

Test Report

FCC Part15 Subpart C

Product Name : Smart Wi-Fi Light Switch
Model No. : HS200
FCC ID : TE7HS200

Applicant : TP-LINK TECHNOLOGIES CO., LTD.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central
Science and Technology Park, Shennan Rd, Nanshan,
Shenzhen, China

Date of Receipt : Jan. 30, 2016
Test Date : Jan. 30, 2016~Mar. 01, 2016
Issued Date : Apr. 22, 2016
Report No. : 1612066R-RF-US-P06V01
Report Version : V1.1

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

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Applicant : TP-LINK TECHNOLOGIES CO., LTD.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer : TP-LINK TECHNOLOGIES CO., LTD.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Model No. : HS200
FCC ID : TE7HS200
EUT Voltage : AC 100-240V, 50/60Hz
Brand Name : TP-LINK
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2014
ANSI C63.4:2014;
ANSI C63.10:2013;
KDB 558074 D01v03r04
Test Result : Complied
Performed Location : Quietek Corporation - Suzhou EMC Laboratory
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: 800392

Documented By : Alice Ni
(Senior Adm. Specialist: Alice Ni)

Reviewed By : Jack Zhang
(Senior Engineer: Jack Zhang)

Approved By : Harry Zhao
(Engineering Manager : Harry Zhao)

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
USA	:	FCC
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/english/about/certificates.aspx?bval=5>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

LinKou Testing Laboratory :

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, Suzhou, 215006, Jiangsu, China
TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1612066R-RF-US-P06V01	V1.0	Initial Issued Report	Mar. 09, 2016
1612066R-RF-US-P06V01	V1.1	Modified some typo in the report	Apr. 22, 2016

1. General Information

1.1. EUT Description

Product Name	Smart Wi-Fi Light Switch
Brand Name	TP-LINK
Model No.	HS200
EUT Voltage	AC 100-240V, 50/60Hz
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	For 2.4GHz Band 802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS 802.11g: 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 150 Mbps
Channel Control	Auto

1.2. Working Frequency of Each Channel:

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	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	N/A	N/A

1.3. Antenna information

Model No.	N/A					
Antenna manufacturer	TP-LINK					
Antenna Delivery	<input checked="" type="checkbox"/>	1*TX+1*RX	<input type="checkbox"/>	2*TX+2*RX	<input type="checkbox"/>	3*TX+3*RX
Antenna technology	<input checked="" type="checkbox"/>	SISO				
	<input type="checkbox"/>	MIMO	<input type="checkbox"/>	Basic		
			<input type="checkbox"/>	CDD		
			<input type="checkbox"/>	Beam-forming		
Antenna Type	<input type="checkbox"/>	External	<input type="checkbox"/>	Dipole		
	<input checked="" type="checkbox"/>	Internal	<input type="checkbox"/>	PIFA		
			<input type="checkbox"/>	PCB		
			<input type="checkbox"/>	Ceramic Chip Antenna		
			<input checked="" type="checkbox"/>	Metal plate type F antenna		
Antenna Gain	3.28dBi					

1.4. Mode of Operation

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)

