

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: HiMirror

Brand Name: HiMirror

Model No.: **BM608**

Model Difference: N/A

FCC ID: 2AA2U-BM608

Report No.: E2/2016/70016

Issue Date: Jul. 20, 2016

FCC Rule Part: §15.247, Cat: DTS

Cal-Comp Electronics & Communications

Company Limited Prepared for:

3th FL., No. 99, Sec. 5, Nanjing E. Rd., Tai-

pei City, Taiwan.

SGS Taiwan Ltd.

Electronics & Communication Laboratory Prepared by:

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VERIFICATION OF COMPLIANCE

Applicant: Cal-Comp Electronics & Communications Company Limited

3th FL., No. 99, Sec. 5, Nanjing E. Rd., Taipei City, Taiwan

Product Name: HiMirror

Brand Name: HiMirror

Model No.: **BM608**

Model Difference: N/A

FCC ID: 2AA2U-BM608

Report Number: E2/2016/70016

Date of test: Jul. 04, 2016 ~ Jul. 15, 2016

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Date of EUT Received: Jul. 04, 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:	Aken Huang	Date	Jul. 20, 2016	
Prepared By:	Aken Huang/Engineer Karen Huang	Date	Jul. 20, 2016	
Approved By:	Jim Chang / Asst. Manager	<i>Date</i>	Jul. 20, 2016	

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Revision History

Report Number Revision		Description	Issue Date	
E2/2016/70016	Rev.00	Initial creation of document	Jul. 20, 2016	

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GENERAL INFORMATION

Product description

General:

Product Name:	HiMirror			
Brand Name:	HiMirror			
Model No.:	BM608			
Model Difference:	N/A			
Product SW/HW version:	N/A / N/A			
Radio SW/HW version:	N/A / N/A			
Test SW Version:	N/A			
RF power setting in TEST SW:	N/A			
	12Vdc fro	m AC/DC adapter		
Power Supply:	Adapter:	 Model No.: 2ABN036F, Supplier: Channel Well Technology Model No.: KSAS0361200300HU Supplier: Kuantech (Shenzhen) Co., Ltd. Model No.: WA-36A12FU, Supplier: Asian Power Devices Inc. Model No.: WAG007, Supplier: Acbel Polytech Inc. 		

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WLAN 2.4GHz:

<u> </u>	AN Z. FOI IZ.					
Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology		
11b/g	2412-2462	11	b: 15.28dBm g: 21.39dBm	DSSS, OFDM		
11n	HT20 2412-2462	11	HT20: 21.22dBm	OFDM		
Anten	Antenna Designation:		nna, Gain:4.06dBi CA371025IMLB901, Valsin Technology Corporation			
Modulation type:		,	PSK, DBPSK for DSSS 6QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 g: ւ	up to 11 Mbps; up to 54 Mbps 20MHz: up to 72.2Mbps			

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting Bluetooth, WIFI features, and below is details of information:

	Product Feature			
Product Name:	HiMirror			
Brand Name:	HiMirror			
Model No.:	BM608			
Model Difference:	N/A			
FCC ID:	2AA2U-BM608			
Wi-Fi Specification	802.11b/g/n			
Bluetooth Version	V4.1			

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

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Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

ANSI C63.10:2013

Note:

- 1. All test items have been performed and record as per the above standards.
- 2. The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.
- The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63, 10:2013.

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

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

Equipment Modifications 1.6

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.

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 0.5dB and 10dB attenuator.

offset = RF cable loss (dB)+ attenuation factor(dB)=10.5(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Radiated & Conduction Tested System

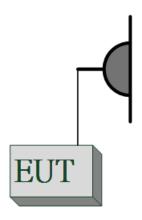


Fig. 2-2 Configuration of Conducted Tested System

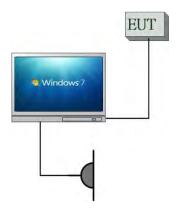


Table 2-1 Equipment Used in Tested System

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	Shielded	Un-shielded

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power Comp	
§15.247(a)(2)	6dB 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

DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n_HT20

	, , , , , , , , , , , , , , , , , , ,		
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		

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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:

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	MAIN		
	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	MAIN		
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN		
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MAIN		

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 H position was reported.

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	MAIN	
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN	
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MAIN	

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台灣檢驗科技股份有限公司 t (886-2) 2299-3279



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: +/- 2.87 dB
	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: +/- 2.87 dB
	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	Lin dB(
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

	modeal emone Equipment 9004											
	Conducted Emission Test Site											
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.							
TYPE		NUMBER	NUMBER	CAL.								
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016							
Coaxial Cables	N/A	N30N30-1042-150 cm	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.

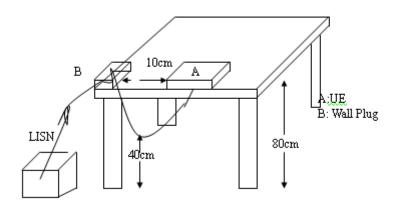
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6.4 Test SET-UP (Block Diagram of Configuration)



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

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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AC POWER LINE CONDUCTED EMISSION TEST DATA

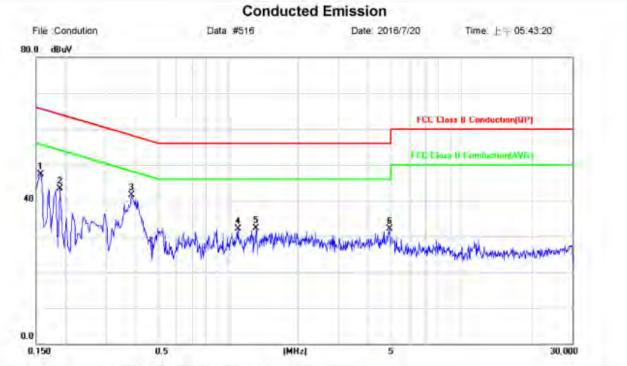
Operation Mode: Operation mode Aken Test By:

Site Conduction Room Limit: FCC Class B Conduction(QP) Phase: L1 AC 120V/60Hz Power:

Temperature: 22 C Humidity:

Mode: 2ABN036F

Note



No. MK.	MR.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1580	27.51	19.72	47.23	65.57	-18.34	peak		
2		0.1900	23.50	19.71	43.21	64.04	-20.83	peak		
3		0.3860	21.69	19.82	41 51	58.15	-16.64	peak		
4		1.1020	12.18	19.91	32.09	56.00	-23.91	peak		
5		1.3220	12,45	19.92	32.37	56.00	-23.63	peak		
6		4.9340	12.21	19.98	32.19	56,00	-23.81	peak		

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22 L



Conduction Room

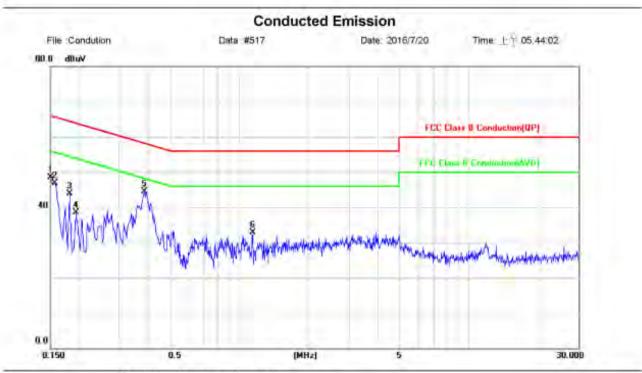
Phase, Power. AC 120V/60Hz

Temperature: Humidity: 53 %

Limit: FCC Class B Conduction(QP)

Mode: 2ABN036F

Note



No.	Mk.	Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	28.77	19.73	48.50	66.00	-17.50	peak	
2		0.1580	27.21	19.73	46.94	65.57	-18.63	peak	
3	7.7	0.1820	24.14	19.72	43.86	64.39	-20.53	peak	
4		0.1940	18.80	19.72	38.52	63.86	-25.34	peak	
5	*	0.3860	24,62	19.83	44.45	58.15	-13.70	peak	
6		1,1460	12.90	19.92	32.82	56 00	-23.18	peak	

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Site Conduction Room Phase: Lt Temperature: 22 0

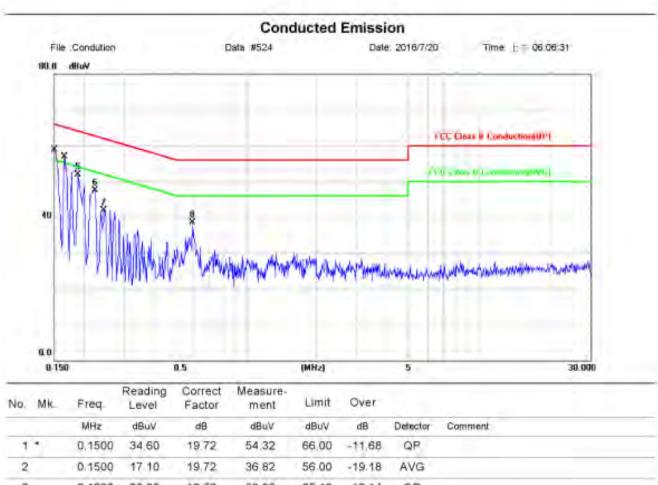
Limit: FCC Class B Conduction(QP)

AC 120V/60Hz Power:

Humidity: 63 %

Mode: KSAS0361200300HU

Note



No.	MK.	Freq.	Reading	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	•	0.1500	34.60	19.72	54.32	66.00	-11,68	QP	
2		0.1500	17.10	19.72	36.82	56.00	-19.18	AVG	
3		0.1660	33.30	19.72	53.02	65 16	-12 14	QP	
4		0.1660	14.60	19.72	34.32	55.16	-20.84	AVG	
5		0.1900	32.29	19.71	52.00	64.04	-12.04	peak	
Б		0.2260	27.71	19.73	47.44	62.60	-15.16	peak	
7		0.2468	22.11	19,74	41.85	61.86	-20.01	peak	
8		0.5900	18.58	19.90	38.48	56.00	-17.52	peak	

