



Page 1 of 83

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO **FCC PART 15 SUBPART C REQUIREMENT**

OF

Product Name: DOBBY

Brand Name: ZEROTECH

Model No.: **DB16-100B**

Model Difference: N/A

FCC ID: 2AHCT-DB16-100B

Report No.: E2/2016/50112

Issue Date: Jul. 08, 2016

FCC Rule Part: §15.247, Cat: DTS

ZEROTECH (Beijing) Intelligence Technology

Co., Ltd.

Prepared for: Floor 2-203, Building No. 9, Zhongguancun

Software Park, Haidian District, Beijing, China

SGS Taiwan Ltd.

Electronics & Communication Laboratory Prepared by:

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VERIFICATION OF COMPLIANCE

Applicant: ZEROTECH (Beijing) Intelligence Technology Co., Ltd.

Floor 2-203, Building No. 9, Zhongguancun Software Park,

Haidian District, Beijing, China

Product Name: DOBBY

Brand Name: ZEROTECH

Model No.: **DB16-100B**

Model Difference: N/A

FCC ID: 2AHCT-DB16-100B

File Number: E2/2016/50112

Date of Test: May. 30, 2016 ~ Jul. 01, 2016

Date of EUT Received: May. 30, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Jerry	Lu	Date:	Jul. 08, 2016
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Prepared By:	Allen 7	[sai	Date:	Jul. 08, 2016
-	Allen Tsai / Er	ngineer		
Approved By:	Jim C	h ang	Date:	Jul. 08, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/50112	Rev.00	Initial creation of document	Jul. 08, 2016

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GENERAL INFORMATION

1.1 Product description

General:

eneral.				
Product Name:	DOBBY			
Brand Name:	ZEROTE	СН		
Model No.:	DB16-100	OB .		
Model Difference:	N/A			
Product SW version:	N/A			
Radio HW version:	N/A			
DOBBY CHARGER	Model No.: DBC15Q Supplier: ZEROTECH			
7.6VDC from Rechargeable Battery and 5VDC, 9VDC, 12VDC from adapter.				
Power Supply:	Battery:	Model No.: D150 Supplier: Sunwoda Electronic Co.,Ltd.		
	Adapter:	Model No.: DBS15Q Supplier: SHENZHEN DISHENGHUI ELECTRONICS CO.,LTD		

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power / (EIRP)	Type of Emission	Modulation Technology	
11b/g	2412-2462	11	b: 18.44dBm g: 23.48dBm	b: 10M1G1D g:16M4D1D	DSSS, OFDM	
11n	HT 20 2412-2462	11	HT20:24.82dBm (MIMO Chain 0+1)	HT20:17M7D1D	OFDM	
Antenna Designation		Supplier Antenna	UAV Antenna Partl No.: 146153, Supplier: BEIJING VLG WIRELESS TECHNOLOGY CO.,LTD Antenna (Main) 2.4GHz Gain: 3 dBi Antenna (Aux1) 2.4GHz Gain: 2.24 dBi			
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM				
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n 20MHz: 6.5 – 144.4Mbps				

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting below features.

Product Feature					
Wi-Fi Specification	802.11a/b/g/n/ac				

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas, Guidance

FCC KDB 662911 D01 Multiple Transmitter Output

ANSI C63.10:2013

Note:

- All test items have been performed and record as per the above standards.
- The composite system is compliance with FCC Subpart B is authorized under a 2. DoC procedure.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

(TAF code 0513)

FCC Registration Numbers are: 735305

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 5.9dB and 10dB attenuator.

Offset:

= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(Nant) dB=13.5(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration



Fig. 2-2 Conducted (Antenna Port) Emission Configuration

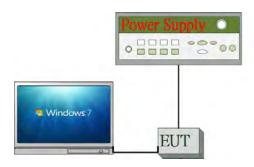


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-YYG88	N/A	Un-shielded
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-shielded

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Member of SGS Group



SUMMARY OF TEST RESULTS

FCC Rules / IC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	N/A
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n, HT20

are previded for eez.1118, eez.1119 and eez.1111_1112e						
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY			
1	2412 MHz	7	2442 MHz			
2	2417 MHz	8	2447 MHz			
3	2422 MHz	9	2452 MHz			
4	2427 MHz	10	2457 MHz			
5	2432 MHz	11	2462 MHz			
6	2437 MHz					

4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

1.0.12.0.1.1.2.2.2.1.1.2.0.1.							
RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11g	1 to 11	1,6,11	OFDM	6	MIMO		

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11b	1 to 11	1, 6, 11	DSSS	1	MIMO		
802.11g	1 to 11	1, 6, 11	OFDM	6	MIMO		
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO		

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST								
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT			
802.11b	1 to 11	1, 6, 11	DSSS	1	MIMO			
802.11g	1 to 11	1, 6, 11	OFDM	6	MIMO			
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO			

Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

Array gain = 3.01dBi (peak spectral density, conducted spurious emission) Gain that is combined with different magnitude of two antennas:

- If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream:
 - Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain; or,

$$Directional Gain = 10 \cdot \log \left[\frac{\sum\limits_{j=1}^{N_{SS}} \left\{ \sum\limits_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

 N_{SS} = the number of independent spatial streams of data;

 N_{ANT} = the total number of antennas

 $g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not; G_k is the gain in dBi of the kth antenna.

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/- 2.586 dB		
Peak Output Power	+/- 0.84 dB		
6dB Bandwidth	+/- 51.33 Hz		
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB		
Peak Power Density	+/- 1.3 dB		
Temperature	+/- 0.65 °C		
Humidity	+/- 4.6 %		
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%		

Radiated Spurious Emission:

	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
Measurement uncertainty	180MHz -417MHz: +/- 3.19dB
(Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Limits dB(uV)		
MHz	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Conducted Emission Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESCI 7	100950	12/08/2015	12/07/2016					
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	02/07/2016	02/06/2017					
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017					
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.					

6.3 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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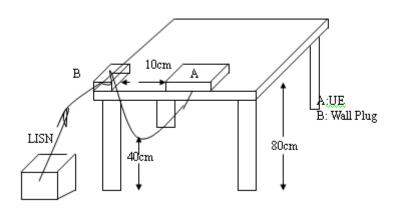
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

N/A, This device is powered by battery.

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DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

- Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	100.00	0.00
802.11g	97.60	0.11
802.11n_20	80.00	0.97

b = 100%, g = 97.6%, $n_ht_20 = 80\%$,

Duty Cycle Factor: $10 * \log(1/1) = 0$

Duty Cycle Factor: $10 * \log(1/0.976) = 0.11$ Duty Cycle Factor: $10 * \log(1/0.8) = 0.97$

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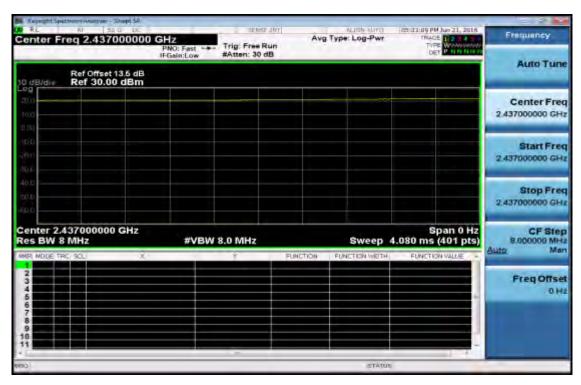
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result 802.11 b



802.11 g



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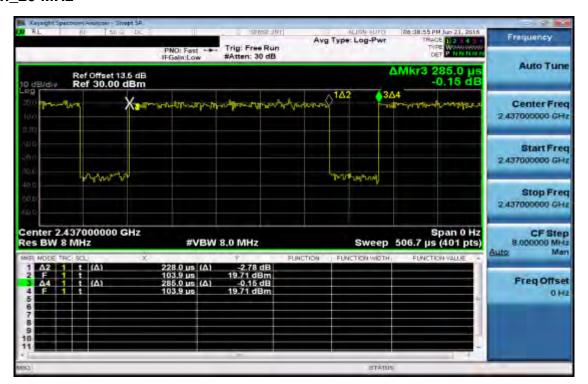
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802.11 n_20 MHz



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PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

3.00 dBi Main Antenna Gain: 2.24 dBi Aux1 Antenna Gain: Number Antenna: 2 pcs

Limit: *30* dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below: Directional gain = gain of antenna element + 10 log (# of TX antenna elements) Effective Legacy Gain (dBi) = 3+3.01=6.01dBi Limit: 30dBm - (6.01-6dBi)=29.99dBm

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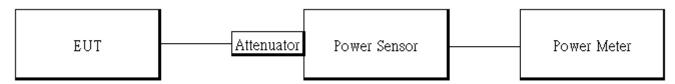


8.2 Measurement Equipment Used

Conducted Emission Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017					
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017					
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017					
Coaxial Cable 30cm	WOKEN	00100A1F1A19 5C	RF01	12/12/2015	12/11/2016					
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016					
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016					
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017					

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

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8.5 Measurement Result

802.1	1b_MIMO								
СН	Frequency (MHz)	Data Rate	Po (dE	Output wer Bm)	Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit		RESULT
1	2412	1	CH 0 15.82	CH 1 15.01	18.44	69.89	1 Watt = 29.99	dBm	PASS
								-	
6	2437	1	15.33	14.25	17.83	60.73	1 Watt = 29.99	dBm	PASS
11	2462	1	15.28	14.30	17.83	60.64	1 Watt = 29.99	dBm	PASS
802.1	1b_MIMO								
СН	Frequency (MHz)	Data Rate	Po	Output wer Bm)	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit		RESULT
			CH 0	CH1					
1	2412	1	13.40	12.49	15.98	39.62	1 Watt = 29.99	dBm	PASS
6	2437	1	13.10	12.01	15.60	36.30	1 Watt = 29.99	dBm	PASS
11	2462	1	12.97	12.10	15.57	36.03	1 Watt = 29.99	dBm	PASS

