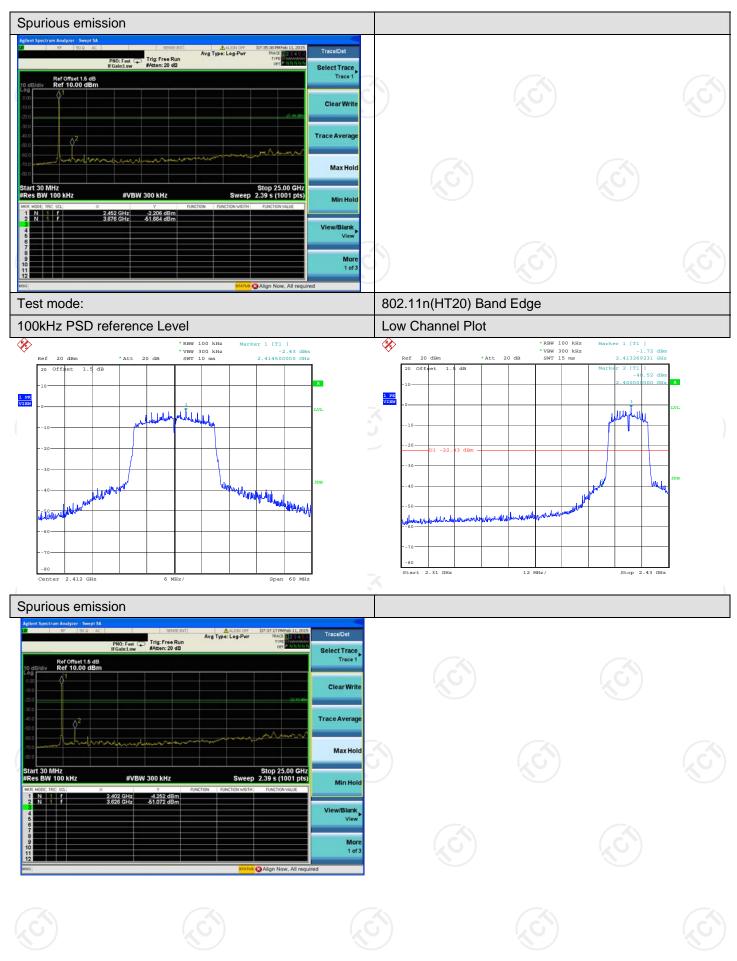
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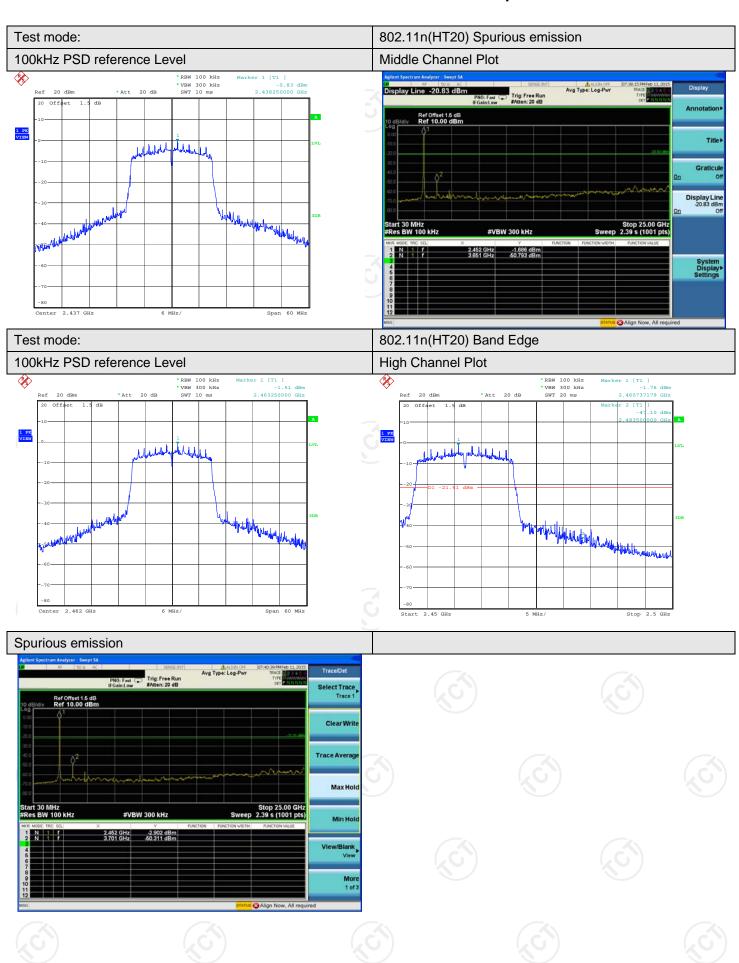
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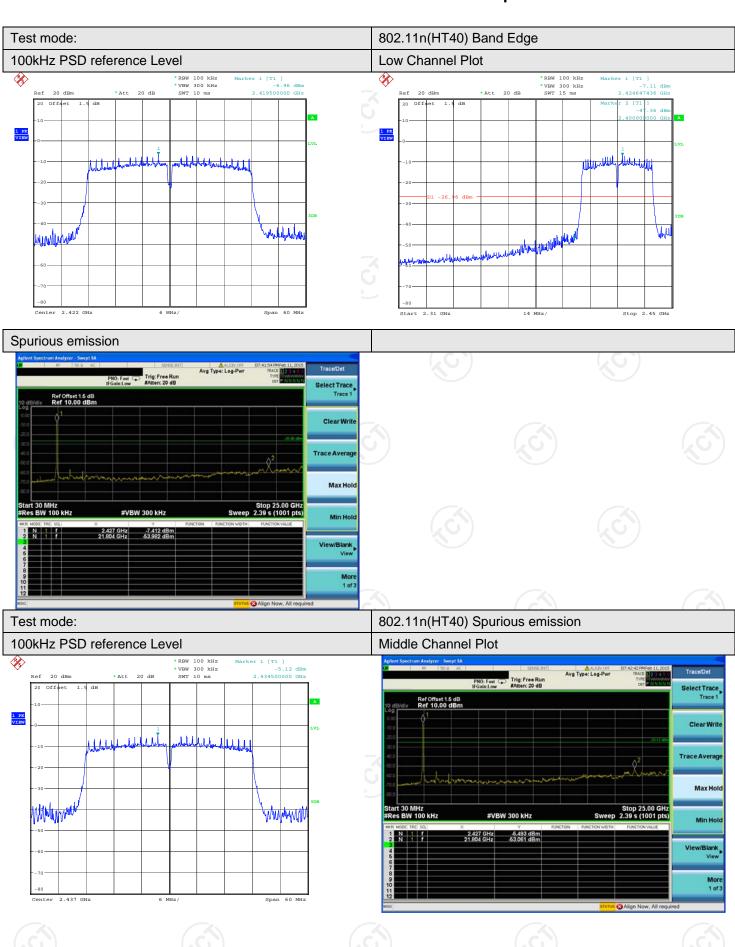


