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1 Cover Page

RF TEST REPORT

Application No.:	SHEM1706003745CR				
Applicant:	Shanghai PartnerX Robotics Co., Ltd.				
FCC ID:	AJ5L-R201				
IC:	22130-R201				
Equipment Under Tes NOTE: The following sa	t (EUT): umple(s) was/were submitted and identified by the client as				
Product Name:	Abilix Robotics U				
Model No.(EUT):	Robotics 201				
Standards:	FCC PART 15 Subpart C: 2016 RSS-247 Issue 2 (February 2017) RSS-Gen Issue 4 (November 2014)				
Date of Receipt:	2017-06-07				
Date of Test:	2017-07-03 to 2017-07-10				
Date of Issue:	2017-07-13				
Test Result:	Pass*				

^{*}In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Parlam Zhan

E&E Section Manager

SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record									
Version Chapter Date Modifier Remark									
00	/	2017-07-11	/	Original					

Authorized for issue by:			
Tested By	Leon wu	2017-07-10	
	Leon Wu /Project Engineer	Date	
Checked By	Parlam Zhan	2017-07-10	
	Parlam Zhan /Reviewer	Date	



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2 Test Summary

Test Item	FCC Requirement	IC Requirement	Test method	Result
Antenna Requirement	FCC Part 15, Subpart C Section 15.203/15.247 (c)	RSS-Gen Section8.1.3		PASS
AC Power Line Conducted Emission	FCC Part 15, Subpart C Section 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	PASS
Minimum 6dB Bandwidth	FCC Part 15, Subpart C Section 15.247 (a)(2)	RSS-247 Clause 5.2(1)	ANSI C63.10 (2013) Section 11.8.1	PASS
Conducted Peak Output Power	FCC Part 15, Subpart C Section 15.247 (b)(3)	RSS-247 Clause 5.4(4)	ANSI C63.10 (2013) Section 11.9.1.2	PASS
Power Spectrum Density	FCC Part 15, Subpart C Section 15.247 (e)	RSS-247 Clause 5.2(2)	ANSI C63.10 (2013) Section 11.10.2	PASS
RF Conducted Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11&11.13.3.2	PASS
Radiated Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.209&15.205	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 6.4&6.5&6.6&6.10	PASS
99% Occupied bandwidth		RSS-Gen Clause 6.6	RSS-Gen Issue 4 section 6.6	PASS



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4 General Information

4.1 Client Information

Applicant:	Shanghai PartnerX Robotics Co., Ltd.						
Address of Applicant:	8thFloor, Building90, No.1122 North Qinzhou Rd.Shanghai,China 200233						
Manufacturer:	Shanghai PartnerX Robotics Co., Ltd.						
Address of Manufacturer:	8thFloor, Building90, No.1122 North Qinzhou Rd.Shanghai,China 200233						
Factory:	Shanghai PartnerX Robotics Co., Ltd.						
Address of Factory:	The West Side Of 2rd Floor, Building 9, No. 628 Jiuxin Highway.Shanghai,China 201615						

4.2 General Description of E.U.T.

Product Description:		Portable product with WiFi function			
Rated Input:		DC7.4V 1500mAh rechargeable Li-ion battery AC120V, 50Hz by adapter			
	Manufacturer:	Xinsu Global Electronic Co.,Ltd			
	Model No.:	XSG0841000US			
Adapter	Rated Input:	AC 100-240V 50/60Hz 50VA			
	Only In a state	AC port:	0 cm (2wires)		
	Cable length:	DC port:	100 cm		

4.3 Technical Specifications

Operation Frequency:	802.11 b/g/n(HT20): 2412MHz-2462MHz
operation requestoy.	802.11n(HT40):2422MHz-2452MHz
Modulation Technique:	802.11 b DSSS(CCK, DQPSK, DBPSK)
Wodulation rechilique.	802.11 g/n(HT20,HT40) OFDM(64QAM, 16QAM, QPSK, BPSK)
	802.11b: 1/2/5.5/11Mbps
Data Rate:	802.11g: 6/9/12/18/24/36/48/54Mbps
Dala Hale.	802.11n(HT20): 6.5/13/19.5/26/39/52/58.5/65Mbps
	802.11n(HT40): 13.5/27/40.5/54/81/108/121.5/135Mbps
Number of Channels	802.11 b/g/n(HT20): 11
Number of Channel:	802.11 n(HT40): 7
Antenna Type:	PCB Antenna
Antenna Gain:	-1 dBi



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4.4 Test Mode

Test Mode	Description of Test Mode
Franks ankan Mada	Using test software to control EUT working in continuous transmitting and select
Engineering Mode:	channel and modulation type

4.5 Test Channel

	802.11 b/g/n20(HT20)				802.11 n40(HT40)			
	Channel	Data rate		Channel Frequency I		Data rate		
	Chamer	Frequency	b	g	n(HT20)	Chamilei	rrequericy	Dala Tale
lowest channel	CH01	2412MHz	1Mbps	6Mbps	MCS0	CH03	2422MHz	MCS0
Middle channel	CH06	2437MHz	1Mbps	6Mbps	MCS0	CH06	2437MHz	MCS0
Highest channel	CH11	2462MHz	1Mbps	6Mbps	MCS0	CH09	2452MHz	MCS0

Remark: Preliminary tests were performed in all tests in different data rata and antenna configurations at lowest channel, the data rates of worse case as above were chosen for final test.

4.6 Description of Support Units

The EUT has been tested independently.

4.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678



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4.8 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively.

4.9 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	< ±1 x 10 ⁻⁵
2	Total RF power, conducted	< ±1.5 dB
3	RF power density, conducted	< ±3 dB
4	Spurious emissions, conducted	< ±3 dB
5	All emissions, radiated	< ±6 dB (Below 1GHz) < ±6 dB (Above 1GHz)
6	Temperature	< ±1°C
7	Humidity	< ±5 %
8	DC and low frequency voltages	< ±3 %



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5 Equipments Used during Test