802.1	1g_MIMO								
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Output Power Power		Limit		RESULT
			CH 0	CH1	(dBm)	(mW)			
1	2412	6	20.67	20.27	23.48	223.10	1 Watt = 29.99	dBm	PASS
6	2437	6	20.52	19.73	23.15	206.69	1 Watt = 29.99	dBm	PASS
11	2462	6	17.57	17.32	20.46	111.10	1 Watt = 29.99	dBm	PASS
802.1	1g_MIMO								
СН	Frequency (MHz)	Data Rate	Po	Output wer Bm)	Max. Output include tune up tolerance Power	Max. Output include tune up tolerance Power	Limit		RESULT
			CH 0	CH1	(dBm)	(mW)			
1	2412	6	11.31	10.56	13.96	24.90	1 Watt = 29.99	dBm	PASS
6	2437	6	11.18	10.09	13.68	23.33	1 Watt = 29.99	dBm	PASS
11	2462	6	7.46	7.02	10.26	10.61	1 Watt = 29.99	dBm	PASS

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802.1	1n_HT20M M	IMO							
СН	Frequency (MHz)	Data Rate	Po	Output wer 3m)	Total Peak Output Power	Total Peak Output Power	Limit		RESULT
			CH 0	CH1	(dBm)	(mW)			
1	2412	MCS8	20.11	20.01	23.07	202.80	1 Watt = 29.99	dBm	PASS
6	2437	MCS8	22.05	21.55	24.82	303.21	1 Watt = 29.99	dBm	PASS
11	2462	MCS8	17.11	16.68	19.91	97.96	1 Watt = 29.99	dBm	PASS
802.1	1n_HT20M M	IMO					•		
СН	Frequency (MHz)	Data Rate	Po	Output wer 3m)	Max. Output include tune up tole rance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit		RESULT
			CH 0	CH1	(dBill)	(11144)			
1	2412	MCS8	10.34	10.17	13.27	21.21	1 Watt = 29.99	dBm	PASS
6	2437	MCS8	13.05	12.03	15.58	36.14	1 Watt = 29.99	dBm	PASS
11	2462	MCS8	7.04	6.60	9.84	9.63	1 Watt = 29.99	dBm	PASS

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^{*} Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.



6DB & 99% BANDWIDTH MEASUREMENT

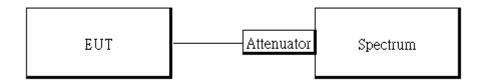
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT MFR MODEL SERIAL LAST									
TYPE		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017				
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016				
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016				

9.3 Test Set-up



9.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guid-
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. For 6dB Bandwidth:
 - Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
- 5. Mark the peak frequency and –6dB (upper and lower) frequency.
- 6. For 99% Bandwidth:
 - Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

802.11b Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	10082	> 500	PASS
2437	10065	> 500	PASS
2462	10110	> 500	PASS

802.11b Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	10098	> 500	PASS
2437	10058	> 500	PASS
2462	10090	> 500	PASS

802.11g Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16350	> 500	PASS
2437	16360	> 500	PASS
2462	16350	> 500	PASS

802.11g Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16380	> 500	PASS
2437	16390	> 500	PASS
2462	16380	> 500	PASS

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	17690	> 500	PASS
2437	17680	> 500	PASS
2462	17690	> 500	PASS

802.11_n_HT20 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	17690	> 500	PASS
2437	17680	> 500	PASS
2462	17690	> 500	PASS

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^{*}Refer to next page for plots



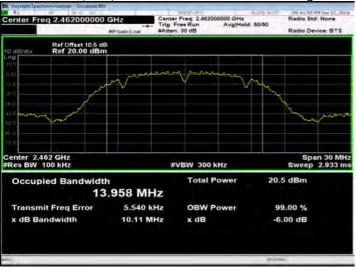
802.11b (Main) 6dB Band Width Test Data CH-Low



802.11b (Main) 6dB Band Width Test Data CH-Mid



802.11b (Main) 6dB Band Width Test Data CH-High



802.11b (AUX1) 6dB Band Width Test Data CH-Low



802.11b (AUX1) 6dB Band Width Test Data CH-Mid



802.11b (AUX1) 6dB Band Width Test Data CH-High



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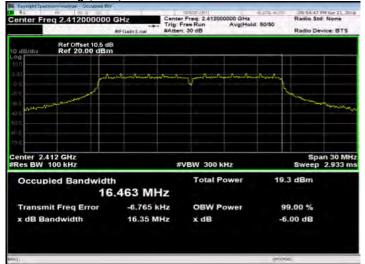
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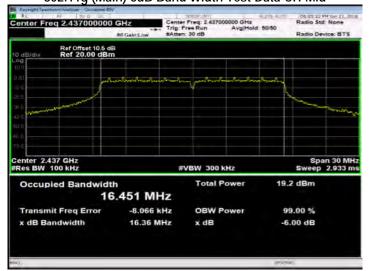
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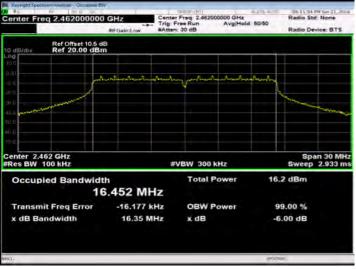
802.11g (Main) 6dB Band Width Test Data CH-Low



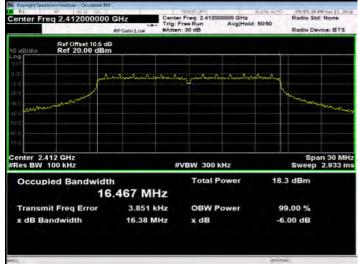
802.11g (Main) 6dB Band Width Test Data CH-Mid



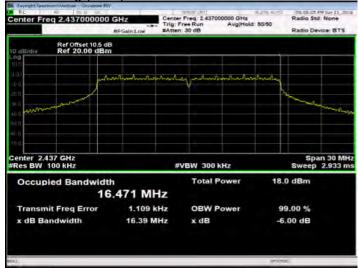
802.11g (Main) 6dB Band Width Test Data CH-High



802.11g (AUX1) 6dB Band Width Test Data CH-Low



802.11g (AUX1) 6dB Band Width Test Data CH-Mid



802.11g (AUX1) 6dB Band Width Test Data CH-High



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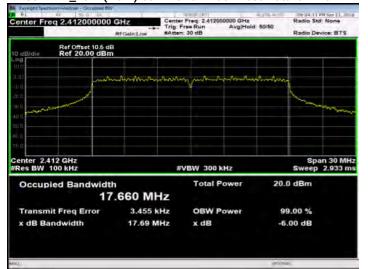
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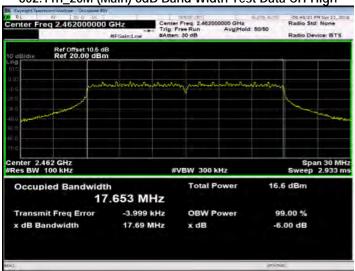
802.11n_20M (Main) 6dB Band Width Test Data CH-Low



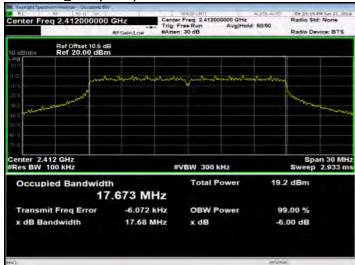
802.11n_20M (Main) 6dB Band Width Test Data CH-Mid



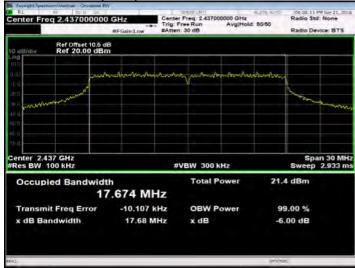
802.11n_20M (Main) 6dB Band Width Test Data CH-High



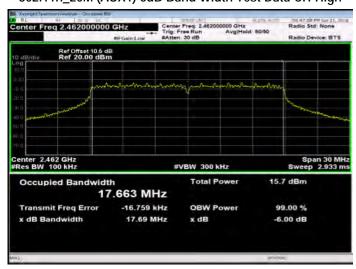
802.11n_20M (AUX1) 6dB Band Width Test Data CH-Low



802.11n_20M (AUX1) 6dB Band Width Test Data CH-Mid



802.11n 20M (AUX1) 6dB Band Width Test Data CH-High



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CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

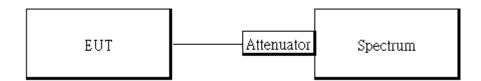
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

10.3 Test SET-UP



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10.4 Measurement Procedure

Band Edge Limit Calculation:

- Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 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.