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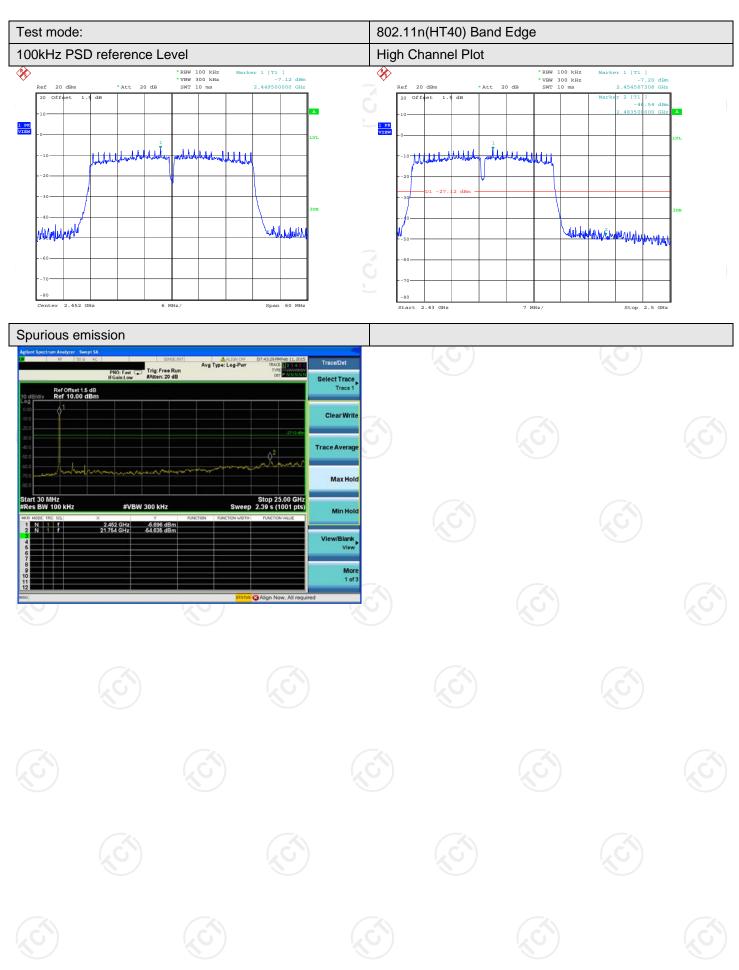
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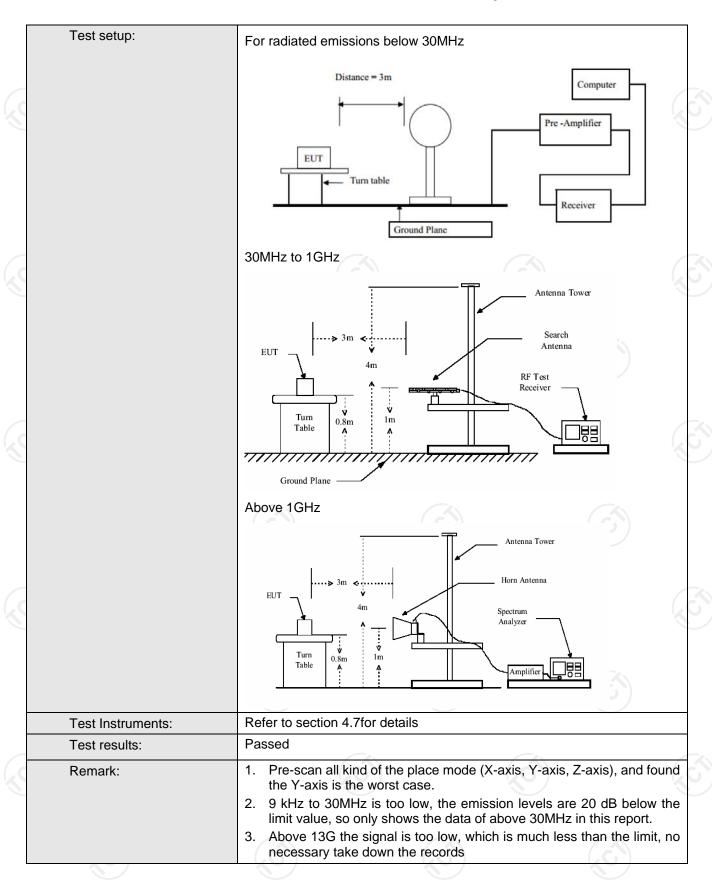