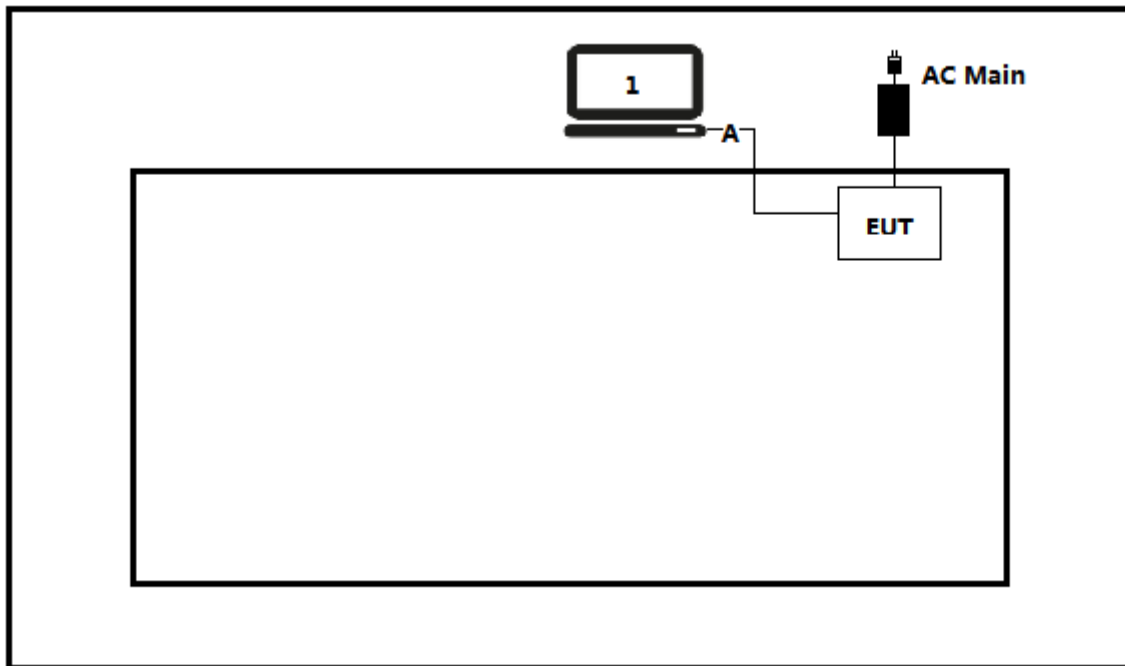
1.5. Tested System Details

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

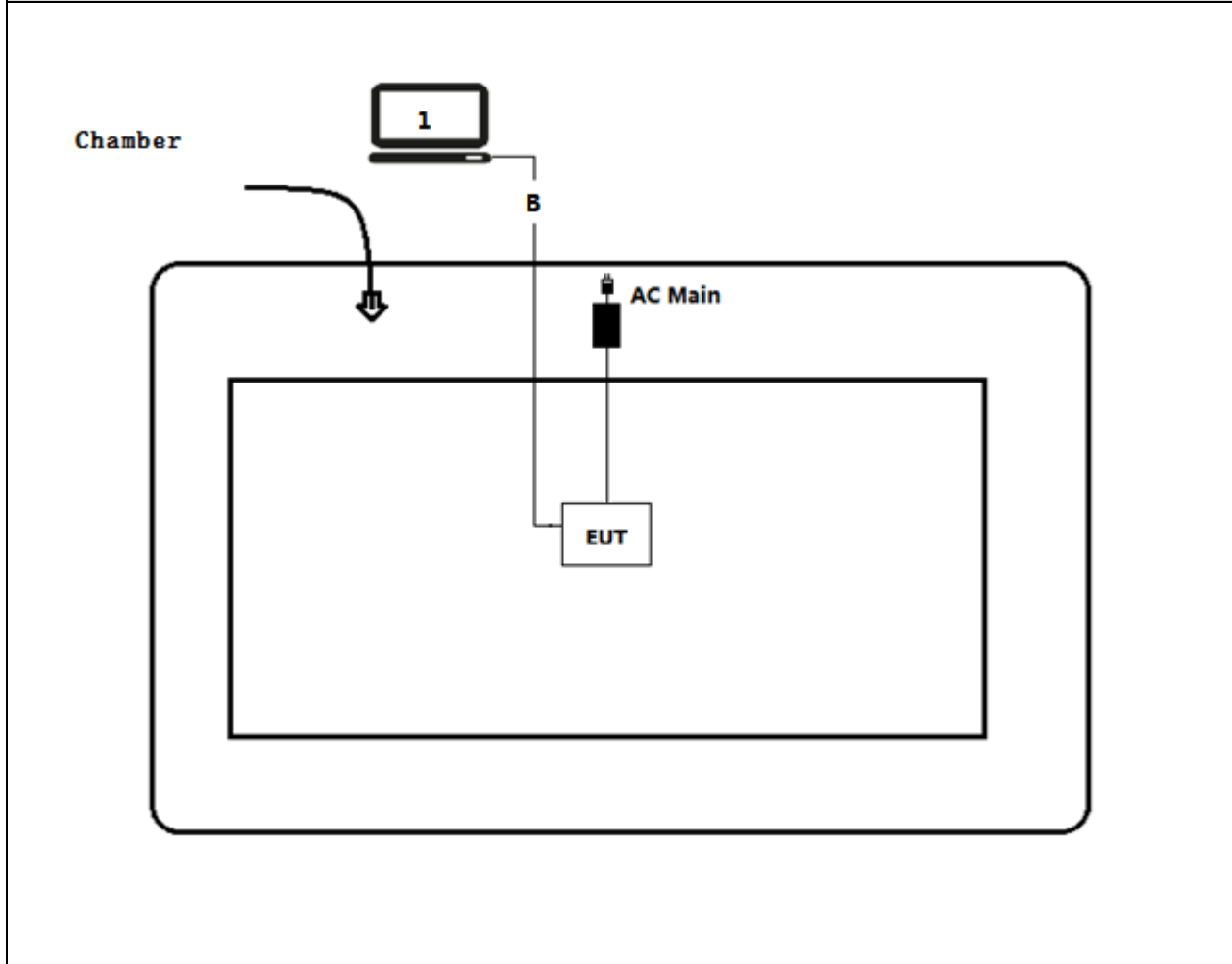
No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	LAN cable	N/A	N/A	N/A	Non-shielded,1.5m
B	LAN cable	N/A	N/A	N/A	Non-shielded,10m

1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



2. Technical Test

2.1. Summary of Test Result

Performed Test Item	Normative References	Worst case mode	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	802.11b	FCC 15.207	PASS
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	802.11b	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(d)	802.11b	$\geq 30\text{dBc}$	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2015 15.247(d)	802.11g	FCC 15.209	PASS
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(2)	802.11b	$\geq 500\text{kHz}$	PASS
Fundamental emission output power	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(b)(3)	802.11n(20MHz)	$\leq 30\text{dBm}$	PASS
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(e)	802.11b	$\leq 8\text{dBm}/3\text{kHz}$	PASS

2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11b	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11g	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11n(20MHz)	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11n(40MHz)	03	2422 MHz	06	2437 MHz	09	2452MHz

2.3. Power setting Parameter

Test Software	ART 2			
Modulation Mode	Test Frequency	Ant 0	Ant 1	Ant 2
802.11b	2412	16	x	x
	2437	16	x	x
	2462	16	x	x
802.11g	2412	14	x	x
	2437	23	x	x
	2462	14.5	x	x
802.11n(20MHz)	2412	13	x	x
	2437	24	x	x
	2462	13.5	x	x
802.11n(40MHz)	2422	12.5	x	x
	2437	17.5	x	x
	2452	13.5	x	x

Note: The EUT only has one chain.