	•					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	Spectrum Analyzer	R&S	FSP-30	2705121009	2017-01-14	2018-01-13
2	Spectrum Analyzer	Agilent	N9020A	MY51240197	2017-07-03	2018-07-02
3	Power meter	R&S	NRP	101641	2017-01-14	2018-01-13
4	Power Sensor	R&S	NRP-Z22	101096	2016-08-06	2017-08-05
5	Signal Generator	R&S	SMR40	100555	2017-07-03	2018-07-02
6	Signal Generator	Agilent	N5182A	MY50143776	2017-07-03	2018-07-02
7	Communication Tester	R&S	CMW500	1201.0002K75	2016-12-24	2017-12-23
8	Switcher	Tonscend	JS0806	JS0806-2	/	/
9	Splitter	Anritsu	MA1612A	M12265	/	/
10	Coupler	e-meca	803-S-1	900-M01	/	/
11	High-low Temperature Cabinet	Suzhou Zhihe	TL-40	50110050	2016-09-11	2017-09-10
12	AC Power Stabilizer	WOCEN	6100	51122	2017-01-14	2018-01-13
13	DC Power Supply	QJE	QJ30003SII	3573/4/3	2017-01-14	2018-01-13
14	EMI Test Receiver	R&S	ESU40	100109	2017-02-13	2018-01-15
15	Active Loop Antenna (9kHz to 30MHz)	R&S	FMZB1519	1519-034	2017-02-13	2018-01-15
16	Broadband Antenna (25MHz to 2GHz)	Schwarzbeck	VULB9168	9168-313	2017-02-13	2018-01-15
17	Broadband Antenna (25MHz to 3GHz)	R&S	HL562	100227	2016-08-30	2017-08-29
18	Horn Antenna (1 -18GHz)	R&S	HF906	100284	2017-02-13	2018-01-15
19	Horn Antenna (1 - 18GHz)	Schwarzbeck	BBHA9120D	9120D-679	2017-02-13	2018-01-15
20	Horn Antenna (14 - 40GHz)	Schwarzbeck	BBHA 9170	BBHA917-0373	2017-02-13	2018-01-15
21	Pre-amplifier (9KHz – 2GHz)	LNA6900	TESEQ	71033	2017-02-13	2018-01-15
22	Pre-amplifier (1 – 26.5GHz)	Schwarzbeck	SCU-F0118- G40-BZ4-CSS(F)	10001	2017-01-14	2018-01-13
23	Pre-amplifier (14 – 40GHz)	Schwarzbeck	SCU-F1840- G35-BZ3-CSS(F)	10001	2017-01-14	2018-01-13
24	Tunable Notch Filter	Wainwright	WRCT800.0/880 .0-0.2/40-5SSK	170397 169777 169780 192507	/	/
25	High pass Filter	FSCW	HP 12/2800- 5AA2	19A45-02	/	/
26	EMI test receiver	Rohde & Schwarz	ESR7	101391	2016-12-29	2017-12-28
27	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127490	2017-01-14	2018-01-13
28	Line impedance stabilization network	EMCO	3816/2	00034161	2017-01-14	2018-01-13

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6 Test Results

6.1 E.U.T. test conditions

Requirements:

15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:

· · · · · · · · · · · · · · · · · · ·	
Temperature:	20.0 -25.0 °C
Humidity:	35-75 % RH
Atmospheric Pressure:	99.2 -102 kPa

Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. if required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which	Number of	Location in the range of
device operates	frequencies	operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top. 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported.



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6.2 Antenna Requirement

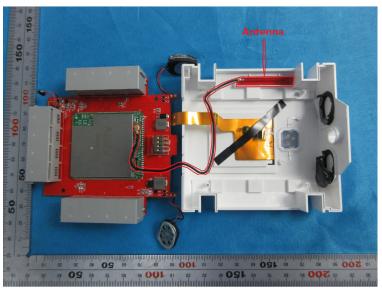
Standard requirement:

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

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Integral Antenna and no consideration of replacement. The gain of the antenna is less than -1 dBi





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6.3 Conducted Emissions on Mains Terminals

Frequency Range: 15

150 KHz to 30 MHz

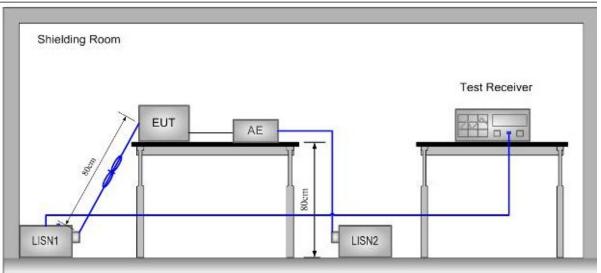
Limit:

Frequency range	Class B Lim	nits: dB (µV)
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

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test Setup:



Ground Reference Plane

Test Procedure:

- 1) The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated

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equipment were at least 0.8 m from the LISN.

Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Pretest under all modes; choose the worst case mode (802.11b in Middle channel) record on the report. Please see the attached Quasi-peak and Average test results.

Test Result: Pass

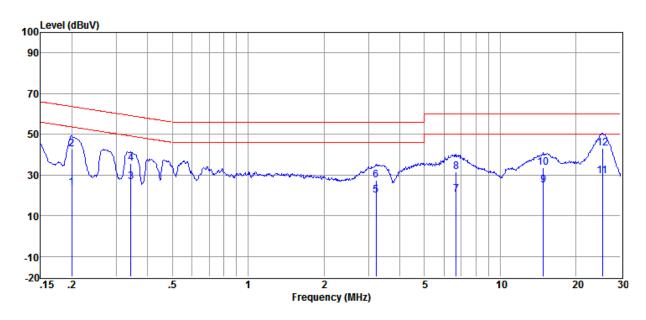


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Test Data:

Test Mode:	802.11b	Test Channel:	Middle
Test Port:	AC Live Line		



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.200	13.97	0.09	9.81	23.87	53.62	-29.75	Average
2	0.200	32.78	0.09	9.81	42.68	63.62	-20.94	QP
3	0.343	16.71	0.09	9.81	26.61	49.13	-22.52	Average
4	0.343	25.79	0.09	9.81	35.69	59.13	-23.44	QP
5	3.224	10.15	0.12	9.85	20.12	46.00	-25.88	Average
6	3.224	17.44	0.12	9.85	27.41	56.00	-28.59	QP
7	6.698	10.50	0.17	9.86	20.53	50.00	-29.47	Average
8	6.698	21.37	0.17	9.86	31.40	60.00	-28.60	QP
9	14.828	14.71	0.22	10.01	24.94	50.00	-25.06	Average
10	14.828	23.42	0.22	10.01	33.65	60.00	-26.35	QP
11	25.456	19.03	0.42	10.04	29.49	50.00	-20.51	Average
12	25.456	32.48	0.42	10.04	42.94	60.00	-17.06	QP

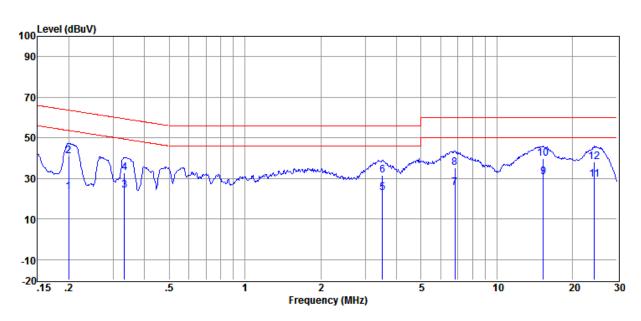
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Test Port: AC Neutral Line