6.7 Radiated Band Edges and Spurious Emission Measurement

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205		
Test Method:	ANSI C63.4:200	03			
Test Frequency Range:	9KHz to 25GHz			(.c.)	
Test site:	Measurement D	istance: 3m			· ·
Receiver setup:					
rtocontol cotap.	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Above IGHZ	Peak	1MHz	10Hz	Average Value
Limit:					T
	Freque	ncy	Limit (dBuV	/m @3m)	Remark
	30MHz-8	BMHz	40.	0	Quasi-peak Value
	88MHz-21	6MHz	43.	5 (0)	Quasi-peak Value
	216MHz-9		46.	0	Quasi-peak Value
	960MHz-	1GHz	54.	0	Quasi-peak Value
	Above 1	GH ₇	54.	0	Average Value
			74.		Peak Value 74 D01 DTS Meas.
	which was mo 5. Corrected Re Preamp Facto 6. For measurer measured by the peak emis measurement reported. 7. Use the follow (1) Span shal measured (2) Set RBW=	ounted on the to ading: Antenna or = Level ment below 1Gl the peak detect sion level will be will be repeated ving spectrum at wide enough to section = peak;	op of a variation Factor + Control Hz, If the ertor is 3 dB I be reported analyzer set of fully captor 1 GHz; VB. Trace = ma	able height a sable Loss + mission lever than the Otherwise, a quasi-peak tings: the emision with the emission with the em	Read Level - el of the EUT ne applicable limit, the emission detector and ession being Sweep = auto;
	measurem For average me • VBW = 10 I • VBW ≥ 1/ minimum tran	asurement: Hz, when duty o T, when duty o smission durati	cycle is no l ycle is less on over wh	ess than 98 than 98 per ich the trans	percent. cent where T is the smitter is on and is he tested mode of

