EN 300 328 Test Report

Product Name : WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER

Model No. : WLE350NX

Applicant : Compex Systems Pte Ltd

Address : 135 Joo Seng Road, #08-01 PM Industrial Building Singapore 368363

Date of Receipt : 04/02/2013

Test Date : 05/02/2013~08/04/2013

Issued Date : 08/04/2013

Report No. : 132S008R-RF-CE-P17V02

Report Version : V1.0

Test Report Certification

Issued Date: 08/04/2013
Report No.: 132S008R-RF-CE-P17V02

QuieTek

Product Name	:	WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER
Applicant	:	Compex Systems Pte Ltd
Address	:	135 Joo Seng Road, #08-01 PM Industrial Building Singapore 368363
Manufacturer	:	Compex Systems Pte Ltd
Address	:	135 Joo Seng Road, #08-01 PM Industrial Building Singapore 368363
Model No.	:	WLE350NX
EUT Voltage	:	DC: 3.3V
Brand Name	:	COMPEX
Applicable Standard	:	ETSI EN 300 328 V1.8.1 (2012-06)
Test Result	:	Complied
Performed Location	:	Suzhou EMC Laboratory No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

Documented By	:	Alice Ni (Alice Ni)
Reviewed By	:	Jame yuan (Jame Yuan)
Approved By	:	Robin Wu (Robin Wu)

Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	**:**	**BSMI, NCC, TAF**
Germany	**:**	**TUV Rheinland**
Norway	**:**	**Nemko, DNV**
USA	**:**	**FCC, NVLAP**
Japan	**:**	**VCCI**
China	**:**	**CNAS**

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site :http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :
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TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

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No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

Suzhou Testing Laboratory :
No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., SuZhou, China
TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com

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1. General Information

1.1. EUT Description

Product Name	WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER
Brand Name	COMPEX
Model No.	WLE350NX
Working Voltage	DC 3.3V
Frequency Range	802.11b/g/n(20MHz): 2412 ~ 2472 MHz 802.11n(40MHz): 2422 ~ 2462 MHz
Channel Number	802.11b/g/n(20MHz): 13 802.11n(40MHz): 9
Type of Modulation	802.11b: DSSS
	802.11g/n: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11b: 1/2/5.5/11 Mbps
	802.11n: up to 450 Mbps
Channel Control	Auto
Antenna Delivery	3*Tx + 3*Rx
Antenna Type	Reference to Antenna List
Peak Antenna Gain	Reference to Antenna List

Channel List

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	12	2467 MHz
13	2472 MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	10	2457 MHz
11	2462 MHz	N/A	N/A	N/A	N/A	N/A	N/A

802.11a/b/g/n Antenna List

Antenna	Manufacturer	Peak Gain
Panel Antenna	A*STAR Institute for Infocomm Research	3dBi for 2.4GHz, 5dBi for 5GHz
Dipole Antenna 1#	SmartAnt Telecom Co., Ltd.	4.5dBi for 2.4GHz, 7dBi for 5GHz
Dipole Antenna 2#	Kunshan Wavelink Electronic Co., Ltd.	2dBi for 2.4GHz and 5GHz

Power Parameter Value of the test software

Test Mode	Test Channel	Ant0	Ant1	Ant2	Ant0+1	Ant0+1+2
802.11b	2412	10.5	11.0	12.0	×	×
	2442	11.0	11.5	11.5	×	×
	2472	11.0	11.5	12.0	×	×
802.11g	2412	11.0	11.0	11.5	×	×
	2442	11.0	11.0	11.0	×	×
	2472	10.5	11.5	11.0	×	×
802.11n(20MHz)	2412	10.5	11.0	11.5	8.5	7.5
	2442	10.5	11.0	11.0	8.5	7.5
	2472	10.5	11.5	11.0	8.0	7.5
802.11n(40MHz)	2422	11.0	10.5	11.0	8.5	7.5
	2442	10.5	11.0	11.0	8.5	8.0
	2462	10.5	11.5	11.0	8.0	8.0

The test mode of the test software can support.

Test Mode	Ant0	Ant1	Ant2	Ant0+1	Ant0+1+2
802.11b	√	√	√	×	×
802.11g	√	√	√	×	×
802.11n(20MHz)	√	√	√	√	√
802.11n(40MHz)	√	√	√	√	√

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)
Mode 4: Transmit by 802.11n(40MHz)
Mode 5: Receive by 802.11n(20MHz)
Mode 6: Receive by 802.11n(40MHz)

Note:

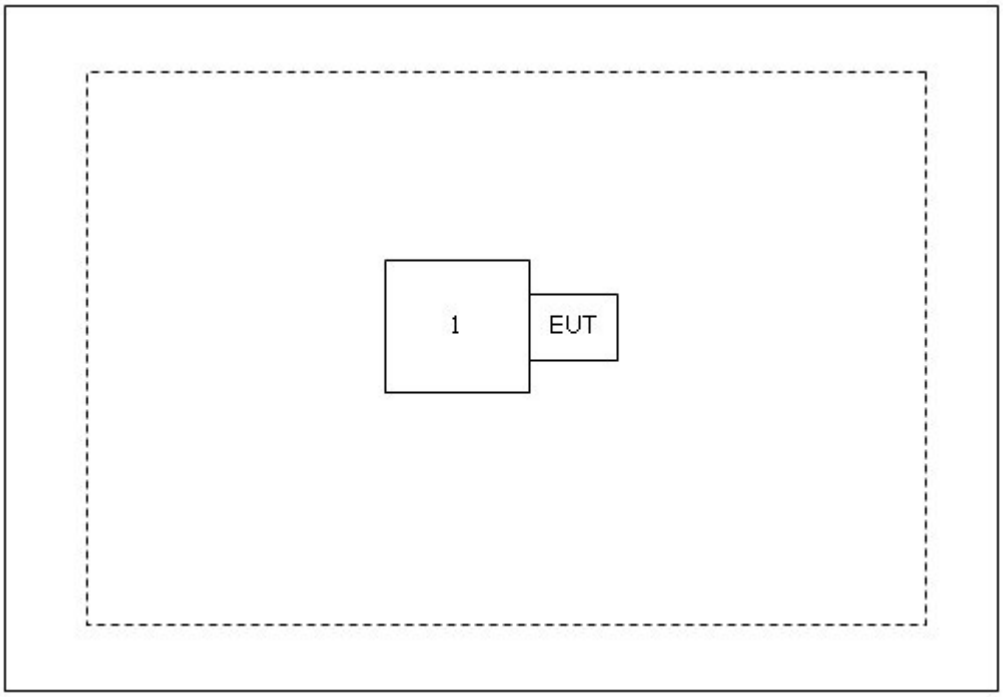
1. For portable device, radiated spurious emission was verified over X, Y, Z axis, and shown the worst case on this report.
2. Regards to the frequency band operation for systems using Wide Band modulation: the lowest, middle, highest frequency channel for conducted test, and the lowest, highest frequency channel for radiation spurious test.
3. The extreme test condition for voltage and temperature was declared by the manufacturer.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	DELL	E520	N/A	Non-Shielded, 1.8m

1.4. Configuration of Tested System

Connection Diagram		
		
Signal Cable Type		Signal cable Description
A	N/A	N/A

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Run the RF test software “Art2”, and set the test mode and channel, then press OK to start continue Transmit or receive.

2. Technical Test

2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

Technical requirements for the equipment using wide band modulations other than FHSS

Performed Test Item	Normative References	Test Performed	Deviation
RF Output Power	ETSI EN 300 328 V1.8.1 (2012-06)	Yes	No
Power Spectral Density	ETSI EN 300 328 V1.8.1 (2012-06)	Yes	No
Duty cycle, Tx-Sequence, Tx-gap	ETSI EN 300 328 V1.8.1 (2012-06)	N/A	N/A
Medium Utilisation (MU) factor	ETSI EN 300 328 V1.8.1 (2012-06)	N/A	N/A
Adaptivity (Adaptive Frequency Hopping)	ETSI EN 300 328 V1.8.1 (2012-06)	Yes	No
Occupied Channel Bandwidth	ETSI EN 300 328 V1.8.1 (2012-06)	Yes	No
Transmitter unwanted emissions in the out-of-band domain	ETSI EN 300 328 V1.8.1 (2012-06)	Yes	No
Transmitter unwanted emissions in the spurious domain	ETSI EN 300 328 V1.8.1 (2012-06)	Yes	No
Receiver Spurious Emissions	ETSI EN 300 328 V1.8.1 (2012-06)	Yes	No
Receiver Blocking	ETSI EN 300 328 V1.8.1 (2012-06)	Yes	No

Note: The EUT can operate in a adaptive mode, and can't operate in a non-adaptive mode which is stated by the supplier.

2.2. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1,5 dB
Power Spectral Density, conducted	±3 dB
Unwanted Emissions, conducted	±3 dB
All emissions, radiated	±6 dB
Temperature	±1 °C
Humidity	±5 %
DC and low frequency voltages	±3 %
Time	±5 %
Duty Cycle	±5 %

2.3. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. RF Output Power

3.1. Test Equipment

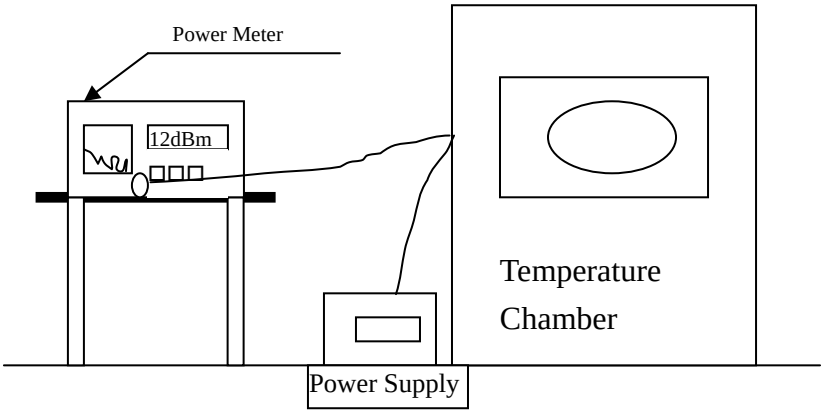
Equivalent Isotropic Radiated Power / TR8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Power Meter	Anritsu	ML2495A	0905006	2013/11/10
Power Sensor	Anritsu	MA2411B	0846014	2013/11/10
DC Power Supply	IDRC	CD-035-020PR	977272	2013/09/17
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2014/01/10
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2013/05/07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup

For Conducted Measurement



3.3. Limit

For non-adaptive frequency hopping systems

The maximum RF output power for non-adaptive Frequency Hopping equipment, shall be declared by the supplier. The maximum RF output power for this equipment shall be equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20dBm.

For adaptive frequency hopping systems

The maximum RF output power for adaptive Frequency Hopping equipment shall be equal to or less than 20dBm.

3.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.2

3.5. Test Result

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	14.05	19.05	20
		2442	13.94	18.94	20
		2472	14.06	19.06	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.55	18.55	20
		2442	13.44	18.44	20
		2472	13.56	18.56	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.51	18.51	20
		2442	13.42	18.42	20
		2472	13.53	18.53	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.55	19.55	20
		2442	14.44	19.44	20
		2472	14.56	19.56	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.51	19.51	20
		2442	14.42	19.42	20
		2472	14.54	19.54	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	13.87	18.87	20
		2442	13.27	18.27	20
		2472	12.67	17.67	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.37	18.37	20
		2442	13.64	18.64	20
		2472	13.43	18.43	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.24	18.24	20
		2442	13.51	18.51	20
		2472	13.24	18.24	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.47	19.47	20
		2442	14.74	19.74	20
		2472	14.53	19.53	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.43	19.43	20
		2442	14.72	19.72	20
		2472	14.49	19.49	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	13.86	18.86	20
		2442	13.79	18.79	20
		2472	14.07	19.07	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.46	18.46	20
		2442	13.39	18.39	20
		2472	13.67	18.67	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.45	18.45	20
		2442	13.37	18.37	20
		2472	13.64	18.64	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.36	19.36	20
		2442	14.29	19.29	20
		2472	14.57	19.57	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.13	19.13	20
		2442	14.24	19.24	20
		2472	14.32	19.32	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	14.09	19.09	20
		2442	14.11	19.11	20
		2472	13.93	18.93	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.69	18.69	20
		2442	13.71	18.71	20
		2472	13.53	18.53	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.51	18.51	20
		2442	13.41	18.41	20
		2472	13.54	18.54	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.59	19.59	20
		2442	14.61	19.61	20
		2472	14.43	19.43	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.52	19.52	20
		2442	14.57	19.57	20
		2472	14.23	19.23	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	14.24	19.24	20
		2442	13.94	18.94	20
		2472	14.16	19.16	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.66	18.66	20
		2442	13.37	18.37	20
		2472	13.59	18.59	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.64	18.64	20
		2442	13.34	18.34	20
		2472	13.56	18.56	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.74	19.74	20
		2442	14.44	19.44	20
		2472	14.66	19.66	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.63	19.63	20
		2442	14.35	19.35	20
		2472	14.56	19.56	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	14.13	19.13	20
		2442	14.15	19.15	20
		2472	13.92	18.92	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.63	18.63	20
		2442	13.85	18.85	20
		2472	13.72	18.72	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.62	18.62	20
		2442	13.84	18.84	20
		2472	13.71	18.71	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.63	19.63	20
		2442	14.65	19.65	20
		2472	14.42	19.42	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.61	19.61	20
		2442	14.62	19.62	20
		2472	14.43	19.43	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)(Chain 0)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	13.91	18.91	20
		2442	14.04	19.04	20
		2472	13.85	18.85	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.31	18.31	20
		2442	13.44	18.44	20
		2472	13.15	18.15	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.27	18.27	20
		2442	13.41	18.41	20
		2472	13.13	18.13	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.41	19.41	20
		2442	14.34	19.34	20
		2472	14.45	19.45	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.37	19.37	20
		2442	14.32	19.32	20
		2472	14.44	19.44	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)(Chain 1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	14.17	19.17	20
		2442	13.62	18.62	20
		2472	13.91	18.91	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.59	18.59	20
		2442	13.52	18.52	20
		2472	13.31	18.31	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.57	18.57	20
		2442	13.51	18.51	20
		2472	13.29	18.29	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.69	19.69	20
		2442	14.42	19.42	20
		2472	14.61	19.61	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.69	19.69	20
		2442	14.42	19.42	20
		2472	14.61	19.61	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)(Chain 2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2412	14.04	19.04	20
		2442	13.71	18.71	20
		2472	13.77	18.77	20
Tmax (40℃)	Vmax (AC 253V)	2412	13.34	18.34	20
		2442	13.61	18.61	20
		2472	13.37	18.37	20
Tmax (40℃)	Vmin (AC 207V)	2412	13.21	18.21	20
		2442	13.57	18.57	20
		2472	13.32	18.32	20
Tmin (0℃)	Vmax (AC 253V)	2412	14.54	19.54	20
		2442	14.51	19.51	20
		2472	14.47	19.47	20
Tmin (0℃)	Vmin (AC 207V)	2412	14.42	19.42	20
		2442	14.37	19.37	20
		2472	14.42	19.42	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)(Chain 0+1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB						
Test Conditions		Frequency (MHz)	Measured Power (dBm)		EIRP (dBm)	Limit (dBm)
			Chain 0	Chain 1		
Tnom (25℃)	Vnom (AC 230V)	2412	10.82	10.97	18.91	20
		2442	10.94	10.95	18.96	20
		2472	10.99	10.87	18.94	20
Tmax (40℃)	Vmax (AC 253V)	2412	10.22	10.37	18.31	20
		2442	10.54	10.55	18.56	20
		2472	10.69	10.57	18.64	20
Tmax (40℃)	Vmin (AC 207V)	2412	10.12	10.33	18.24	20
		2442	10.51	10.52	18.53	20
		2472	10.62	10.53	18.59	20
Tmin (0℃)	Vmax (AC 253V)	2412	11.42	11.57	19.51	20
		2442	11.54	11.55	19.56	20
		2472	11.59	11.47	19.54	20
Tmin (0℃)	Vmin (AC 207V)	2412	11.34	11.45	19.41	20
		2442	11.37	11.46	19.43	20
		2472	11.57	11.44	19.52	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)(Chain 0+1+2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB							
Test Conditions		Frequency (MHz)	Measured Power (dBm)			EIRP (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2		
Tnom (25℃)	Vnom (AC 230V)	2412	9.14	9.25	9.02	18.91	20
		2442	9.07	9.04	9.15	18.86	20
		2472	9.13	9.16	9.26	18.95	20
Tmax (40℃)	Vmax (AC 253V)	2412	8.54	8.65	8.42	18.31	20
		2442	8.67	8.64	8.75	18.46	20
		2472	8.33	8.36	8.46	18.15	20
Tmax (40℃)	Vmin (AC 207V)	2412	8.52	8.65	8.41	18.30	20
		2442	8.63	8.57	8.72	18.41	20
		2472	8.32	8.34	8.41	18.13	20
Tmin (0℃)	Vmax (AC 253V)	2412	9.64	9.75	9.52	19.41	20
		2442	9.57	9.54	9.65	19.36	20
		2472	9.63	9.66	9.76	19.45	20
Tmin (0℃)	Vmin (AC 207V)	2412	9.57	9.61	9.47	19.32	20
		2442	9.49	9.54	9.58	19.31	20
		2472	9.57	9.62	9.64	19.38	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)(Chain 0)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2422	14.12	19.12	20
		2442	13.73	18.73	20
		2462	14.13	19.13	20
Tmax (40℃)	Vmax (AC 253V)	2422	13.42	18.42	20
		2442	13.53	18.53	20
		2462	13.43	18.43	20
Tmax (40℃)	Vmin (AC 207V)	2422	13.41	18.41	20
		2442	13.48	18.48	20
		2462	13.37	18.37	20
Tmin (0℃)	Vmax (AC 253V)	2422	14.62	19.62	20
		2442	14.43	19.43	20
		2462	14.53	19.53	20
Tmin (0℃)	Vmin (AC 207V)	2422	14.61	19.61	20
		2442	14.42	19.42	20
		2462	14.47	19.47	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)(Chain 1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2422	14.15	19.15	20
		2442	13.74	18.74	20
		2462	14.33	19.33	20
Tmax (40℃)	Vmax (AC 253V)	2422	13.55	18.55	20
		2442	13.24	18.24	20
		2462	13.73	18.73	20
Tmax (40℃)	Vmin (AC 207V)	2422	13.52	18.52	20
		2442	13.23	18.23	20
		2462	13.65	18.65	20
Tmin (0℃)	Vmax (AC 253V)	2422	14.65	19.65	20
		2442	14.44	19.44	20
		2462	14.73	19.73	20
Tmin (0℃)	Vmin (AC 207V)	2422	14.62	19.62	20
		2442	14.43	19.43	20
		2462	14.67	19.67	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)(Chain 2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25℃)	Vnom (AC 230V)	2422	13.75	18.75	20
		2442	13.84	18.84	20
		2462	14.03	19.03	20
Tmax (40℃)	Vmax (AC 253V)	2422	13.56	18.56	20
		2442	13.71	18.71	20
		2462	13.37	18.37	20
Tmax (40℃)	Vmin (AC 207V)	2422	13.54	18.54	20
		2442	13.56	18.56	20
		2462	13.34	18.34	20
Tmin (0℃)	Vmax (AC 253V)	2422	14.66	19.66	20
		2442	14.61	19.61	20
		2462	14.47	19.47	20
Tmin (0℃)	Vmin (AC 207V)	2422	14.63	19.63	20
		2442	14.57	19.57	20
		2462	14.43	19.43	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)(Chain 0+1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB						
Test Conditions		Frequency (MHz)	Measured Power (dBm)		EIRP (dBm)	Limit (dBm)
			Chain 0	Chain 1		
Tnom (25℃)	Vnom (AC 230V)	2422	10.16	10.79	18.50	20
		2442	10.83	10.82	18.84	20
		2462	10.74	10.87	18.82	20
Tmax (40℃)	Vmax (AC 253V)	2422	9.56	10.49	18.06	20
		2442	10.53	10.22	18.39	20
		2462	10.54	10.47	18.52	20
Tmax (40℃)	Vmin (AC 207V)	2422	9.43	10.25	17.87	20
		2442	10.27	10.13	18.21	20
		2462	10.24	10.23	18.25	20
Tmin (0℃)	Vmax (AC 253V)	2422	10.66	11.59	19.16	20
		2442	11.53	11.42	19.49	20
		2462	11.44	11.57	19.52	20
Tmin (0℃)	Vmin (AC 207V)	2422	10.66	11.23	18.96	20
		2442	11.25	11.16	19.22	20
		2462	11.13	11.21	19.18	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)(Chain 0+1+2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB							
Test Conditions		Frequency (MHz)	Measured Power (dBm)			EIRP (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2		
Tnom (25℃)	Vnom (AC 230V)	2422	8.89	8.83	9.21	18.75	20
		2442	9.14	8.84	9.27	18.86	20
		2462	8.87	9.26	8.94	18.80	20
Tmax (40℃)	Vmax (AC 253V)	2422	8.49	8.53	8.81	18.38	20
		2442	8.64	8.64	8.67	18.42	20
		2462	8.57	8.96	8.54	18.47	20
Tmax (40℃)	Vmin (AC 207V)	2422	8.44	8.48	8.56	18.26	20
		2442	8.62	8.61	8.61	18.38	20
		2462	8.53	8.94	8.52	18.44	20
Tmin (0℃)	Vmax (AC 253V)	2422	9.59	9.73	9.71	19.45	20
		2442	9.64	9.64	9.67	19.42	20
		2462	9.47	9.76	9.64	19.40	20
Tmin (0℃)	Vmin (AC 207V)	2422	9.34	9.26	9.52	19.15	20
		2442	9.44	9.24	9.53	19.18	20
		2462	9.42	9.33	9.56	19.21	20