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Conduction Room

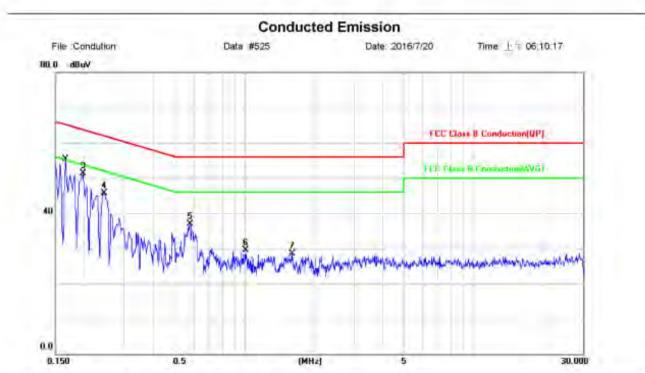
Phase. Power. AC 120V/60Hz

22 1 Temperature: Humidity: 63 %

Mode: KSAS0361200300HU

Limit: FCC Class B Conduction(QP)

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	₫BuV	dB	Detector	Comment
1		0.1660	32.20	19.73	51.93	65.16	-13,23	QP	
2		0.1660	13.70	19.73	33.43	55.16	-21.73	AVG	
3	4	0.1980	31.63	19.72	51.35	63.69	-12.34	peak	
4		0.2460	25.93	19.75	45.68	61.89	-16.21	peak	
5		0.5820	17,01	19.91	36.92	56.00	-19.08	peak	
6		1.0140	9 52	19.92	29 44	56 00	-26.56	peak	
7		1,6180	8.54	19.93	28.47	56.00	-27.53	peak	

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Conduction Room Site

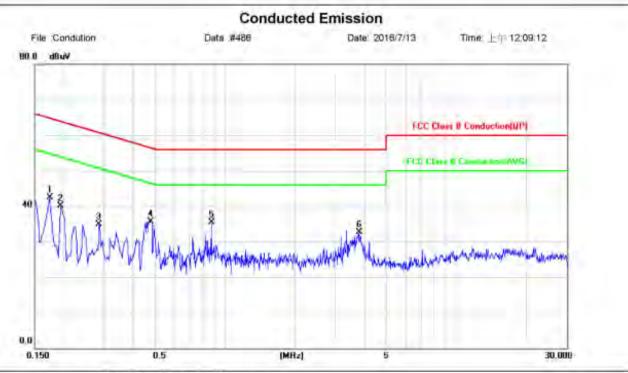
Limit: FCC Class B Conduction(QP)

Mode WA-36A12FU

Note:

Temperature: Phase: LI

Power: AC 120V/60Hz Humidity:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1740	22.88	19.72	42.60	64.77	-22.17	peak		
2		0.1940	20.43	19.71	40.14	63,86	-23.72	peak		
3		0.2860	15.23	19.77	35.00	60,64	-25.64	peak		
4		0.4780	15.91	19.89	35.80	56.37	-20.57	peak		
5		0.8740	15.61	19.91	35.52	56.00	-20.48	peak		
6		3.8060	12.79	19.96	32.75	56.00	-23.25	peak		

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Conduction Room

Phase: N

Power.

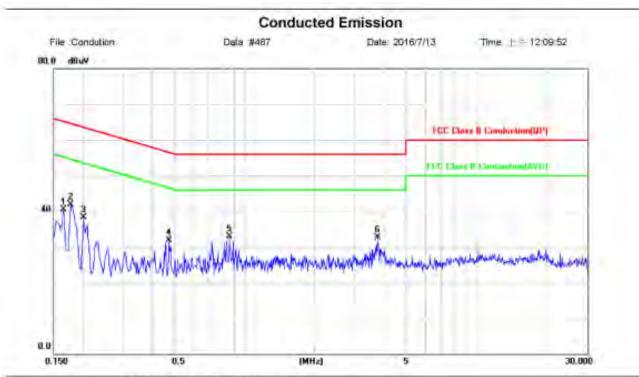
AC 120V/60Hz

Temperature; 24 C Humidity: 61 %

Limit: FCC Class B Conduction(QP)

Mode: WA-36A12FU

Note:



No.	MK.	Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	пВ	Detector	Comment	
1		0.1660	20.86	19.73	40.59	65.16	-24.57	peak		
2	*	0.1780	22 26	19.72	41.98	64.58	-22.60	peak		
3		0.2020	18,62	19.72	38.34	63.53	-25.19	peak		
4		0.4740	11.92	19.89	31.81	56.44	-24.63	peak		
.5	7.10	0.8660	12.97	19,92	32.89	56.00	-23.11	peak		
6		3.7540	12.73	19.97	32.70	56.00	-23.30	peak		

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Conduction Room

Limit: FCC Class B Conduction(QP)

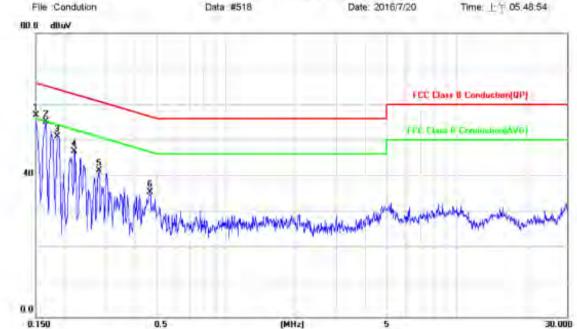
Mode: WAG007

Note:

22 L Temperature: Phase. L1 AC 120V/60Hz Humidity: 53 % Power.

Conducted Emission

Data #518 Date: 2016/7/20 File :Condution



No.	No. Mk.	Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over									
			MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.14	19.72	56.86	66.00	-9.14	peak								
2		0.1660	35.44	19.72	55.16	65.16	-10.00	peak								
3		0.1860	31.17	19.71	50.88	64.21	-13.33	peak								
4		0.2220	26.90	19.72	46.62	62.74	-16.12	peak								
5		0.2820	21.55	19.76	41.31	60.76	-19.45	peak								
6		0.4700	15,37	19.88	35,25	56 51	-21.26	peak								

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22 T



Site Conduction Room

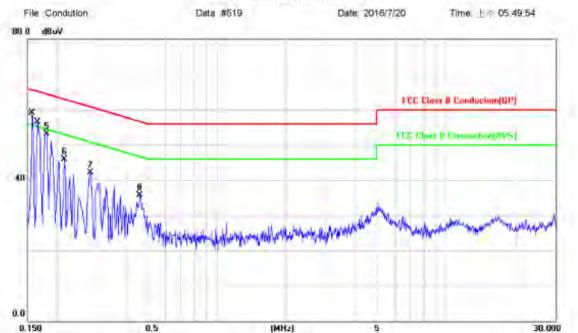
Limit: FCC Class B Conduction(QP)

Mode: WAG007

Note:

Temperature: Phase: N AC 120V/60Hz Humidity: Power.

Conducted Emission



No.	Mk.	Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	35.00	19.73	54.73	65,57	-10,84	QP	
2		0.1580	15.60	19.73	35.33	55.57	-20.24	AVG	
3		0,1660	34.50	19.73	54.23	65.16	-10.93	QP	
4		0.1660	17.00	19.73	36.73	55.16	-18.43	AVG	
5		0.1820	33.38	19.72	53.10	64.39	-11.29	peak	
6		0.2180	26.27	19.73	46.00	62.89	-16.89	peak	
7		0.2820	22.25	19.77	42.02	60.76	-18.74	peak	
В		0.4660	15.91	19.89	35.80	56.58	-20.78	peak	

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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:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	99.20	0.03
802.11g	95.51	0.20
802.11n_20	94.79	0.23

Duty Cycle Factor: 10 * log (1/Duty cycle)

Duty Cycle Factor: $10 * \log(1/0.992) = 0.03$ Duty Cycle Factor: $10 * \log(1/0.9551) = 0.2$ Duty Cycle Factor: 10 * log(1/0.9479) = 0.23

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7.1 DUTY CYCLE TEST SIGNAL Measurement Result 802.11 b



802.11 g



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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.

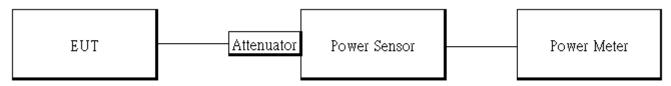


8.2 Measurement Equipment Used

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				
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017				
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016				
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2015	12/11/2016				
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016				

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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Measurement Result 8.5

802.11	b Main								
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit		RESULT		
1	2412	1	15.16	32.81	1 Watt =	30.00	dBm	PASS	
6	2437	1	15.21	33.19	1 Watt =	30.00	dBm	PASS	
11	2462	1	15.28	33.73	1 Watt =	30.00	dBm	PASS	
802.11	802.11b Main								
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit		RESULT		
1	2412	1	12.83	19.19	1 Watt =	30.00	dBm	PASS	
6	2437	1	12.91	19.54	1 Watt =	30.00	dBm	PASS	
11	2462	1	12.97	19.82	1 Watt =	30.00	dBm	PASS	

802.11	g Main								
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	ı	_imit		RESULT	
1	2412	6	21.06	127.64	1 Watt =	30.00	dBm	PASS	
6	2437	6	21.17	130.92	1 Watt =	30.00	dBm	PASS	
11	2462	6	21.39	137.72	1 Watt =	30.00	dBm	PASS	
802.11	802.11g Main								
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit		RESULT		
1	2412	6	11.84	15.28	1 Watt =	30.00	dBm	PASS	
6	2437	6	11.93	15.60	1 Watt =	30.00	dBm	PASS	
11	2462	6	11.94	15.63	1 Watt =	30.00	dBm	PASS	

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802.11	n_HT20M Main								
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit		RESULT		
1	2412	MCS0	20.98	125.31	1 Watt =	30.00	dBm	PASS	
6	2437	MCS0	21.18	131.22	1 Watt =	30.00	dBm	PASS	
11	2462	MCS0	21.22	132.43	1 Watt =	30.00	dBm	PASS	
802.11	802.11n_HT20M Main								
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit		RESULT		
1	2412	MCS0	11.86	15.35	1 Watt =	30.00	dBm	PASS	
6	2437	MCS0	11.83	15.24	1 Watt =	30.00	dBm	PASS	

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

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6dB BANDWIDTH MEASUREMENT

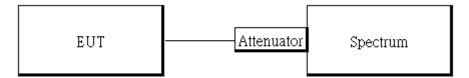
9.1 Standard Applicable

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	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				

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.