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.200	13.27	0.05	9.81	23.13	53.62	-30.49	Average
2	0.200	30.97	0.05	9.81	40.83	63.62	-22.79	QP
3	0.332	14.36	0.04	9.81	24.21	49.40	-25.19	Average
4	0.332	22.98	0.04	9.81	32.83	59.40	-26.57	QP
5	3.509	12.99	0.13	9.85	22.97	46.00	-23.03	Average
6	3.509	21.50	0.13	9.85	31.48	56.00	-24.52	QP
7	6.805	15.48	0.19	9.86	25.53	50.00	-24.47	Average
8	6.805	25.37	0.19	9.86	35.42	60.00	-24.58	QP
9	15.307	20.51	0.26	10.02	30.79	50.00	-19.21	Average
10	15.307	29.39	0.26	10.02	39.67	60.00	-20.33	QP
11	24.400	19.09	0.37	10.04	29.50	50.00	-20.50	Average
12	24.400	27.92	0.37	10.04	38.33	60.00	-21.67	QP

Remark: Level = Read Level + LISN/ISN Factor + Cable Loss.

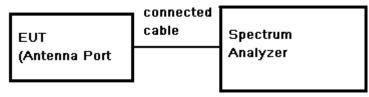


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6.4 6dB Occupied Bandwidth

Test Configuration:



Test Procedure:

- 1) Place the EUT on the table and set it in transmitting mode.
- 2) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3) Set the spectrum analyzer as RBW=100KHz, VBW≥3* RBW, Detector=Peak, Trace mode= Max hold, Sweep=Auto couple.
- 4) Mark the peak frequency and -6dB (upper and lower) frequency.
- 5) Repeat above procedures until all frequency measured was complete.

Limit: ≥ 500 kHz

Test Result: Pass

Test Data:



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6.5 Conducted Peak Output Power

Test Configuration:

EUT
(Antenna Port

Connected cable Spectrum Analyzer

Test Procedure:

- 1) Place the EUT on the table and set it in transmitting mode.
- 2) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.
- 3) Set the spectrum analyzer as RBW=1MHz, VBW≥3* RBW, Detector=Peak, Span≥1.5 × DTS bandwidth, Trace mode= Max hold, Sweep=Auto couple
- 4) Allow trace to fully stabilize.
- 5) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges
- 6) Record the max. Power channel reading.
- 7) Repeat above procedures until all the frequency measured were complete.

Test Limit: 30dBm
Test Result: Pass

Test Data:



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6.6 Peak Power Spectral Density

Test Configuration:

Connected cable Spectrum

(Antenna Port Analyzer

Test Procedure:

- 1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- Set the spectrum analyzer: Center Frequency= Channel Frequency, RBW
 = 3 kHz VBW = 10 kHz. Span= 1.5 times the DTS bandwidth, Sweep = auto; Detector = Peak; Trace mode=max hold, Trace=Max hold.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- 4) Record the marker level for the particular mode.
- 5) Repeat these steps for other channel and modes.

Test Limit: 8dBm/3kHz

Test Result: Pass

Test Data:



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6.7 Conducted Spurious Emissions and Band-edge

Test Configuration:

EUT
(Antenna Port

connected
cable
Spectrum
Analyzer

Test Procedure:

- 1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW = 100KHz. VBW = 300KHz. Sweep = auto; Detector Function = Peak (Max. hold).

Limit:

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the Highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with

the peak conducted power limits.

Test Result: Pass

6.7.1 Conducted spurious emission

Refer to Appendix A for SHEM170600374503

6.7.2 Conducted Band-edge



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6.8 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m

Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Abovo 1CUz	Peak	RBW=1MHz	VBW≥RBW
Above 1GHz	Average	NDVV=1IVINZ	VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)
0.009MHz-0.490MHz	2400/F(KHz)	128.5 ~ 93.8
0.490MHz-1.705MHz	24000/F(KHz)	73.8 ~63.0
1.705MHz-30MHz	30	69.5
30MHz-88MHz	100	40.0
88MHz-216MHz	150	43.5
216MHz-960MHz	200	46.0
960MHz-1GHz	500	54.0
Above 1GHz	500	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Configuration:

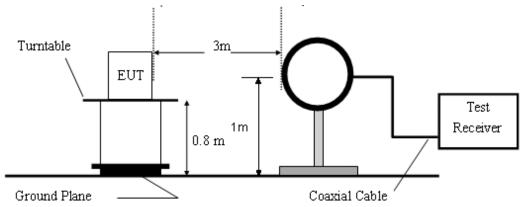


Figure 1. Below 30MHz radiated emissions test configuration

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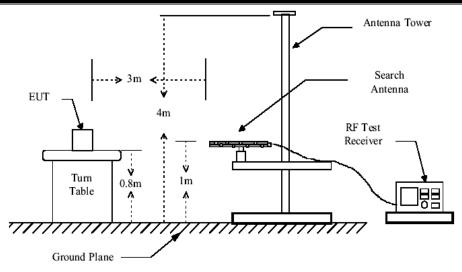


Figure 2. 30MHz to 1GHz radiated emissions test configuration

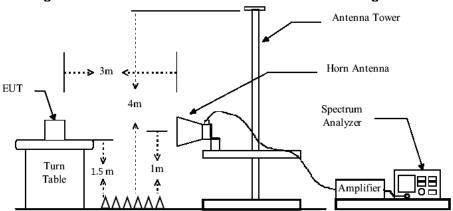


Figure 3. Above 1GHz radiated emissions test configuration

Test Procedure:

- 1) The procedure used was ANSI Standard C63.10. The receiver was scanned from 9 KHz to 25GHz.When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
- 2) Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz. We did not use any amplifier or filter between 1G and 3GHz.
- 3) Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
 - a) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And

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above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.

- b) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 4) Pretest under all modes below 1GHz; choose the worst case mode (802.11b) record on the report.
- 5) No spurious emissions were detected within 20dB of limit below 30MHz.