2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6	6.5	7.2	13.5	15.0
1	1	2	9	9	13.0	14.4	27.0	30.0
2	1	5.5	12	12	19.5	21.7	40.5	45.0
3	1	11	18	18	26.0	28.9	54.0	60.0
4	1	---	24	24	39.0	43.3	81.0	90.0
5	1	---	36	36	52.0	57.8	108.0	120.0
6	1	---	48	48	58.5	65.0	121.5	135.0
7	1	---	54	54	65.0	72.2	135.0	150.0
8	2	---	---	---	13.0	14.4	27.0	30.0
9	2	---	---	---	26.0	28.9	54.0	60.0
10	2	---	---	---	39.0	43.3	81.0	90.0
11	2	---	---	---	52.0	57.8	108.0	120.0
12	2	---	---	---	78.0	86.7	162.0	180.0
13	2	---	---	---	104.0	115.6	216.0	240.0
14	2	---	---	---	117.0	130.0	243.0	270.0
15	2	---	---	---	130.0	144.0	270.0	300.0

Note 1 : The blue form is the maximum power data rate

Note 2 : The EUT only has one spatial Streams

2.5. 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

2.6. Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	$\pm 2.02\text{dB}$
Radiated Emission	Below 1GHz $\pm 3.8\text{ dB}$
	Above 1GHz $\pm 3.9\text{ dB}$
RF Antenna Port Conducted Emission	$\pm 1.27\text{dB}$
Radiated Emission Band Edge	$\pm 3.9\text{dB}$
Occupied Bandwidth	$\pm 1\text{kHz}$
Power Spectral Density	$\pm 1.27\text{dB}$

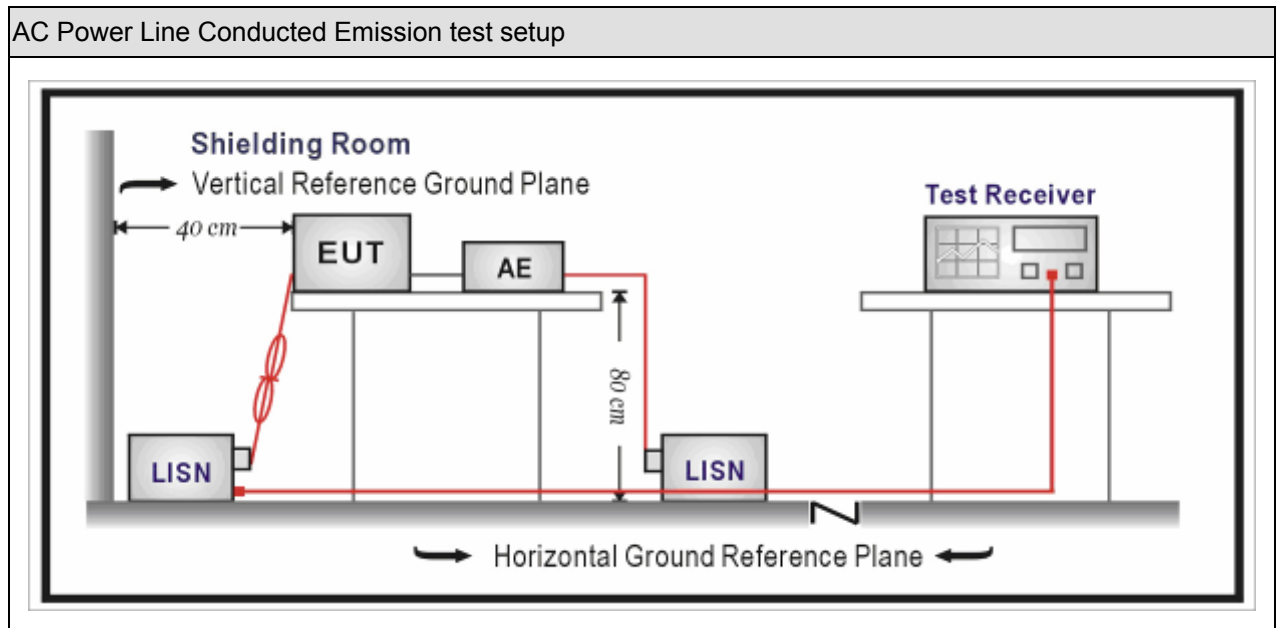
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100726	2016.03.29	2017.03.28
Two-Line V-Network	R&S	ENV216	100043	2016.03.29	2017.03.28
Two-Line V-Network	R&S	ENV216	100044	2016.09.17	2017.09.16
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2016.03.02	2017.03.01
50ohm Termination	SHX	TF2	07081401	2015.09.17	2016.09.16
Temperature/Humidity Meter	zhichen	ZC1-2	TR1-TH	2016.01.04	2017.01.03

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

3.2. Test Setup



3.3. Limit

Frequency of Emission (MHz)	Conducted Limit	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Note 1: The lower limit shall apply at the transition frequencies.
 Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