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Measurement Result

6dB Bandwidth

802.11b Main

002.11D Main							
Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result				
2412	9053	> 500	PASS				
2437	9075	> 500	PASS				
2462	8586	> 500	PASS				

802.11g Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15140	> 500	PASS
2462	15150	> 500	PASS

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15140	> 500	PASS
2462	15110	> 500	PASS

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802.11b 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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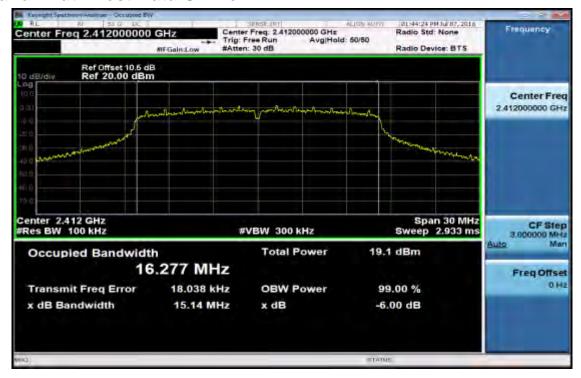


6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low

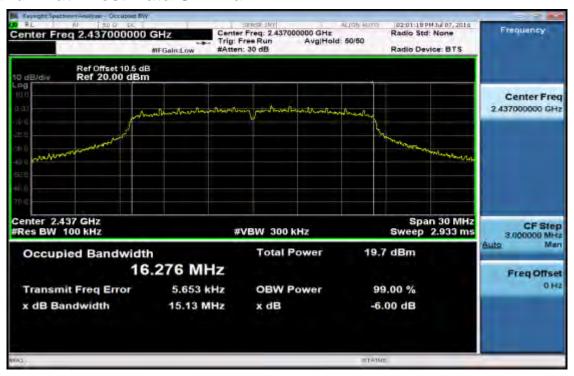


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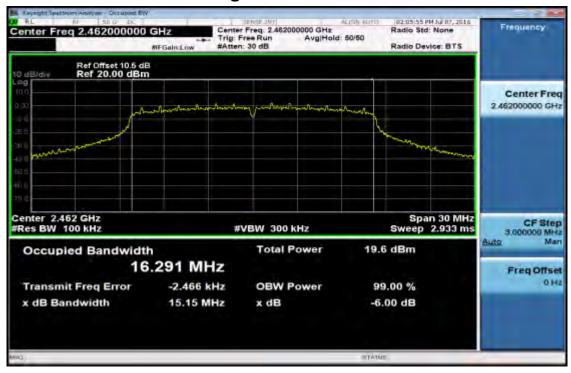
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High

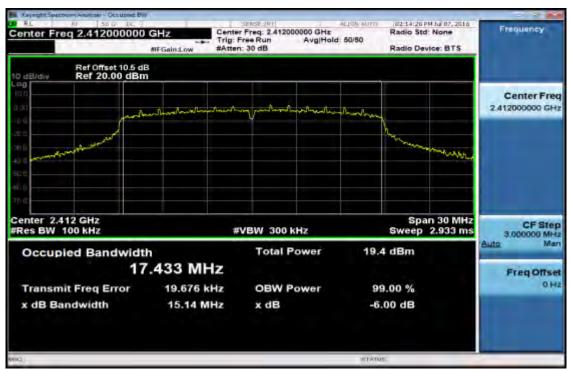


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802.11n 20M 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

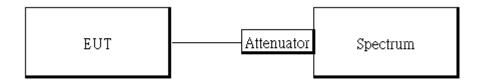
10.1 Standard Applicable

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	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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10.3.1 Measurement Procedure

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
- 6. 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.

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.

10.4 Measurement Result

Note:

- 1. Refer to next page spectrum analyzer data chart and tabular data sheets.
- 2. For restricted Band Edge Limit, please refer to section 11.5 of this report for measurement result.

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



Band Edges Test Data CH-High



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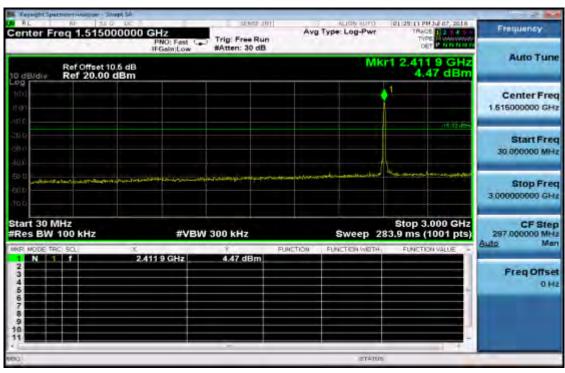
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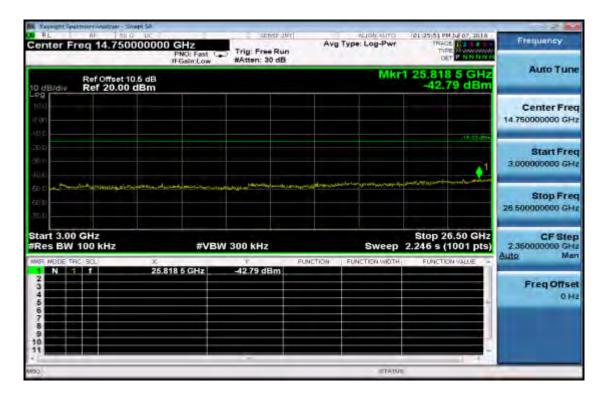
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802.11b

Spurious Emission Test Data CH-Low





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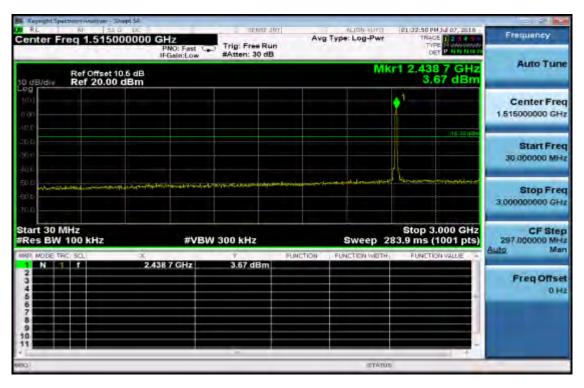
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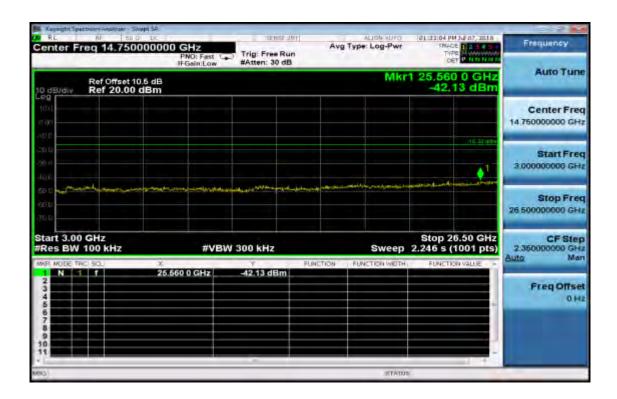
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Spurious Emission Test Data CH-Mid





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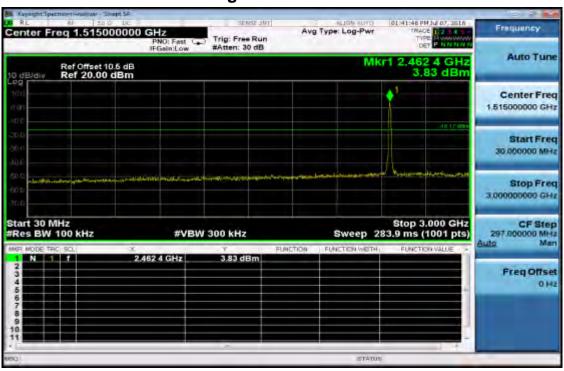
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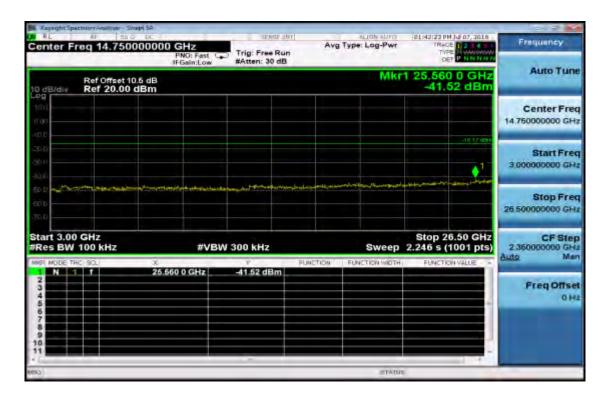
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Spurious Emission Test Data CH-High