EIRP = Measured Power + Antenna Gain + Test Cable Loss.

4. Power Spectral Density

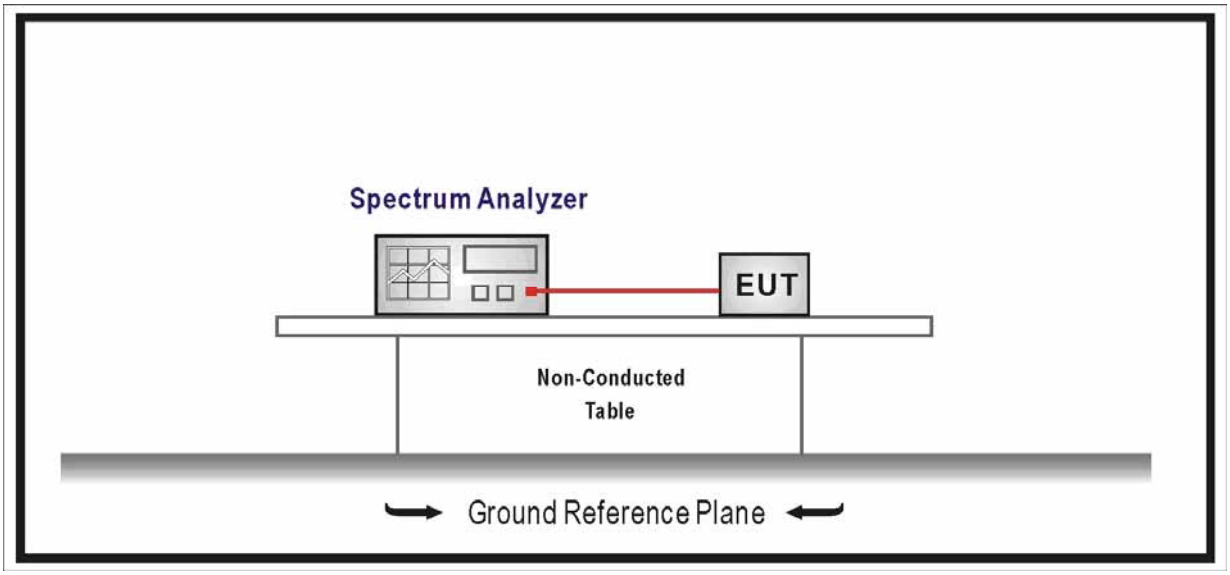
4.1. Test Equipment

Power Spectral Density / TR8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014/03/30
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2013/05/07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup



4.3. Limit

For equipment using wide band modulations other than FHSS, the maximum Power Spectral Density is limited to 10dBm per MHz.

4.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.3

4.5. Test Result

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	3.01	8.01	10.00
2442	4.06	9.06	10.00
2472	3.97	8.97	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	2.04	7.04	10.00
2442	3.35	8.35	10.00
2472	4.22	9.22	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	3.91	8.91	10.00
2442	3.49	8.49	10.00
2472	3.51	8.51	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	1.35	6.35	10.00
2442	2.42	7.42	10.00
2472	1.43	6.43	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	1.15	6.15	10.00
2442	1.85	6.85	10.00
2472	2.71	7.71	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	1.38	6.38	10.00
2442	1.37	6.37	10.00
2472	1.09	6.09	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	0.66	5.66	10.00
2442	1.02	6.02	10.00
2472	1.03	6.03	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	1.01	6.01	10.00
2442	1.81	6.81	10.00
2472	2.71	7.71	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2412	0.97	5.97	10.00
2442	0.45	5.45	10.00
2472	0.19	5.19	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0+1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB				
Frequency (MHz)	Measurement Density (dBm/MHz)		Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain 1		
2412	-1.74	-2.25	6.02	10.00
2442	-1.32	-1.99	6.37	10.00
2472	-1.46	-0.83	6.88	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0+1+2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain 1	Chain 2		
2412	-3.08	-3.82	-3.42	6.34	10.00
2442	-4.22	1.87	-3.78	8.68	10.00
2472	-3.34	-3.42	-3.33	6.41	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2422	-1.61	3.39	10.00
2442	-1.67	3.33	10.00
2462	-1.88	3.12	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2422	-2.13	2.87	10.00
2442	-1.69	3.31	10.00
2462	-0.07	4.93	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB			
Frequency (MHz)	Measurement Density (dBm/MHz)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)
2422	-1.89	3.11	10.00
2442	-2.41	2.59	10.00
2462	-2.42	2.58	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0+1)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB				
Frequency (MHz)	Measurement Density (dBm/MHz)		Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain 1		
2422	-3.89	-5.28	3.48	10.00
2442	-4.67	-3.96	3.71	10.00
2462	-4.28	-3.73	4.01	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0+1+2)

Antenna Gain = 4.5dBi, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain 1	Chain 2		
2422	-5.88	-7.02	-5.64	3.63	10.00
2442	-5.31	-3.42	-6.07	4.99	10.00
2462	-6.28	-6.14	-6.36	3.51	10.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss.

5. Duty Cycle, Tx-sequence, Tx-gap

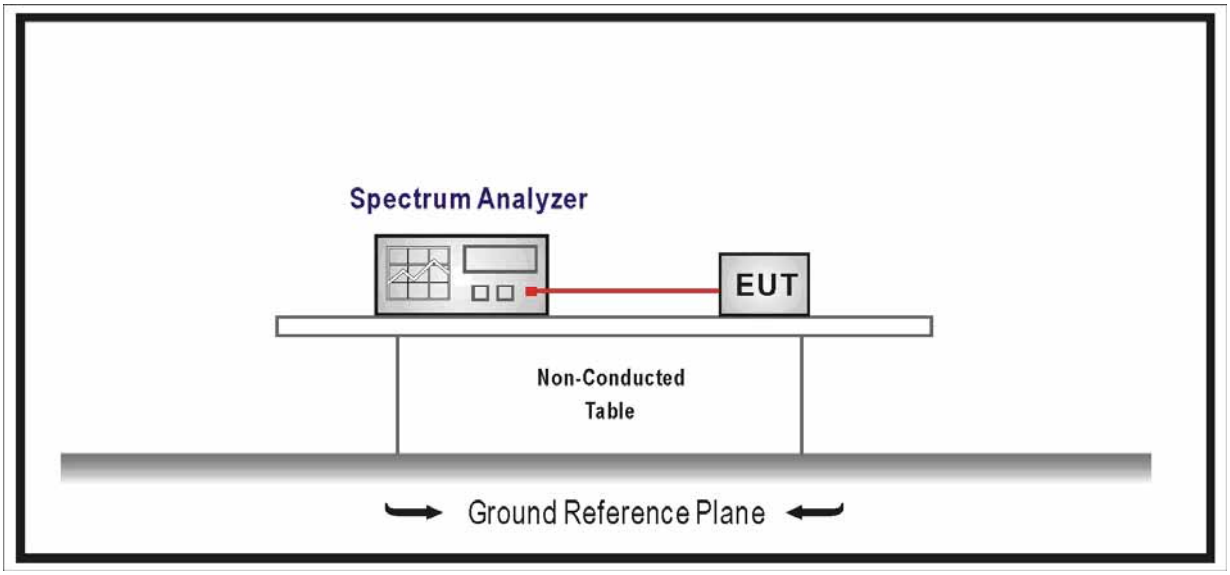
5.1. Test Equipment

Duty Cycle, Tx-sequence, Tx-gap / TR8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014/01/21
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2013/05/07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



5.3. Limit

For non-adaptive FHSS equipment, the Duty Cycle shall be equal to or less than the maximum value declared by the supplier. In addition, the maximum Tx-sequence time shall be 5 ms while the minimum Tx-gap time shall be 5 ms.

5.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.2

5.5. Test Result

These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in a non-adaptive mode.
These requirements do not apply for equipment with a maximum declared RF Output power of less than 10dBm E.I.R.P. or for equipment when operating in a mode where the RF Output power is less than 10dBm E.I.R.P.
No applicable.

6. Medium Utilisation (MU) factor

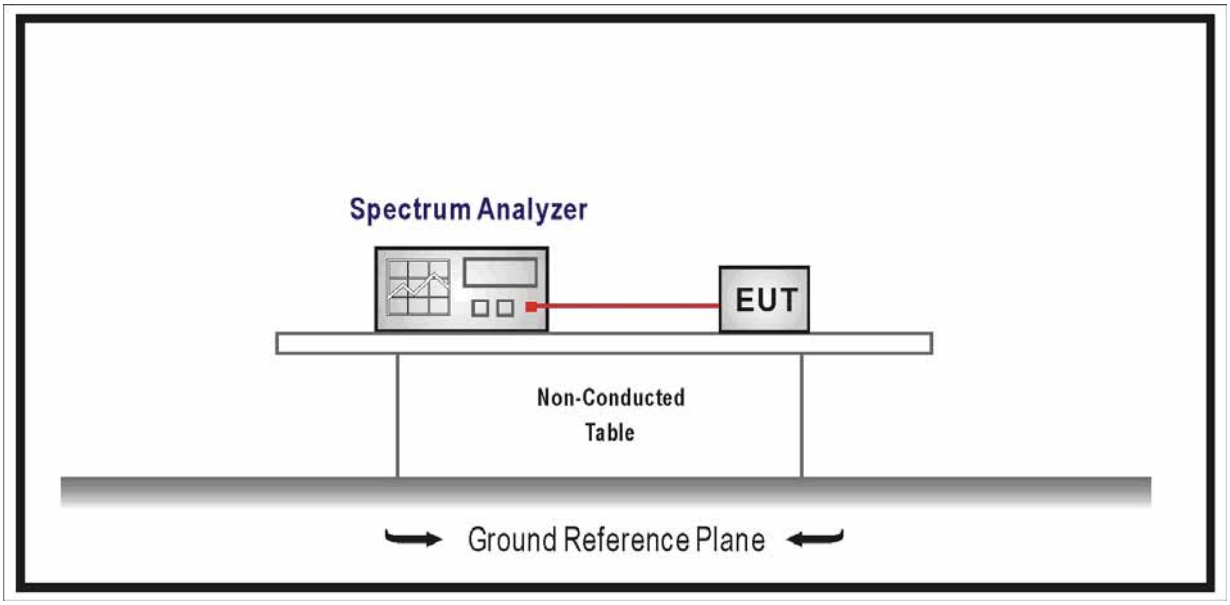
6.1. Test Equipment

Medium Utilisation (MU) factor / TR8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014/01/21
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2013/05/07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup



6.3. Limit

For non-adaptive equipment

The maximum Medium Utilisation factor for non-adaptive Frequency Hopping equipment shall be 10 %.

6.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.2

6.5. Test Result

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.

In addition, this requirement does not apply for equipment with a maximum declared RF Output power level of less than 10dBm E.I.R.P. or for equipment when operating in a mode where the RF Output power is less than 10dBm E.I.R.P.

No applicable.

7. Adaptivity (Adaptive Frequency Hopping)

7.1. Test Equipment

Adaptivity / TR-8

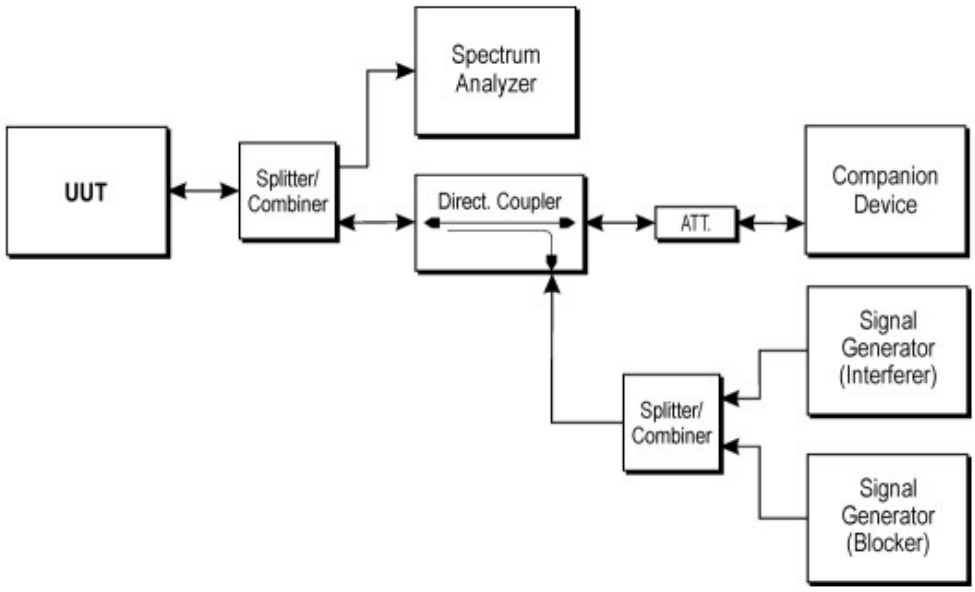
Instrument	Manufacturer	Type No.	Serial No	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014.03.30
Vector Signal Generator	Agilent	E4438C	102168	2014.03.30
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2014.03.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2013.05.07

Instrument	Manufacturer	Type No.	Serial No
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZAPD-50W 4.2-6.0 GHz	NN256400424
Splitter/Combiner (Qty: 2)	MCLI	PS3-7	4463/4464
ATT (Qty: 1)	Mini-Circuits	VAT-30+	30912
Laptop PC	Asus	N80V	8BN0AS226971468
RF Cable (Qty: 6)	Mini-Circuits	N/A	DFS-1~6

Software	Manufacturer	Function
DFS Tool	Agilent	DFS Test Software

7.2. Test Setup

Conducted measurements



7.3. Limit

Adaptivity Limit
☒ Non-LBT based Detect and Avoid ➢ The channel shall remain unavailable for a minimum time equal to 1 s after which the channel may be considered again as an 'available' channel; ➢ COT ≤ 40 ms; ➢ Idle Period shall be minimum 5% of COT with a minimum of 100us; ➢ Detection threshold level = -70dBm/MHz + 20 – Pout E.I.R.P (Pout in dBm);
☐ LBT based Detect and Avoid(Frame Based Equipment) ➢ The CCA observation time shall be not less than 20 us; ➢ The CCA time used by the equipment shall be declared by the supplier; ➢ COT = 1-10 ms; ➢ Idle Period = 5% of COT; ➢ Detection threshold level = -70dBm/MHz + 20 – Pout E.I.R.P (Pout in dBm);
☐ LBT based Detect and Avoid(Load Based Equipment) ➢ The CCA observation time shall be not less than 20 us; ➢ The CCA time used by the equipment shall be declared by the supplier; ➢ COT ≤ (13 / 32) * q ms; q = [4~32]; 1.625ms~13ms; ➢ R = number of clear idle slots are randomly [1~q]. Every time an Extended CCA is required and the 'R' value stored in a counter. ➢ Detection threshold level = -70dBm/MHz + 20 – Pout E.I.R.P (Pout in dBm);
☒ Short Control Signalling Transmissions: ➢ Short Control Signalling Transmissions shall have a maximum duty cycle of 10% within an observation period of 50ms.