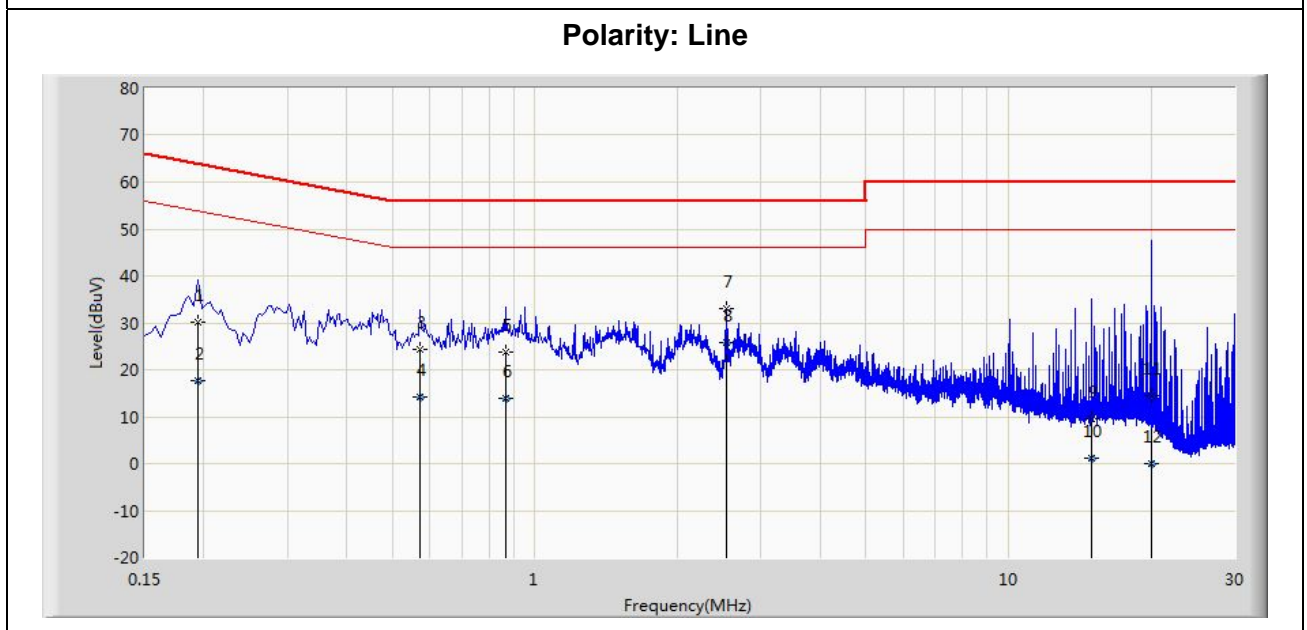
3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
<input checked="" type="checkbox"/>	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
<input checked="" type="checkbox"/>	ANSI C63.4-2014	7	AC power-line conducted emission measurements

3.5. Test Result

Product Name	: Smart Wi-Fi Light Switch	Polarity	: Line
Test Item	: AC Power Line Conducted Emission	Power	: AC 120V/60Hz
Test Site	: TR1	Test Mode	: Mode 1

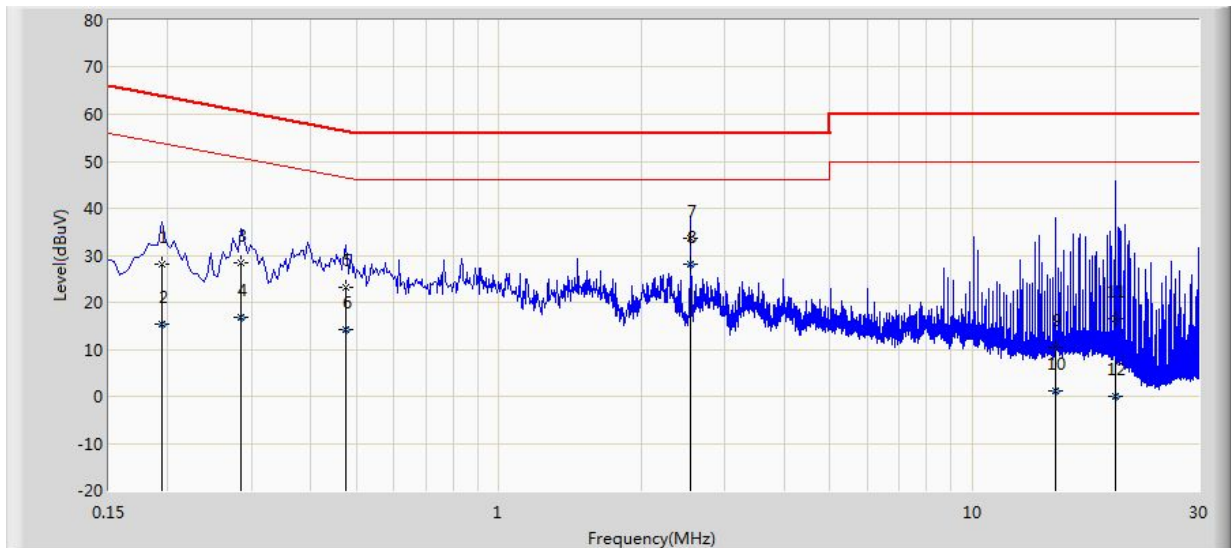
No	Frequency (MHz)	Measure Level (dB μ V)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V)	Probe (dB)	Cable (dB)	Type
1	0.194	30.112	20.402	-33.752	63.864	9.650	0.060	QP
2	0.194	17.768	8.058	-36.096	53.864	9.650	0.060	AV
3	0.570	24.294	14.594	-31.706	56.000	9.630	0.070	QP
4	0.570	14.222	4.522	-31.778	46.000	9.630	0.070	AV
5	0.866	23.870	14.174	-32.130	56.000	9.626	0.070	QP
6	0.866	13.778	4.082	-32.222	46.000	9.626	0.070	AV
7	2.538	32.921	23.161	-23.079	56.000	9.650	0.110	QP
8	2.538	25.788	16.028	-20.212	46.000	9.650	0.110	AV
9	14.954	9.665	-0.545	-50.335	60.000	9.840	0.370	QP
10	14.954	1.179	-9.031	-48.821	50.000	9.840	0.370	AV
11	20.034	14.364	4.174	-45.636	60.000	9.720	0.470	QP
12	20.034	-0.037	-10.227	-50.037	50.000	9.720	0.470	AV