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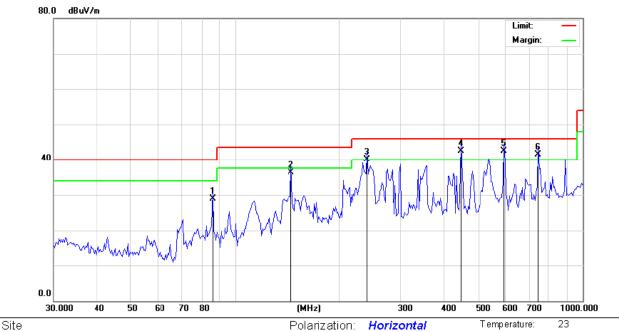
Limit: FCC Part 15B Class B RE_3 m

Report No.: TCT141230E003

Humidity:

Below 1GHz

Horizontal:



No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∀	dB	dBuV/m	dBu√/m	dB	Detector	cm	degree	Comment
1	86.0795	43.22	-14.31	28.91	40.00	-11.09	QΡ		0	
2	144.7898	51.59	-15.28	36.31	43.50	-7.19	QΡ		0	
3 !	240.1442	50.38	-10.31	40.07	46.00	-5.93	QP		0	
4 !	445.6931	47.22	-4.72	42.50	46.00	-3.50	QΡ		0	
5 *	594.5143	44.52	-2.00	42.52	46.00	-3.48	QΡ		0	
6 !	744.4265	40.72	0.72	41.44	46.00	-4.56	QР		0	

Power:



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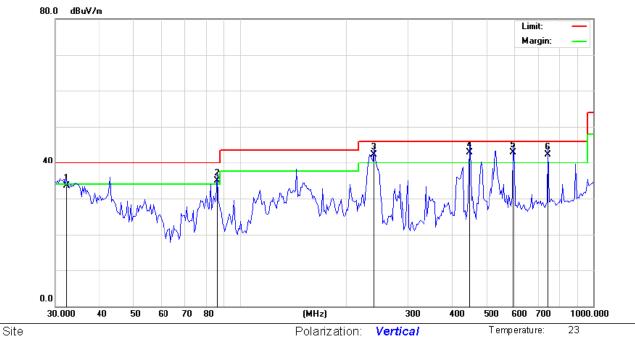
Vertical:

5

6

594.5143

744.4265



Limit: FCC Part 15B Class B RE_3 m

44.84

41.55

-2.00

0.72

42.84

42.27

Power: Vertical 19

Humidity: 52 %

0

Reading Correct Measure-Antenna Table Limit Over No. Mk. Freq. Level Factor ment Height Degree MHz dBu∀ dBu√/m dΒ dBuV/m dΒ Detector degree Comment 1 32.1840 47.02 -13.44 33.58 40.00 -6.42 QΡ 0 2 86.0795 49.22 40.00 -5.09 QΡ -14.31 34.91 0 42.28 -3.72 3 240.1442 52.59 -10.31 46.00 QΡ 0 47.68 42.96 -3.04 QΡ 0 445.6931 -4.72 46.00

46.00

46.00

Note: Measurements were conducted in all three channels (high, middle, low), and the worst case (11b Middle channel) was submitted only.

-3.16

-3.73

QΡ

QΡ



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Above 1GHz

Freq.	Ant. Pol.	Peak	AV	Correctio	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBuV)	reading (dBuV)	n Factor (dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
2387.50	Н	69.71		-4.20	65.51		74.00	54.00	-8.49
2387. 50	Н		49.73	-4.20		45.53	74.00	54.00	-8.47
4824.00	Н	47.49		-3.94	43.55		74.00	54.00	-10.45
7236.00	Н	44.41		0.52	44.93		74.00	54.00	-9.07
	7-7-			\	/	-1-		<i></i>	
	XO)		Ϋ́O,)		(0)		KO)	
2387.50	V	67.64		-4.20	63.44		74.00	54.00	-10.56
2387.50	V		51.12	-4.20		46.92	74.00	54.00	-7.08
4824.00	V	47.78		-3.94	43.84		74.00	54.00	-10.16
7236.00	V	44.92		0.52	45.44		74.00	54.00	-8.56
))				//)				(2