Test Result: Pass



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6.8.1 Radiated Spurious Emissions

30MHz-1GHz:

Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
1	170.79	61.86	11.62	42.54	0.65	31.59	43.50	-11.91	QP	Horizontal
2	205.68	71.68	9.66	42.49	0.70	39.55	43.50	-3.95	QP	Horizontal
3	228.49	73.21	10.64	42.45	0.74	42.14	46.00	-3.86	QP	Horizontal
4	263.82	70.10	11.99	42.41	0.79	40.47	46.00	-5.53	QP	Horizontal
5	533.83	54.87	18.00	42.15	1.25	31.97	46.00	-14.03	QP	Horizontal
6	719.20	55.02	20.56	42.40	1.75	34.93	46.00	-11.07	QP	Horizontal
1	158.11	61.80	12.90	42.56	0.63	32.77	43.50	-10.73	QP	Vertical
2	202.81	64.47	9.53	42.49	0.70	32.21	43.50	-11.29	QP	Vertical
3	263.82	67.35	11.99	42.41	0.79	37.72	46.00	-8.28	QP	Vertical
4	336.04	53.32	13.94	42.24	0.90	25.92	46.00	-20.08	QP	Vertical
5	526.40	53.30	17.83	42.15	1.23	30.21	46.00	-15.79	QP	Vertical
6	958.79	51.18	23.36	41.70	2.66	35.50	46.00	-10.50	QP	Vertical

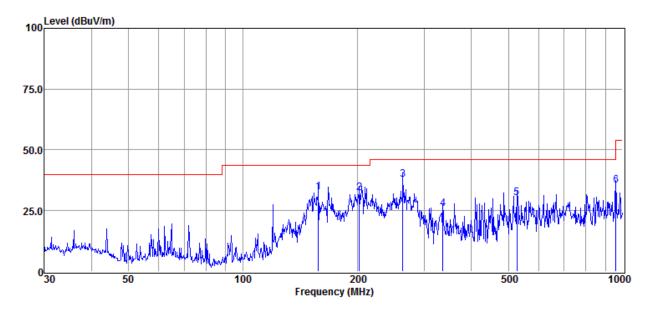
Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



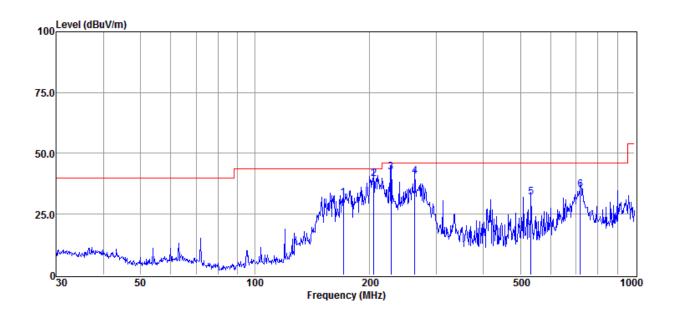
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Test plot as below: Vertical:



Horizontal:



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Above 1GHz:

Test mode: 802.11b Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	42.6	6.4	49	54	-5	peak	Horizontal
2	7236	40.7	10.76	51.46	54	-2.54	peak	Horizontal
3	9648	35.32	14.37	49.69	54	-4.31	peak	Horizontal
4	4824	44.29	6.4	50.69	54	-3.31	peak	Vertical
5	7236	39.78	10.76	50.54	54	-3.46	peak	Vertical
6	9648	33.75	14.37	48.12	54	-5.88	peak	Vertical

Test mode: 802.11b Channel: 2437

103	ot mode. ooz.	110			Oii	armer. 27	101	
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	42.01	6.92	48.93	54	-5.07	peak	Horizontal
2	7311	37.63	11.08	48.71	54	-5.29	peak	Horizontal
3	9748	32.03	14.36	46.39	54	-7.61	peak	Horizontal
4	4874	43.26	6.92	50.18	54	-3.82	peak	Vertical
5	7311	39.78	11.08	50.86	54	-3.14	peak	Vertical
6	9748	33.8	14.36	48.16	54	-5.84	peak	Vertical

Test mode: 802.11b Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	40.78	7.31	48.09	54	-5.91	peak	Horizontal
2	7386	37.47	11.41	48.88	54	-5.12	peak	Horizontal
3	9848	35.01	14.38	49.39	54	-4.61	peak	Horizontal
4	4924	40.5	7.31	47.81	54	-6.19	peak	Vertical
5	7386	39.07	11.41	50.48	54	-3.52	peak	Vertical
6	9848	31.05	14.38	45.43	54	-8.57	peak	Vertical



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Test mode: 802.11g Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	40.83	6.4	47.23	54	-6.77	peak	Horizontal
2	7236	38.38	10.76	49.14	54	-4.86	peak	Horizontal
3	9648	32.62	14.37	46.99	54	-7.01	peak	Horizontal
4	4824	43.16	6.4	49.56	54	-4.44	peak	Vertical
5	7236	36.99	10.76	47.75	54	-6.25	peak	Vertical
6	9648	33.55	14.37	47.92	54	-6.08	peak	Vertical

Test mode: 802.11g Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization	
1	4874	40.59	6.92	47.51	54	-6.49	peak	Horizontal	
2	7311	37.35	11.08	48.43	54	-5.57	peak	Horizontal	
3	9748	36.63	14.36	50.99	54	-3.01	peak	Horizontal	
4	4874	41.46	6.92	48.38	54	-5.62	peak	Vertical	
5	7311	39.37	11.08	50.45	54	-3.55	peak	Vertical	
6	9748	36.27	14.36	50.63	54	-3.37	peak	Vertical	

Test mode: 802.11g Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	39.41	7.31	46.72	54	-7.28	peak	Horizontal
2	7386	39.06	11.41	50.47	54	-3.53	peak	Horizontal
3	9848	32.42	14.38	46.8	54	-7.2	peak	Horizontal
4	4924	38.62	7.31	45.93	54	-8.07	peak	Vertical
5	7386	36.21	11.41	47.62	54	-6.38	peak	Vertical
6	9848	36.25	14.38	50.63	54	-3.37	peak	Vertical



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Test mode: 802.11 n(HT20) Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4824	41.8	6.4	48.2	54	-5.8	peak	Horizontal
2	7236	35.51	10.76	46.27	54	-7.73	peak	Horizontal
3	9648	35.94	14.37	50.31	54	-3.69	peak	Horizontal
4	4824	42.83	6.4	49.23	54	-4.77	peak	Vertical
5	7236	36.92	10.76	47.68	54	-6.32	peak	Vertical
6	9648	36.9	14.37	51.27	54	-2.73	peak	Vertical