7.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.7

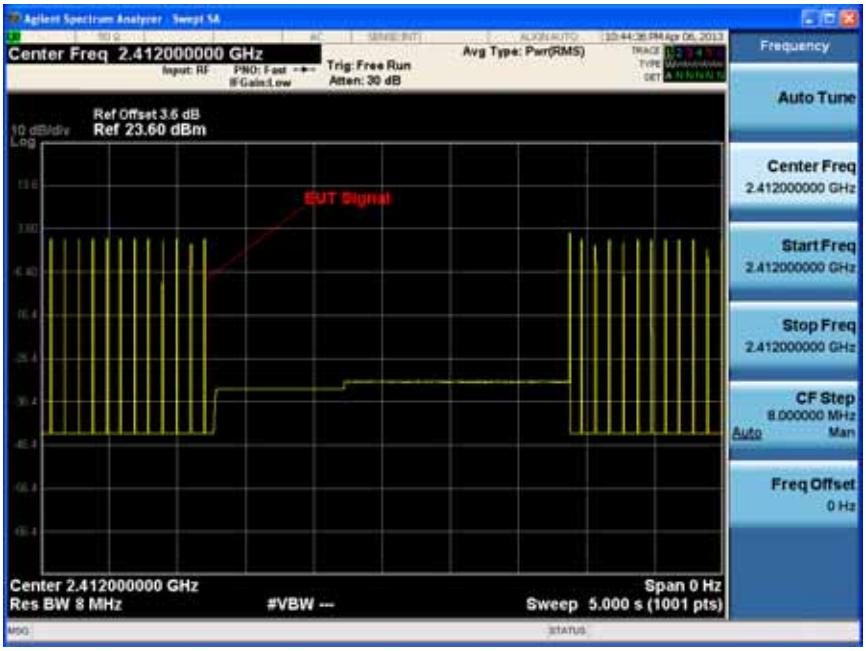
7.5. Test Result

Product	:	WLE350NX
Test Item	:	Adaptivity
Test Site	:	TR-8
Test Mode	:	Mode: Normal Operation(802.11n20MHz)

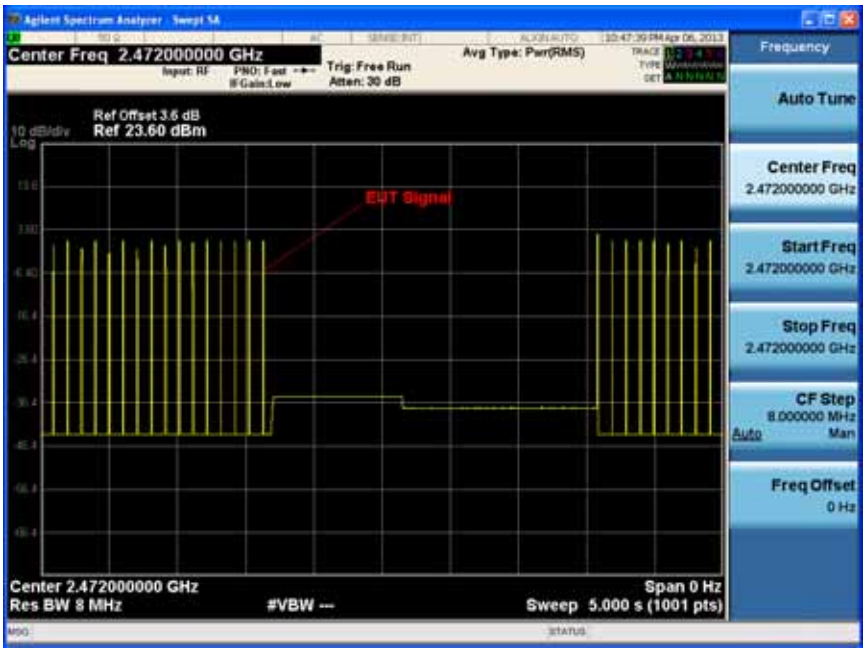
Interference Signal Channel 01 Calibration Plot

Interference Signal Channel 13 Calibration Plot

Test Phenomena Channel 01



Test Phenomena Channel 13



Test Result	Pass

Product	:	WLE350NX
Test Item	:	Adaptivity
Test Site	:	TR-8
Test Mode	:	Mode: Normal Operation(802.11n40MHz)

Interference Signal Channel 03 Calibration Plot

Interference Signal Channel 11 Calibration Plot

Test Phenomena Channel 03

Test Phenomena Channel 11

Test Result	Pass

8. Occupied Channel Bandwidth

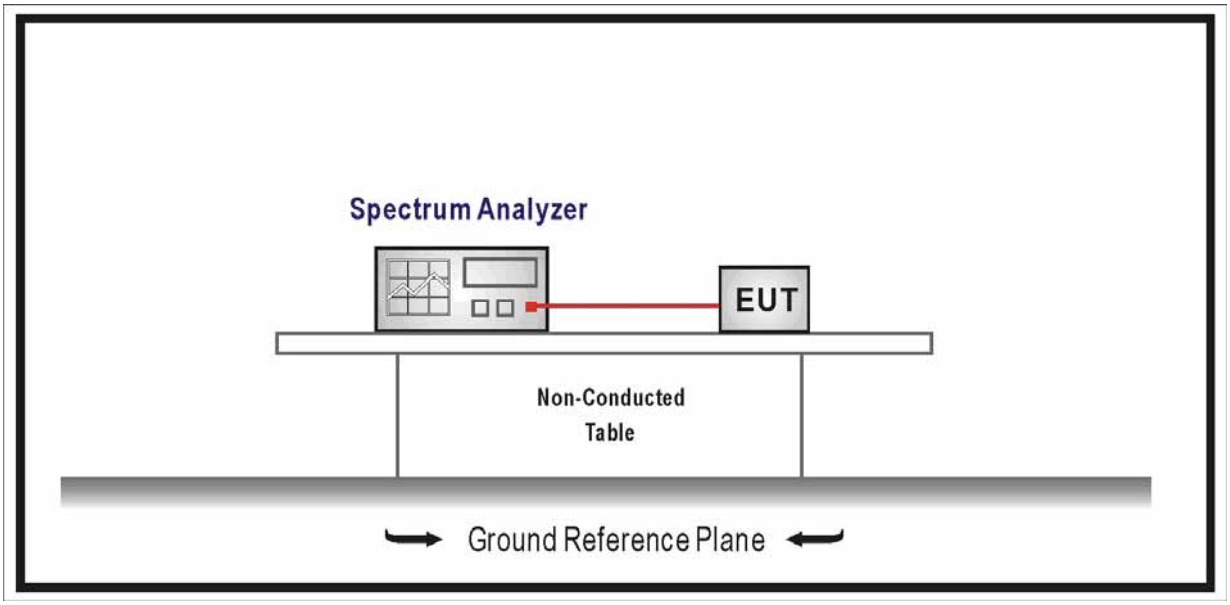
8.1. Test Equipment

Occupied Channel Bandwidth / TR8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014/03/30
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2013/05/07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. Limit

The Occupied Channel Bandwidth for each hopping frequency shall fall completely within the band given in 2.4GHz to 2.4835GHz.
For non-adaptive Frequency Hopping equipment with E.I.R.P greater than 10dBm, the Occupied Channel Bandwidth for every occupied hopping frequency shall be equal to or less than the value declared by the supplier. This declared value shall not be greater than 5 MHz.

8.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.5

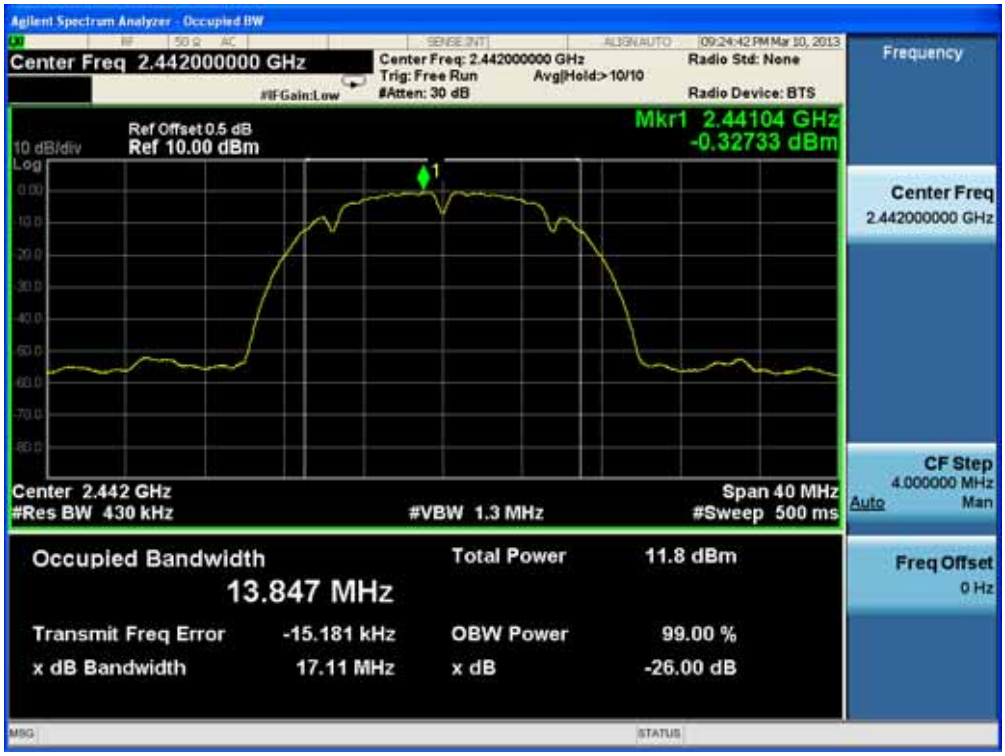
8.5. Test Result

Product	:	WLE350NX
Test Item	:	Occupied Channel Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	99% Bandwidth (MHz)
01	2412	13.820
07	2442	13.847
13	2472	13.856

Channel 01 (2412MHz)

Channel 7 (2442MHz)



Channel 13 (2472MHz)

Test Result	Pass

Product	:	WLE350NX
Test Item	:	Occupied Channel Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	99% Bandwidth (MHz)
01	2412	16.632
07	2442	16.638
13	2472	16.633

Channel 01 (2412MHz)

Channel 7 (2442MHz)

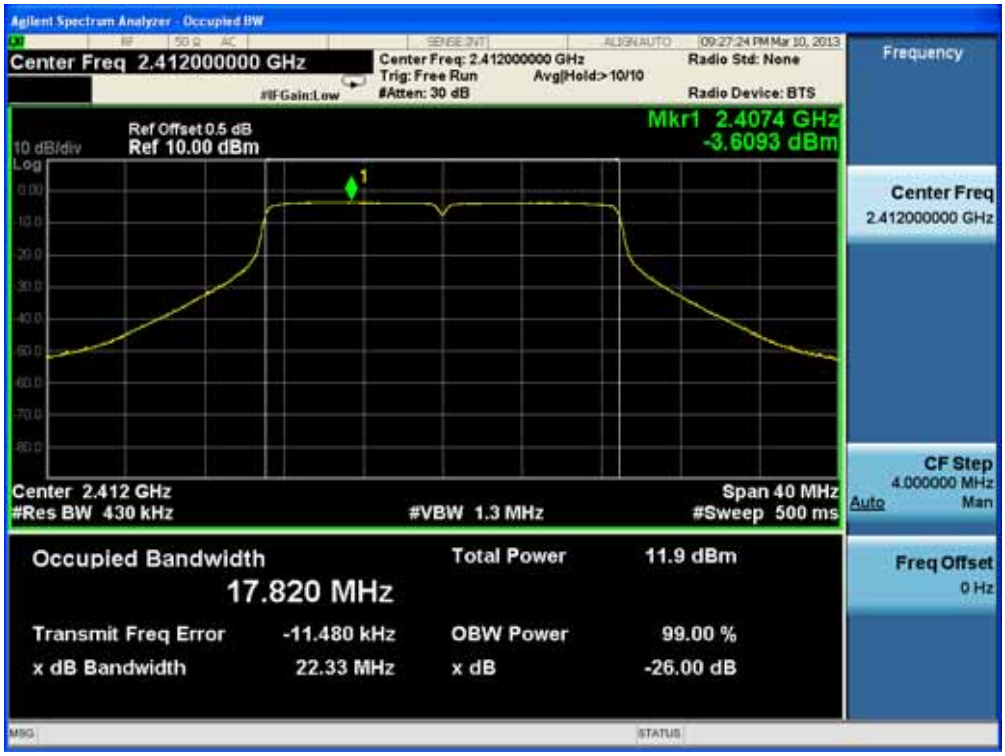
Channel 13 (2472MHz)

Test Result	Pass

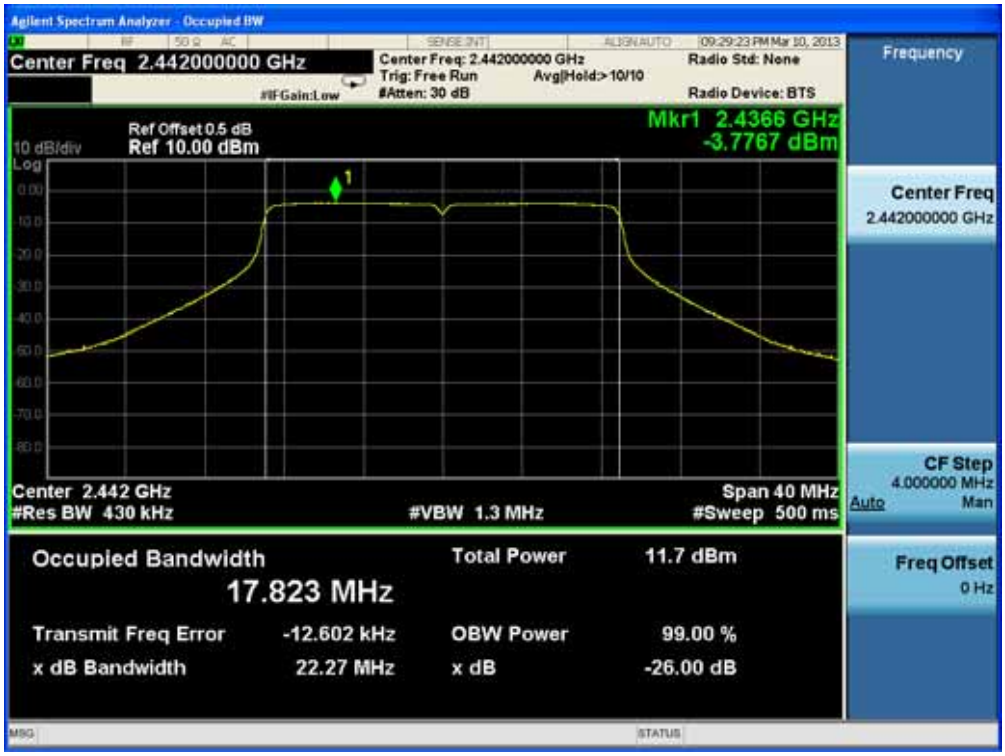
Product	:	WLE350NX
Test Item	:	Occupied Channel Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	99% Bandwidth (MHz)
01	2412	17.820
07	2442	17.823
13	2472	17.822