Freq.	Ant. Pol.	Peak	AV	Correctio	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading	reading	n Factor	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
		(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)			
4874.00	Н	48.17		-3.98	44.19		74.00	54.00	-9.81
7311.00	Н	45.61		0.57	46.18		74.00	54.00	-7.82
4874.00	V	49.07		-3.98	45.09		74.00	54.00	-8.91
7311.00	V	47.55		0.57	48.12		74.00	54.00	-5.88

Freq.	Ant. Pol.	Peak	AV	Correcti	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBuV)	reading (dBuV)	on Factor (dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
2486.58	Н	66.98		-2.38	64.60		74.00	54.00	-9.40
2486.58	Н		48.61	-2.38	9)	46.23	74.00	54.00	-7.77
4924.00	Н	50.12		-3.98	46.14		74.00	54.00	-7.86
7386.00	Н	46.34		0.57	46.91		74.00	54.00	-7.09
/									
2483.51	V	68.44) Y	-2.38	66.06	1	74.00	54.00	-7.94
2483.51	٧		49.1	-2.38		46.72	74.00	54.00	-7.28
4924.00	V	50.09		-3.98	46.11		74.00	54.00	-7.89
7386.00	V	45.32		0.57	45.89		74.00	54.00	-8.11
				(/

Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

- 2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.
- 3) Average test would be performed if the peak readings were greater than the average limit.
- 4) Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

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Freq.	Ant. Pol.	Peak	AV	Correction	Emissi	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBuV)	reading (dBuV)	Factor (dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
2389.98	Н	70.02		-4.20	65.82		74.00	54.00	-8.18
2389.98	Н		51.38	-4.20	/	47.18	74.00	54.00	-6.82
4824.00	Н	50.03		-3.94	46.09		74.00	54.00	-7.91
7236.00	Н	45.58		0.52	46.1		74.00	54.00	-7.9
			- 			X		7	
	~(C,)		(,0))	((O.)		(, (), ()	
2389.98	V	69.25	-11	-4.20	65.05	<u></u>	74.00	54.00	-8.95
2389.98	V		49.51	-4.20		45.31	74.00	54.00	-8.69
4824.00	V	50.67		-3.94	46.73		74.00	54.00	-7.27
7236.00	V	44.43		0.52	44.95		74.00	54.00	-9.05
		(.6-)		(.C			(.e		(

IEEE 802.	11g mode:	Middle cha	annel: 2437	7 MHz					
Freq.	Ant. Pol.	Peak	AV	Correction	Emission	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
		(dBuV)	(dBuV)	(dB)	(dBuV/m	(dBuV/m)		KO /	
)				
4874.00	Н	49.86		-3.98	45.88		74.00	54.00	-8.12
7311.00	Η	44.39		0.57	44.96		74.00	54.00	-9.04
<u> </u>					<				/
57)		(,G)		(,C			(,C))		(,(
4874.00	V	50.95		-3.98	46.97		74.00	54.00	-7.03
7311.00	V	47.35		0.57	47.92		74.00	54.00	-6.08

Freq.	Ant. Pol.	Peak	AV	Correction	Emissic	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBuV)	reading (dBuV)	Factor (dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
2488.34	Н	67.89		-2.38	65.51		74.00	54.00	-8.49
2488.34	Н	(C)	49.63	-2.38)	47.25	74.00	54.00	-6.75
4924.00	Н	50.21		-3.98	46.23		74.00	54.00	-7.77
7386.00	Н	44.67		0.57	45.24		74.00	54.00	-8.76
						-			
2488.34	V	69.29	-40	-2.38	66.91	<i>-</i>	74.00	54.00	-7.09
2488.34	V		50.64	-2.38		48.26	74.00	54.00	-5.74
4924.00	V	50.55		-3.98	46.57		74.00	54.00	-7.43
7386.00	V	45.16		0.57	45.73		74.00	54.00	-8.27
		(,-6,)		(, (<u> </u>		(, C ₄)		(,

Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

- 2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.
- 3) Average test would be performed if the peak readings were greater than the average limit.
- 4) Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

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Freq.	Ant. Pol.	Peak	AV	Correction	Emission	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBuV)	reading (dBuV)	Factor (dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
2388.01	Н	70.46		-4.20	66.26		74.00	54.00	-7.74
2388.01	Н		50.17	-4.20	/	45.97	74.00	54.00	-8.03
4824.00	Н	48.73		-3.94	44.79		74.00	54.00	-9.21
7236.00	Н	46.07		0.52	46.59		74.00	54.00	-7.41
	\		-7- K			X		7- 1	
	2G')		(,0))		(O)		(, (), ()	
2388.01	V	69.85	-33	-4.20	65.65		74.00	54.00	-8.35
2388.01	V		50.18	-4.20		45.98	74.00	54.00	-8.02
4824.00	V	49.42		-3.94	45.48		74.00	54.00	-8.52
7236.00	V	45.34		0.52	45.86		74.00	54.00	-8.14
		(.6.)		(.C			((