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



Band Edges Test Data CH-High



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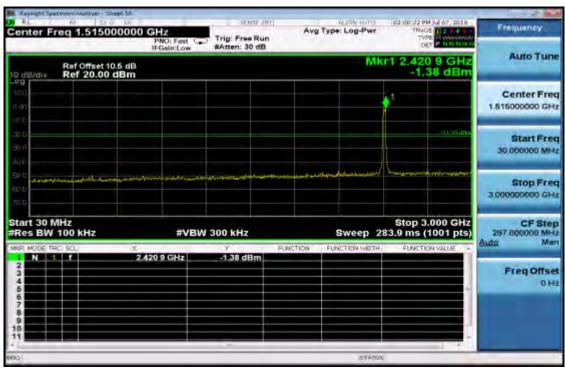
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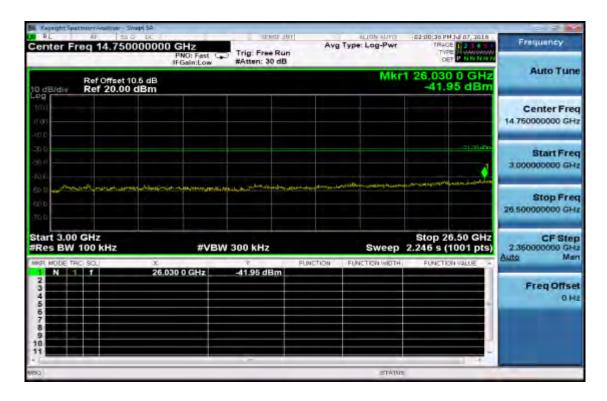
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802.11g

Spurious Emission Test Data CH-Low





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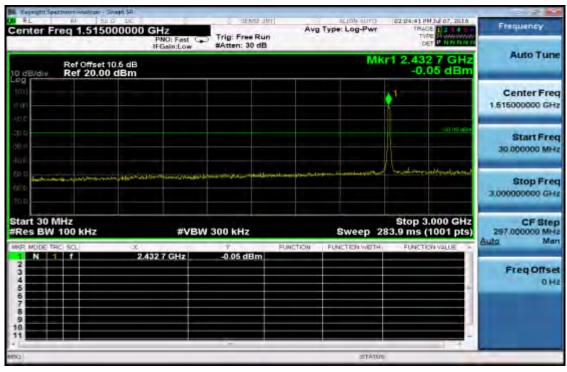
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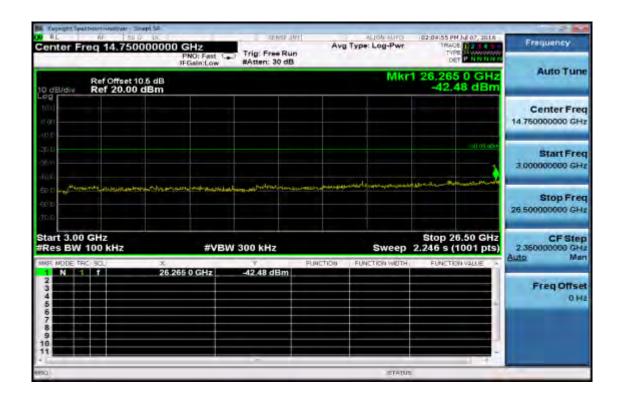
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Spurious Emission Test Data CH-Mid





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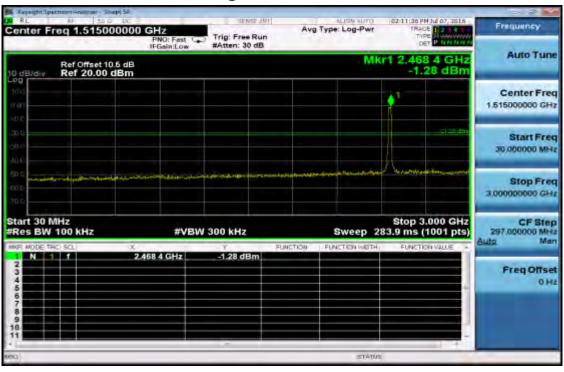
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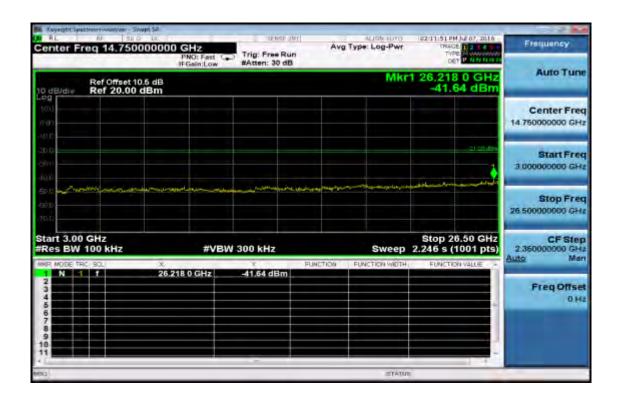
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Spurious Emission Test Data CH-High





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



Band Edges Test Data CH-High



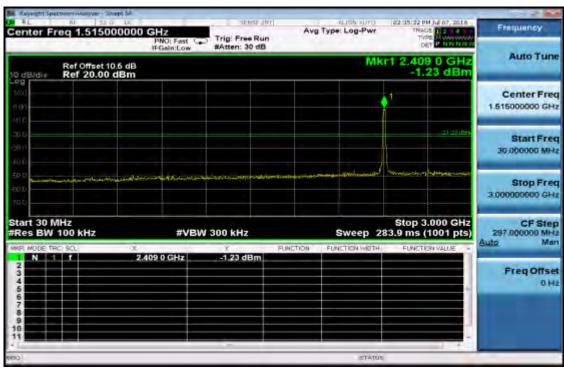
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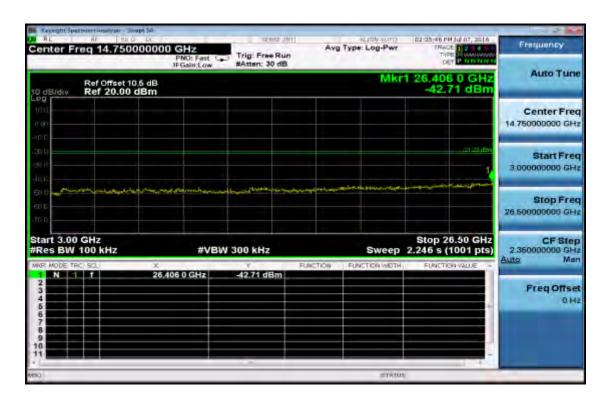
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802.11n HT20

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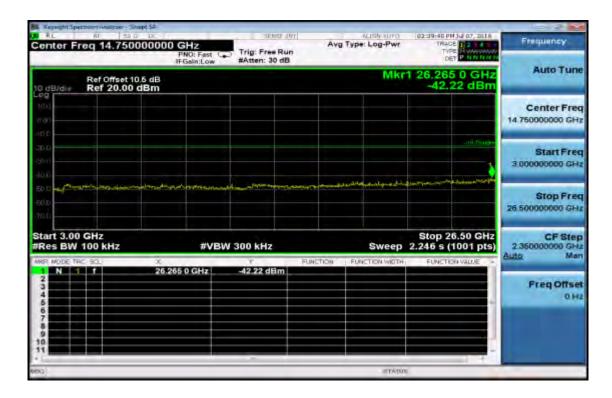
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Spurious Emission Test Data CH-Mid





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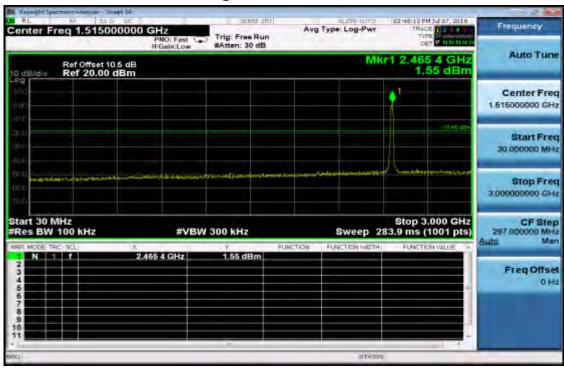
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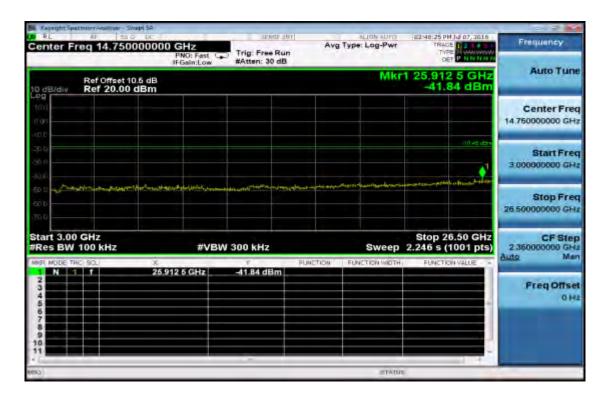
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Spurious Emission Test Data CH-High





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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 Chamber								
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	10/28/2015	10/27/2016				
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	EMC001183 0	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-26	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 Cham- ber C	SAC-C	03/04/2016	03/03/2017				
Site VSWR	SGS	966 Cham- ber 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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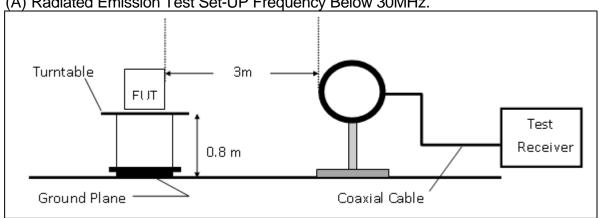
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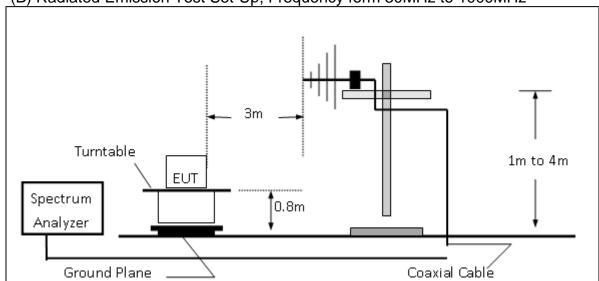


11.3 Test SET-UP

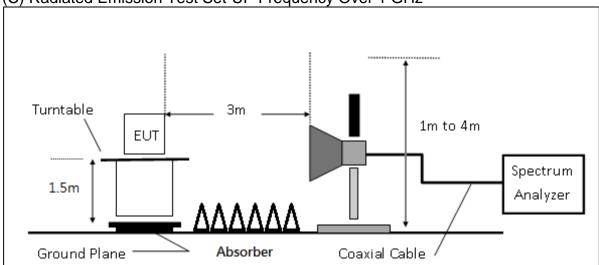
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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. Guidance.
- 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.
- 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	_	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$

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.