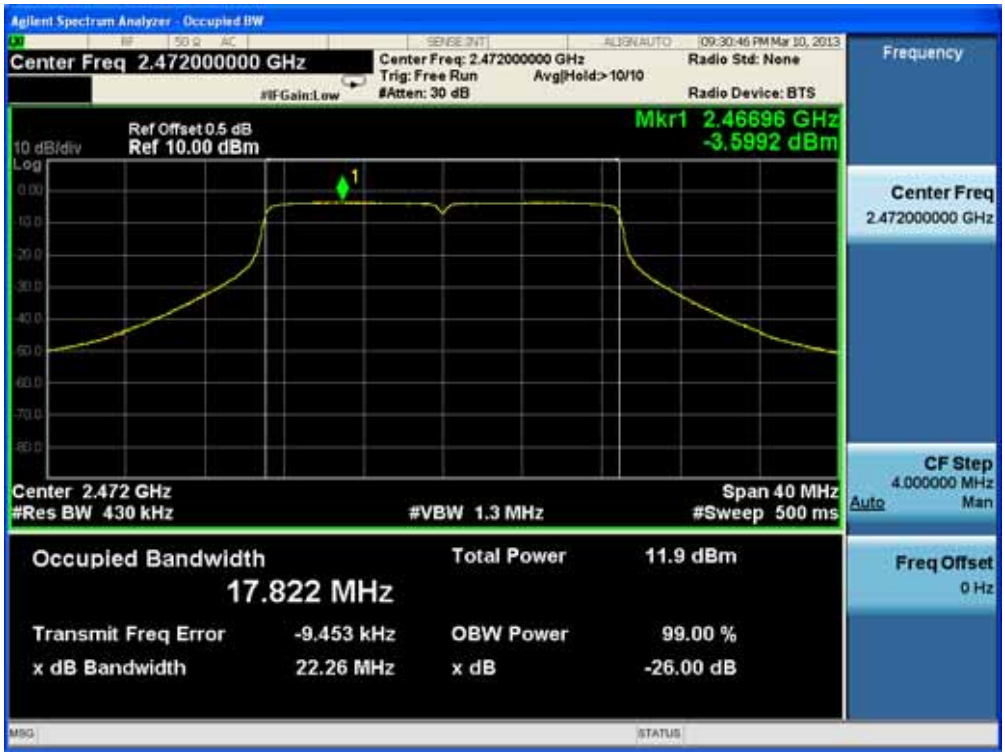
Channel 01 (2412MHz)



Channel 7 (2442MHz)



Channel 13 (2472MHz)



Test Result	Pass

Product	:	WLE350NX
Test Item	:	Occupied Channel Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	99% Bandwidth (MHz)
03	2422	36.599
07	2442	36.600
11	2462	36.608

Channel 03 (2422MHz)

Channel 7 (2442MHz)

Channel 11 (2462MHz)

Test Result	Pass

9. Transmitter unwanted emissions in the out-of-band domain

9.1. Test Equipment

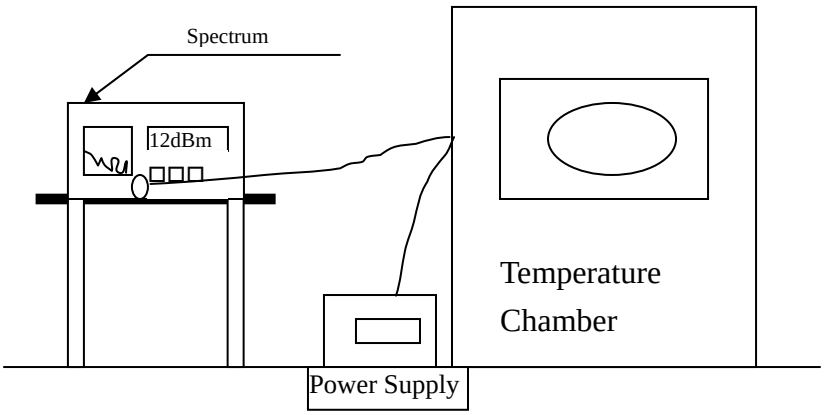
Transmitter unwanted emissions in the out-of-band domain / TR8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2014/03/30
DC Power Supply	IDRC	CD-035-020PR	977272	2013/09/17
Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2014/01/10
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2013/05/07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup

For Conducted Measurement



9.3. Limit

The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in figure 3.

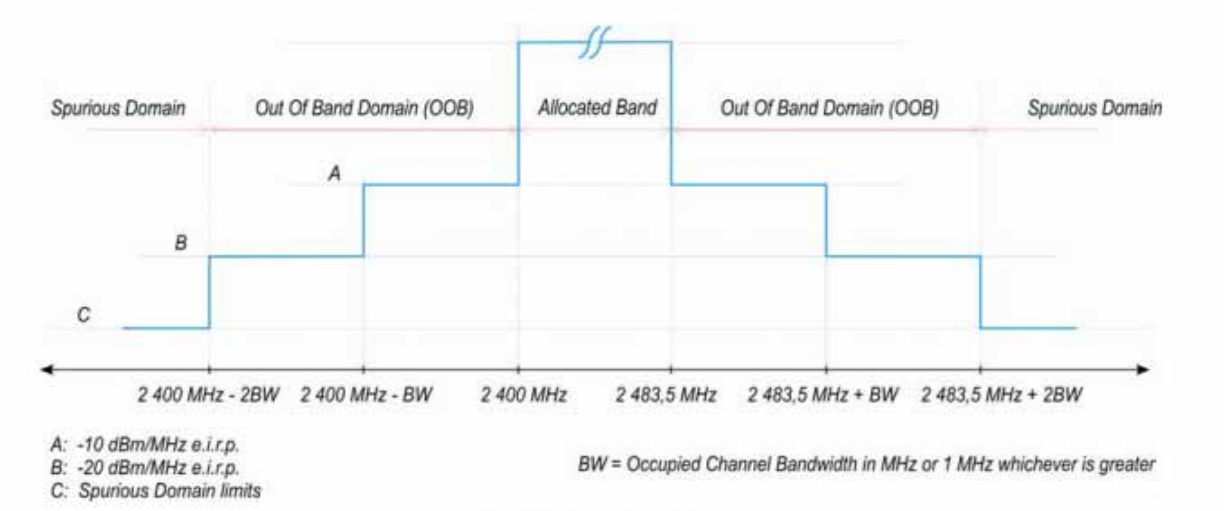


Figure 3: Transmit mask

9.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.9

9.5. Test Result

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2385.7	25	-67.1	-62.1	-20
2399.5	25	-70.5	-65.5	-10
2484	25	-66.3	-61.3	-10
2497.9	25	-69.7	-74.7	-20
2385.7	0	-66.4	-61.4	-20
2399.5	0	-69.4	-64.4	-10
2484	0	-65.3	-60.3	-10
2497.9	0	-68.6	-63.6	-20
2385.7	40	-67.5	-62.5	-20
2399.5	40	-70.8	-65.8	-10
2484	40	-66.2	-61.2	-10
2497.9	40	-68.7	-63.7	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2385.7	25	-66.8	-61.8	-20
2399.5	25	-69.4	-64.4	-10
2484	25	-66.7	-61.7	-10
2497.9	25	69.8	74.8	-20
2385.7	0	-66.2	-61.2	-20
2399.5	0	-69.6	-64.6	-10
2484	0	-65.4	-60.4	-10
2497.9	0	-68.5	-63.5	-20
2385.7	40	-67.3	-62.3	-20
2399.5	40	-70.4	-65.4	-10
2484	40	-66.1	-61.1	-10
2497.9	40	-68.7	-63.7	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2385.7	25	-65.1	-60.1	-20
2399.5	25	-70.1	-65.1	-10
2484	25	-66.3	-61.3	-10
2497.9	25	68.7	73.7	-20
2385.7	0	-66.3	-61.3	-20
2399.5	0	-69.4	-64.4	-10
2484	0	-64.9	-59.9	-10
2497.9	0	-68.9	-63.9	-20
2385.7	40	-67.4	-62.4	-20
2399.5	40	-70.3	-65.3	-10
2484	40	-66.8	-61.8	-10
2497.9	40	-68.1	-63.1	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2382.9	25	-33.2	-28.2	-20
2399.5	25	-30.2	-25.2	-10
2484	25	-32.2	-27.2	-10
2500.6	25	-50.1	-45.1	-20
2382.9	0	-32.7	-27.7	-20
2399.5	0	-30.1	-25.1	-10
2484	0	-32.1	-27.1	-10
2500.6	0	-48.2	-43.2	-20
2382.9	40	-34.1	-29.1	-20
2399.5	40	-30.5	-25.5	-10
2484	40	-32.5	-27.5	-10
2500.6	40	-51.3	-46.3	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2382.9	25	-33.1	-28.1	-20
2399.5	25	-30.6	-25.6	-10
2484	25	-32.4	-27.4	-10
2500.6	25	-49.7	-44.7	-20
2382.9	0	-31.2	-26.2	-20
2399.5	0	-30.4	-25.4	-10
2484	0	-32.6	-27.6	-10
2500.6	0	-48.2	-43.2	-20
2382.9	40	-34.7	-29.7	-20
2399.5	40	-31.3	-26.3	-10
2484	40	-33.6	-28.6	-10
2500.6	40	-50.2	-45.2	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2382.9	25	-34.1	-29.1	-20
2399.5	25	-31.5	-26.5	-10
2484	25	-33.4	-28.4	-10
2500.6	25	-50.7	-45.7	-20
2382.9	0	-30.7	-25.7	-20
2399.5	0	-30.4	-25.4	-10
2484	0	-33.2	-28.2	-10
2500.6	0	-47.1	-42.1	-20
2382.9	40	-35.3	-30.3	-20
2399.5	40	-31.7	-26.7	-10
2484	40	-32.6	-27.6	-10
2500.6	40	-47.3	-42.3	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2381.7	25	-52.4	-47.4	-20
2399.5	25	-31.4	-26.4	-10
2484.0	25	-31.7	-26.7	-10
2501.8	25	-52.3	-47.3	-20
2381.7	0	-50.2	-45.2	-20
2399.5	0	-30.2	-25.2	-10
2484.0	0	-30.4	-25.4	-10
2501.8	0	-51.5	-46.5	-20
2381.7	40	-52.7	-47.7	-20
2399.5	40	-31.9	-26.9	-10
2484.0	40	-32.4	-27.4	-10
2501.8	40	-52.8	-47.8	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2381.7	25	-52.7	-47.7	-20
2399.5	25	-32.4	-27.4	-10
2484.0	25	-30.3	-25.3	-10
2501.8	25	-52.8	-47.8	-20
2381.7	0	-51.3	-46.3	-20
2399.5	0	-31.7	-26.7	-10
2484.0	0	-30.4	-25.4	-10
2501.8	0	-51.4	-46.4	-20
2381.7	40	-53.1	-48.1	-20
2399.5	40	-33.4	-28.4	-10
2484.0	40	-30.7	-25.7	-10
2501.8	40	-51.3	-46.3	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 2)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2381.7	25	-52.5	-47.5	-20
2399.5	25	-32.6	-27.6	-10
2484.0	25	-30.4	-25.4	-10
2501.8	25	-53.1	-48.1	-20
2381.7	0	-50.6	-45.6	-20
2399.5	0	-30.1	-25.1	-10
2484.0	0	-30.7	-25.7	-10
2501.8	0	-50.7	-45.7	-20
2381.7	40	-52.7	-47.7	-20
2399.5	40	-32.4	-27.4	-10
2484.0	40	-31.3	-26.3	-10
2501.8	40	-52.1	-47.1	-20

Max measured values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit 2472MHz by 802.11n(20MHz) (Chain 0+1)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB					
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)		Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1		
2381.7	25	-35.9	-36.0	-27.9	-20
2399.5	25	-27.1	-27.0	-19.0	-10
2484.0	25	-26.4	-26.3	-18.3	-10
2501.8	25	-37.8	-37.7	-29.7	-20
2381.7	0	-33.7	-33.7	-25.7	-20
2399.5	0	-28.5	-28.4	-20.4	-10
2484.0	0	-26.9	-27.1	-19.0	-10
2501.8	0	-34.5	-34.5	-26.5	-20
2381.7	40	-33.5	-33.6	-25.5	-20
2399.5	40	-24.1	-24.1	-16.1	-10
2484.0	40	-25.6	-25.7	-17.6	-10
2501.8	40	-35.1	-34.9	-27.0	-20

Max Measured Values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0+1+2)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB						
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)			Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2		
2381.7	25	-37.7	-37.7	-37.7	-27.9	-20
2399.5	25	-28.9	-28.8	-28.8	-19.1	-10
2484.0	25	-28.9	-28.8	-28.9	-19.1	-10
2501.8	25	-39.7	-39.7	-39.7	-29.9	-20
2381.7	0	-35.9	-35.8	-36.0	-26.1	-20
2399.5	0	-27.4	-27.4	-27.5	-17.7	-10
2484.0	0	-27.5	-27.5	-27.6	-17.8	-10
2501.8	0	-35.1	-35.2	-35.1	-25.4	-20
2381.7	40	-35.8	-35.8	-35.6	-26.0	-20
2399.5	40	-26.0	-26.0	-26.1	-16.3	-10
2484.0	40	-24.9	-24.9	-25.9	-15.4	-10
2501.8	40	-35.2	-35.1	-35.1	-25.4	-20

Max Measured Values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2362.9	25	-52.6	-49.6	-20
2399.5	25	-31.9	-28.9	-10
2484.0	25	-30.7	-27.7	-10
2520.6	25	-50.7	-47.7	-20
2362.9	0	-51.7	-48.7	-20
2399.5	0	-31.1	-28.1	-10
2484.0	0	-30.3	-27.3	-10
2520.6	0	-50.1	-47.1	-20
2362.9	40	-53.0	-50.0	-20
2399.5	40	-31.9	-28.9	-10
2484.0	40	-31.4	-28.4	-10
2520.6	40	-51.2	-48.2	-20

Max Measured Values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 1)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2362.9	25	-52.3	-47.3	-20
2399.5	25	-30.6	-25.6	-10
2484.0	25	-30.8	-25.8	-10
2520.6	25	-51.2	-46.2	-20
2362.9	0	-51.7	-46.7	-20
2399.5	0	-29.4	-24.4	-10
2484.0	0	-29.3	-24.3	-10
2520.6	0	-50.7	-45.7	-20
2362.9	40	-52.8	-47.8	-20
2399.5	40	-31.1	-26.1	-10
2484.0	40	-31.7	-26.7	-10
2520.6	40	-51.8	-46.8	-20

Max Measured Values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 2)

Antenna Gain = 6.5dBi, Cable Loss = 0.5dB				
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)	Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
2362.9	25	-52.7	-47.7	-20
2399.5	25	-30.3	-25.3	-10
2484.0	25	-30.2	-25.2	-10
2520.6	25	-51.1	-46.1	-20
2362.9	0	-51.3	-46.3	-20
2399.5	0	-29.1	-24.1	-10
2484.0	0	-29.7	-24.7	-10
2520.6	0	-50.3	-45.3	-20
2362.9	40	-51.4	-46.4	-20
2399.5	40	-32.6	-27.6	-10
2484.0	40	-31.5	-26.5	-10
2520.6	40	-51.7	-46.7	-20

Max Measured Values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit 2462MHz by 802.11n(20MHz) (Chain 0+1)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB					
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)		Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1		
2362.9	25	-38.9	-38.9	-30.9	-20
2399.5	25	-28.1	-28.1	-20.1	-10
2484.0	25	-25.4	-25.4	-17.4	-10
2520.6	25	-38.1	-38.2	-30.1	-20
2362.9	0	-35.4	-35.4	-27.4	-20
2399.5	0	-27.2	-27.2	-19.20	-10
2484.0	0	-26.4	-26.4	-18.4	-10
2520.6	0	-35.6	-35.6	-27.6	-20
2362.9	40	-34.8	-35.0	-26.9	-20
2399.5	40	-24.2	-24.2	-16.2	-10
2484.0	40	-24.5	-24.6	-16.5	-10
2520.6	40	-40.0	-35.9	-29.5	-20

Max Measured Values = Reading Values + Antenna Gain + Cable Loss.

Product	:	WLE350NX
Test Item	:	Transmitter unwanted emissions in the out-of-band domain
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit 2472MHz by 802.11n(20MHz) (Chain 0+1+2)

Antenna Gain = 4.5dBi, Cable Loss = 0.5dB						
Frequency Range (MHz)	Test Conditions (℃)	Max Reading Values (dBm/MHz)			Max Measured Values (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2		
2362.9	25	-38.4	-38.6	-38.5	-28.7	-20
2399.5	25	-27.7	-27.7	-27.6	-17.9	-10
2484.0	25	-27.0	-27.0	-27.2	-17.3	-10
2520.6	25	-38.1	-38.1	-38.1	-28.3	-20
2362.9	0	-35.0	-34.9	-35.0	-25.2	-20
2399.5	0	-27.3	-27.3	-27.3	-17.5	-10
2484.0	0	-27.5	-27.6	-27.5	-17.8	-10
2520.6	0	-35.4	-35.5	-35.5	-25.7	-20
2362.9	40	-35.5	-35.6	-35.5	-25.8	-20
2399.5	40	-25.1	-25.2	-25.2	-15.4	-10
2484.0	40	-24.1	-24.2	-24.1	-14.4	-10
2520.6	40	-35.0	-35.0	-35.0	-25.2	-20

Max Measured Values = Reading Values + Antenna Gain + Cable Loss.