Conducted Band Edge:

- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker 1 20dBm
- 8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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Conducted Spurious Emission:

- To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

10.5 Measurement Result

Bandedge Limit 802.11b MODE			
Frequency (MHz)	RF Power	Bandedge	
	Density	Limit	
(1011-12)	(dBm)	(dBm)	
2412	6.60	-13.40	
2462	6.29	-13.71	

Bandedge Limit 802.11 g MODE			
Frequency (MHz)	RF Power	Maximum	
	Density	Lim it	
(1011-12)	(dBm)	(dBm)	
2412	4.20	-15.80	
2462	0.60	-19.40	

Bandedge Limit 802.11n20 MODE			
Eroguenov	RF Power	Maximum	
Frequency (MHz)	Density	Lim it	
(1711-12)	(dBm)	(dBm)	
2412	4.23	-15.77	
2462	0.77	-19.23	

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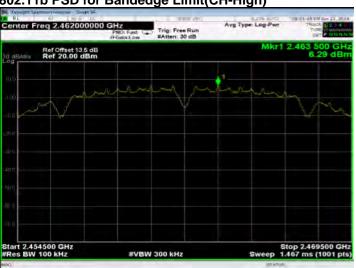
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802.11b PSD for Bandedge Limit(CH-High)



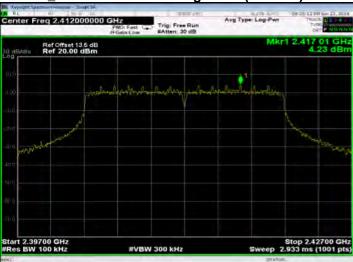
802.11g PSD for Bandedge Limit(CH-Low)



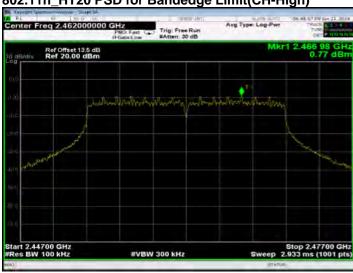
802.11g PSD for Bandedge Limit(CH-High)



802.11n_HT20 PSD for Bandedge Limit(CH-Low)



802.11n_HT20 PSD for Bandedge Limit(CH-High)



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802.11b **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High



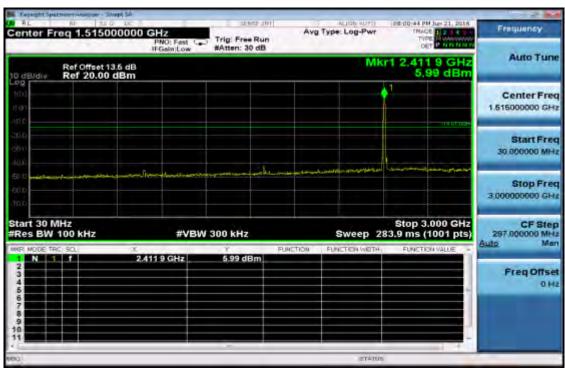
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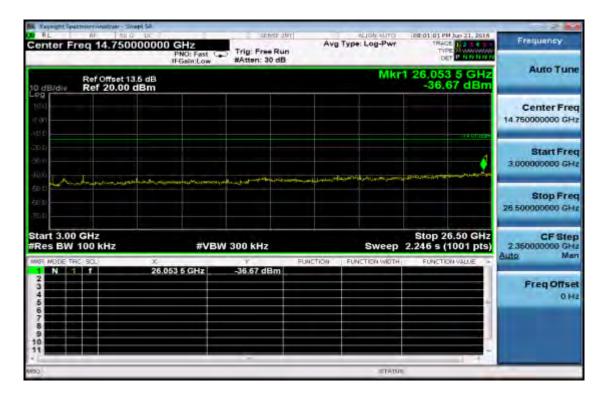
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802.11b

Spurious Emission Test Data CH-Low





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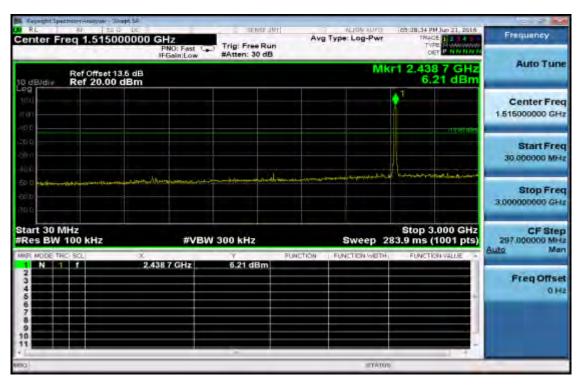
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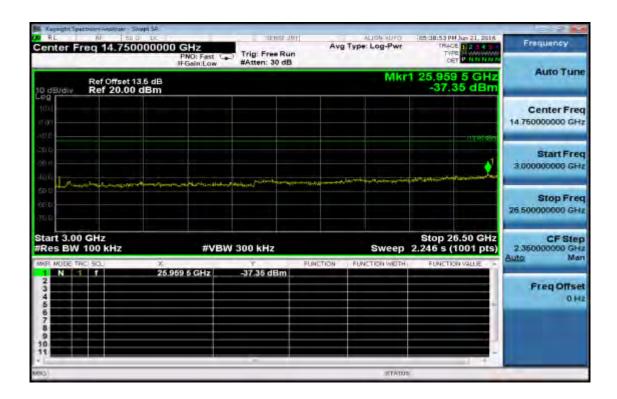
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Spurious Emission Test Data CH-Mid





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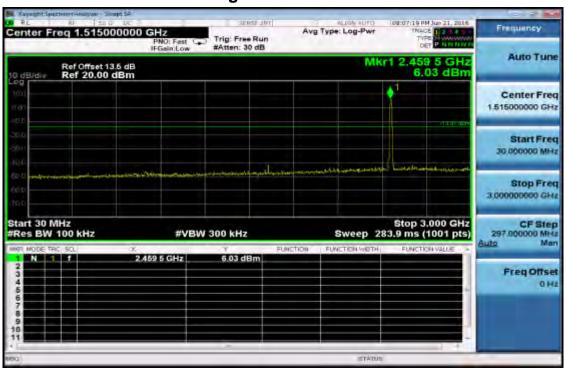
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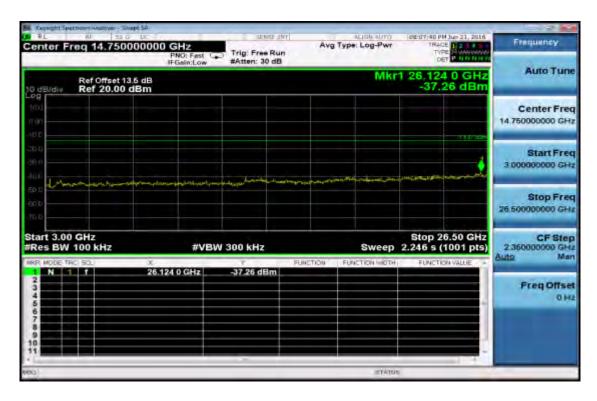
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Spurious Emission Test Data CH-High





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802.11g **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High



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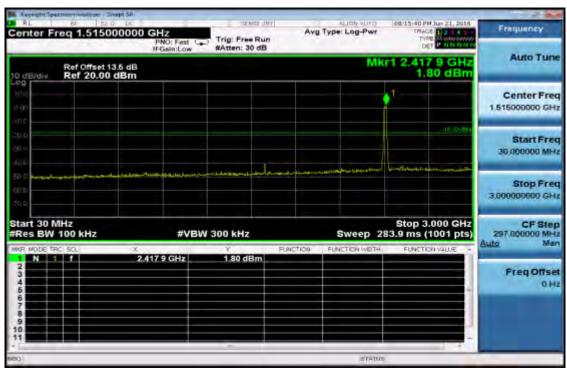
t (886-2) 2299-3279

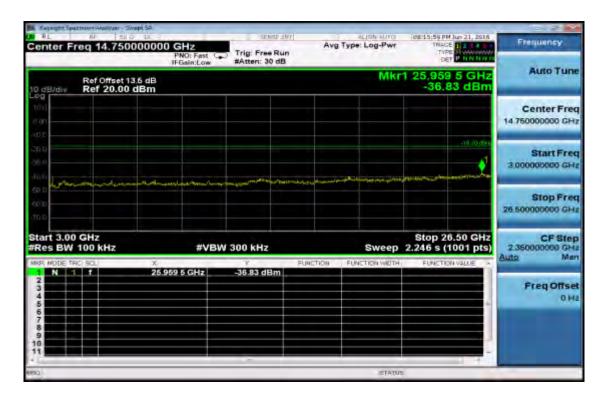
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802.11g

Spurious Emission Test Data CH-Low





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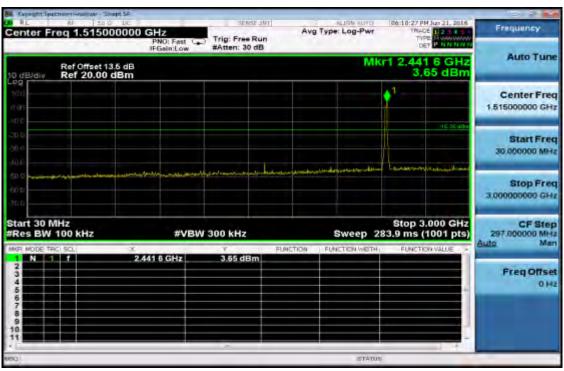
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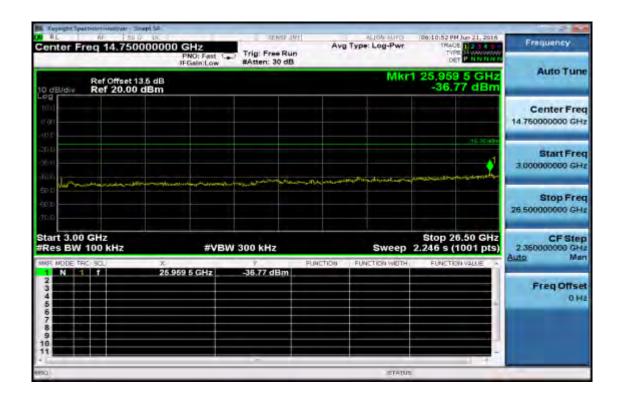
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Spurious Emission Test Data CH-Mid