Product Name	: Smart Wi-Fi Light Switch	Polarity	: Neutral
Test Item	: AC Power Line Conducted Emission	Power	: AC 120V/60Hz
Test Site	: TR1	Test Mode	: Mode 1

No	Frequency (MHz)	Measure Level (dB μ V)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V)	Probe (dB)	Cable (dB)	Type
1	0.194	28.227	18.507	-35.637	63.864	9.660	0.060	QP
2	0.194	15.347	5.627	-38.517	53.864	9.660	0.060	AV
3	0.286	28.503	18.793	-32.137	60.640	9.650	0.060	QP
4	0.286	16.756	7.046	-33.884	50.640	9.650	0.060	AV
5	0.474	23.198	13.498	-33.246	56.444	9.630	0.070	QP
6	0.474	14.097	4.397	-32.347	46.444	9.630	0.070	AV
7	2.534	33.616	23.856	-22.384	56.000	9.650	0.110	QP
8	2.534	28.033	18.273	-17.967	46.000	9.650	0.110	AV
9	14.950	10.579	0.359	-49.421	60.000	9.850	0.370	QP
10	14.950	1.168	-9.052	-48.832	50.000	9.850	0.370	AV
11	20.034	16.642	6.322	-43.358	60.000	9.850	0.470	QP
12	20.034	0.105	-10.215	-49.895	50.000	9.850	0.470	AV

Polarity: Neutral



4. Emissions in restricted frequency bands

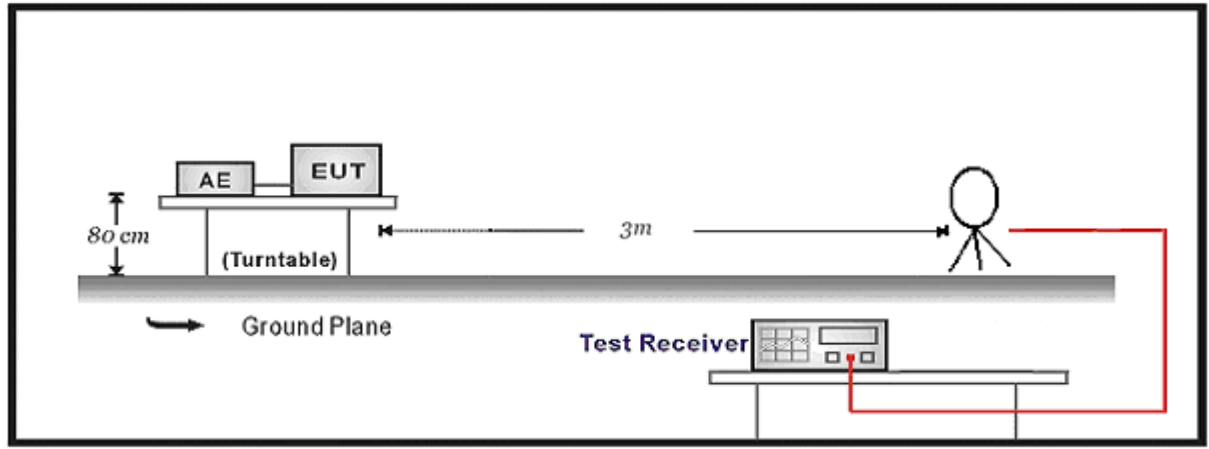
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2017.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

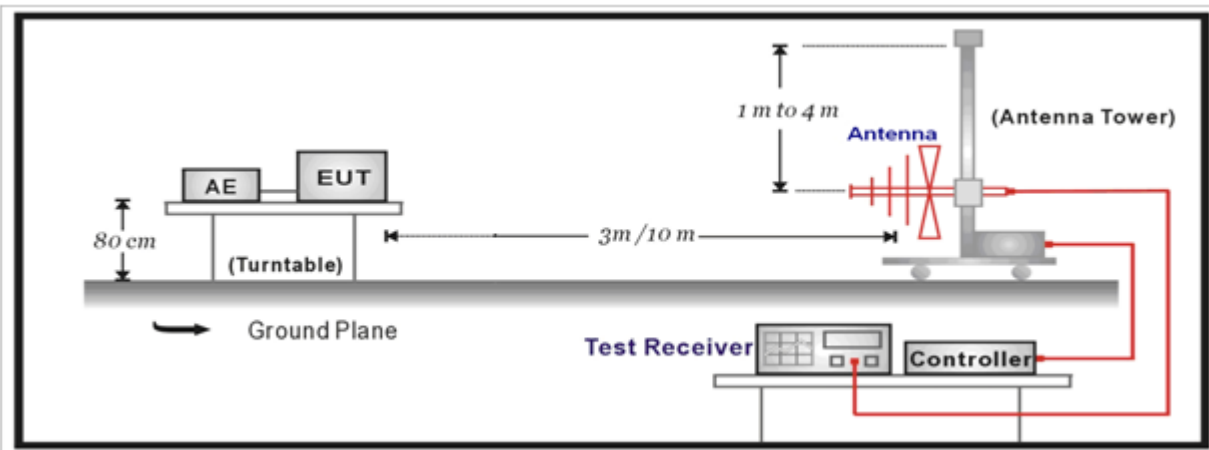
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