10. Transmitter unwanted emissions in the spurious domain

10.1. Test Equipment

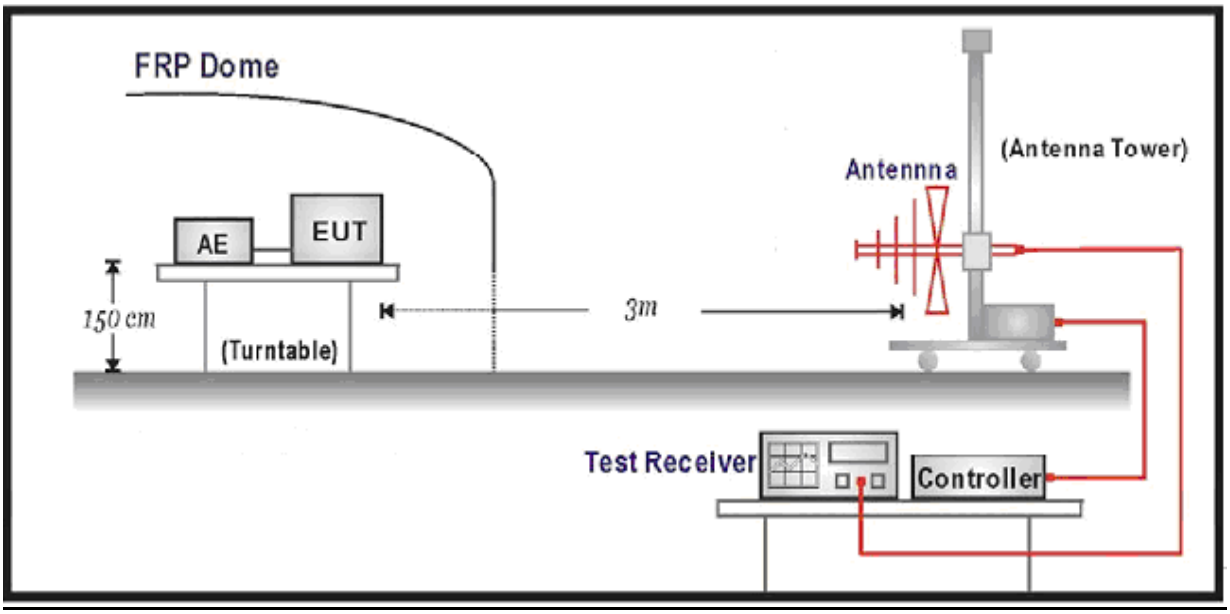
Transmitter Spurious Emissions / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
Spectrum Analyzer	Agilent	E4440A	MY49420184	2014/03/30
PSG Analog S.G.	Agilent	E8257D	MY44321116	2014/03/30
Preamplifier	Agilent	8449B	3008A02597	2014/04/10
Bilog Antenna	Schaffner	CBL6112B	2932	2013/10/15
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014/06/08
Filter Banks	QuieTek	QTK-FB	AC6-FB	2013/05/04
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2014/01/11

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

10.2. Test Setup

For Radiated Measurement



10.3. Limit

Transmitter Limits for Spurious Emissions		
Frequency Range	Maximum power E.R.P. (≤ 1GHz) E.I.R.P. (> 1GHz)	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 862 MHz	-54 dBm	100 kHz
862 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz

10.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.10

10.5. Test Result

Test by panel antenna

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
300.0	H	-59.1	-36	-23.1	PK
299.9	V	-61.0	-36	-25.0	PK
399.0	H	-55.7	-36	-19.7	PK
399.0	V	-57.3	-36	-21.3	PK
4824.0	H	-51.8	-30	-21.8	PK
4824.0	V	-51.0	-30	-21.0	PK
7236.0	H	-46.7	-30	-16.7	PK
7236.0	V	-45.5	-30	-15.5	PK
Channel 13 (2472MHz)					
258.1	H	-66.1	-36	-30.1	PK
257.7	V	-65.7	-36	-29.7	PK
299.3	H	-58.7	-36	-22.7	PK
299.9	V	-60.7	-36	-24.7	PK
4944.0	H	-52.0	-30	-22.0	PK
4944.0	V	-50.4	-30	-20.4	PK
7416.0	H	-45.6	-30	-15.6	PK
7416.0	V	-45.2	-30	-15.2	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
299.3	H	-59.1	-36	-23.1	PK
299.9	V	-60.1	-36	-24.1	PK
336.0	H	-51.9	-36	-15.9	PK
336.0	V	-56.2	-36	-20.2	PK
4824.0	H	-51.6	-30	-21.6	PK
4824.0	V	-51.0	-30	-21.0	PK
7236.0	H	-46.6	-30	-16.6	PK
7236.0	V	-45.1	-30	-15.1	PK
Channel 13 (2472MHz)					
240.0	H	-67.8	-36	-31.8	PK
263.3	V	-65.5	-36	-29.5	PK
399.0	H	-56.1	-36	-20.1	PK
399.0	V	-56.9	-36	-20.9	PK
4944.0	H	-51.9	-30	-21.9	PK
4944.0	V	-50.4	-30	-20.4	PK
7416.0	H	-45.7	-30	-15.7	PK
7416.0	V	-45.3	-30	-15.3	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
263.2	H	-67.3	-36	-31.3	PK
269.2	V	-67.3	-36	-31.3	PK
433.3	H	-65.3	-36	-29.3	PK
431.9	V	-68.0	-36	-32.0	PK
4824.0	H	-51.8	-30	-21.8	PK
4824.0	V	-51.9	-30	-21.9	PK
7236.0	H	-47.3	-30	-17.3	PK
7236.0	V	-46.3	-30	-16.3	PK
Channel 13 (2472MHz)					
299.3	H	-58.6	-36	-22.6	PK
299.3	V	-59.8	-36	-23.8	PK
432.6	H	-65.4	-36	-29.4	PK
432.2	V	-68.0	-36	-32.0	PK
4944.0	H	-52.1	-30	-22.1	PK
4944.0	V	-51.3	-30	-21.3	PK
7416.0	H	-45.6	-30	-15.6	PK
7416.0	V	-45.0	-30	-15.0	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
335.9	H	-57.1	-36	-21.1	PK
299.3	V	-60.4	-36	-24.4	PK
432.3	H	-66.7	-36	-30.7	PK
399.2	V	-58.7	-36	-22.7	PK
4824.0	H	-52.0	-30	-22.0	PK
4824.0	V	-50.1	-30	-20.1	PK
7236.0	H	-45.9	-30	-15.9	PK
7236.0	V	-45.9	-30	-15.9	PK
Channel 13 (2472MHz)					
299.3	H	-58.8	-36	-22.8	PK
268.9	V	-65.6	-36	-29.6	PK
399.9	H	-56.5	-36	-20.5	PK
336.0	V	-59.9	-36	-23.9	PK
4944.0	H	-51.3	-30	-21.3	PK
4944.0	V	-50.8	-30	-20.8	PK
7409.6	H	-43.6	-30	-13.6	PK
7416.0	V	-45.5	-30	-15.5	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
258.0	H	-65.5	-36	-29.5	PK
263.6	V	-66.2	-36	-30.2	PK
399.0	H	-56.1	-36	-20.1	PK
399.0	V	-57.2	-36	-21.2	PK
4824.0	H	-52.2	-30	-22.2	PK
4824.0	V	-52.2	-30	-22.2	PK
7236.0	H	-46.0	-30	-16.0	PK
7236.0	V	-46.1	-30	-16.1	PK
Channel 13 (2472MHz)					
258.4	H	-65.8	-36	-29.8	PK
263.3	V	-66.0	-36	-30.0	PK
433.3	H	-66.2	-36	-30.2	PK
433.3	V	-68.2	-36	-32.2	PK
4944.0	H	-52.2	-30	-22.2	PK
4944.0	V	-50.5	-30	-20.5	PK
7416.0	H	-46.2	-30	-16.2	PK
7416.0	V	-45.5	-30	-15.5	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
299.3	H	-58.9	-36	-22.9	PK
299.3	V	-60.0	-36	-24.0	PK
338.6	H	-67.9	-36	-31.9	PK
338.5	V	-67.8	-36	-31.8	PK
4824.0	H	-51.2	-30	-21.2	PK
4824.0	V	-51.5	-30	-21.5	PK
7236.0	H	-46.8	-30	-16.8	PK
7236.0	V	-46.2	-30	-16.2	PK
Channel 13 (2472MHz)					
336.0	H	-57.1	-36	-21.1	PK
336.0	V	-59.0	-36	-23.0	PK
399.0	H	-55.8	-36	-19.8	PK
399.0	V	-56.7	-36	-20.7	PK
4824.0	H	-51.2	-30	-21.2	PK
4824.0	V	-51.5	-30	-21.5	PK
7236.0	H	-46.8	-30	-16.8	PK
7236.0	V	-46.2	-30	-16.2	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
258.4	H	-64.9	-36	-28.9	PK
263.9	V	-64.7	-36	-28.7	PK
399.0	H	-56.7	-36	-20.7	PK
336.0	V	-58.7	-36	-22.7	PK
4824.0	H	-51.4	-30	-21.4	PK
4824.0	V	-51.0	-30	-21.0	PK
7236.0	H	-46.3	-30	-16.3	PK
7236.0	V	-45.4	-30	-15.4	PK
Channel 13 (2472MHz)					
258.1	H	-65.1	-36	-29.1	PK
263.5	V	-66.2	-36	-30.2	PK
433.3	H	-66.1	-36	-30.1	PK
336.0	V	-56.6	-36	-20.6	PK
4994.0	H	-49.9	-30	-19.9	PK
4944.0	V	-51.1	-30	-21.1	PK
7416.0	H	-45.8	-30	-15.8	PK
7416.0	V	-45.6	-30	-15.6	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
252.4	H	-65.7	-36	-29.7	PK
263.5	V	-65.6	-36	-29.6	PK
432.8	H	-65.0	-36	-29.0	PK
366.6	V	-66.9	-36	-30.9	PK
4824.0	H	-52.2	-30	-22.2	PK
4824.0	V	-51.8	-30	-21.8	PK
7236.0	H	-45.9	-30	-15.9	PK
7236.0	V	-45.4	-30	-15.4	PK
Channel 13 (2472MHz)					
258.2	H	-65.9	-36	-29.9	PK
263.3	V	-65.3	-36	-29.3	PK
336.0	H	-51.8	-36	-15.8	PK
399.8	V	-59.2	-36	-23.2	PK
4944.0	H	-51.8	-30	-21.8	PK
4944.0	V	-50.7	-30	-20.7	PK
7416.0	H	-46.2	-30	-16.2	PK
7416.0	V	-45.3	-30	-15.3	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
263.6	H	-67.5	-36	-31.5	PK
335.9	V	-61.9	-36	-25.9	PK
338.5	H	-65.8	-36	-29.8	PK
399.0	V	-60.3	-36	-24.3	PK
4824.0	H	-51.3	-30	-21.3	PK
4824.0	V	-51.1	-30	-21.1	PK
7236.0	H	-47.1	-30	-17.1	PK
7236.0	V	-46.3	-30	-16.3	PK
Channel 13 (2472MHz)					
329.2	H	-70.5	-36	-34.5	PK
268.7	V	-69.4	-36	-33.4	PK
433.3	H	-66.1	-36	-30.1	PK
366.2	V	-68.8	-36	-32.8	PK
4944.0	H	-51.3	-30	-21.3	PK
4944.0	V	-51.1	-30	-21.1	PK
7416.0	H	-45.2	-30	-15.2	PK
7416.0	V	-45.2	-30	-15.2	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0+1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
258.3	H	-65.5	-36	-29.5	PK
257.8	V	-69.4	-36	-33.4	PK
365.7	H	-68.8	-36	-32.8	PK
433.3	V	-68.8	-36	-32.8	PK
4824.0	H	-52.1	-30	-22.1	PK
4824.0	V	-51.1	-30	-21.1	PK
7236.0	H	-46.5	-30	-16.5	PK
7236.0	V	-46.3	-30	-16.3	PK
Channel 13 (2472MHz)					
258.3	H	-65.0	-36	-29.0	PK
257.6	V	-66.3	-36	-30.3	PK
365.7	H	-68.9	-36	-32.9	PK
329.4	V	-70.1	-36	-34.1	PK
4944.0	H	-51.9	-30	-21.9	PK
4944.0	V	-50.8	-30	-20.8	PK
7411.1	H	-44.1	-30	-14.1	PK
7416.0	V	-45.2	-30	-15.2	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0+1+2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
300.0	H	-68.3	-36	-32.3	PK
299.3	V	-69.7	-36	-33.7	PK
366.1	H	-69.0	-36	-33.0	PK
431.9	V	-68.0	-36	-32.0	PK
4824.0	H	-52.0	-30	-22.0	PK
4824.0	V	-51.9	-30	-21.9	PK
7236.0	H	-46.2	-30	-16.2	PK
7236.0	V	-47.0	-30	-17.0	PK
Channel 13 (2472MHz)					
299.3	H	-67.4	-36	-31.4	PK
299.3	V	-68.6	-36	-32.6	PK
432.3	H	-67.4	-36	-31.4	PK
431.9	V	-68.2	-36	-32.2	PK
4944.0	H	-52.2	-30	-22.2	PK
4944.0	V	-51.4	-30	-21.4	PK
7416.0	H	-45.7	-30	-15.7	PK
7416.0	V	-45.8	-30	-15.8	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
338.5	H	-68.3	-36	-32.3	PK
275.7	V	-73.5	-36	-37.5	PK
433.3	H	-68.3	-36	-32.3	PK
336.0	V	-63.7	-36	-27.7	PK
4844.0	H	-51.3	-30	-21.3	PK
4944.0	V	-50.5	-30	-20.5	PK
7266.0	H	-45.8	-30	-15.8	PK
7266.0	V	-45.6	-30	-15.6	PK
Channel 11 (2462MHz)					
300.0	H	-67.5	-36	-31.5	PK
338.5	V	-67.5	-36	-31.5	PK
358.0	H	-72.6	-36	-36.6	PK
432.4	V	-67.7	-36	-31.7	PK
4924.0	H	-51.5	-30	-21.5	PK
4924.0	V	-51.1	-30	-21.1	PK
7386.0	H	-45.9	-30	-15.9	PK
7386.0	V	-45.8	-30	-15.8	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
423.0	H	-75.4	-36	-39.4	PK
439.7	V	-76.1	-36	-40.1	PK
723.8	H	-72.8	-54	-18.8	PK
539.1	V	-71.8	-54	-17.8	PK
4844.0	H	-51.6	-30	-21.6	PK
4844.0	V	-51.3	-30	-21.3	PK
7266.0	H	-46.1	-30	-16.1	PK
7266.0	V	-46.0	-30	-16.0	PK
Channel 11 (2462MHz)					
428.5	H	-76.9	-36	-40.9	PK
410.8	V	-76.9	-36	-40.9	PK
714.5	H	-74.6	-54	-20.6	PK
815.7	V	-73.7	-54	-19.7	PK
4924.0	H	-51.6	-30	-21.6	PK
4924.0	V	-51.7	-30	-21.7	PK
7386.0	H	-45.6	-30	-15.6	PK
7386.0	V	-46.0	-30	-16.0	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
423.0	H	-75.4	-36	-39.4	PK
439.7	V	-76.1	-36	-40.1	PK
723.8	H	-72.8	-54	-18.8	PK
539.1	V	-71.8	-54	-17.8	PK
4844.0	H	-51.2	-30	-21.2	PK
4844.0	V	-51.6	-30	-21.6	PK
7266.0	H	-45.7	-30	-15.7	PK
7266.0	V	-46.5	-30	-16.5	PK
Channel 11 (2462MHz)					
428.5	H	-76.9	-36	-40.9	PK
410.8	V	-76.9	-36	-40.9	PK
714.5	H	-74.6	-54	-20.6	PK
815.7	V	-73.7	-54	-19.7	PK
4924.0	H	-51.6	-30	-21.6	PK
4924.0	V	-51.4	-30	-21.4	PK
7386.0	H	-44.5	-30	-14.5	PK
7386.0	V	-45.8	-30	-15.8	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
423.0	H	-75.4	-36	-39.4	PK
439.7	V	-76.1	-36	-40.1	PK
723.8	H	-72.8	-54	-18.8	PK
539.1	V	-71.8	-54	-17.8	PK
4844.0	H	-51.6	-30	-21.6	PK
4844.0	V	-51.3	-30	-21.3	PK
7266.0	H	-45.8	-30	-15.8	PK
7266.0	V	-46.2	-30	-16.2	PK
Channel 11 (2462MHz)					
428.5	H	-76.9	-36	-40.9	PK
410.8	V	-76.9	-36	-40.9	PK
714.5	H	-74.6	-54	-20.6	PK
815.7	V	-73.7	-54	-19.7	PK
4924.0	H	-51.4	-30	-21.4	PK
4924.0	V	-51.2	-30	-21.2	PK
7386.0	H	-44.3	-30	-14.3	PK
7386.0	V	-46.2	-30	-16.2	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0+1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
423.0	H	-75.4	-36	-39.4	PK
439.7	V	-76.1	-36	-40.1	PK
723.8	H	-72.8	-54	-18.8	PK
539.1	V	-71.8	-54	-17.8	PK
4844.0	H	-52.0	-30	-22.0	PK
4844.0	V	-50.8	-30	-20.8	PK
7266.0	H	-46.3	-30	-16.3	PK
7266.0	V	-45.6	-30	-15.6	PK
Channel 11 (2462MHz)					
428.5	H	-76.9	-36	-40.9	PK
410.8	V	-76.9	-36	-40.9	PK
714.5	H	-74.6	-54	-20.6	PK
815.7	V	-73.7	-54	-19.7	PK
4924.0	H	-51.7	-30	-21.7	PK
4924.0	V	-51.9	-30	-21.9	PK
7386.0	H	-46.1	-30	-16.1	PK
7386.0	V	-45.5	-30	-15.5	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0+1+2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
423.0	H	-75.4	-36	-39.4	PK
439.7	V	-76.1	-36	-40.1	PK
723.8	H	-72.8	-54	-18.8	PK
539.1	V	-71.8	-54	-17.8	PK
4844.0	H	-51.6	-30	-21.6	PK
4844.0	V	-51.3	-30	-21.3	PK
7266.0	H	-45.8	-30	-15.8	PK
7266.0	V	-46.2	-30	-16.2	PK
Channel 11 (2462MHz)					
428.5	H	-76.9	-36	-40.9	PK
410.8	V	-76.9	-36	-40.9	PK
714.5	H	-74.6	-54	-20.6	PK
815.7	V	-73.7	-54	-19.7	PK
4924.0	H	-51.4	-30	-21.4	PK
4924.0	V	-51.2	-30	-21.2	PK
7386.0	H	-44.3	-30	-14.3	PK
7386.0	V	-46.2	-30	-16.2	PK