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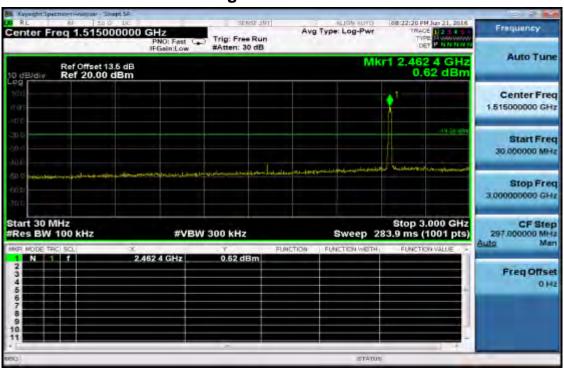
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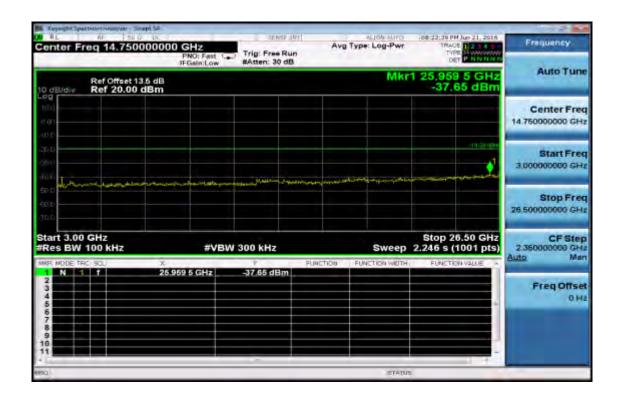
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Spurious Emission Test Data CH-High





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802.11n_HT20 **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High



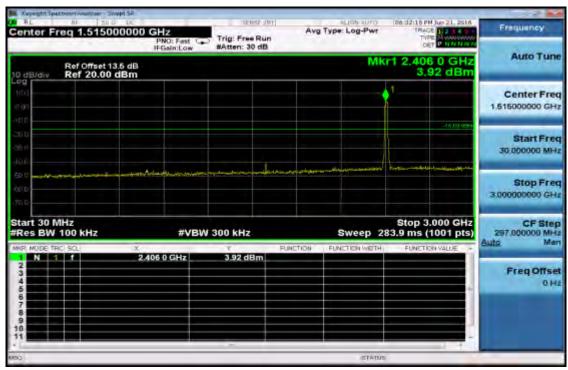
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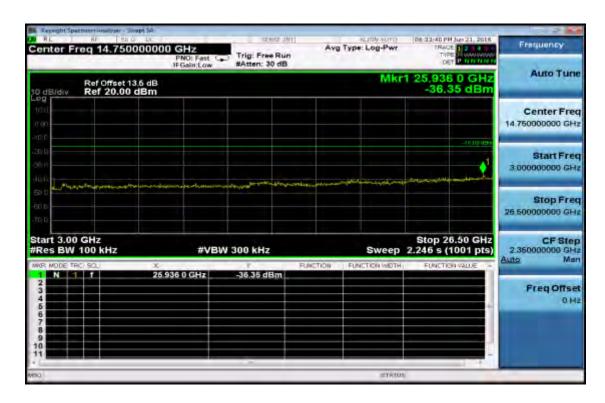
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802.11n HT20

Spurious Emission Test Data CH-Low





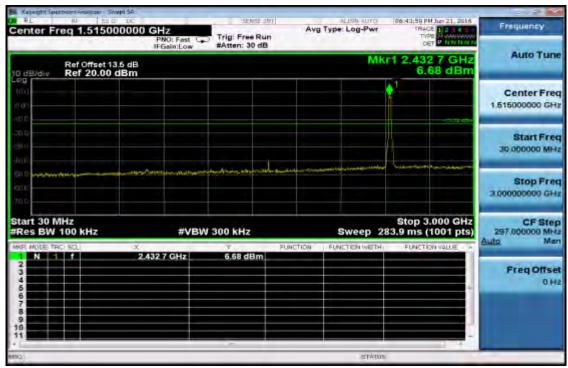
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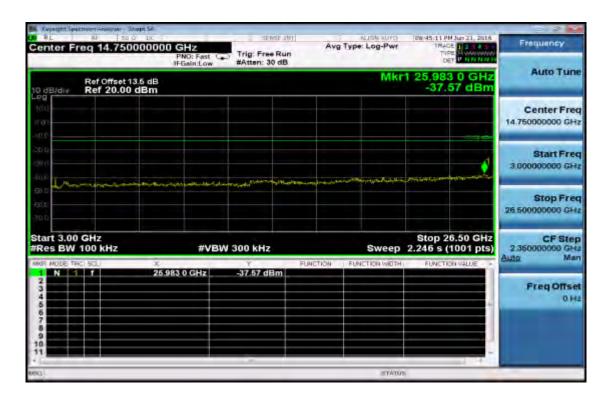
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Spurious Emission Test Data CH-Mid



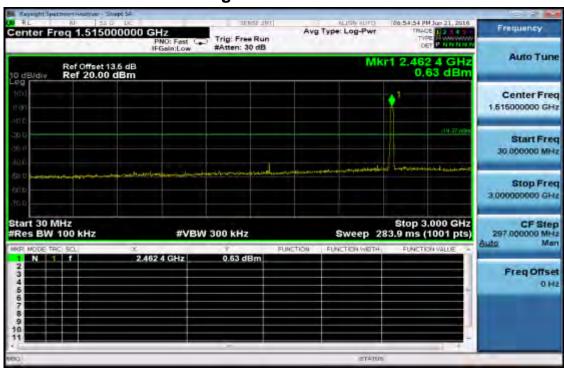


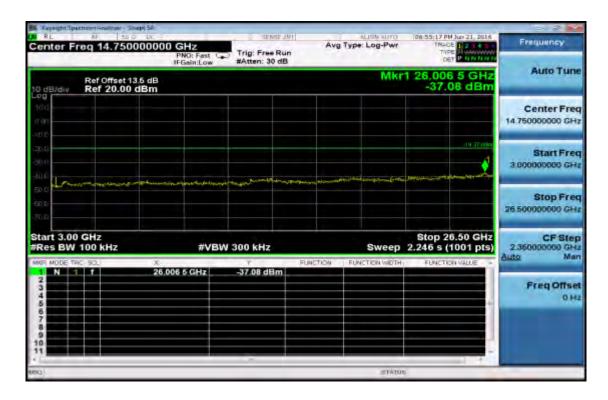
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Spurious Emission Test Data CH-High





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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- 1. The lower limit shall apply at the transition frequencies.
- Emission level (dBµV/m) = 20 log Emission level (dBµV/m)

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11.2 Measurement Equipment Used:

		966 Chambe	r		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2015	12/04/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S SCU-2		100780	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

NOTE: N.C.R refers to Not Calibrated Required.

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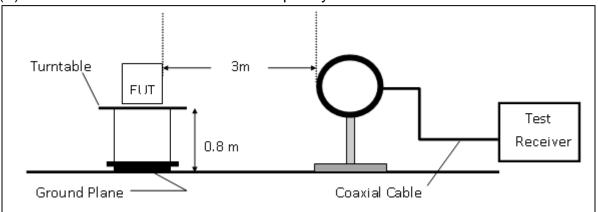
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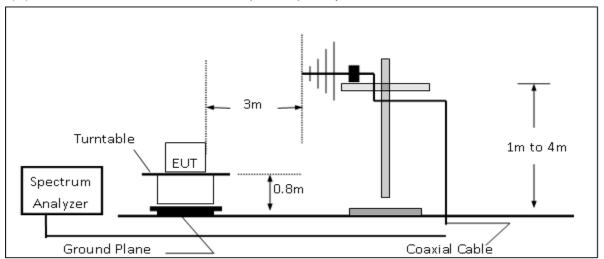


11.3 Test SET-UP

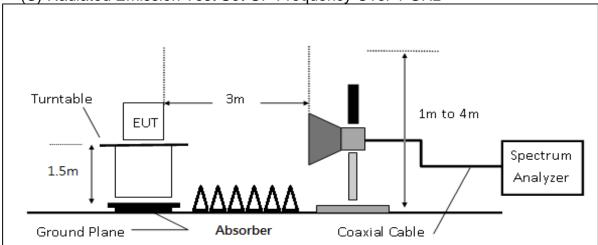
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guid-
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 12. Repeat above procedures until all default test channel measured were complete.