Test mode: 802.11 n(HT20) Channel: 2437

1031	1110ac. 002.11	11(11120)			Onumer. 2407				
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization	
1	4874	43.77	6.92	50.69	54	-3.31	peak	Horizontal	
2	7311	36.19	11.08	47.27	54	-6.73	peak	Horizontal	
3	9748	36.35	14.36	50.71	54	-3.29	peak	Horizontal	
4	4874	41.01	6.92	47.93	54	-6.07	peak	Vertical	
5	7311	34.66	11.08	45.74	54	-8.26	peak	Vertical	
6	9748	35.97	14.36	50.33	54	-3.67	peak	Vertical	

Test mode: 802.11 n(HT20) Channel: 2462

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924	43.25	7.31	50.56	54	-3.44	peak	Horizontal
2	7386	38.71	11.41	50.12	54	-3.88	peak	Horizontal
3	9848	32.06	14.38	46.44	54	-7.56	peak	Horizontal
4	4924	42.05	7.31	49.36	54	-4.64	peak	Vertical
5	7386	37.62	11.41	49.03	54	-4.97	peak	Vertical
6	9848	31.87	14.38	46.25	54	-7.75	peak	Vertical



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Test mode: 802.11n(HT40) Channel: 2422

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4844	40.86	6.6	47.46	54	-6.54	peak	Horizontal
2	7266	38.76	10.89	49.65	54	-4.35	peak	Horizontal
3	9688	33.16	14.35	47.51	54	-6.49	peak	Horizontal
4	4844	43.95	6.6	50.55	54	-3.45	peak	Vertical
5	7266	39.58	10.89	50.47	54	-3.53	peak	Vertical
6	9688	33.7	14.35	48.05	54	-5.95	peak	Vertical

802.11n(HT40) Channel: 2437

						<u> </u>		
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4874	38.11	6.92	45.03	54	-8.97	peak	Horizontal
2	7311	39.84	11.08	50.92	54	-3.08	peak	Horizontal
3	9748	32.01	14.36	46.37	54	-7.63	peak	Horizontal
4	4874	40.92	6.92	47.84	54	-6.16	peak	Vertical
5	7311	39.32	11.08	50.4	54	-3.6	peak	Vertical
6	9748	33.67	14.36	48.03	54	-5.97	peak	Vertical

802.11n(HT40) Channel: 2452

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4904	41.63	7.22	48.85	54	-5.15	peak	Horizontal
2	7356	35.52	11.28	46.8	54	-7.2	peak	Horizontal
3	9808	34.4	14.37	48.77	54	-5.23	peak	Horizontal
4	4904	42.96	7.22	50.18	54	-3.82	peak	Vertical
5	7356	38.61	11.28	49.89	54	-4.11	peak	Vertical
6	9808	31.69	14.37	46.06	54	-7.94	peak	Vertical

Remark: 1) Emission = Receiver Reading + Factor

- 2) Factor = Antenna Factor + Cable Loss + Pre-amplifier Factor.
- 3) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

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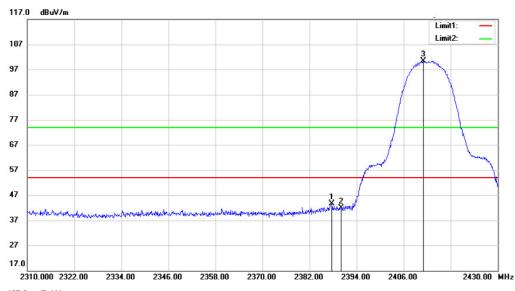
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6.8.2 Radiated Band edge

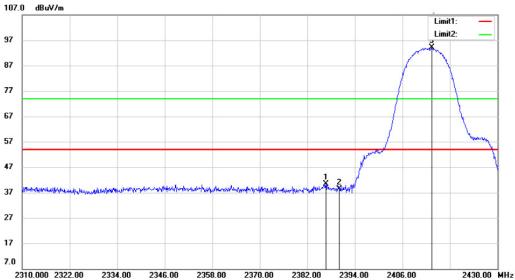
Test Mode: 802.11b Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2387.64	47.4	-3.88	43.52	54	-10.48	Peak	Horizontal
2	2390	45.73	-3.89	41.84	54	-12.16	Peak	Horizontal
3	2411.04	104.36	-3.93	100.43	54	46.43	Peak	Horizontal
1	2386.68	44.3	-3.88	40.42	54	-13.58	Peak	Vertical
2	2390	42.23	-3.89	38.34	54	-15.66	Peak	Vertical
3	2413.44	98.04	-3.93	94.11	54	40.11	Peak	Vertical

Horizontal



Vertical



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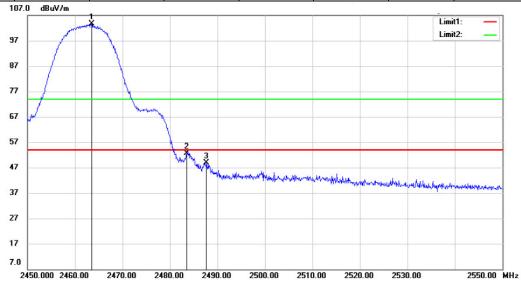
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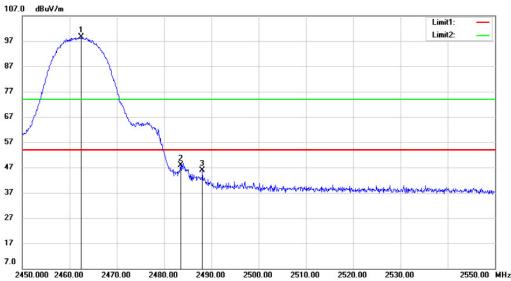
Test Mode: 802.11b Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2463.5	107.65	-3.98	103.67	54	49.67	Peak	Horizontal
2	2483.5	56.61	-4.01	52.6	54	-1.4	Peak	Horizontal
3	2487.7	52.99	-4.01	48.98	54	-5.02	Peak	Horizontal
1	2462.5	102.68	-3.99	98.69	54	44.69	Peak	Vertical
2	2483.5	51.85	-4.01	47.84	54	-6.16	Peak	Vertical
3	2488.1	49.81	-4.01	45.8	54	-8.2	Peak	Vertical