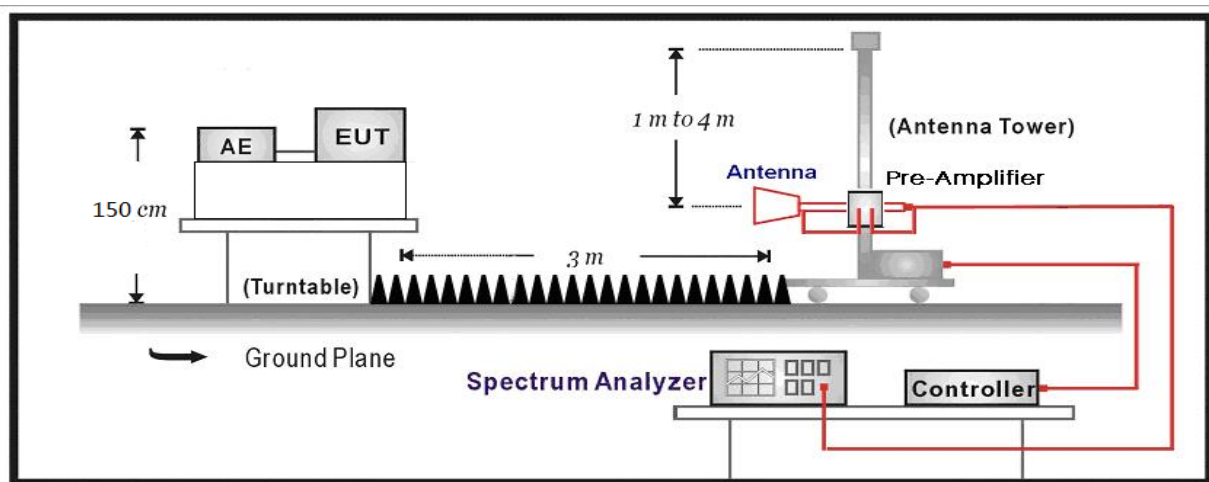
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
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	10.6 – 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	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	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			

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

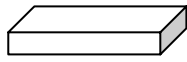
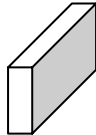
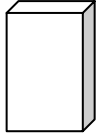
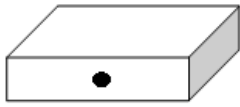


Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	11.11	Emissions in non-restricted frequency bands
	<input type="checkbox"/> ANSI C63.10	11.11.2	Reference level measurement
	<input type="checkbox"/> ANSI C63.10	11.11.3	Emission level measurement
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
	<input checked="" type="checkbox"/> ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
<input type="checkbox"/>	ANSI C63.10	11.12.2	Antenna-port conducted measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

4.5. EUT test Axis definition

Item	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

4.6. Test Result

Product Name	: Smart Wi-Fi Light Switch	Power	: AC 120V/60Hz
Test Mode	: Mode 1	Test Site	: AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
Ant 0	1	H	4824.0	49.4	7.3	56.7	74	-17.3	PK
		H	4824.0	46.5	7.3	53.8	54	-0.2	AV
		H	7230.5	38.3	12.7	51.0	54(note3)	-3.0	PK
		H	9644.5	34.2	14.9	49.1	54(note3)	-4.9	PK
		V	4823.9	51.4	7.3	58.7	54(note3)	4.7	PK
		V	4824.1	45.9	7.3	53.2	54(note3)	-0.8	PK
		V	7230.5	38.8	12.7	51.5	54(note3)	-2.5	PK
		V	9644.5	37.2	14.9	52.1	54(note3)	-1.9	PK
	6	H	4876.0	47.4	7.4	54.8	74	-19.2	PK
		H	4874.0	46.5	7.4	53.9	54	-0.1	AV
		H	7311.0	32.6	12.5	45.1	54(note3)	-8.9	PK
		H	9748.0	31.1	14.8	45.9	54(note3)	-8.1	PK
		V	4876.0	45.7	7.4	53.1	54(note3)	-0.9	PK
		V	7311.0	32.5	12.5	45.0	54(note3)	-9.0	PK
		V	9748.0	31.6	14.8	46.4	54(note3)	-7.6	PK
	11	H	4927.0	48.3	7.5	55.8	74	-18.2	PK
		H	4924.1	46.4	7.5	53.9	54	-0.1	AV
		H	7386.0	30.0	12.3	42.3	54(note3)	-11.7	PK
		H	9848.0	26.6	15.3	41.9	54(note3)	-12.1	PK
		V	4927.0	44.4	7.5	51.9	54(note3)	-2.1	PK
		V	7386.0	29.4	12.3	41.7	54(note3)	-12.3	PK
		V	9848.0	25.6	15.3	40.9	54(note3)	-13.1	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up , see Clause 6.6..