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	<u> </u>	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

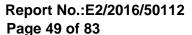
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Band Edge Measurement Result (802.11b)

Operation Mode: Test Date: 2016/6/21 802.11b

24.3 deg_C/62RH Fundamental Frequency: 2412 MHz Temp. / Humi. :

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
2390.00	Е	Peak	47.90	0.92	48.82	74	-25.18	•
2390.00	Е	Average	36.86	0.92	37.78	54	-16.22	

Operation Mode: 802.11b Test Date: 2016/6/21

Fundamental Frequency: 2412 MHz Temp. / Humi. : 24.3 deg_C/62RH

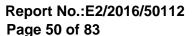
Operation Band: Test Engineer: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector 5 ct or 5 ct of 5 ct	Spectum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
2390.00	Е	Peak	51.64	0.92	52.56	74	-21.44	•
2390.00	Е	Average	39.19	0.92	40.11	54	-13.89	

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802.11b Operation Mode: Test Date: 2016/6/21

Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	52.94	1.16	54.10	74	-19.90
2483.50	Е	Average	43.66	1.16	44.82	54	-9.18

Operation Mode: 802.11b Test Date: 2016/6/21

Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

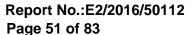
Test Engineer: Operation Band: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector 5 ct or 5 ct of 5 ct	Spectum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
2483.50	E	Peak	56.11	1.16	57.27	74	-16.73	•
2483.50	Е	Average	46.63	1.16	47.79	54	-6.21	

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode: Test Date: 2016/6/21 802.11g

24.3 deg_C/62RH Fundamental Frequency: 2412 MHz Temp. / Humi. :

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Е	Peak	64.24	0.92	65.16	74	-8.84
2390.00	Е	Average	42.37	0.92	43.29	54	-10.71

Operation Mode: 802.11g Test Date: 2016/6/21

Fundamental Frequency: 2412 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Test Engineer: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

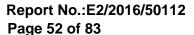
	Freq.	Note	Detector 5 cm	Spectum	Factor	Actual	Limit	Margin	
			Mode	Reading Level		FS	@3m		
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	_
	2390.00	E	Peak	69.16	0.92	70.08	74	-3.92	•
	2390.00	E	Average	46.50	0.92	47.42	54	-6.58	

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Test Date: Operation Mode: 802.11g 2016/6/21

Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	67.52	1.16	68.68	74	-5.32
2483.50	Е	Average	44.01	1.16	45.17	54	-8.83
2483.80	S	Peak	67.59	1.16	68.75	74	-5.25
2483.80	S	Average	43.85	1.16	45.01	54	-8.99

Operation Mode: 802.11g Test Date: 2016/6/21

Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: Horizontal E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	71.58	1.16	72.74	74	-1.26
2483.50	E	Average	49.66	1.16	50.82	54	-3.18
2483.70	S	Peak	71.82	1.16	72.98	74	-1.02
2483.70	S	Average	49.21	1.16	50.37	54	-3.63

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode: Test Date: 2016/6/21 802.11n20

24.3 deg_C/62RH Fundamental Frequency: 2412 MHz Temp. / Humi.:

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	Е	Peak	64.26	0.92	65.18	74	-8.82
2390.00	Е	Average	41.38	0.92	42.30	54	-11.70

Operation Mode: 802.11n20 Test Date: 2016/6/21

Fundamental Frequency: Temp. / Humi. : 2412 MHz 24.3 deg_C/62RH

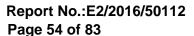
Operation Band: Test Engineer: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector 5 cm	Spectum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
2390.00	E	Peak	71.83	0.92	72.76	74	-1.24	•
2390.00	Е	Average	44.69	0.92	45.61	54	-8.39	

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Test Date: Operation Mode: 802.11n20 2016/6/17

Fundamental Frequency: Temp. / Humi. : 2462 MHz 24.3 deg_C/62RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical

Fred	ı. Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	z F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dΒμV/m	dB
2483.	50 E	Peak	67.57	1.16	68.73	74	-5.27
2483	50 F	Average	44.28	1.16	45.44	54	-8.56

Operation Mode: 802.11n20 Test Date: 2016/6/17

Fundamental Frequency: Temp. / Humi. : 2462 MHz 24.3 deg_C/62RH

Operation Band: Test Engineer: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	71.75	1.16	72.91	74	-1.09
2483.50	Е	Average	48.20	1.16	49.36	54	-4.64



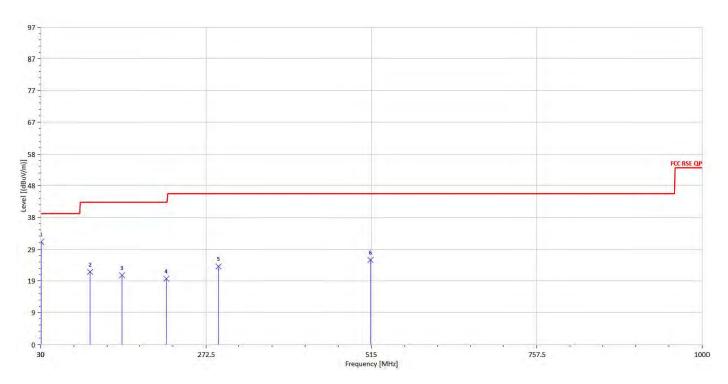
Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode: Test Date: 802.11g 2016/6/21

Fundamental Frequency: 2412 MHz Temp. / Humi.: 24.3 deg_C/62RH

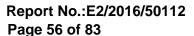
Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
30.97	S	Peak	39.04	-7.70	31.34	40	-8.66
102.75	S	Peak	39.56	-17.40	22.16	43.5	-21.34
149.31	S	Peak	37.81	-16.73	21.09	43.5	-22.41
214.30	S	Peak	37.19	-17.15	20.04	43.5	-23.46
290.93	S	Peak	37.13	-13.28	23.85	46	-22.15
514.03	S	Peak	33.53	-7.67	25.86	46	-20.14

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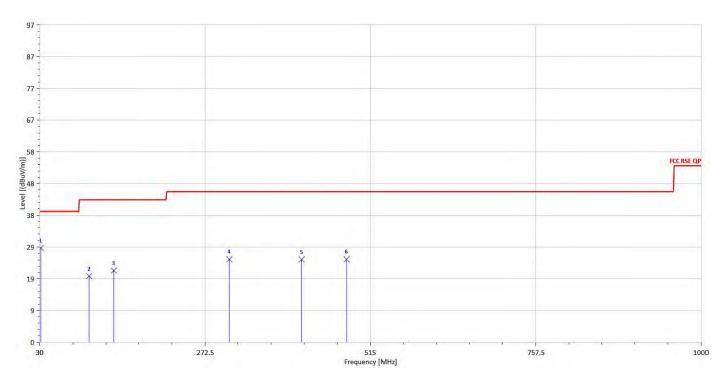
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



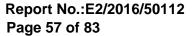
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	36.97	-8.22	28.75	40	-11.25
102.75	S	Peak	37.64	-17.40	20.24	43.5	-23.26
138.64	S	Peak	37.90	-15.97	21.93	43.5	-21.57
308.39	S	Peak	38.17	-12.74	25.42	46	-20.58
414.12	S	Peak	34.54	-9.21	25.32	46	-20.68
480.08	S	Peak	33.16	-7.81	25.35	46	-20.65

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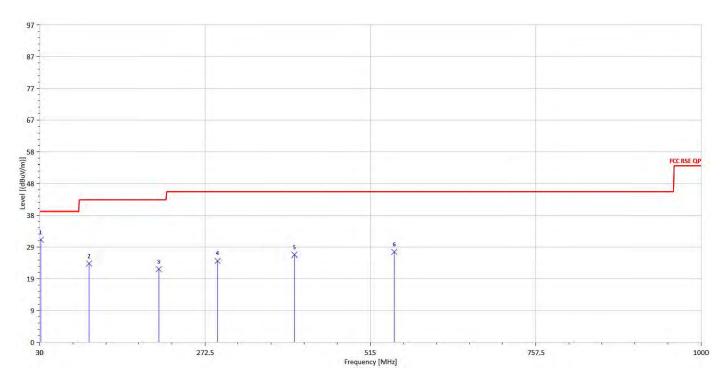
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



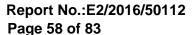
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	39.53	-8.22	31.31	40	-8.69
102.75	S	Peak	41.54	-17.40	24.14	43.5	-19.36
204.60	S	Peak	39.70	-17.32	22.38	43.5	-21.12
290.93	S	Peak	38.21	-13.28	24.92	46	-21.08
403.45	S	Peak	36.35	-9.65	26.70	46	-19.30
549.92	S	Peak	34.64	-7.07	27.57	46	-18.43

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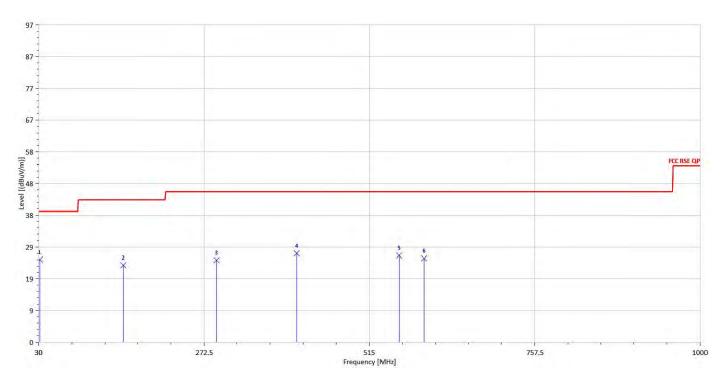
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



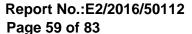
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	33.51	-8.22	25.29	40	-14.71
154.16	S	Peak	40.53	-16.97	23.56	43.5	-19.94
290.93	S	Peak	38.39	-13.28	25.11	46	-20.89
408.30	S	Peak	36.37	-9.25	27.12	46	-18.88
558.65	S	Peak	33.30	-6.78	26.52	46	-19.48
595.51	S	Peak	31.65	-6.01	25.64	46	-20.36

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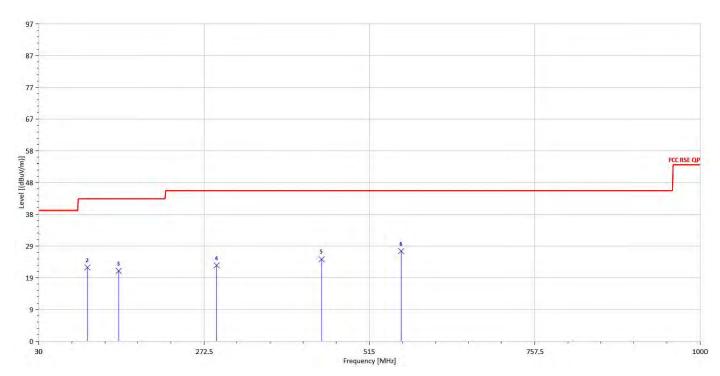
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Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
30.00	S	Peak	38.21	-7.18	31.03	40	-8.97
101.78	S	Peak	40.11	-17.52	22.58	43.5	-20.92
147.37	S	Peak	38.16	-16.63	21.53	43.5	-21.97
290.93	S	Peak	36.52	-13.28	23.23	46	-22.77
445.16	S	Peak	34.31	-9.21	25.10	46	-20.90
561.56	S	Peak	33.91	-6.42	27.49	46	-18.51