Vertical



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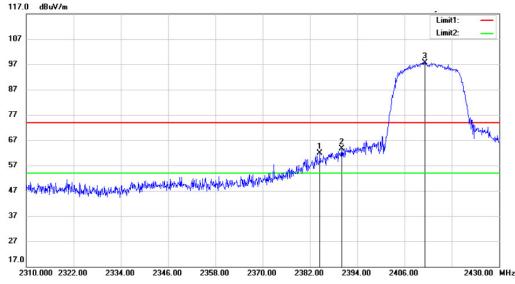
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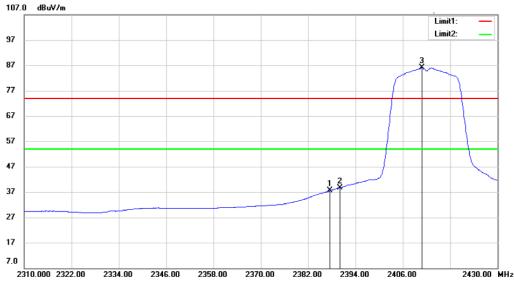
Test Mode: 802.11g Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization			
1	2384.52	65.84	-3.88	61.96	74	-12.04	Peak	Horizontal			
2	2390	67.45	-3.89	63.56	74	-10.44	Peak	Horizontal			
3	2411.16	101.65	-3.93	97.72	74	23.72	Peak	Horizontal			
1	2387.52	41.4	-3.88	37.52	54	-16.48	Average	Horizontal			
2	2390	42.54	-3.89	38.65	54	-15.35	Average	Horizontal			
3	2410.92	90.06	-3.92	86.14	54	32.14	Average	Horizontal			





Average



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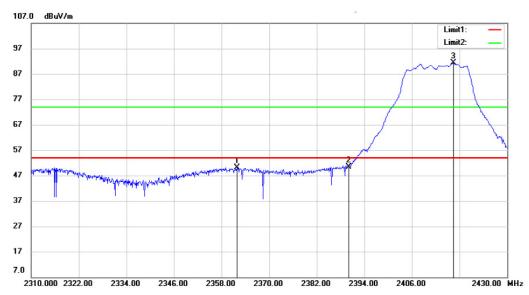
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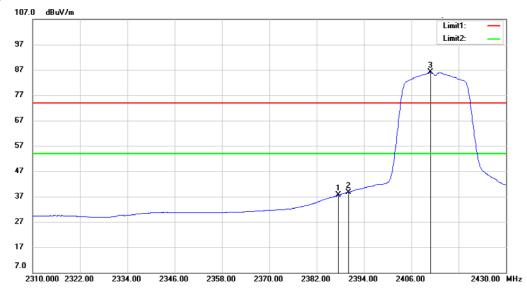
Test Mode: 802.11g Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2387.52	58.5	-3.88	54.62	74	-19.38	Peak	Vertical
2	2390	58.07	-3.89	54.18	74	-19.82	Peak	Vertical
3	2416.92	96.08	-3.94	92.14	74	18.14	Peak	Vertical
1	2389.08	36.63	-3.89	32.74	54	-21.26	Average	Vertical
2	2390	36.9	-3.89	33.01	54	-20.99	Average	Vertical
3	2413.2	84.32	-3.92	80.4	54	26.4	Average	Vertical

PK



Average



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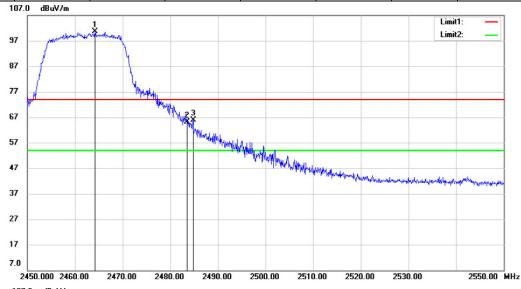
Report No.: SHEM170600374503

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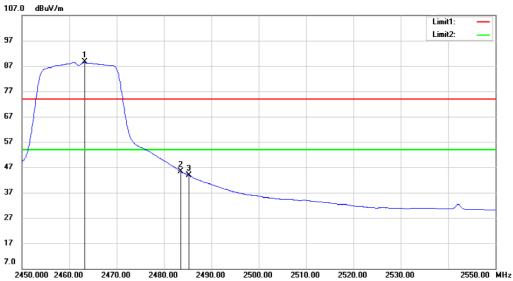
Test Mode: 802.11g Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2464.2	104.63	-3.99	100.64	74	26.64	Peak	Horizontal
2	2483.5	69.14	-4.01	65.13	74	-8.87	Peak	Horizontal
3	2484.8	69.85	-4	65.85	74	-8.15	Peak	Horizontal
1	2463.3	92.5	-3.98	88.52	54	34.52	Average	Horizontal
2	2483.5	49.46	-4.01	45.45	54	-8.55	Average	Horizontal
3	2485.3	47.81	-4.01	43.8	54	-10.2	Average	Horizontal





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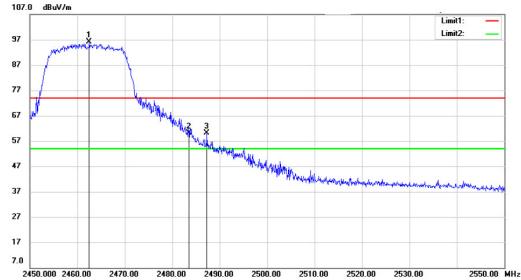
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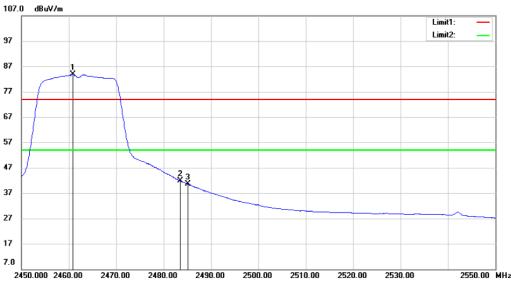
Test Mode: 802.11 g Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2462.5	100.04	-3.99	96.05	74	22.05	Peak	Vertical
2	2483.5	64.22	-4.01	60.21	74	-13.79	Peak	Vertical
3	2487.3	64.24	-4.02	60.22	74	-13.78	Peak	Vertical
1	2460.9	87.9	-3.98	83.92	54	29.92	Average	Vertical
2	2483.5	45.88	-4.01	41.87	54	-12.13	Average	Vertical
3	2485.1	44.61	-4.01	40.6	54	-13.4	Average	Vertical