Product Name	:	Smart Wi-Fi Light Switch	Power	:	AC 120V/60Hz
Test Site	:	Mode 2	Test Site	:	AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
Ant 0	1	H	4825.0	42.6	7.3	49.9	54(note3)	-4.1	PK
		H	7236.0	28.5	12.7	41.2	54(note3)	-12.8	PK
		H	9648.0	26.7	14.8	41.5	54(note3)	-12.5	PK
		V	4816.5	44.6	7.3	51.9	54(note3)	-2.1	PK
		V	7236.0	28.3	12.7	41.0	54(note3)	-13.0	PK
		V	9648.0	26.2	14.8	41.0	54(note3)	-13.0	PK
	6	H	4872.5	60.9	7.3	68.2	74	-5.8	PK
		H	4874.8	46.4	7.4	53.8	54	-0.2	AV
		H	7315.5	38.3	12.6	50.9	54(note3)	-3.1	PK
		H	9748.0	27.9	14.8	42.7	54(note3)	-11.3	PK
		V	4879.8	58.9	7.4	66.3	74	-7.7	PK
		V	4874.7	43.7	7.4	51.1	54	-2.9	AV
		V	7307.0	38.7	12.3	51.0	54(note3)	-3.0	PK
		V	9748.0	28.3	14.8	43.1	54(note3)	-10.9	PK
	11	H	4927.0	45.0	7.5	52.5	54(note3)	-1.5	PK
		H	7386.0	28.6	12.3	40.9	54(note3)	-13.1	PK
		H	9848.0	25.9	15.3	41.2	54(note3)	-12.8	PK
		V	4927.0	42.5	7.5	50.0	54(note3)	-4.0	PK
		V	7386.0	28.8	12.3	41.1	54(note3)	-12.9	PK
		V	9848.0	26.9	15.3	42.2	54(note3)	-11.8	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up , see Clause 6.6..

Product Name	:	Smart Wi-Fi Light Switch	Power	:	AC 120V/60Hz
Test Site	:	Mode 3	Test Site	:	AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
Ant 0	1	H	4825.0	39.5	7.3	46.8	54(note3)	-7.2	PK
		H	7236.0	28.0	12.7	40.7	54(note3)	-13.3	PK
		H	9648.0	27.5	14.8	42.3	54(note3)	-11.7	PK
		V	4825.0	40.6	7.3	47.9	54(note3)	-6.1	PK
		V	7236.0	28.3	12.7	41.0	54(note3)	-13.0	PK
		V	9648.0	26.1	14.8	40.9	54(note3)	-13.1	PK
	6	H	4876.0	58.6	7.4	66.0	74	-8.0	PK
		H	4874.6	46.5	7.4	53.9	54	-0.1	AV
		H	7298.5	36.8	12.2	49.0	54(note3)	-5.0	PK
		H	9748.0	27.0	14.8	41.8	54(note3)	-12.2	PK
		V	4884.5	55.3	7.5	62.8	74	-11.2	PK
		V	4873.6	43.1	7.4	50.5	54	-3.5	AV
		V	7307.0	38.0	12.3	50.3	54(note3)	-3.7	PK
		V	9746.5	29.6	14.8	44.4	54(note3)	-9.6	PK
	11	H	4924.0	41.3	7.5	48.8	54(note3)	-5.2	PK
		H	7386.0	29.2	12.3	41.5	54(note3)	-12.5	PK
		H	9848.0	28.1	15.3	43.4	54(note3)	-10.6	PK
		V	4924.0	37.0	7.5	44.5	54(note3)	-9.5	PK
		V	7386.0	31.4	12.3	43.7	54(note3)	-10.3	PK
		V	9848.0	28.3	15.3	43.6	54(note3)	-10.4	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up , see Clause 6.6..

Product Name	:	Smart Wi-Fi Light Switch	Power	:	AC 120V/60Hz
Test Site	:	Mode 4	Test Site	:	AC-5

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
Ant 0	3	H	4844.0	34.9	7.3	42.2	54(note3)	-11.8	PK
		H	7266.0	31.2	12.7	43.9	54(note3)	-10.1	PK
		H	9688.0	27.7	14.9	42.6	54(note3)	-11.4	PK
		V	4844.0	34.1	7.3	41.4	54(note3)	-12.6	PK
		V	7266.0	30.5	12.7	43.2	54(note3)	-10.8	PK
		V	9688.0	27.4	14.9	42.3	54(note3)	-11.7	PK
	6	H	4874.0	43.5	7.4	50.9	54(note3)	-3.1	PK
		H	7311.0	31.4	12.5	43.9	54(note3)	-10.1	PK
		H	9748.0	28.7	14.8	43.5	54(note3)	-10.5	PK
		V	4874.0	40.1	7.4	47.5	54(note3)	-6.5	PK
		V	7311.0	31.8	12.5	44.3	54(note3)	-9.7	PK
		V	9748.0	28.7	14.8	43.5	54(note3)	-10.5	PK
	9	H	4904.0	37.4	7.5	44.9	54(note3)	-9.1	PK
		H	7356.0	29.7	12.3	42.0	54(note3)	-12.0	PK
		H	9808.0	27.7	15.2	42.9	54(note3)	-11.1	PK
		V	4904.0	35.2	7.5	42.7	54(note3)	-11.3	PK
		V	7356.0	36.0	12.3	48.3	54(note3)	-5.7	PK
		V	9808.0	29.5	15.2	44.7	54(note3)	-9.3	PK