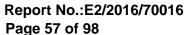
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Radiated Band Edge Measurement Result (802.11b)

Operation Mode: 802.11b Test Date: 2016/7/13

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: 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
2385.00	S	Peak	50.28	0.85	51.13	74	-22.87
2385.00	S	Average	36.60	0.85	37.45	54	-16.55
2390.00	E	Peak	49.24	0.92	50.17	74	-23.83
2390.00	E	Average	36.66	0.92	37.58	54	-16.42

Operation Mode: 802.11b Test Date: 2016/7/13

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

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

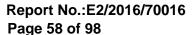
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2389.56	S	Peak	50.28	0.92	51.20	74	-22.80
2389.56	S	Average	36.93	0.92	37.85	54	-16.15
2390.00	E	Peak	49.91	0.92	50.83	74	-23.17
2390.00	E	Average	37.28	0.92	38.20	54	-15.80

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Operation Mode: Test Date: 802.11b 2016/7/13

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Н 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
2483.50	Е	Peak	49.08	1.16	50.24	74	-23.76
2483.50	E	Average	38.63	1.16	39.79	54	-14.21
2485.80	S	Peak	51.56	1.15	52.71	74	-21.29
2485.80	S	Average	40.48	1.15	41.63	54	-12.37

Test Date: Operation Mode: 802.11b 2016/7/13

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Η 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	51.29	1.16	52.45	74	-21.55
2483.50	E	Average	40.13	1.16	41.29	54	-12.71
2487.80	S	Peak	52.76	1.15	53.91	74	-20.09
2487.80	S	Average	41.11	1.15	42.26	54	-11.74

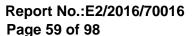
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Radiated Band Edge Measurement Result (802.11g)

Operation Mode: 802.11g Test Date: 2016/7/13

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: 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
2389.56	S	Peak	59.42	0.92	60.33	74	-13.67
2389.56	S	Average	40.89	0.92	41.81	54	-12.19
2390.00	E	Peak	58.79	0.92	59.71	74	-14.29
2390.00	Е	Average	41.21	0.92	42.13	54	-11.87

Operation Mode: Test Date: 2016/7/13 802.11g

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: Ashton BE CH Low EUT Pol.: Measurement Antenna Pol.: Н 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
	2390.00	Е	Peak	60.76	0.92	61.68	74	-12.32
	2390.00	F	Average	42.14	0.92	43.06	54	-10.94

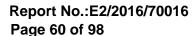
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Operation Mode: Test Date: 802.11g 2016/7/13

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Н 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
•	2483.50	Е	Peak	61.76	1.16	62.92	74	-11.08
	2483.50	Е	Average	41.74	1.16	42.90	54	-11.10

Operation Mode: 802.11g Test Date: 2016/7/13

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

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

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	63.82	1.16	64.98	74	-9.02
2483.50	Е	Average	43.66	1.16	44.82	54	-9.18

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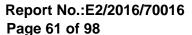
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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode: 802.11n20 Test Date: 2016/7/13

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: 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
2390.00	E	Peak	60.53	0.92	61.46	74	-12.54
2390.00	Е	Average	41.84	0.92	42.76	54	-11.24

Operation Mode: 802.11n20 Test Date: 2016/7/13

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

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

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
2389.56	S	Peak	61.41	0.92	62.33	74	-11.67
2389.56	S	Average	42.13	0.92	43.05	54	-10.95
2390.00	Е	Peak	61.03	0.92	61.95	74	-12.05
2390.00	E	Average	42.53	0.92	43.45	54	-10.55

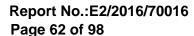
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Operation Mode: Test Date: 802.11n20 2016/7/13

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Н 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
2483.50	Е	Peak	62.31	1.16	63.47	74	-10.53
2483.50	Е	Average	41.62	1.16	42.78	54	-11.22

Operation Mode: 802.11n20 Test Date: 2016/7/13

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

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

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
2483.50	E	Peak	64.46	1.16	65.62	74	-8.38
2483.50	Е	Average	43.31	1.16	44.47	54	-9.53

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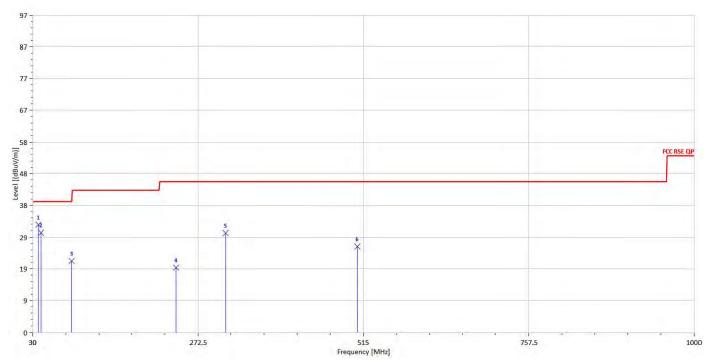
Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode: 802.11g Test Date: 2016/7/13

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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
38.73	S	Peak	44.91	-12.04	32.87	40	-7.13
42.61	S	Peak	45.11	-14.63	30.48	40	-9.52
87.23	S	Peak	41.70	-19.92	21.78	40	-18.22
240.49	S	Peak	34.97	-15.21	19.76	46	-26.24
313.24	S	Peak	42.70	-12.34	30.36	46	-15.64
506.27	S	Peak	34.34	-8.08	26.26	46	-19.74

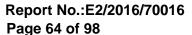
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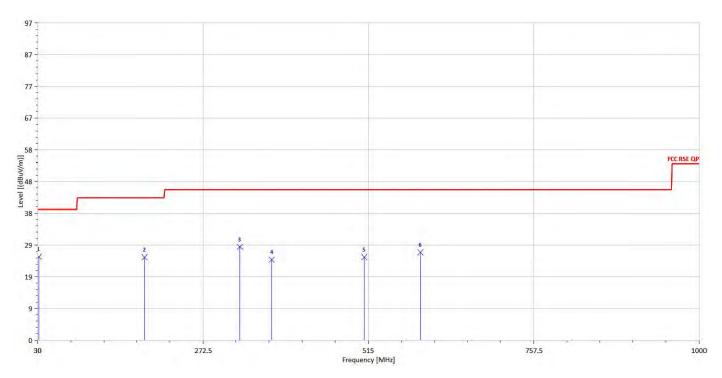
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg C/57RH

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



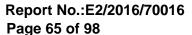
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	33.74	-8.22	25.52	40	-14.48
187.14	S	Peak	43.84	-18.43	25.41	43.5	-18.09
326.82	S	Peak	40.49	-11.99	28.50	46	-17.50
373.38	S	Peak	35.24	-10.56	24.68	46	-21.32
509.18	S	Peak	33.19	-7.75	25.44	46	-20.56
591.63	S	Peak	32.99	-6.16	26.82	46	-19.18

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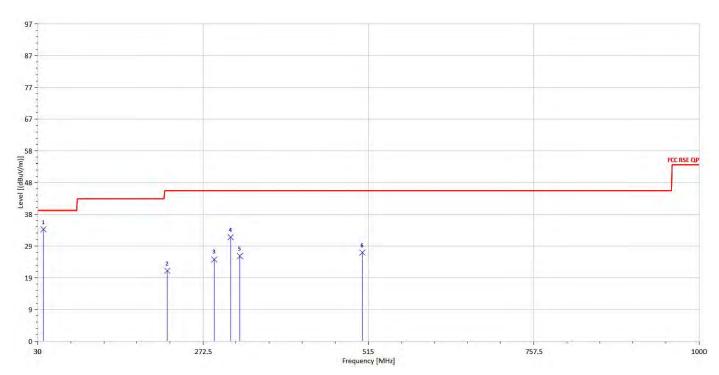
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg C/57RH

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



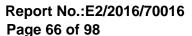
Freq.	Note	Detector	Spectum	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
38.73	S	Peak	46.26	-12.04	34.23	40	-5.77
220.12	S	Peak	38.66	-17.09	21.57	46	-24.43
288.99	S	Peak	38.36	-13.31	25.05	46	-20.95
313.24	S	Peak	44.13	-12.34	31.79	46	-14.21
326.82	S	Peak	38.02	-11.99	26.03	46	-19.97
506.27	S	Peak	35.13	-8.08	27.06	46	-18.94