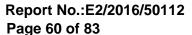
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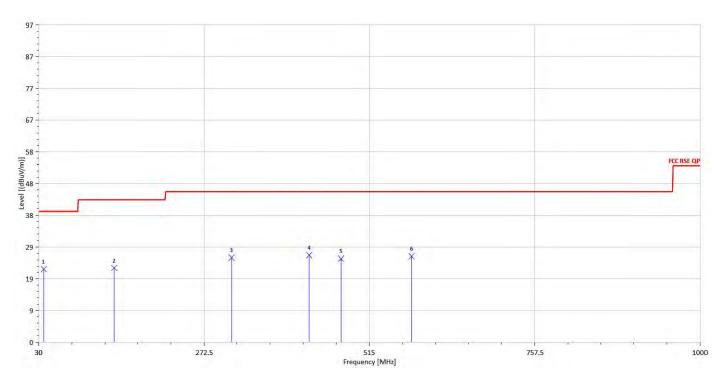
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Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
37.76	S	Peak	33.87	-11.49	22.38	40	-17.62
140.58	S	Peak	38.93	-16.17	22.77	43.5	-20.73
313.24	S	Peak	38.19	-12.34	25.85	46	-20.15
426.73	S	Peak	35.71	-9.14	26.58	46	-19.42
473.29	S	Peak	33.55	-7.99	25.56	46	-20.44
577.08	S	Peak	32.57	-6.30	26.27	46	-19.73

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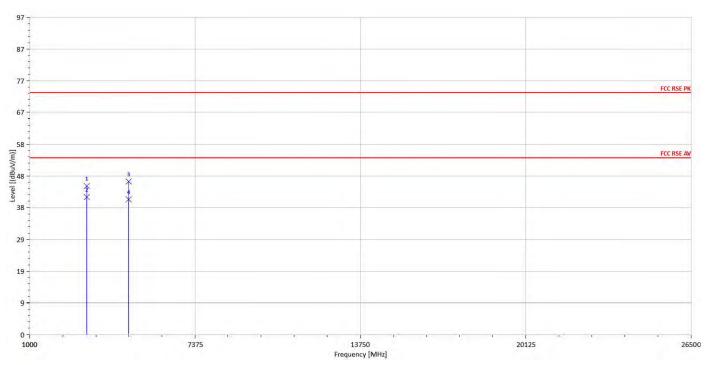
Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode: 802.11b Test Date: 2016/6/21

Fundamental Frequency: 2412 MHz Temp. / Humi.: 24.3 deg_C/62RH

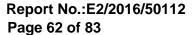
Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3212.00	S	Peak	42.15	3.29	45.44	74	-28.56
3212.00	S	Average	38.73	3.29	42.02	54	-11.98
4824.00	Н	Peak	39.25	7.58	46.83	74	-27.17
4824.00	Н	Average	33.75	7.58	41.33	54	-12.67

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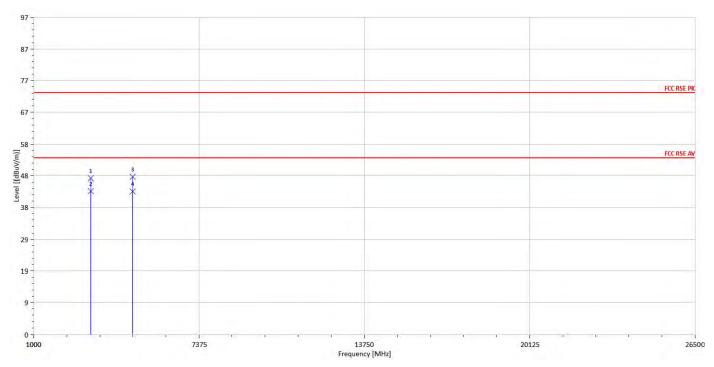




Operation Mode: 802.11b 2016/6/21 Test Date:

Fundamental Frequency: 2412 MHz Temp. / Humi.: 24.3 deg_C/62RH

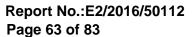
Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3212.00	S	Peak	44.43	3.29	47.72	74	-26.28
3212.00	S	Average	40.57	3.29	43.86	54	-10.14
4824.00	Н	Peak	40.56	7.58	48.14	74	-25.86
4824.00	Н	Average	36.18	7.58	43.76	54	-10.24

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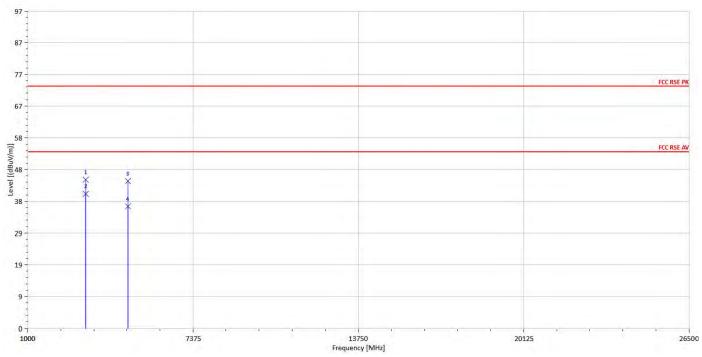




Operation Mode: Test Date: 2016/6/21 802.11b

24.3 deg_C/62RH Fundamental Frequency: 2437 MHz Temp. / Humi.:

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical

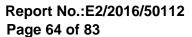


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3247.00	S	Peak	41.49	3.90	45.39	74	-28.61
3247.00	S	Average	37.26	3.90	41.16	54	-12.84
4874.00	Н	Peak	37.05	7.91	44.96	74	-29.04
4874.00	Н	Average	29.41	7.91	37.32	54	-16.68

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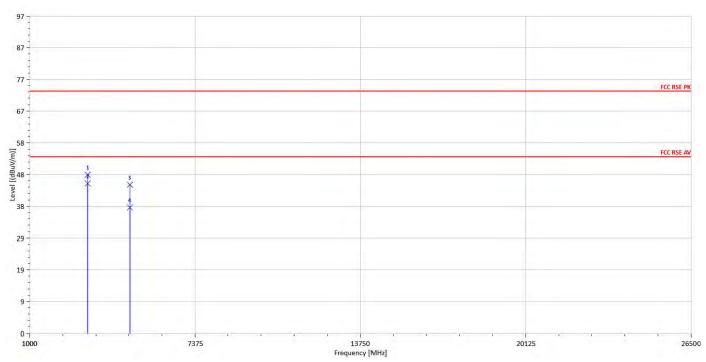




Operation Mode: Test Date: 2016/6/21 802.11b

Fundamental Frequency: 2437 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



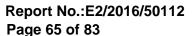
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3247.00	S	Peak	44.54	3.90	48.44	74	-25.56
3247.00	S	Average	41.88	3.90	45.78	54	-8.22
4874.00	Н	Peak	37.46	7.91	45.37	74	-28.63
4874.00	Н	Average	30.58	7.91	38.49	54	-15.51

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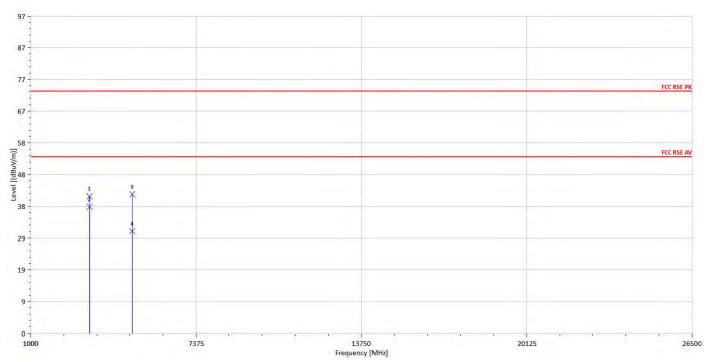




Operation Mode: Test Date: 802.11b 2016/6/21

Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : Vertical E2



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBµV/m	dBµV/m	٩D
IVITZ	F/H/E/3	PNQP/AV	ασμν	uБ	ασμν/π	ασμν/π	dB
3282.00	S	Peak	38.35	3.52	41.87	74	-32.13
3282.00	S	Average	35.20	3.52	38.72	54	-15.28
4924.00	Н	Peak	34.57	7.92	42.49	74	-31.51
4924.00	Н	Average	23.24	7.92	31.16	54	-22.84

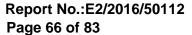
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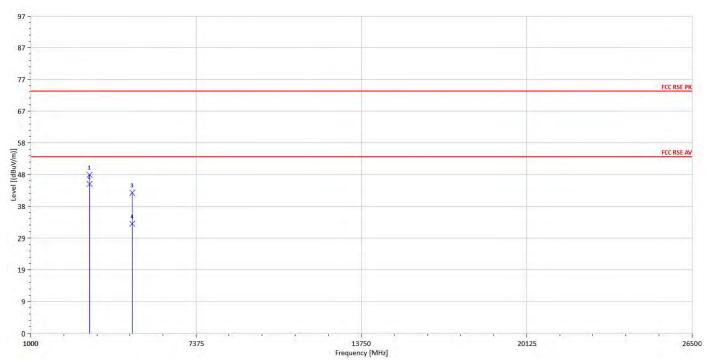