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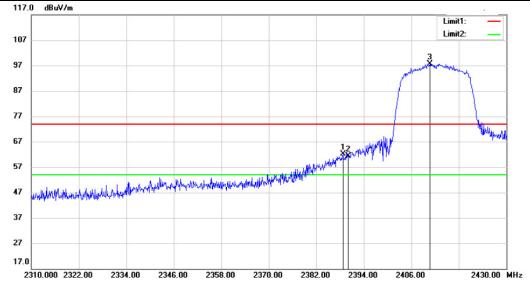
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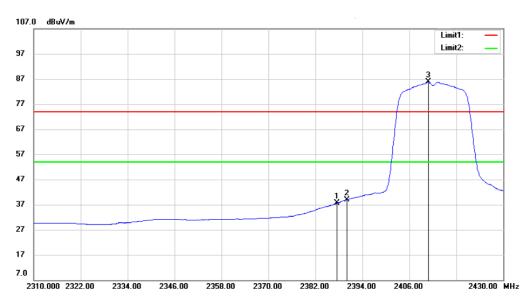
Test Mode: 802.11 n(HT20) Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2388.72	65.98	-3.89	62.09	74	-11.91	Peak	Horizontal
2	2390	65.17	-3.89	61.28	74	-12.72	Peak	Horizontal
3	2410.68	101.65	-3.93	97.72	74	23.72	Peak	Horizontal
1	2387.52	41.54	-3.88	37.66	54	-16.34	Average	Horizontal
2	2390	42.82	-3.89	38.93	54	-15.07	Average	Horizontal
3	2410.92	89.79	-3.92	85.87	54	31.87	Average	Horizontal





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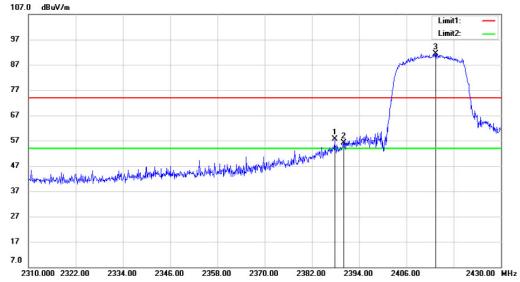
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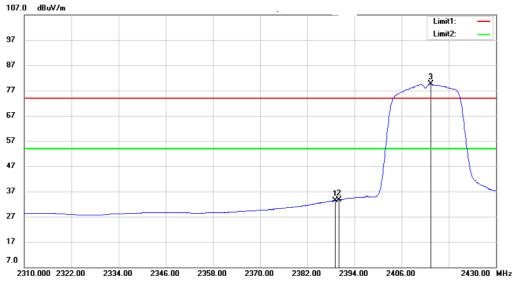
Test Mode: 802.11 n(HT20) Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2387.76	61.41	-3.88	57.53	74	-16.47	Peak	Vertical
2	2390	59.98	-3.89	56.09	74	-17.91	Peak	Vertical
3	2413.44	95.38	-3.93	91.45	74	17.45	Peak	Vertical
1	2389.08	37.38	-3.89	33.49	54	-20.51	Average	Vertical
2	2390	37.56	-3.89	33.67	54	-20.33	Average	Vertical
3	2413.44	83.55	-3.93	79.62	54	25.62	Average	Vertical





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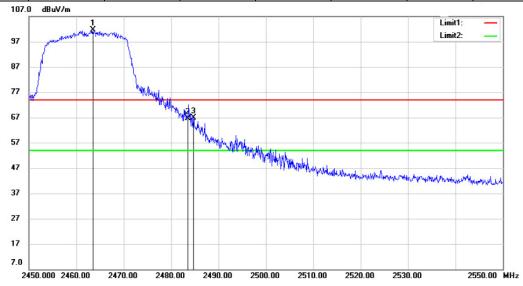
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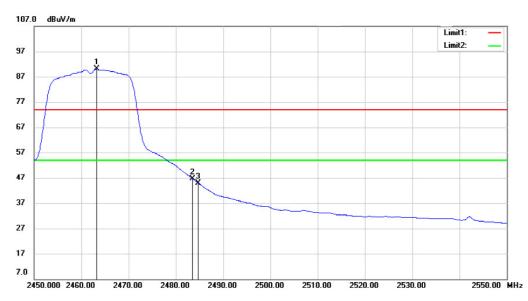
Test Mode: 802.11 n(HT20) Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2463.5	105.63	-3.98	101.65	74	27.65	Peak	Horizontal
2	2483.5	70.71	-4.01	66.7	74	-7.3	Peak	Horizontal
3	2484.7	70.79	-4.01	66.78	74	-7.22	Peak	Horizontal
1	2463.3	94.02	-3.98	90.04	54	36.04	Average	Horizontal
2	2483.5	50.74	-4.01	46.73	54	-7.27	Average	Horizontal
3	2484.7	48.99	-4.01	44.98	54	-9.02	Average	Horizontal





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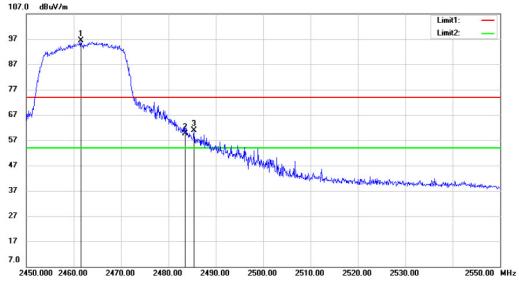
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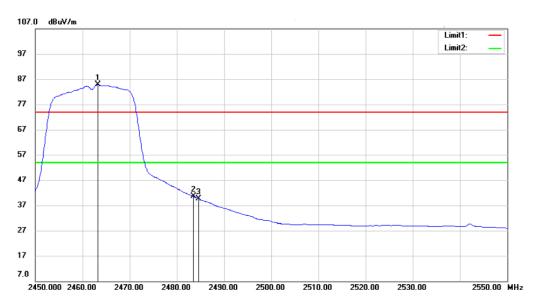
Test Mode: 802.11 n(HT20) Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2461.5	100.36	-3.99	96.37	74	22.37	Peak	Vertical
2	2483.5	63.54	-4.01	59.53	74	-14.47	Peak	Vertical
3	2485.4	64.82	-4.01	60.81	74	-13.19	Peak	Vertical
1	2463.3	88.79	-3.98	84.81	54	30.81	Average	Vertical
2	2483.5	44.61	-4.01	40.6	54	-13.4	Average	Vertical
3	2484.6	43.69	-4.01	39.68	54	-14.32	Average	Vertical





Average



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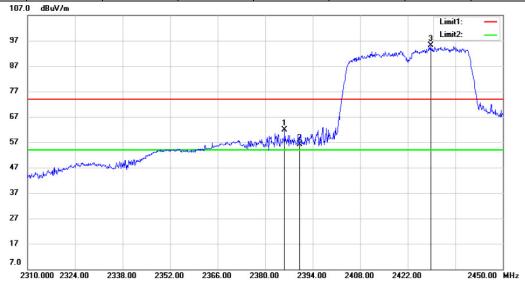
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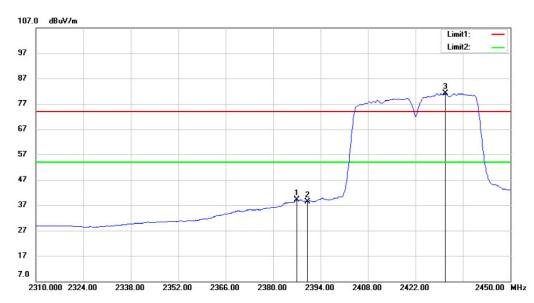
Test Mode: 802.11 n(HT40) Channel: 2422