Freq.	Ant. Pol.	Peak	AV	Correctio	Emission Level		Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBuV)	reading (dBuV)	n Factor (dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
4874.00	H	49.86		-3.98	45.88	<u></u>	74.00	54.00	-8.12
7311.00	Н	45.62		0.57	46.19		74.00	54.00	-7.81
X 1					A 1				
4874.00	V	50.33		-3.98	46.35		74.00	54.00	-7.65
7311.00	V	45.62		0.57	46.19		74.00	54.00	-7.81

IEEE 802.	11n(HT20)	mode: Hig	h channel:	2462 MHz					
Freq.	Ant. Pol.	Peak	AV	Correctio	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading	reading	n Factor	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
		(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)			
2493.51	Н	68.59		-2.38	66.21		74.00	54.00	-7.79
2493.51	Н		49.63	-2.38		47.25	74.00	54.00	-6.75
4924.00	Н	50.65		-3.98	46.67		74.00	54.00	-7.33
7386.00	Н	46.12		0.57	46.69		74.00	54.00	-7.31
2493.51	V	69.00	-7-	-2.38	66.62		74.00	54.00	-7.38
2493.51	CV		49.45	-2.38		47.07	74.00	54.00	-6.93
4924.00	V	50.42		-3.98	46.44		74.00	54.00	-7.56
7386.00	V	45.80		0.57	46.37		74.00	54.00	-7.63

Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

- Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.
- 3) Average test would be performed if the peak readings were greater than the average limit.
- 4) Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

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Freq.	Ant. Pol.	Peak	AV	Correctio	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading	reading	n Factor	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
		(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(CG)		
2389.98	Н	69.17		-4.20	64.97		74.00	54.00	-9.03
2389.98	Н		50.21	-4.20		46.01	74.00	54.00	-7.99
4844.00	Н	50.06		-3.94	46.12		74.00	54.00	-7.88
7266.00	Н	45.37		0.52	45.89		74.00	54.00	-8.11
			f c)		(
				/	· ·				
2389.98	V	70.57		-4.20	66.37		74.00	54.00	-7.63
2389.98	V		51.1	-4.20		46.9	74.00	54.00	-7.10
4844.00	V	50.34		-3.94	46.40		74.00	54.00	-7.60
7266.00	V	45.65		0.52	46.17		74.00	54.00	-7.83
<i>;</i>		(<u>L.</u>		'X') <u></u>		<u> </u>		/

IEEE 802.	11n(HT40)	mode: Mid	dle channe	el: 2437 MH	z				
Freq.	Ant. Pol.	Peak	AV	Correction	Emission Level		Peak limit	AV limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
		(dBuV)	(dBuV)	(dB)	(dBuV/m	(dBuV/m)			
					`)				
4874.00	Н	50.29		-3.98	46.31		74.00	54.00	-7.69
7311.00	Н	45.97		0.57	46.54		74.00	54.00	-7.46
					()				
(C		(201)		1,0) [*])		(201)		
4874.00	V	49.09		-3.98	45.11		74.00	54.00	-8.89
7311.00	V	44.01		0.57	44.58		74.00	54.00	-9.42

Freq.	11n(H40) n Ant. Pol.	Peak	AV	Correctio	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBuV)	reading (dBuV)	n Factor (dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
2493.51	Н	68.93		-2.38	66.55		74.00	54.00	-7.45
2493.51	Н	(.6)	48.39	-2.38		46.01	74.00	54.00	-7.99
4904.00	Н	50.22		-3.98	46.24		74.00	54.00	-7.76
7356.00	Н	45.19		0.57	45.76		74.00	54.00	-8.24
			7.						
2493.51	V	68.66	4-0	-2.38	66.28	2-1-	74.00	54.00	-7.72
2493.51	V		47.09	-2.38		44.71	74.00	54.00	-9.29
4904.00	V	49.92		-3.98	45.94		74.00	54.00	-8.06
7356.00	V	44.68		0.57	45.25		74.00	54.00	-8.75

Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

- 2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.
- 3) Average test would be performed if the peak readings were greater than the average limit.
- 4) Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

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

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