Operation Mode: Test Date: 802.11b 2016/6/21

Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : Horizontal E2



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
	E/L/E/O		•	ID	_	_	ID
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
3282.00	S	Peak	44.91	3.52	48.43	74	-25.57
3282.00	S	Average	42.07	3.52	45.59	54	-8.41
4924.00	Н	Peak	35.01	7.92	42.93	74	-31.07
4924.00	Н	Average	25.55	7.92	33.47	54	-20.53

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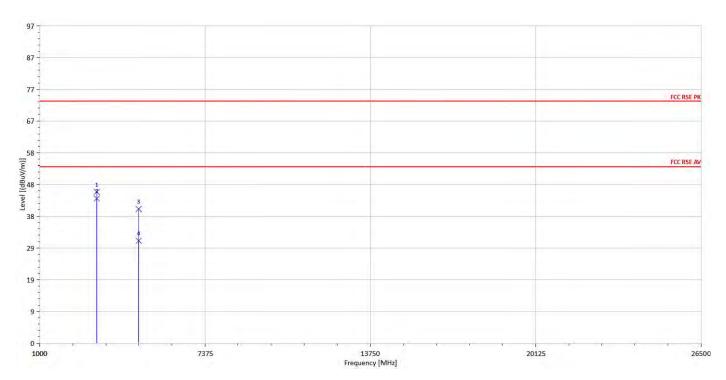


Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode: 802.11g Test Date: 2016/6/21

Fundamental Frequency: 2412 MHz Temp. / Humi.: 24.3 deg_C/62RH

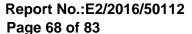
Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3212.00	S	Peak	42.97	3.29	46.25	74	-27.75
3212.00	S	Average	40.93	3.29	44.22	54	-9.78
4824.00	Н	Peak	33.40	7.58	40.97	74	-33.03
4824.00	Н	Average	23.71	7.58	31.29	54	-22.71

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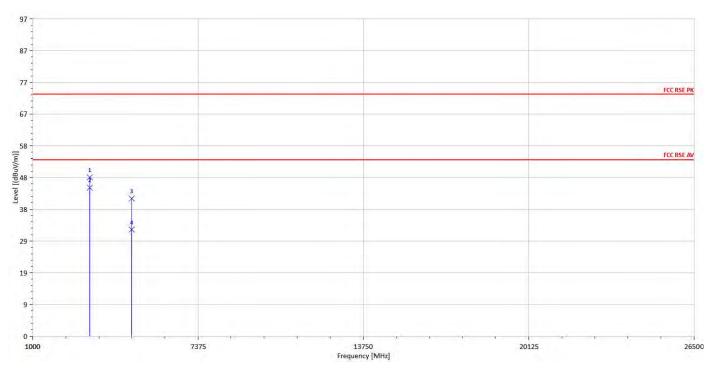
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



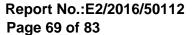
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3212.00	S	Peak	45.29	3.29	48.58	74	-25.42
3212.00	S	Average	42.12	3.29	45.41	54	-8.59
4824.00	Н	Peak	34.46	7.58	42.03	74	-31.97
4824.00	Н	Average	25.02	7.58	32.60	54	-21.40

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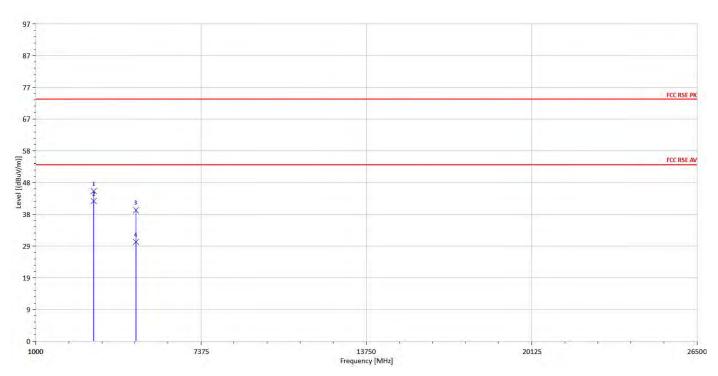
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



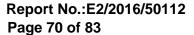
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3247.00	S	Peak	42.00	3.90	45.90	74	-28.10
3247.00	S	Average	38.90	3.90	42.80	54	-11.20
4874.00	Н	Peak	32.14	7.91	40.05	74	-33.95
4874.00	Н	Average	22.41	7.91	30.32	54	-23.68

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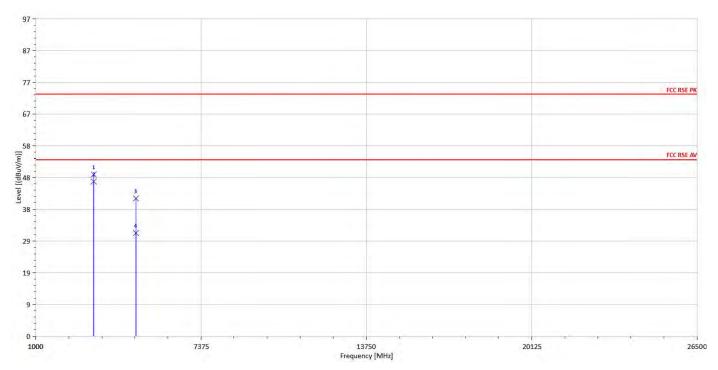
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



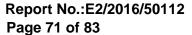
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3247.00	S	Peak	45.58	3.90	49.48	74	-24.52
3247.00	S	Average	43.39	3.90	47.29	54	-6.71
4874.00	Н	Peak	34.16	7.91	42.07	74	-31.93
4874.00	Н	Average	23.61	7.91	31.52	54	-22.48

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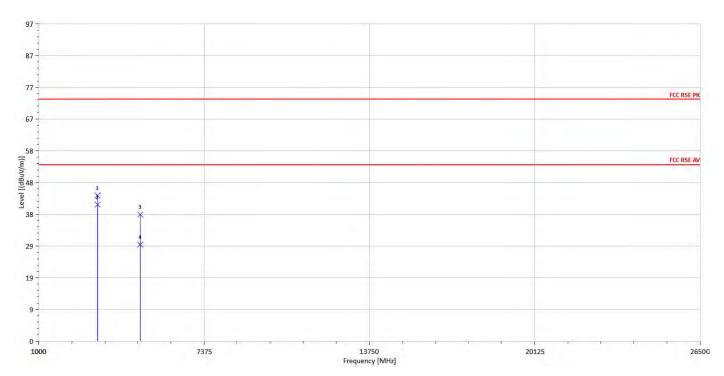
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Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



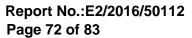
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3282.00	S	Peak	40.98	3.52	44.50	74	-29.50
3282.00	S	Average	38.20	3.52	41.72	54	-12.28
4924.00	Н	Peak	30.85	7.92	38.78	74	-35.22
4924.00	Н	Average	21.62	7.92	29.54	54	-24.46

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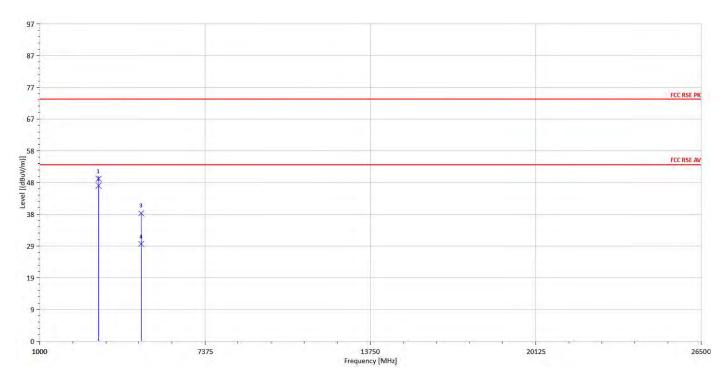
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Fundamental Frequency: 2462 MHz Temp. / Humi. : 24.3 deg_C/62RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
3282.00	S	Peak	46.18	3.52	49.69	74	-24.31
3282.00	S	Average	44.03	3.52	47.55	54	-6.45
4924.00	Н	Peak	31.24	7.92	39.16	74	-34.84
4924.00	Н	Average	21.82	7.92	29.74	54	-24.26

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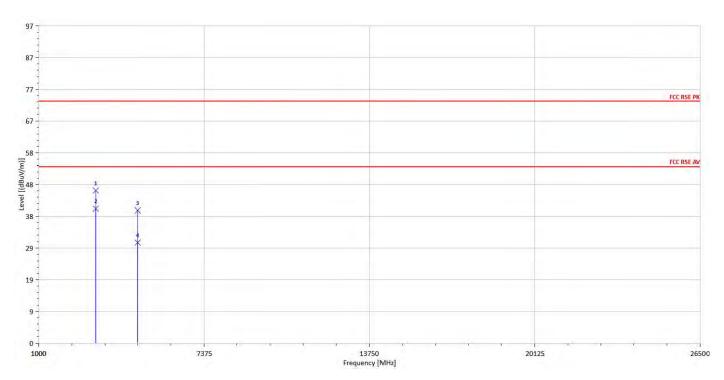


Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode: 802.11n20 Test Date: 2016/6/21

Temp. / Humi.: Fundamental Frequency: 2412 MHz 24.3 deg_C/62RH

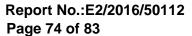
Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3212.00	S	Peak	43.40	3.29	46.68	74	-27.32
3212.00	S	Average	37.79	3.29	41.08	54	-12.92
4824.00	Н	Peak	33.01	7.58	40.59	74	-33.41
4824.00	Н	Average	23.16	7.58	30.74	54	-23.26