Test by antenna 1#

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
373.4	H	-65.1	-36	-29.1	PK
373.4	V	-63.8	-36	-27.8	PK
832.7	H	-68.3	-54	-14.3	PK
710.9	V	-70.2	-54	-16.2	PK
4824.0	H	-51.0	-30	-21.0	PK
4824.0	V	-50.6	-30	-20.6	PK
7236.0	H	-45.3	-30	-15.3	PK
7236.0	V	-45.5	-30	-15.5	PK
Channel 13 (2472MHz)					
399.6	H	-63.0	-36	-27.0	PK
399.6	V	-68.6	-36	-32.6	PK
632.9	H	-67.7	-54	-13.7	PK
710.9	V	-66.1	-54	-12.1	PK
4944.0	H	-51.5	-30	-21.5	PK
4944.0	V	-49.6	-30	-19.6	PK
7416.0	H	-45.1	-30	-15.1	PK
7416.0	V	-44.1	-30	-14.1	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
433.0	H	-65.0	-36	-29.0	PK
400.1	V	-66.4	-36	-30.4	PK
597.0	H	-61.8	-54	-7.8	PK
632.9	V	-68.7	-54	-14.7	PK
4824.0	H	-51.3	-30	-21.3	PK
4824.0	V	-51.0	-30	-21.0	PK
7236.0	H	-45.3	-30	-15.3	PK
7236.0	V	-45.6	-30	-15.6	PK
Channel 13 (2472MHz)					
399.6	H	-61.9	-36	-25.9	PK
395.7	V	-67.1	-36	-31.1	PK
632.9	H	-66.5	-54	-12.5	PK
720.2	V	-66.8	-54	-12.8	PK
4944.0	H	-51.3	-30	-21.3	PK
4944.0	V	-49.9	-30	-19.9	PK
7416.0	H	-45.4	-30	-15.4	PK
7416.0	V	-44.6	-30	-14.6	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
399.6	H	-62.0	-36	-26.0	PK
399.6	V	-67.4	-36	-31.4	PK
632.9	H	-67.2	-54	-13.2	PK
632.9	V	-67.8	-54	-13.8	PK
4824.0	H	-51.0	-30	-21.0	PK
4824.0	V	-50.6	-30	-20.6	PK
7236.0	H	-46.4	-30	-16.4	PK
7236.0	V	-46.0	-30	-16.0	PK
Channel 13 (2472MHz)					
399.6	H	-62.2	-36	-26.2	PK
399.6	V	-64.9	-36	-28.9	PK
632.9	H	-67.2	-54	-13.2	PK
630.4	V	-68.0	-54	-14.0	PK
4944.0	H	-51.4	-30	-21.4	PK
4944.0	V	-49.5	-30	-19.5	PK
7416.0	H	-45.2	-30	-15.2	PK
7416.0	V	-43.9	-30	-13.9	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
399.6	H	-62.4	-36	-26.4	PK
398.6	V	-66.5	-36	-30.5	PK
699.8	H	-63.9	-54	-9.9	PK
632.9	V	-69.1	-54	-15.1	PK
4824.0	H	-51.1	-30	-21.1	PK
4824.0	V	-50.6	-30	-20.6	PK
7236.0	H	-46.1	-30	-16.1	PK
7236.0	V	-45.7	-30	-15.7	PK
Channel 13 (2472MHz)					
399.6	H	-62.5	-36	-26.5	PK
399.1	V	-68.4	-36	-32.4	PK
632.9	H	-66.1	-54	-12.1	PK
710.0	V	-66.2	-54	-12.2	PK
4944.0	H	-51.0	-30	-21.0	PK
4944.0	V	-50.5	-30	-20.5	PK
7416.0	H	-45.8	-30	-15.8	PK
7416.0	V	-45.0	-30	-15.0	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
399.6	H	-62.4	-36	-26.4	PK
399.6	V	-66.8	-36	-30.8	PK
630.4	H	-67.1	-54	-13.1	PK
632.9	V	-67.4	-54	-13.4	PK
4824.0	H	-51.1	-30	-21.1	PK
4824.0	V	-51.0	-30	-21.0	PK
7236.0	H	-46.1	-30	-16.1	PK
7236.0	V	-45.2	-30	-15.2	PK
Channel 13 (2472MHz)					
432.1	H	-63.2	-36	-27.2	PK
399.6	V	-66.8	-36	-30.8	PK
566.4	H	-63.9	-54	-9.9	PK
632.9	V	-67.8	-54	-13.8	PK
4944.0	H	-50.2	-30	-20.2	PK
4944.0	V	-50.0	-30	-20.0	PK
7416.0	H	-45.4	-30	-15.4	PK
7416.0	V	-44.9	-30	-14.9	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
399.6	H	-62.0	-36	-26.0	PK
388.9	V	-66.8	-36	-30.8	PK
630.4	H	-67.6	-54	-13.6	PK
564.0	V	-67.2	-54	-13.2	PK
4824.0	H	-51.1	-30	-21.1	PK
4824.0	V	-50.9	-30	-20.9	PK
7236.0	H	-46.3	-30	-16.3	PK
7236.0	V	-45.9	-30	-15.9	PK
Channel 13 (2472MHz)					
399.6	H	-61.4	-36	-25.4	PK
399.6	V	-68.0	-36	-32.0	PK
566.4	H	-64.0	-54	-10.0	PK
630.4	V	-68.4	-54	-14.4	PK
4944.0	H	-50.6	-30	-20.6	PK
4944.0	V	-50.5	-30	-20.5	PK
7416.0	H	-45.7	-30	-15.7	PK
7416.0	V	-45.1	-30	-15.1	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
432.1	H	-65.0	-36	-29.0	PK
398.1	V	-67.6	-36	-31.6	PK
630.4	H	-67.4	-54	-13.4	PK
632.9	V	-68.8	-54	-14.8	PK
4824.0	H	-51.2	-30	-21.2	PK
4824.0	V	-50.5	-30	-20.5	PK
7236.0	H	-45.9	-30	-15.9	PK
7236.0	V	-45.5	-30	-15.5	PK
Channel 13 (2472MHz)					
399.6	H	-61.4	-36	-25.4	PK
399.6	V	-68.2	-36	-32.2	PK
630.4	H	-67.9	-54	-13.9	PK
624.1	V	-68.2	-54	-14.2	PK
4944.0	H	-50.4	-30	-20.4	PK
4944.0	V	-50.4	-30	-20.4	PK
7416.0	H	-45.1	-30	-15.1	PK
7416.0	V	-44.9	-30	-14.9	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
355.4	H	-62.9	-36	-26.9	PK
399.6	V	-67.3	-36	-31.3	PK
564.0	H	-64.2	-54	-10.2	PK
566.4	V	-67.1	-54	-13.1	PK
4824.0	H	-51.1	-30	-21.1	PK
4824.0	V	-51.5	-30	-21.5	PK
7236.0	H	-45.7	-30	-15.7	PK
7236.0	V	-46.0	-30	-16.0	PK
Channel 13 (2472MHz)					
400.1	H	-62.1	-36	-26.1	PK
398.1	V	-68.2	-36	-32.2	PK
632.9	H	-67.6	-54	-13.6	PK
630.4	V	-69.0	-54	-15.0	PK
4944.0	H	-51.8	-30	-21.8	PK
4944.0	V	-50.4	-30	-20.4	PK
7416.0	H	-45.9	-30	-15.9	PK
7416.0	V	-45.5	-30	-15.5	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
399.6	H	-61.5	-36	-25.5	PK
399.6	V	-66.6	-36	-30.6	PK
632.9	H	-66.7	-54	-12.7	PK
566.4	V	-67.8	-54	-13.8	PK
4824.0	H	-50.7	-30	-20.7	PK
4824.0	V	-51.3	-30	-21.3	PK
7236.0	H	-46.6	-30	-16.6	PK
7236.0	V	-45.9	-30	-15.9	PK
Channel 13 (2472MHz)					
399.6	H	-62.2	-36	-26.2	PK
399.6	V	-67.4	-36	-31.4	PK
564.0	H	-62.7	-54	-8.7	PK
710.5	V	-67.8	-54	-13.8	PK
4944.0	H	-51.9	-30	-21.9	PK
4944.0	V	-50.6	-30	-20.6	PK
7416.0	H	-44.8	-30	-14.8	PK
7416.0	V	-44.9	-30	-14.9	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0+1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
399.6	H	-61.1	-36	-25.1	PK
399.6	V	-66.5	-36	-30.5	PK
632.9	H	-66.8	-54	-12.8	PK
710.5	V	-67.6	-54	-13.6	PK
4824.0	H	-51.0	-30	-21.0	PK
4824.0	V	-50.5	-30	-20.5	PK
7236.0	H	-45.4	-30	-15.4	PK
7236.0	V	-45.9	-30	-15.9	PK
Channel 13 (2472MHz)					
399.6	H	-61.9	-36	-25.9	PK
398.1	V	-67.9	-36	-31.9	PK
564.0	H	-64.5	-54	-10.5	PK
624.1	V	-69.3	-54	-15.3	PK
4944.0	H	-51.4	-30	-21.4	PK
4944.0	V	-49.6	-30	-19.6	PK
7416.0	H	-45.5	-30	-15.5	PK
7416.0	V	-45.2	-30	-15.2	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0+1+2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
399.6	H	-61.9	-36	-25.9	PK
399.6	V	-67.5	-36	-31.5	PK
630.4	H	-66.8	-54	-12.8	PK
630.4	V	-68.1	-54	-14.1	PK
4824.0	H	-50.5	-30	-20.5	PK
4824.0	V	-51.2	-30	-21.2	PK
7236.0	H	-46.0	-30	-16.0	PK
7236.0	V	-46.2	-30	-16.2	PK
Channel 13 (2472MHz)					
399.6	H	-62.4	-36	-26.4	PK
400.1	V	-66.8	-36	-30.8	PK
632.9	H	-66.9	-54	-12.9	PK
599.4	V	-64.0	-54	-10.0	PK
4944.0	H	-51.1	-30	-21.1	PK
4944.0	V	-50.7	-30	-20.7	PK
7416.0	H	-45.1	-30	-15.1	PK
7416.0	V	-45.5	-30	-15.5	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
399.6	H	-62.4	-36	-26.4	PK
398.1	V	-65.9	-36	-29.9	PK
630.4	H	-67.3	-54	-13.3	PK
632.9	V	-68.4	-54	-14.4	PK
4844.0	H	-50.8	-30	-20.8	PK
4924.0	V	-50.7	-30	-20.7	PK
7266.0	H	-45.4	-30	-15.4	PK
7386.0	V	-44.9	-30	-14.9	PK
Channel 11 (2462MHz)					
399.6	H	-62.0	-36	-26.0	PK
398.1	V	-67.2	-36	-31.2	PK
566.4	H	-64.5	-54	-10.5	PK
566.4	V	-67.7	-54	-13.7	PK
4924.0	H	-51.2	-30	-21.2	PK
4924.0	V	-50.9	-30	-20.9	PK
7386.0	H	-44.6	-30	-14.6	PK
7386.0	V	-45.1	-30	-15.1	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
399.6	H	-61.8	-36	-25.8	PK
399.6	V	-67.9	-36	-31.9	PK
630.4	H	-68.0	-54	-14.0	PK
632.9	V	-67.7	-54	-13.7	PK
4844.0	H	-50.9	-30	-20.9	PK
4844.0	V	-50.4	-30	-20.4	PK
7266.0	H	-45.8	-30	-15.8	PK
7266.0	V	-44.7	-30	-14.7	PK
Channel 11 (2462MHz)					
399.6	H	-62.0	-36	-26.0	PK
399.6	V	-68.5	-36	-32.5	PK
630.4	H	-67.5	-54	-13.5	PK
632.9	V	-69.0	-54	-15.0	PK
4924.0	H	-51.3	-30	-21.3	PK
4924.0	V	-51.1	-30	-21.1	PK
7386.0	H	-45.5	-30	-15.5	PK
7386.0	V	-46.1	-30	-16.1	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 1)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
399.6	H	-61.6	-36	-25.6	PK
398.1	V	-67.2	-36	-31.2	PK
696.9	H	-63.3	-54	-9.3	PK
632.9	V	-68.4	-54	-14.4	PK
4844.0	H	-50.5	-30	-20.5	PK
4844.0	V	-50.3	-30	-20.3	PK
7266.0	H	-45.8	-30	-15.8	PK
7266.0	V	-45.5	-30	-15.5	PK
Channel 11 (2462MHz)					
399.6	H	-61.3	-36	-25.3	PK
398.1	V	-67.4	-36	-31.4	PK
699.8	H	-62.3	-54	-8.3	PK
720.2	V	-67.1	-54	-13.1	PK
4924.0	H	-51.4	-30	-21.4	PK
4924.0	V	-51.0	-30	-21.0	PK
7386.0	H	-45.8	-30	-15.8	PK
7386.0	V	-44.4	-30	-14.4	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
432.1	H	-64.0	-36	-28.0	PK
399.6	V	-67.8	-36	-31.8	PK
566.4	H	-64.1	-54	-10.1	PK
710.5	V	-66.8	-54	-12.8	PK
4844.0	H	-51.0	-30	-21.0	PK
4844.0	V	-50.2	-30	-20.2	PK
7266.0	H	-45.8	-30	-15.8	PK
7266.0	V	-44.8	-30	-14.8	PK
Channel 11 (2462MHz)					
399.6	H	-62.1	-36	-26.1	PK
389.4	V	-66.8	-36	-30.8	PK
632.9	H	-67.1	-54	-13.1	PK
564.0	V	-67.5	-54	-13.5	PK
4924.0	H	-51.0	-30	-21.0	PK
4924.0	V	-50.9	-30	-20.9	PK
7386.0	H	-44.9	-30	-14.9	PK
7386.0	V	-44.8	-30	-14.8	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0+1)

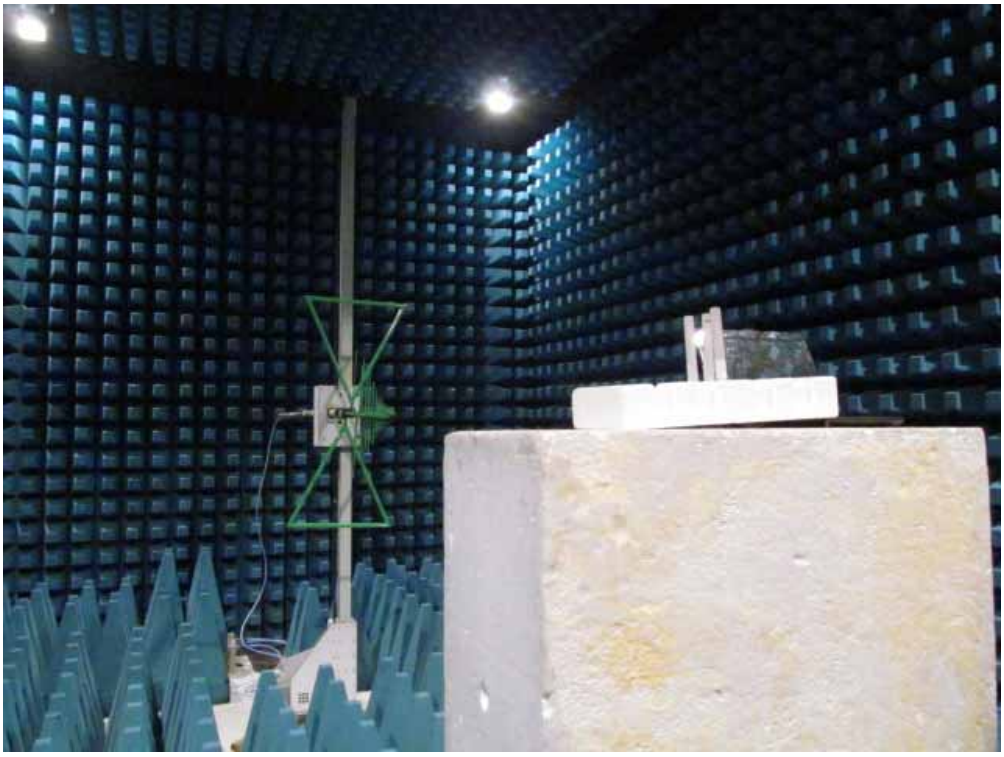
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
399.6	H	-61.8	-36	-25.8	PK
398.1	V	-65.6	-36	-29.6	PK
566.4	H	-63.8	-54	-9.8	PK
599.9	V	-63.5	-54	-9.5	PK
4844.0	H	-51.2	-30	-21.2	PK
4844.0	V	-50.3	-30	-20.3	PK
7266.0	H	-46.1	-30	-16.1	PK
7266.0	V	-45.6	-30	-15.6	PK
Channel 11 (2462MHz)					
399.6	H	-61.8	-36	-25.8	PK
398.6	V	-64.9	-36	-28.9	PK
564.0	H	-64.1	-54	-10.1	PK
566.4	V	-67.6	-54	-13.6	PK
4924.0	H	-50.9	-30	-20.9	PK
4924.0	V	-50.4	-30	-20.4	PK
7386.0	H	-44.6	-30	-14.6	PK
7386.0	V	-44.7	-30	-14.7	PK