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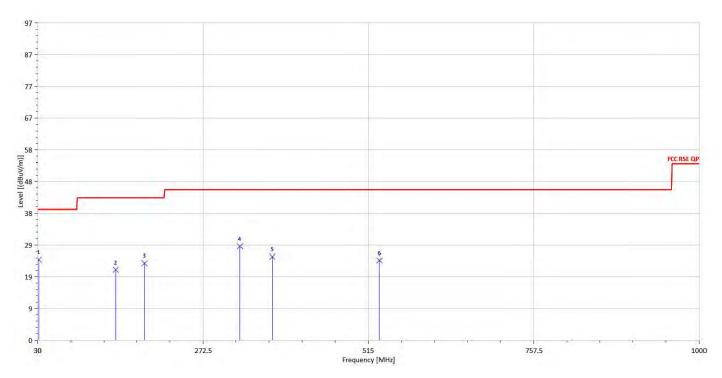
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg C/57RH

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



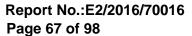
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	32.92	-8.22	24.70	40	-15.30
144.46	S	Peak	37.97	-16.39	21.58	43.5	-21.92
187.14	S	Peak	42.02	-18.43	23.59	43.5	-19.91
326.82	S	Peak	40.67	-11.99	28.68	46	-17.32
374.35	S	Peak	36.05	-10.53	25.52	46	-20.48
531.49	S	Peak	31.65	-7.22	24.43	46	-21.57

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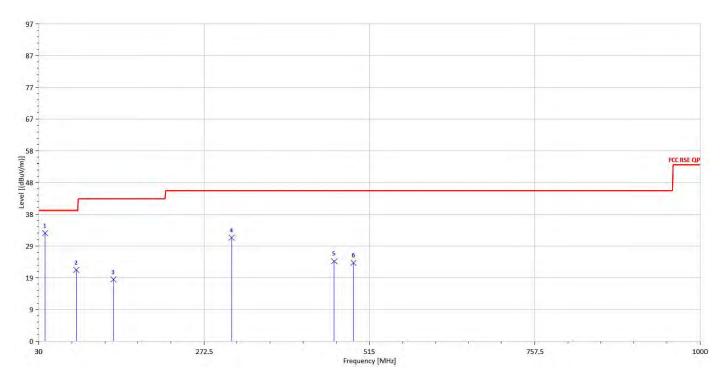
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg C/57RH

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



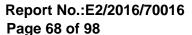
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
39.70	S	Peak	45.69	-12.63	33.06	40	-6.94
85.29	S	Peak	42.05	-20.22	21.84	40	-18.16
139.61	S	Peak	34.95	-16.02	18.93	43.5	-24.57
313.24	S	Peak	43.99	-12.34	31.65	46	-14.35
463.59	S	Peak	32.57	-8.07	24.50	46	-21.50
491.72	S	Peak	31.78	-7.76	24.01	46	-21.99

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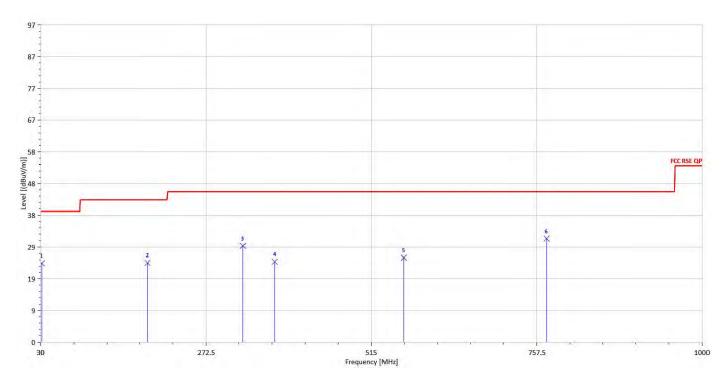
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg C/57RH

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



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	32.38	-8.22	24.16	40	-15.84
187.14	S	Peak	42.72	-18.43	24.29	43.5	-19.21
326.82	S	Peak	41.41	-11.99	29.42	46	-16.58
373.38	S	Peak	35.21	-10.56	24.64	46	-21.36
562.53	S	Peak	32.13	-6.30	25.83	46	-20.17
772.05	S	Peak	36.05	-4.41	31.65	46	-14.35

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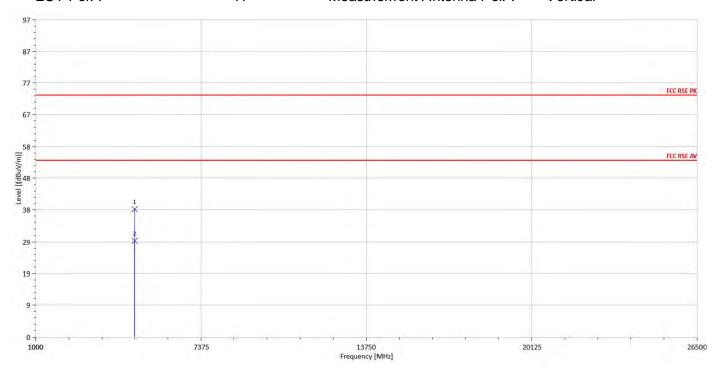
Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode: 802.11b Test Date: 2016/7/13

2412 MHz Temp. / Humi.: Fundamental Frequency: 22.7deg_C/57RH

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

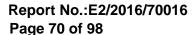


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	31.46	7.58	39.03	74	-34.97
4824.00	Н	Average	21.86	7.58	29.44	54	-24.56

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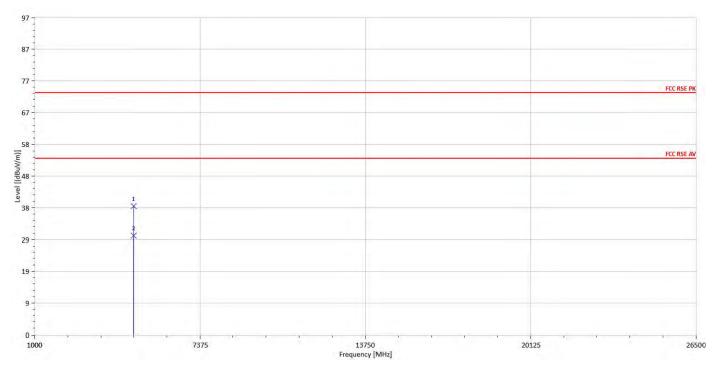
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

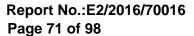
Test Engineer: Operation Band: Tx CH Low Ashton EUT Pol.: Measurement Antenna Pol. : Horizontal



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
4824.00	Н	Peak	31.80	7.58	39.38	74	-34.62
4824.00	Н	Average	22.68	7.58	30.26	54	-23.74

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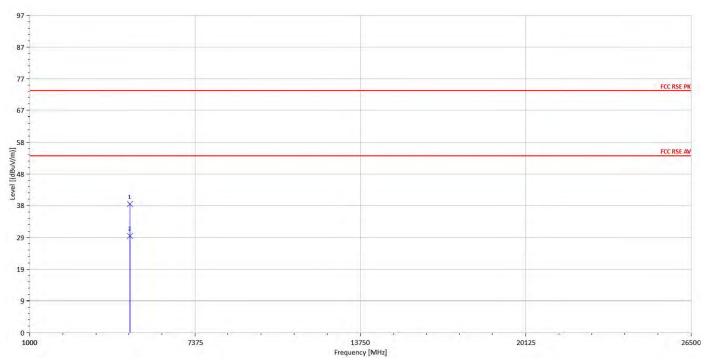




Operation Mode: Test Date: 802.11b 2016/7/13

Fundamental Frequency: Temp. / Humi.: 2437 MHz 22.7deg_C/57RH

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



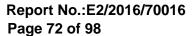
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	31.34	7.91	39.26	74	-34.74
4874.00	Н	Average	21.69	7.91	29.60	54	-24.40

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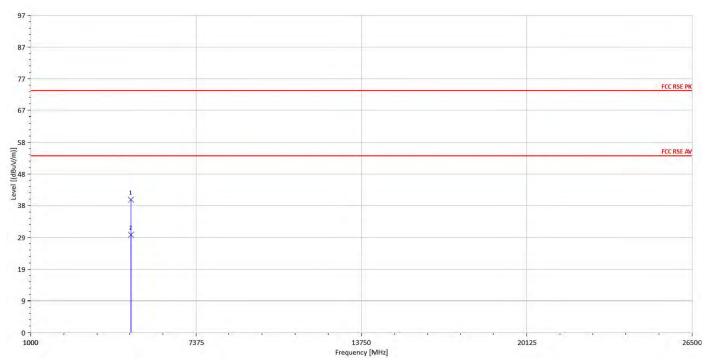




Operation Mode: Test Date: 802.11b 2016/7/13

Fundamental Frequency: Temp. / Humi.: 2437 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: Н 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	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	32.70	7.91	40.61	74	-33.39
4874.00	Н	Average	22.02	7.91	29.93	54	-24.07

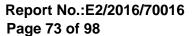
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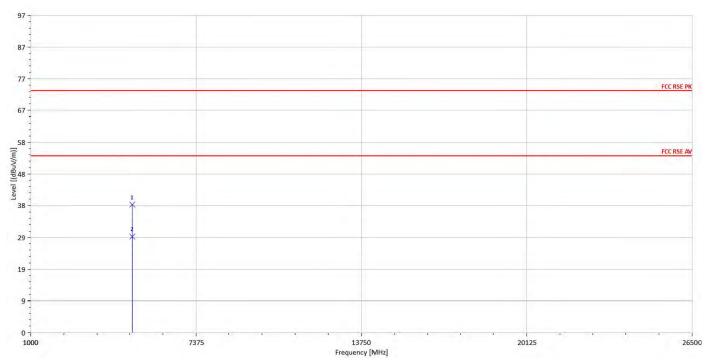