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2385.74	65.69	-3.88	61.81	74	-12.19	Peak	Horizontal
2	2390	60.09	-3.89	56.2	74	-17.8	Peak	Horizontal
3	2428.72	99.07	-3.95	95.12	74	21.12	Peak	Horizontal
1	2387	43.04	-3.87	39.17	54	-14.83	Average	Horizontal
2	2390	42.3	-3.89	38.41	54	-15.59	Average	Horizontal
3	2430.82	84.97	-3.95	81.02	54	27.02	Average	Horizontal





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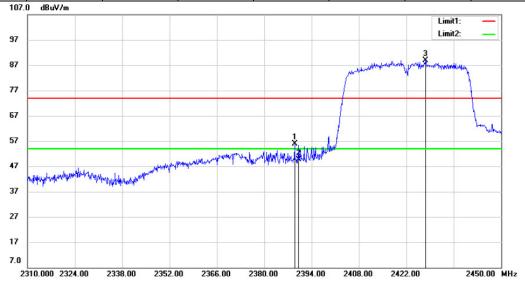
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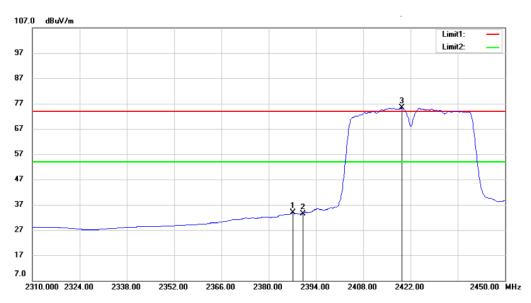
Test Mode: 802.11 n(HT40) Channel: 2422

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2388.96	59.76	-3.89	55.87	74	-18.13	Peak	Vertical
2	2390	53.63	-3.89	49.74	74	-24.26	Peak	Vertical
3	2427.74	92.84	-3.94	88.9	74	14.9	Peak	Vertical
1	2387.14	37.79	-3.87	33.92	54	-20.08	Average	Vertical
2	2390	37.37	-3.89	33.48	54	-20.52	Average	Vertical
3	2419.48	79.38	-3.94	75.44	54	21.44	Average	Vertical





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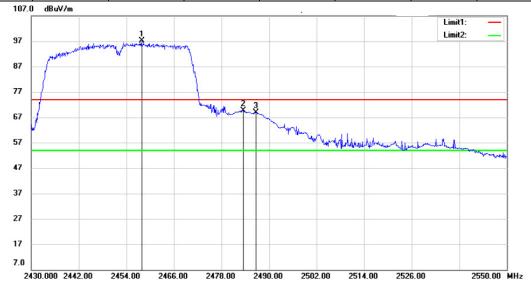
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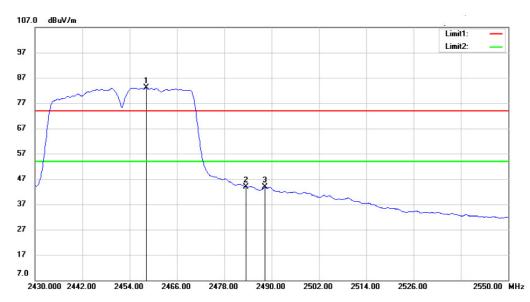
Test Mode: 802.11 n(HT40) Channel: 2452

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2457.84	101.16	-3.98	97.18	74	23.18	Peak	Horizontal
2	2483.5	73.56	-4.01	69.55	74	-4.45	Peak	Horizontal
3	2486.64	72.92	-4.02	68.9	74	-5.1	Peak	Horizontal
1	2458.2	87.15	-3.99	83.16	54	29.16	Average	Horizontal
2	2483.5	47.91	-4.01	43.9	54	-10.1	Average	Horizontal
3	2488.32	47.78	-4.02	43.76	54	-10.24	Average	Horizontal

Peak



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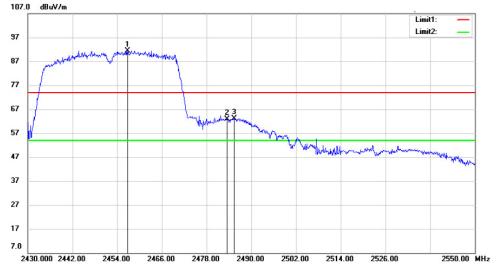
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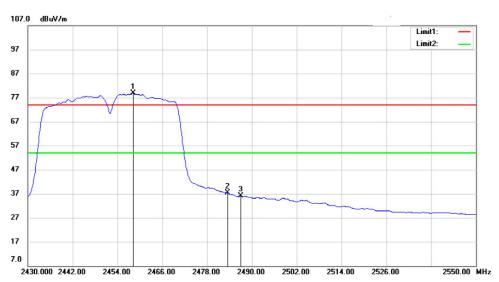
Test Mode: 802.11 n(HT40) Channel: 2452

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2456.76	95.48	-3.98	91.5	74	17.5	Peak	Vertical
2	2483.5	66.77	-4.01	62.76	74	-11.24	Peak	Vertical
3	2485.44	67.13	-4.01	63.12	74	-10.88	Peak	Vertical
1	2458.2	82.82	-3.99	78.83	54	24.83	Average	Vertical
2	2483.5	41.37	-4.01	37.36	54	-16.64	Average	Vertical
3	2487	40.06	-4.01	36.05	54	-17.95	Average	Vertical





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Remark: 1). Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

2). If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

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All frequencies within the "Restricted bands" have been evaluated to compliance. Except as shown in paragraph of this section, only spurious emissions are permitted in any of the frequency bands listed below:

a. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			



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RSS-Gen section 7.2.2 Restricted bands of operation

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

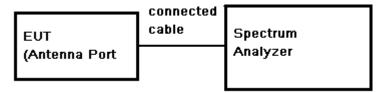


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6.8.3 99% Occupied Bandwidth

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2. Set the spectrum analyzer: Span = approximately 2 to 3 times the 20dB bandwidth, centred on the hopping channel;
- 3. Set the spectrum analyzer: RBW >= 1% of the 20dB bandwidth. VBW >= RBW. Sweep = auto; Detector Function = Peak. Trace = Max Hold.
- 4. Mark the peak frequency and -20dB points.

Test Date:



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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

-- End of the Report--