Product	:	WLE350NX
Test Item	:	Transmitter spurious emissions
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0+1+2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
423.0	H	-75.4	-36	-39.4	PK
439.7	V	-76.1	-36	-40.1	PK
723.8	H	-72.8	-54	-18.8	PK
539.1	V	-71.8	-54	-17.8	PK
4844.0	H	-51.6	-30	-21.6	PK
4844.0	V	-51.3	-30	-21.3	PK
7266.0	H	-45.8	-30	-15.8	PK
7266.0	V	-46.2	-30	-16.2	PK
Channel 11 (2462MHz)					
428.5	H	-76.9	-36	-40.9	PK
410.8	V	-76.9	-36	-40.9	PK
714.5	H	-74.6	-54	-20.6	PK
815.7	V	-73.7	-54	-19.7	PK
4924.0	H	-50.9	-30	-20.9	PK
4924.0	V	-51.2	-30	-21.2	PK
7386.0	H	-44.2	-30	-14.2	PK
7386.0	V	-45.3	-30	-15.3	PK

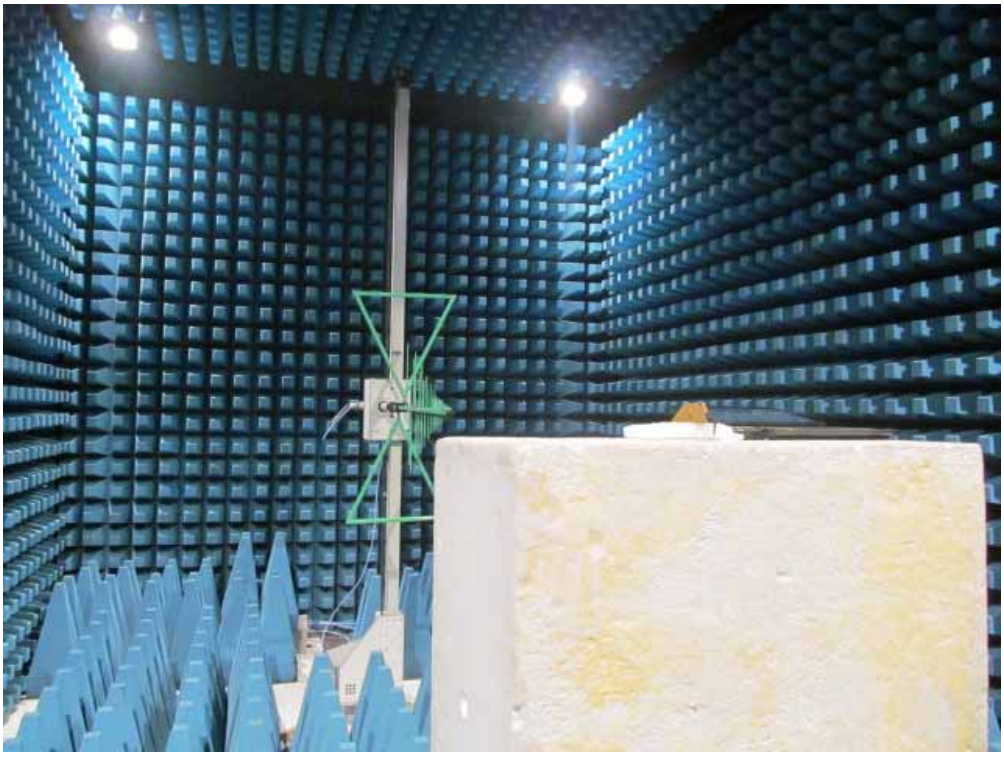
10.6. Test Photograph

Description: Transmitter Spurious Emissions Test Setup for Below 1GHz



Description: Transmitter Spurious Emissions Test Setup for Above 1GHz

Description: Transmitter Spurious Emissions Test Setup for Below 1GHz



Description: Transmitter Spurious Emissions Test Setup for Above 1GHz

11. Receiver Spurious Emissions

11.1. Test Equipment

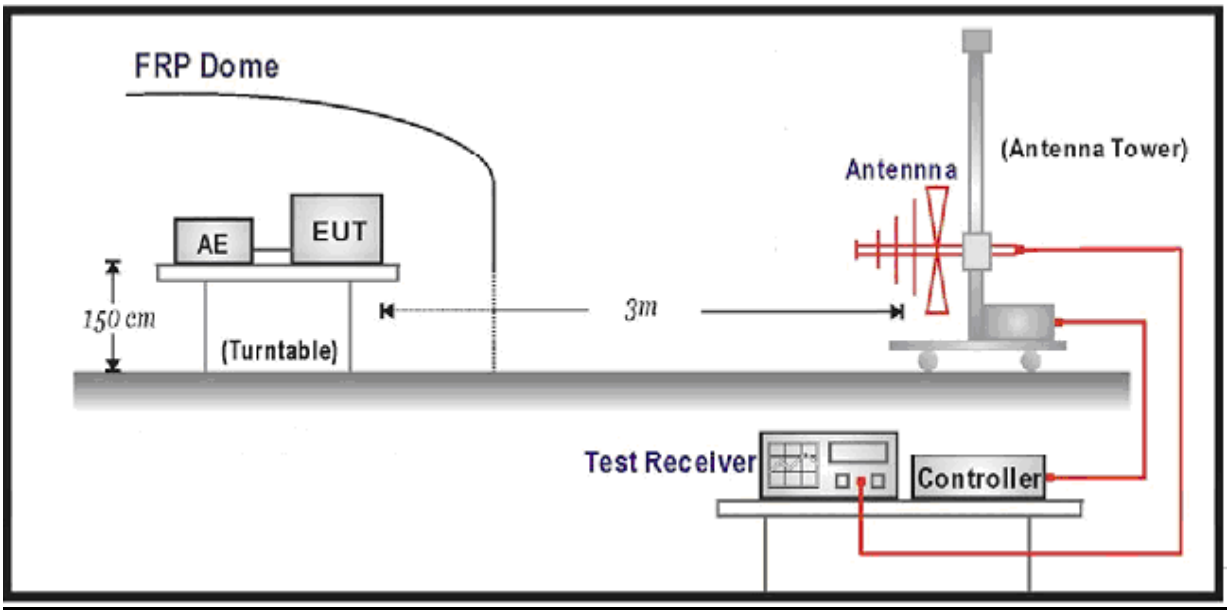
Receiver Spurious Emissions / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
Spectrum Analyzer	Agilent	E4440A	MY49420184	2014/03/30
PSG Analog S.G.	Agilent	E8257D	MY44321116	2014/03/30
Preamplifier	Agilent	8449B	3008A02597	2014/04/10
Bilog Antenna	Schaffner	CBL6112B	2932	2013/10/15
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014/06/08
Filter Banks	QuieTek	QTK-FB	AC6-FB	2013/05/04
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2014/01/11

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

11.2. Test Setup

For Radiated Measurement



11.3. Limit

Spurious emissions limits for receivers		
Frequency Range	Maximum power E.R.P. (≤ 1GHz) E.I.R.P. (> 1GHz)	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

11.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.11

11.5. Test Result

Test by panel antenna

Product	:	WLE350NX
Test Item	:	Receiver spurious emissions
Test Mode	:	Mode 5: Receive by 802.11n(20MHz) (Chain 0+1+2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
480.1	H	-70.7	-57	-13.7	PK
630.4	V	-69.5	-57	-12.5	PK
480.1	H	-68.6	-57	-11.6	PK
564.0	V	-68.2	-57	-11.2	PK
1099.9	H	-53.1	-47	-6.1	PK
1258.5	V	-54.5	-47	-7.5	PK
1029.4	H	-54.7	-47	-7.7	PK
1094.0	V	-54.1	-47	-7.1	PK
Channel 13 (2472MHz)					
460.2	H	-69.4	-57	-12.4	PK
710.5	V	-67.4	-57	-10.4	PK
464.6	H	-69.5	-57	-12.5	PK
699.8	V	-67.8	-57	-10.8	PK
1199.8	H	-54.7	-47	-7.7	PK
1376.0	V	-54.6	-47	-7.6	PK
1099.9	H	-54.6	-47	-7.6	PK
1246.8	V	-55.1	-47	-8.1	PK

Product	:	WLE350NX
Test Item	:	Receiver spurious emissions
Test Mode	:	Mode 6: Receive by 802.11n(40MHz) (Chain 0+1+2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
464.6	H	-68.2	-57	-11.2	PK
729.9	V	-68.4	-57	-11.4	PK
531.0	H	-68.4	-57	-11.4	PK
720.2	V	-68.4	-57	-11.4	PK
1252.6	H	-54.9	-47	-7.9	PK
1499.4	V	-52.7	-47	-5.7	PK
1099.9	H	-55.3	-47	-8.3	PK
1287.9	V	-54.8	-47	-7.8	PK
Channel 11 (2462MHz)					
432.1	H	-68.1	-57	-11.1	PK
666.3	V	-68.2	-57	-11.2	PK
460.2	H	-69.0	-57	-12.0	PK
720.2	V	-67.9	-57	-10.9	PK
1193.9	H	-55.4	-47	-8.4	PK
1499.4	V	-53.1	-47	-6.1	PK
1094.0	H	-53.6	-47	-6.6	PK
1329.0	V	-53.6	-47	-6.6	PK

Test by dipole antenna 1#

Product	:	WLE350NX
Test Item	:	Receiver spurious emissions
Test Mode	:	Mode 5: Receive by 802.11n(20MHz) (Chain 0+1+2)

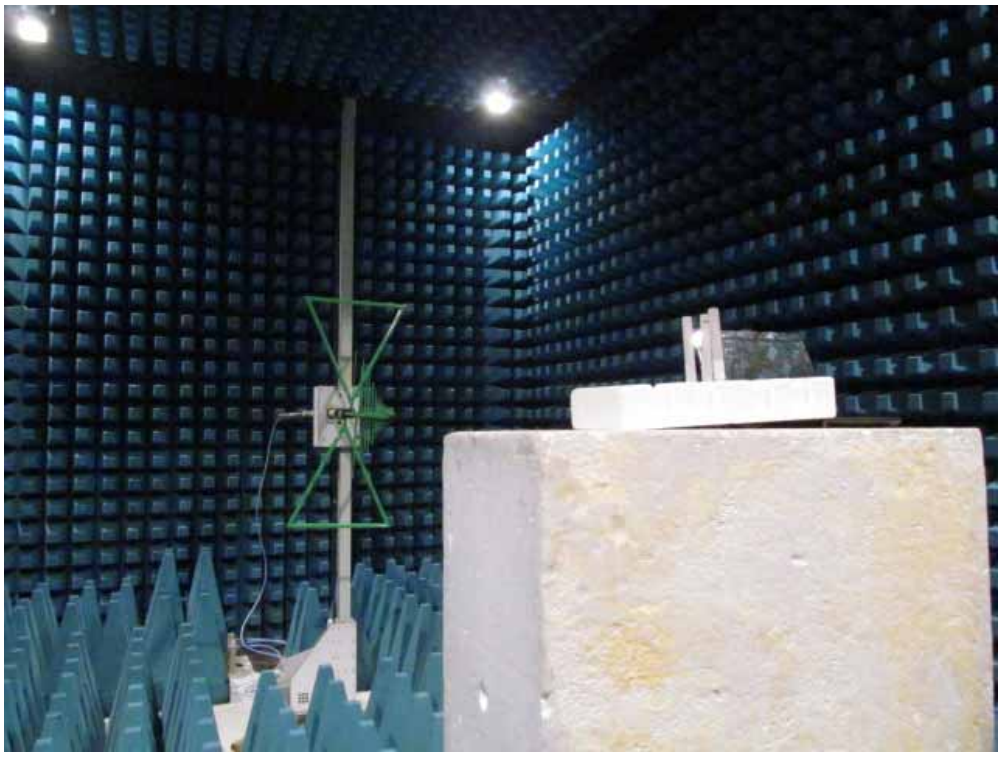
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
370.5	H	-76.4	-57	-19.4	PK
208.2	V	-78.5	-57	-21.5	PK
565.2	H	-74.7	-57	-17.7	PK
366.0	V	-73.9	-57	-16.9	PK
1064.6	H	-51.8	-47	-4.8	PK
1148.3	V	-53.9	-47	-6.9	PK
1443.6	H	-51.9	-47	-4.9	PK
1799.0	V	-51.5	-47	-4.5	PK
Channel 13 (2472MHz)					
252.3	H	-75.3	-57	-18.3	PK
247.2	V	-72.6	-57	-15.6	PK
467.7	H	-75.9	-57	-18.9	PK
384.1	V	-72.7	-57	-15.7	PK
1064.6	H	-52.7	-47	-5.7	PK
1329.0	V	-51.4	-47	-4.4	PK
1425.9	H	-51.7	-47	-4.7	PK
1796.1	V	-52.8	-47	-5.8	PK

Product	:	WLE350NX
Test Item	:	Receiver spurious emissions
Test Mode	:	Mode 6: Receive by 802.11n(40MHz) (Chain 0+1+2)

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 03 (2422MHz)					
236.6	H	-75.3	-57	-18.3	PK
234.7	V	-75.2	-57	-18.2	PK
463.0	H	-75.5	-57	-18.5	PK
448.1	V	-72.8	-57	-15.8	PK
1098.4	H	-53.3	-47	-6.3	PK
1445.0	V	-53.8	-47	-6.8	PK
1331.9	H	-51.3	-47	-4.3	PK
1799.0	V	-52.6	-47	-5.6	PK
Channel 11 (2462MHz)					
269.1	H	-75.8	-57	-18.8	PK
175.7	V	-77.3	-57	-20.3	PK
449.9	H	-74.3	-57	-17.3	PK
275.3	V	-73.2	-57	-16.2	PK
1096.9	H	-53.7	-47	-6.7	PK
1333.4	V	-52.4	-47	-5.4	PK
1445.0	H	-52.3	-47	-5.3	PK
1800.5	V	-52.5	-47	-5.5	PK

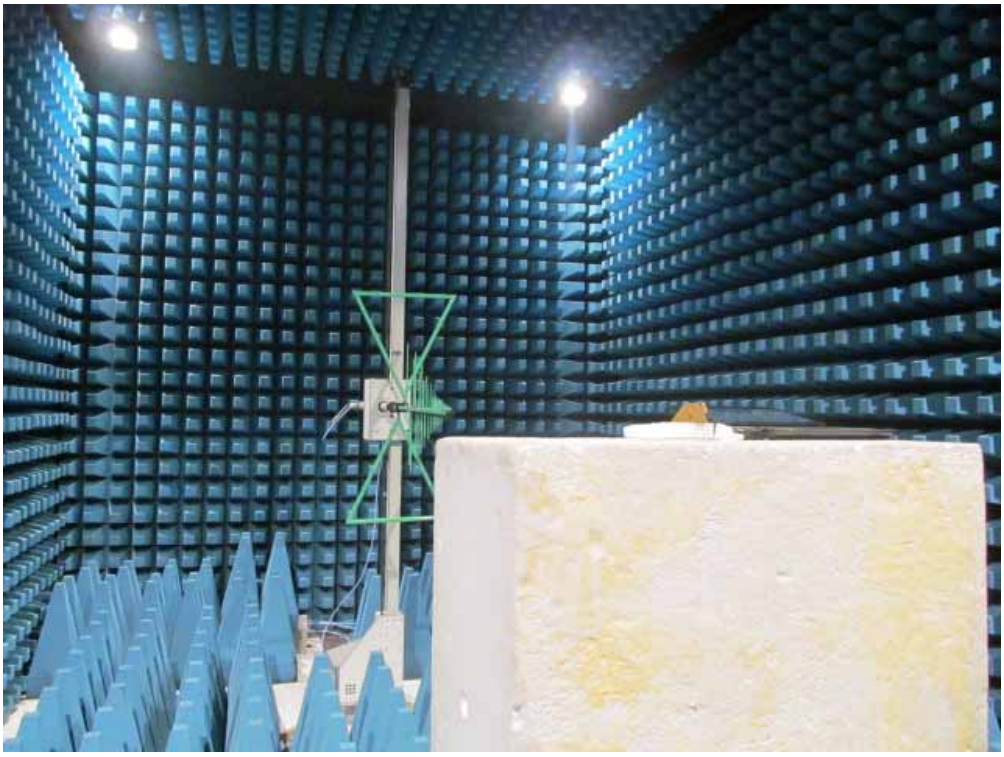
11.6. Test Photograph

Description: Receive Spurious Emissions Test Setup for Below 1GHz



Description: Receive Spurious Emissions Test Setup for Above 1GHz

Description: Receive Spurious Emissions Test Setup for Below 1GHz



Description: Receive Spurious Emissions Test Setup for Above 1GHz

12. Receiver Blocking

12.1. Test Equipment

Receiver Blocking / TR-8

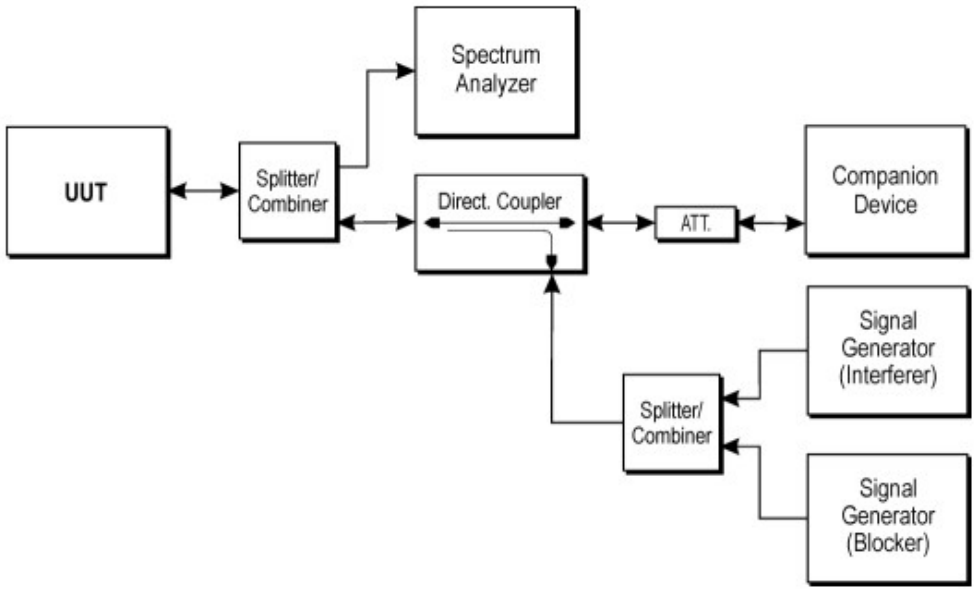
Instrument	Manufacturer	Type No.	Serial No	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014.03.30
Vector Signal Generator	Agilent	E4438C	102168	2014.03.30
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2014.03.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2013.05.07

Instrument	Manufacturer	Type No.	Serial No
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZAPD-50W 4.2-6.0 GHz	NN256400424
Splitter/Combiner (Qty: 2)	MCLI	PS3-7	4463/4464
ATT (Qty: 1)	Mini-Circuits	VAT-30+	30912
Laptop PC	Asus	N80V	8BN0AS226971468
RF Cable (Qty: 6)	Mini-Circuits	N/A	DFS-1~6

Software	Manufacturer	Function
DFS Tool	Agilent	DFS Test Software

12.2. Test Setup

Conducted measurements



12.3. Limit

Adaptive Frequency Hopping equipment shall comply with the requirements defined in clauses 4.3.1.6.1 (LBT based DAA) or 4.3.1.6.2 (non-LBT based DAA) in the presence of a blocking signal with characteristics as provided in table 3.