Operation Mode: Test Date: 802.11b 2016/7/13

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: **Ashton** EUT Pol.: Η 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	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	31.16	7.92	39.08	74	-34.92
4924.00	Н	Average	21.42	7.92	29.34	54	-24.66

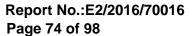
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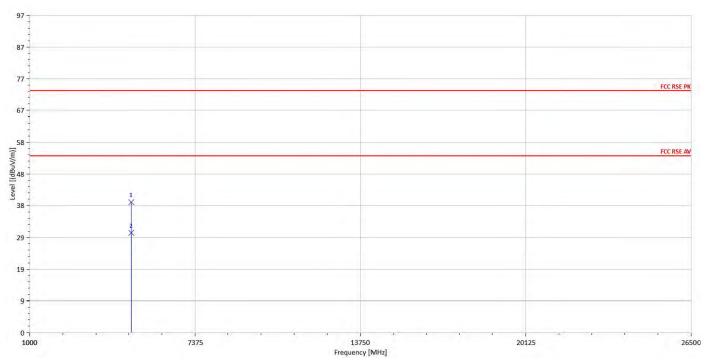




Operation Mode: Test Date: 802.11b 2016/7/13

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: **Ashton** EUT Pol.: Η 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	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	31.89	7.92	39.81	74	-34.19
4924.00	Н	Average	22.57	7.92	30.49	54	-23.51

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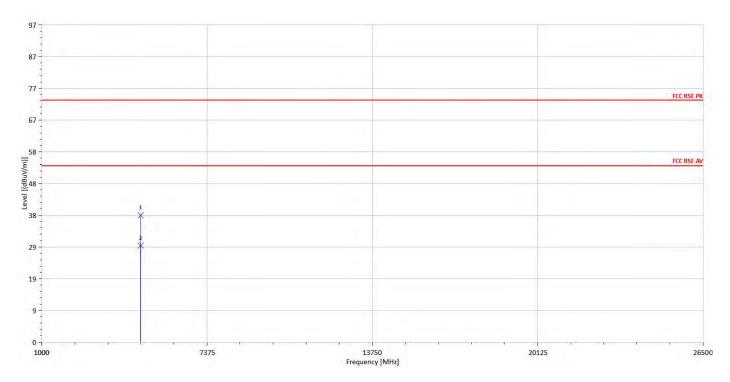


Radiated Spurious Emission Measurement Result (802.11 g)

Test Date: Operation Mode: 802.11g 2016/7/13

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

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

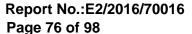


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	31.27	7.58	38.85	74	-35.15
4824.00	Н	Average	21.98	7.58	29.56	54	-24.44

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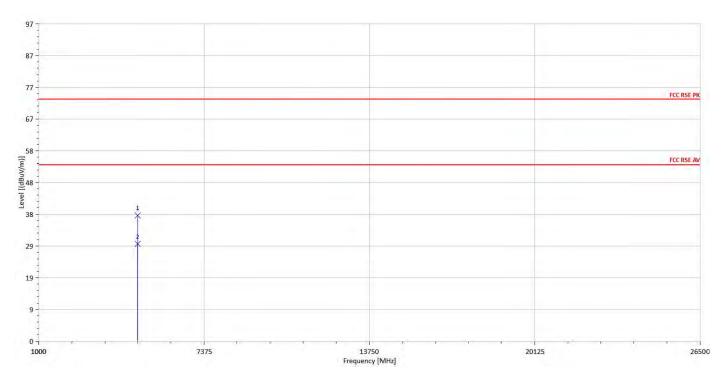
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg C/57RH

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



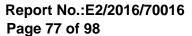
	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
-	4824.00	Н	Peak	30.92	7.58	38.49	74	-35.51
	4824.00	Н	Average	22.17	7.58	29.75	54	-24.25

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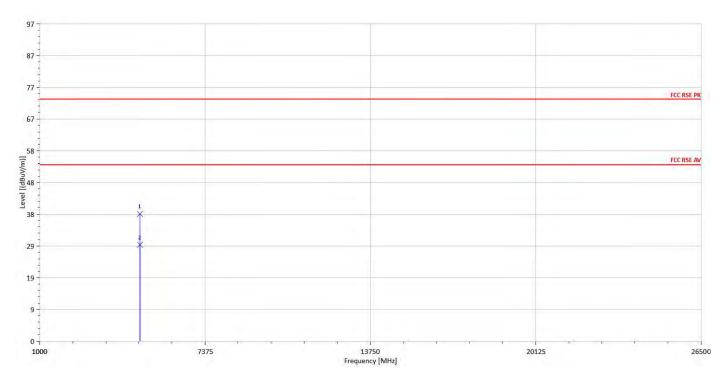
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg C/57RH

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



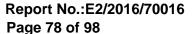
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	31.05	7.91	38.96	74	-35.04
4874.00	Н	Average	21.55	7.91	29.46	54	-24.54

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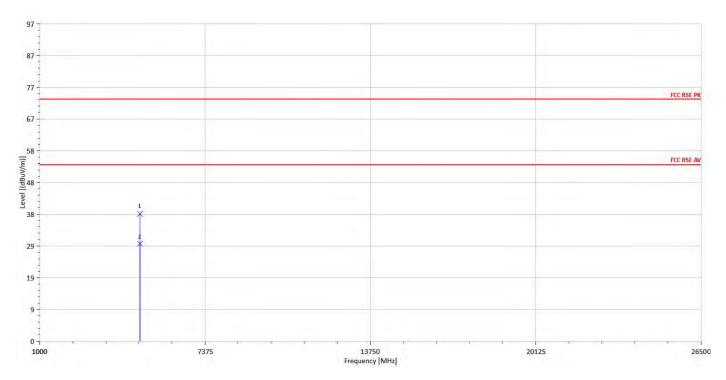
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: Η 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
4874.00	Н	Peak	31.09	7.91	39.01	74	-34.99
4874.00	Н	Average	21.86	7.91	29.77	54	-24.23

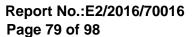
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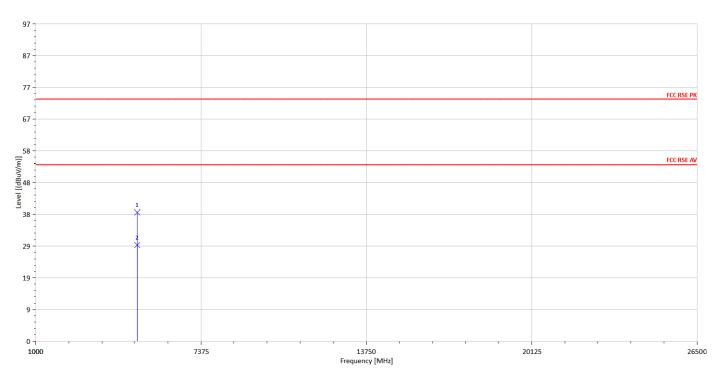
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg C/57RH

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

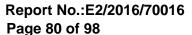


	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
•	4924.00	Н	Peak	31.50	7.92	39.42	74	-34.58
	4924.00	Н	Average	21.45	7.92	29.37	54	-24.63

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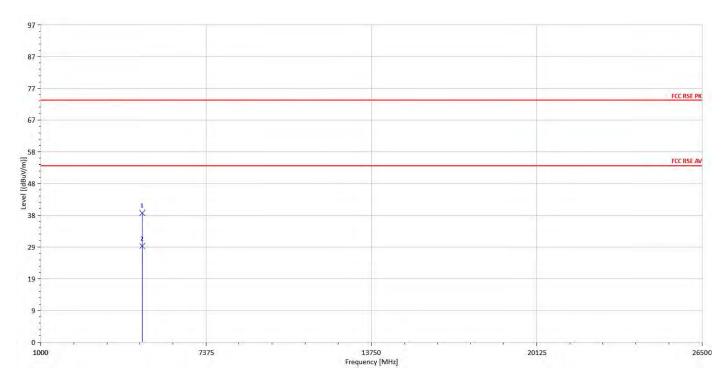
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg C/57RH

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



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
4924.00	Н	Peak	31.61	7.92	39.53	74	-34.47
4924.00	Н	Average	21.45	7.92	29.37	54	-24.63

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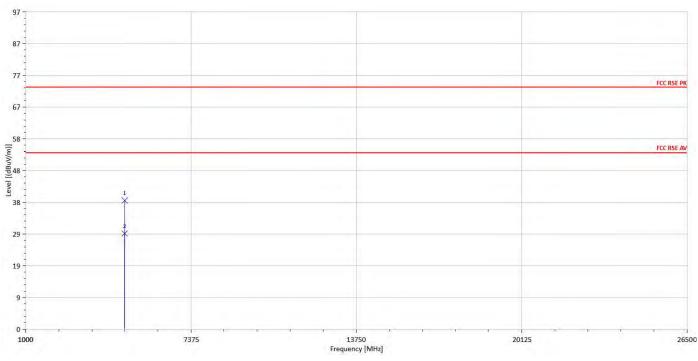


Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode: 802.11n20 Test Date: 2016/7/13

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

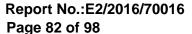
Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	31.82	7.58	39.40	74	-34.60
4824.00	Н	Average	21.65	7.58	29.23	54	-24.77

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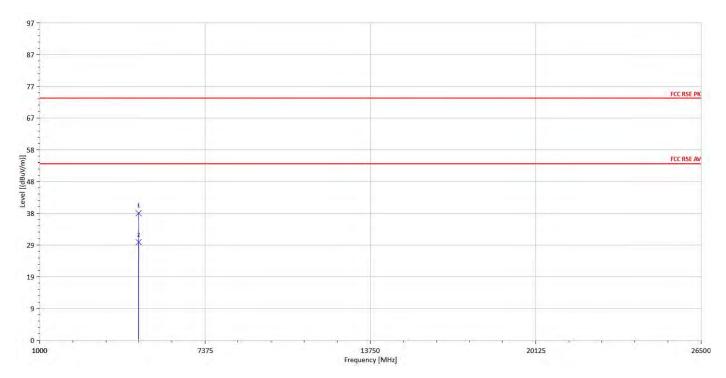
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Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg C/57RH