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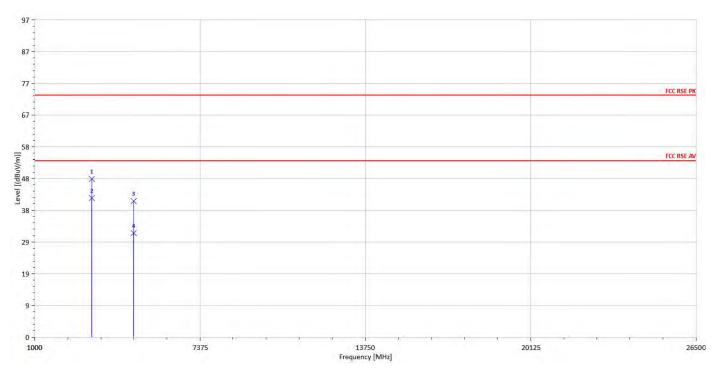
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3212.00	S	Peak	45.11	3.29	48.40	74	-25.60
3212.00	S	Average	39.22	3.29	42.51	54	-11.49
4824.00	Н	Peak	33.97	7.58	41.54	74	-32.46
4824.00	Н	Average	24.24	7.58	31.82	54	-22.18

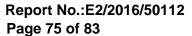
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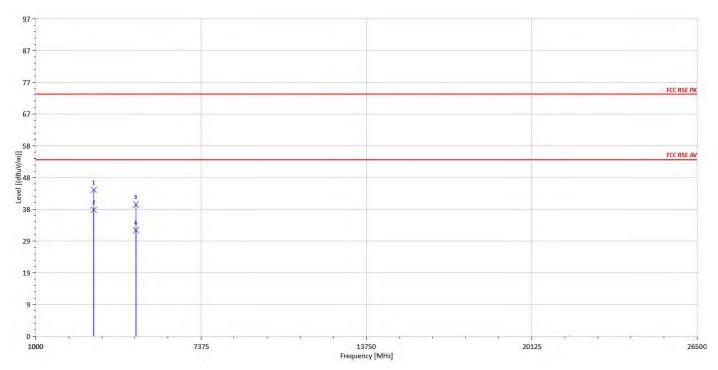
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



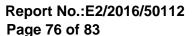
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3247.00	S	Peak	40.83	3.90	44.73	74	-29.27
3247.00	S	Average	34.80	3.90	38.70	54	-15.30
4874.00	Н	Peak	32.37	7.91	40.28	74	-33.72
4874.00	Н	Average	24.52	7.91	32.43	54	-21.57

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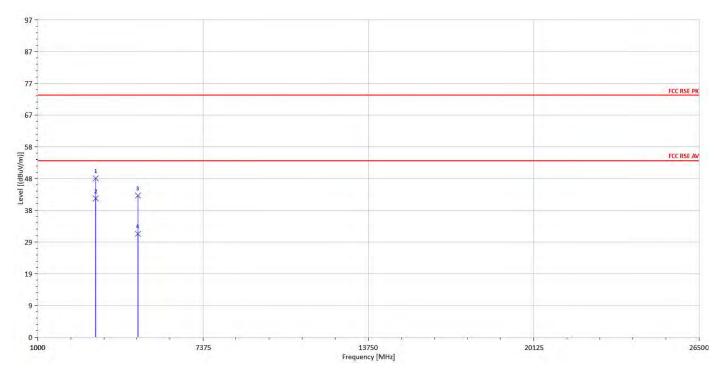
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



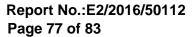
Freq.	Note	Dete ctor	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3247.00	S	Peak	44.68	3.90	48.57	74	-25.43
3247.00	S	Average	38.48	3.90	42.38	54	-11.62
4874.00	Н	Peak	35.34	7.91	43.25	74	-30.75
4874.00	Н	Average	23.67	7.91	31.58	54	-22.42

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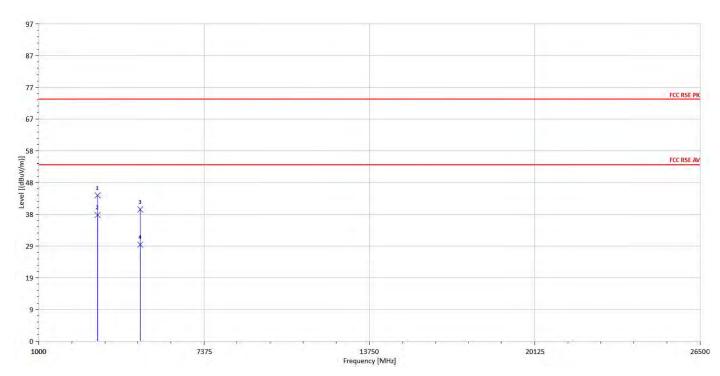
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



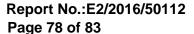
	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
-	3282.00	S	Peak	41.05	3.52	44.57	74	-29.43
	3282.00	S	Average	35.12	3.52	38.64	54	-15.36
	4924.00	Н	Peak	32.36	7.92	40.29	74	-33.71
	4924.00	Н	Average	21.58	7.92	29.50	54	-24.50

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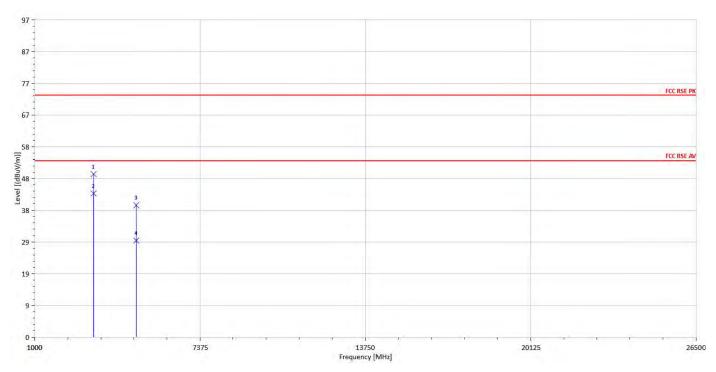
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 24.3 deg_C/62RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
-	3282.00	S	Peak	46.38	3.52	49.90	74	-24.10
	3282.00	S	Average	40.40	3.52	43.92	54	-10.08
	4924.00	Н	Peak	32.42	7.92	40.34	74	-33.66
	4924.00	Н	Average	21.60	7.92	29.52	54	-24.48

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12 PEAK POWER SPECTRAL DENSITY

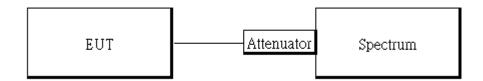
12.1 Standard Applicable

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017	
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016	
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016	

12.3 Test Set-up



12.4 Measurement Procedure

- 10. Set analyzer center frequency to DTS channel center frequency.
- 11. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 12. Set the span to 1.5 times the DTS channel bandwidth.
- 13. Set the RBW = 3 kHz & VBW = 10 kHz.
- 14. Detector = peak.
- 15. Sweep time = auto couple.
- 16. Trace mode = max hold.
- 17. Allow trace to fully stabilize.
- 18. Use the peak marker function to determine the maximum amplitude level.
- 19.802.11n MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

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SGS Taiwan Ltd.



Note:

Main Antenna Gain: 3.00 dBi 2.24 dBi Aux1 Antenna Gain: Number Antenna: 2 pcs Limit: 8 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below: Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 3+3.01=6.01dBi

Limit: 8dBm - (6.01-6dBi)=7.99dBm

12.5 Measurement Result

POWER	R DENSITY	PO			
Frequency	RF Power Density	ensity Limit Res (Bm) (dBm) 0.13 7.99 PAS 0.50 7.99 PAS	Result	Freque	
(MHz)	(dBm)	Maximum Limit (dBm) 7.99 PASS 7.99 PASS		(MHz	
2412	-9.13	7.99	PASS	241	
2437	-9.50	7.99	PASS	243	
2462	-10 29	ower Maximum Sity Limit Result (dBm) 3 7.99 PASS 0 7.99 PASS	246		

POWER DENSITY 802.11g MODE					
Frequency	RF Power	Maximum			
(MHz)	Density	Density Limit			
(1711 12)	(dBm)	(dBm)			
2412	-12.57	7.99	PASS		
2437	-12.73	7.99	PASS		
2462	-16.67	7.99	PASS		

POWER DENSITY 802.11n HT20 MODE						
Frequency	RF Power	Maximum				
(MHz)	Density	Limit	Result			
(1011 12)	(dBm)	(dBm)				
2412	-10.86	7.99	PASS			
2437	-8.36	7.99	PASS			
2462	-14.14	7.99	PASS			

^{*}Refer to next page for plots

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802.11b PSD(CH-Low)



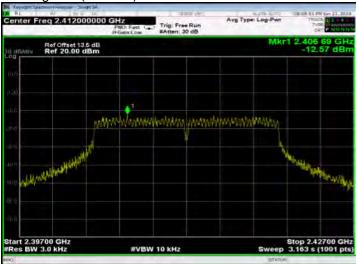
802.11b PSD (CH-Mid)



802.11b PSD (CH-High)



802.11g PSD(CH-Low)



802.11g PSD (CH-Mid)



P802.11g PSD (CH-High)



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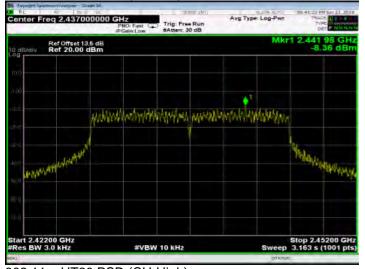
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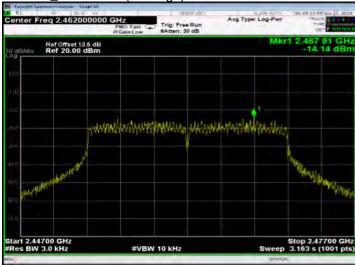
802.11n_HT20 PSD (CH-Low)



802.11n_HT20 PSD (CH-Mid)



802.11n HT20 PSD (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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