Receiver Blocking parameters

Equipment Type (LBT / non- LBT)	Wanted signal mean power from companion device	Blocking signal frequency [MHz]	Blocking signal power [dBm]	Type of interfering signal
LBT	sufficient to maintain the link (see note 2)	2 395 or 2 488,5 (see note 1)	-30	CW
Non-LBT	-30 dBm			
NOTE 1: The highest blocking frequency shall be used for testing the lowest operating hopping frequency, while the lowest blocking frequency shall be used for testing the highest hopping frequency. NOTE 2: A typical value which can be used in most cases is -50 dBm/MHz.				

12.4. Test Procedure

Refer to ETSI EN 300 328 V1.8.1 (2012-06) Clause 5.3.7

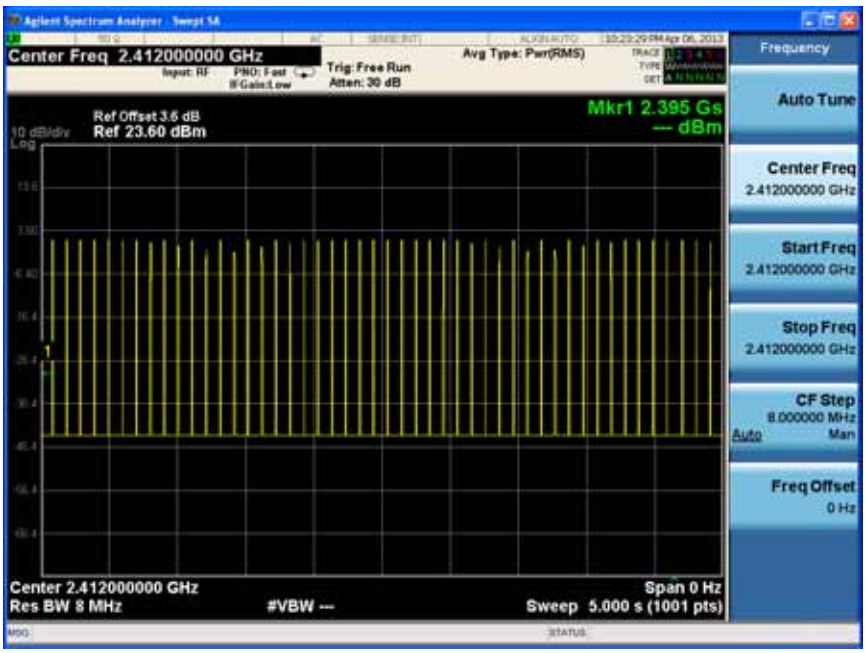
12.5. Test Result

Product	:	WLE350NX
Test Item	:	Receiver Blocking
Test Site	:	TR-8
Test Mode	:	Mode: Normal Operation(802.11n20MHz)

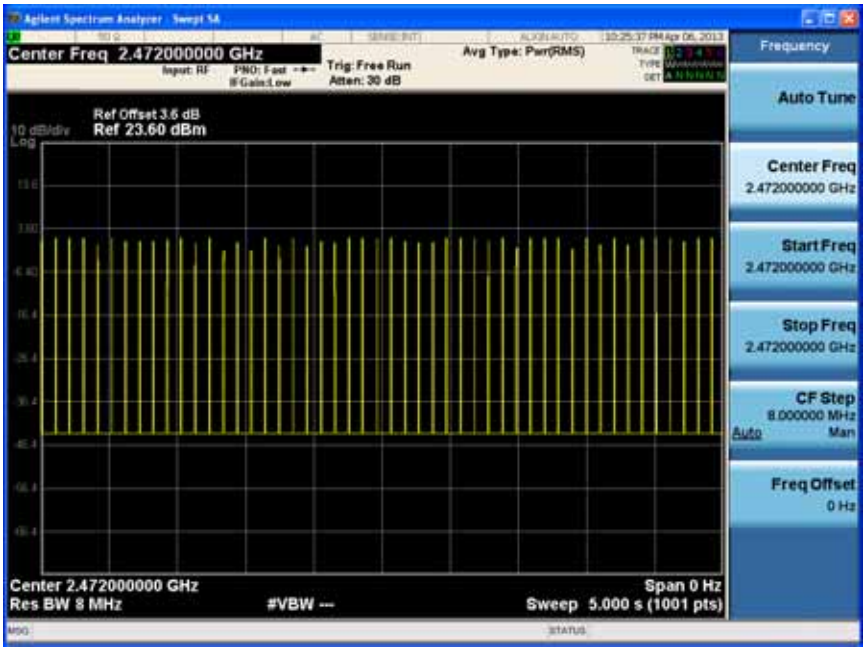
Blocking signal frequency 2395MHz

Blocking signal frequency 2488.5MHz

Test Result Channel 01



Test Result Channel 13



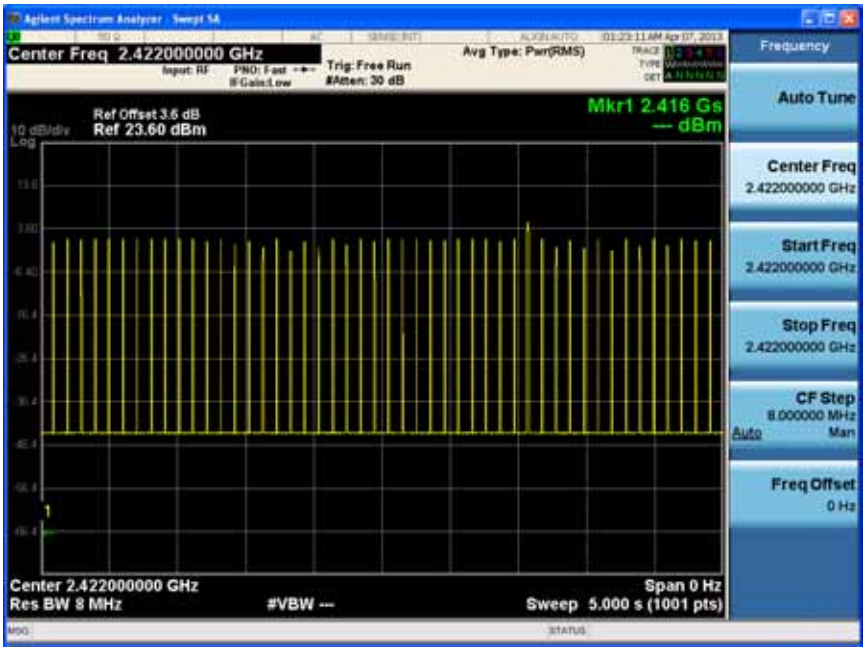
Test Result	Pass

Product	:	WLE350NX
Test Item	:	Receiver Blocking
Test Site	:	TR-8
Test Mode	:	Mode: Normal Operation(802.11n40MHz)

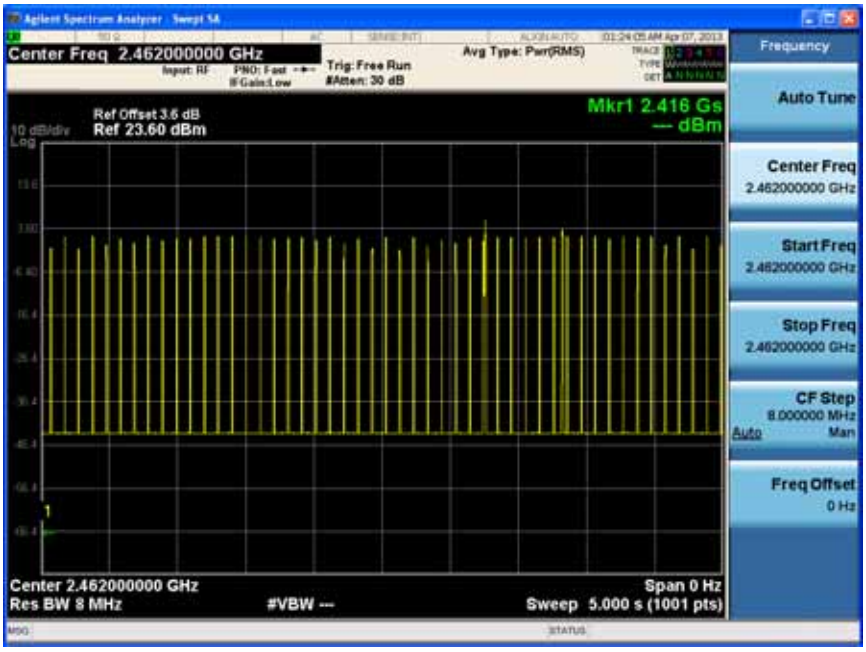
Blocking signal frequency 2395MHz

Blocking signal frequency 2488.5MHz

Channel 03



Channel 11



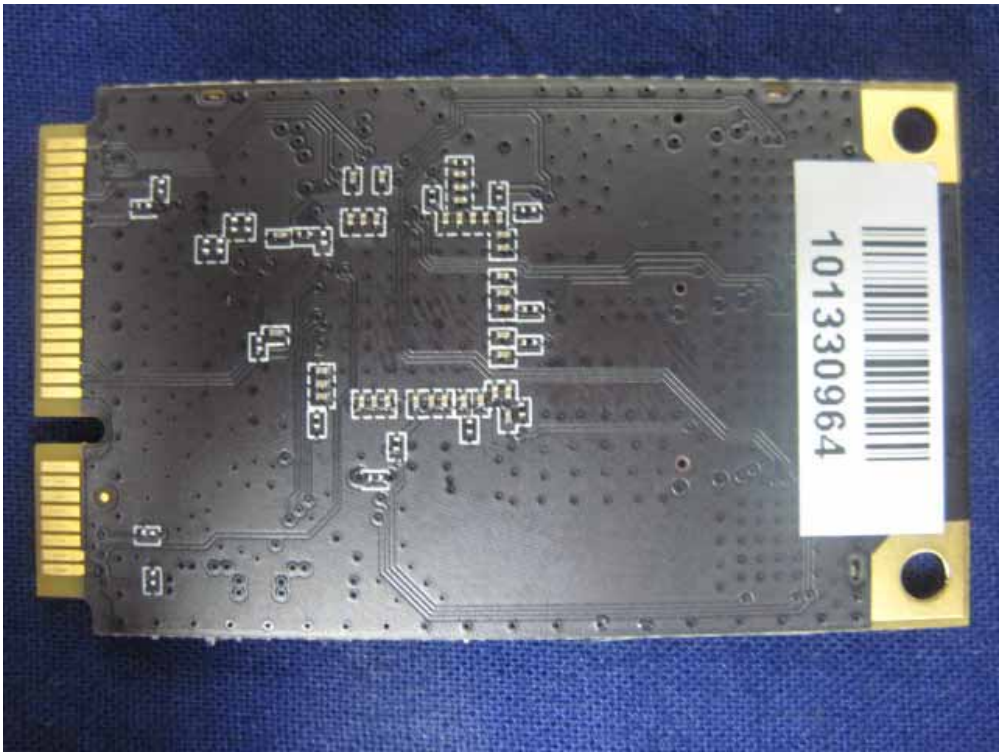
Test Result	Pass

13. Attachment

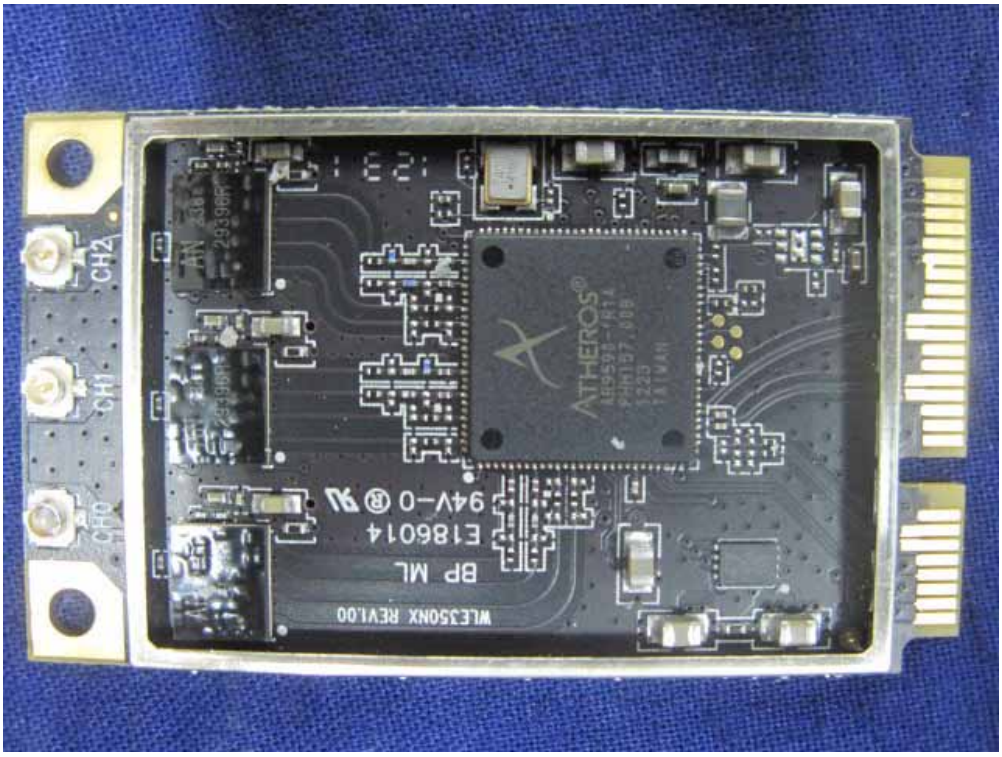
➢ EUT Photograph

(1) EUT Photo

(2) EUT Photo

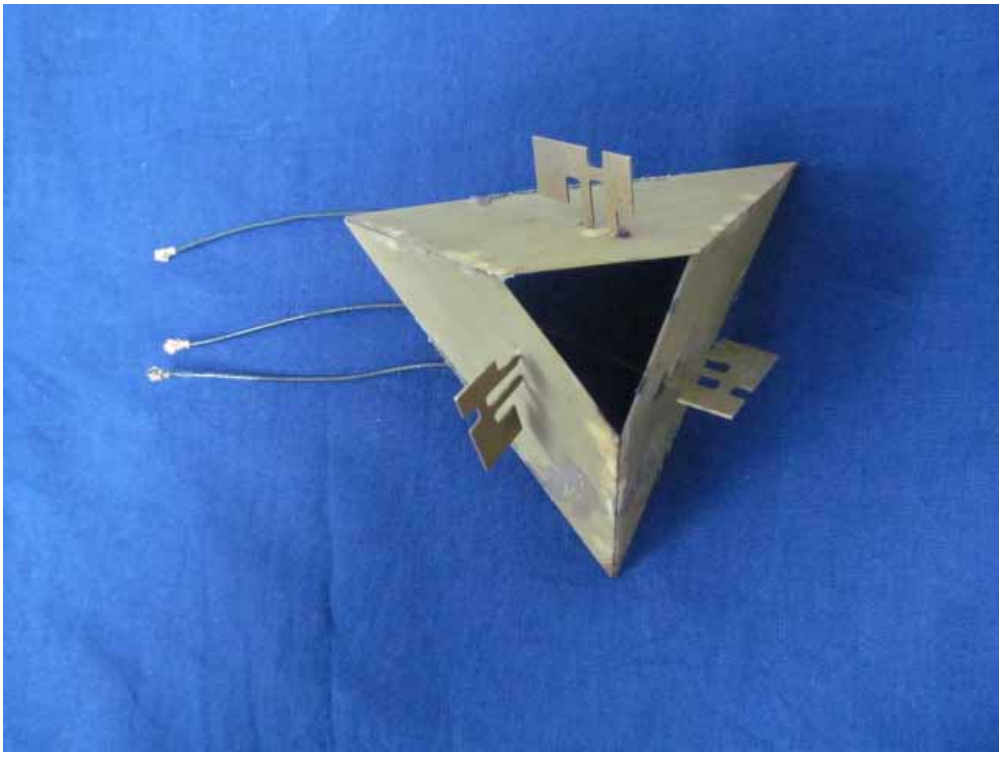


(3) EUT Photo



(4) EUT Photo

(5) EUT Photo



(6) EUT Photo

The End