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



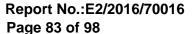
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4824.00	Н	Peak	31.31	7.58	38.89	74	-35.11
4824.00	Н	Average	22.37	7.58	29.95	54	-24.05

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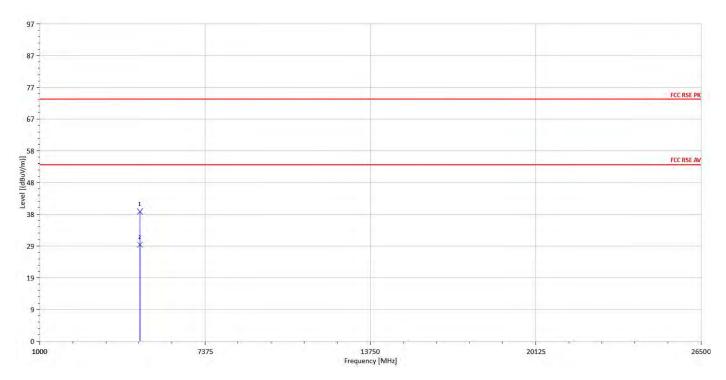
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg C/57RH

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

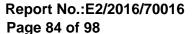


Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	31.74	7.91	39.65	74	-34.35
4874.00	Н	Average	21.59	7.91	29.50	54	-24.50

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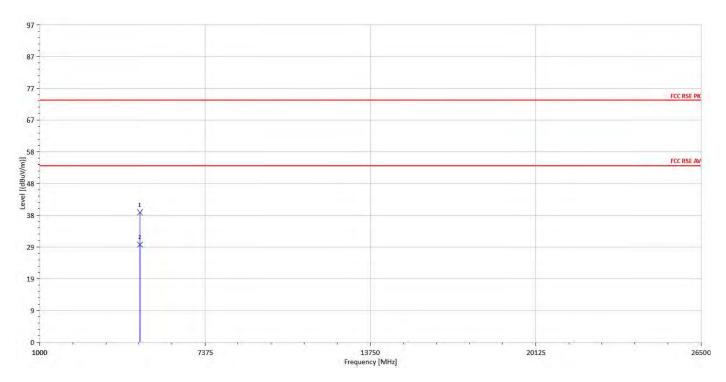
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Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: Measurement Antenna Pol.: Η 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	
•	4874.00	Н	Peak	31.81	7.91	39.72	74	-34.28	
	4874.00	Н	Average	21.92	7.91	29.83	54	-24.17	

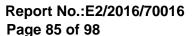
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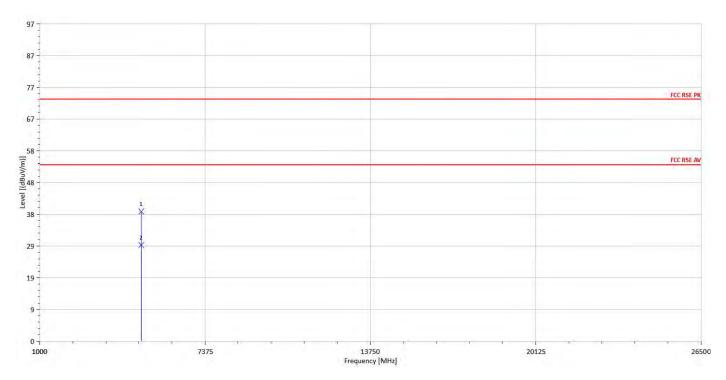
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg C/57RH

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



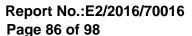
Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	31.77	7.92	39.69	74	-34.31
4924.00	Н	Average	21.44	7.92	29.36	54	-24.64

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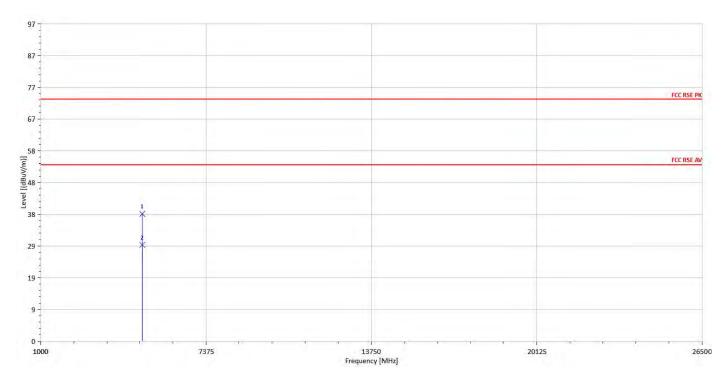
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Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg C/57RH

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



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
4924.00	Н	Peak	31.07	7.92	38.99	74	-35.01
4924.00	Н	Average	21.50	7.92	29.42	54	-24.58

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12 PEAK POWER SPECTRAL DENSITY

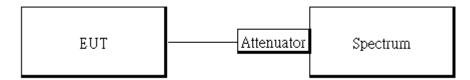
12.1 Standard Applicable

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

- 1. 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 = 3 kHz. & the VBW = 10 kHz
- 5. For defining Restricted Band Edge Limit: Set the RBW = 100kHz & VBW = 300 kHz.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level.

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12.5 Measurement Result

POWER DENSITY 802.11b MODE				
Frequency	RF Power	Maximum		
(MHz)	Density	Limit	Result	
(1711-12)	(dBm)	(dBm)		
2412	-8.85	8.00	PASS	
2437	-9.59	8.00	PASS	
2462	-9.81	8.00	PASS	

POWER DENSITY 802.11g MODE				
Frequency	RF Power	Maximum		
(MHz)	Density	Limit	Result	
(1011 12)	(dBm)	(dBm)		
2412	-13.06	8.00	PASS	
2437	-13.15	8.00	PASS	
2462	-12.72	8.00	PASS	

POWER D	POWER DENSITY 802.11n HT20 MODE			
Frequency	RF Power	Maximum		
(MHz)	Density	Limit	Result	
(1011 12)	(dBm)	(dBm)		
2412	-13.49	8.00	PASS	
2437	-12.53	8.00	PASS	
2462	-12.73	8.00	PASS	

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Banded	Bandedge Limit 802.11b MODE				
Frequency	RF Power	Bandedge			
(MHz)	Density	Limit			
(IVIITIZ)	(dBm)	(dBm)			
2412	4.78	-15.22			
2462	5.39	-14.61			

Banded	Bandedge Limit 802.11g MODE				
Frequency	RF Power	Bandedge			
(MHz)	Density	Limit			
(IVITIZ)	(dBm)	(dBm)			
2412	1.93	-18.07			
2462	2.57	-17.43			

Bandedg	Bandedge Limit 802.11 n20 MODE				
Frequency	RF Power	Bandedge			
(MHz)	Density	Limit			
(IVIITIZ)	(dBm)	(dBm)			
2412	2.29	-17.71			
2462	2.22	-17.78			

^{*}Refer to next page for plots

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Member of SGS Group



802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)



802.11g **Power Spectral Density Test Plot (CH-Low)**



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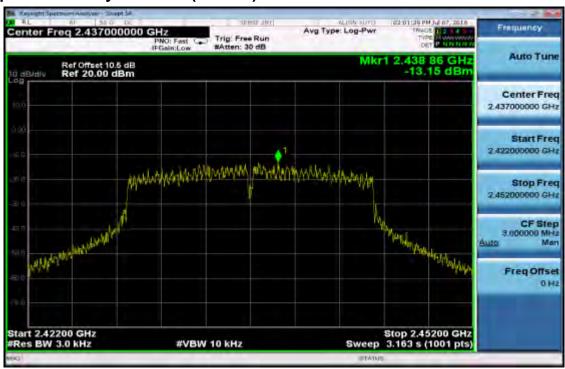
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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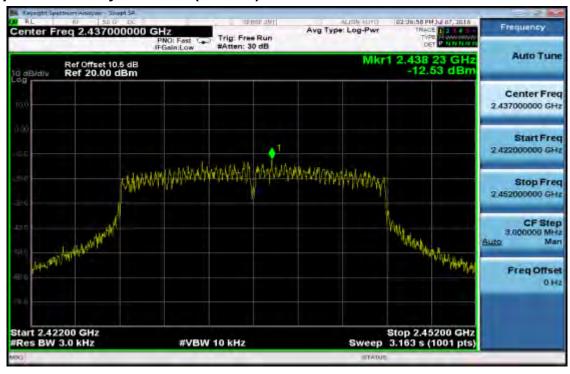


802.11n HT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

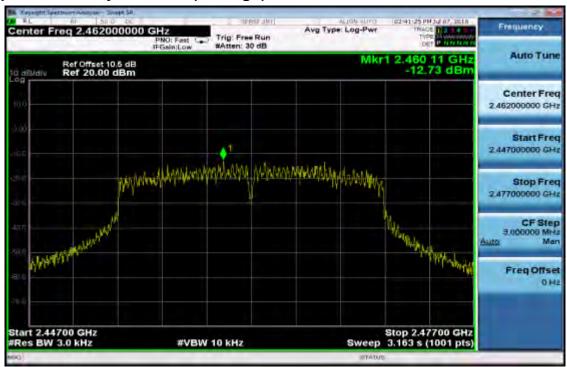


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Power Spectral Density Test Plot (CH-High)



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802.11b Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High



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802.11g Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



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802.11 n HT20

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (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.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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