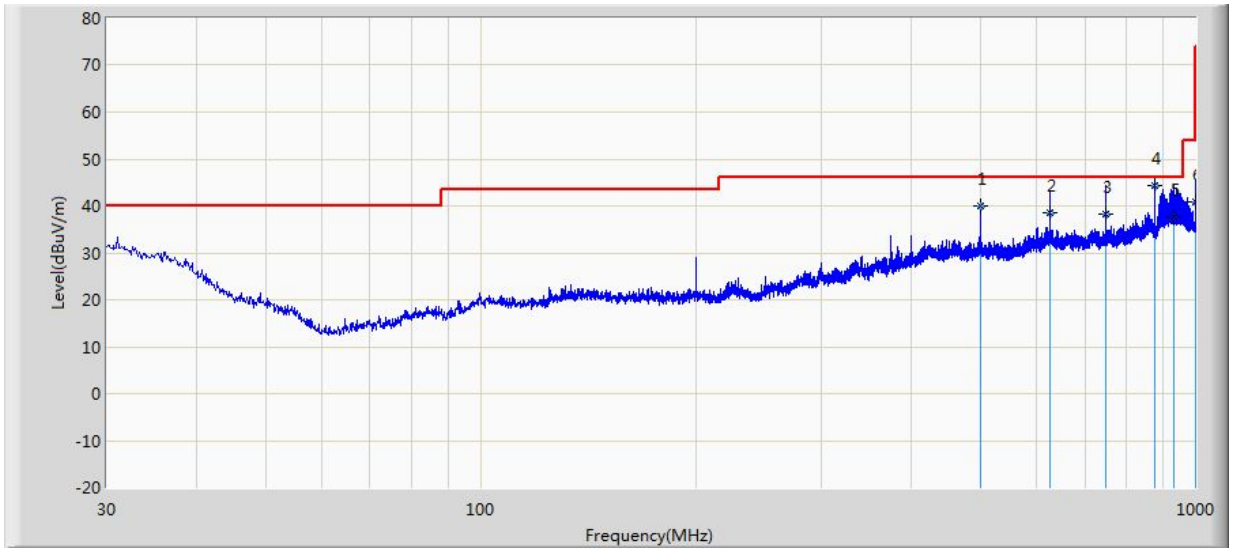
Note: 1. Measure Level = Reading Level + Factor.
 Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.
 Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
 Note: 4. The RBW set up , see Clause 6.6..

The worst case of Radiated Emission below 1GHz:

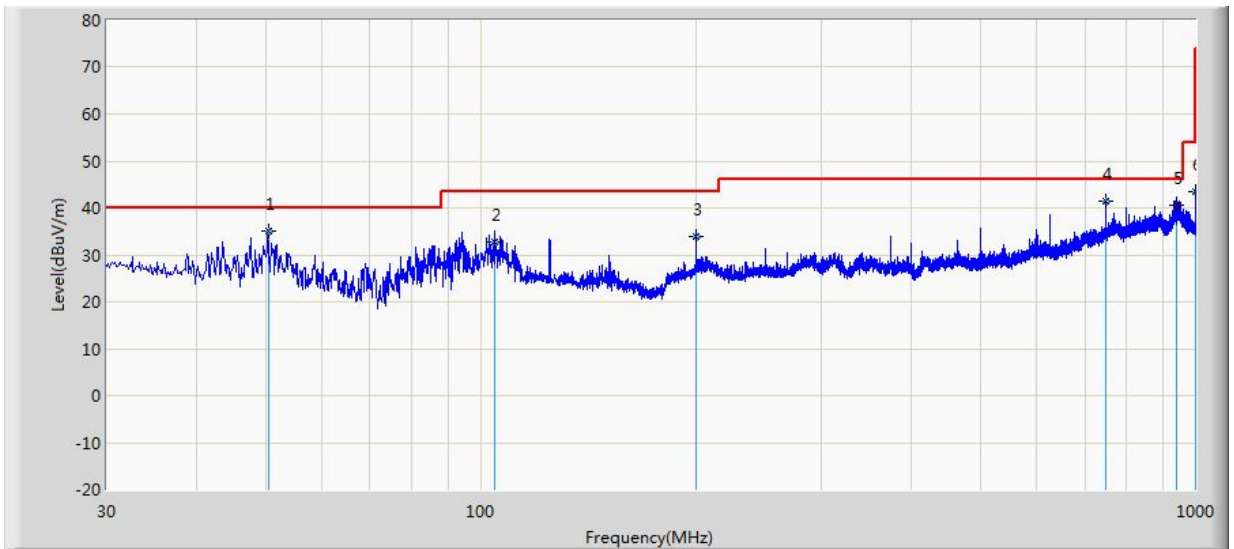
Chain	CH	Antenna	Frequency (MHz)	Reading Level (dB μ V/m)	Factor (dB)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
Ant 0	1	H	500.0	42.5	-2.5	40.0	46.0	-6.0	QP
		H	625.0	39.5	-0.8	38.7	46.0	-7.3	QP
		H	750.0	38.0	0.2	38.2	46.0	-7.8	QP
		H	875.0	43.4	1.0	44.4	46.0	-1.6	QP
		H	933.5	36.1	1.7	37.8	46.0	-8.2	QP
		H	1000.0	38.4	2.5	40.9	54.0	-13.1	QP
		V	50.4	49.1	-14.2	34.9	40.0	-5.1	QP
		V	104.8	43.1	-10.5	32.6	43.5	-10.9	QP
		V	200.0	46.1	-12.1	34.0	43.5	-9.5	QP
		V	750.0	41.3	0.2	41.5	46.0	-4.5	QP
		V	939.8	38.7	1.8	40.5	46.0	-5.5	QP
		V	1000.0	40.9	2.5	43.4	54.0	-10.6	QP

Note 1: The worst case of Radiated Emission below 1GHz:

Polarity: Horizontal



Polarity: Vertical



5. Emissions in non-restricted frequency bands

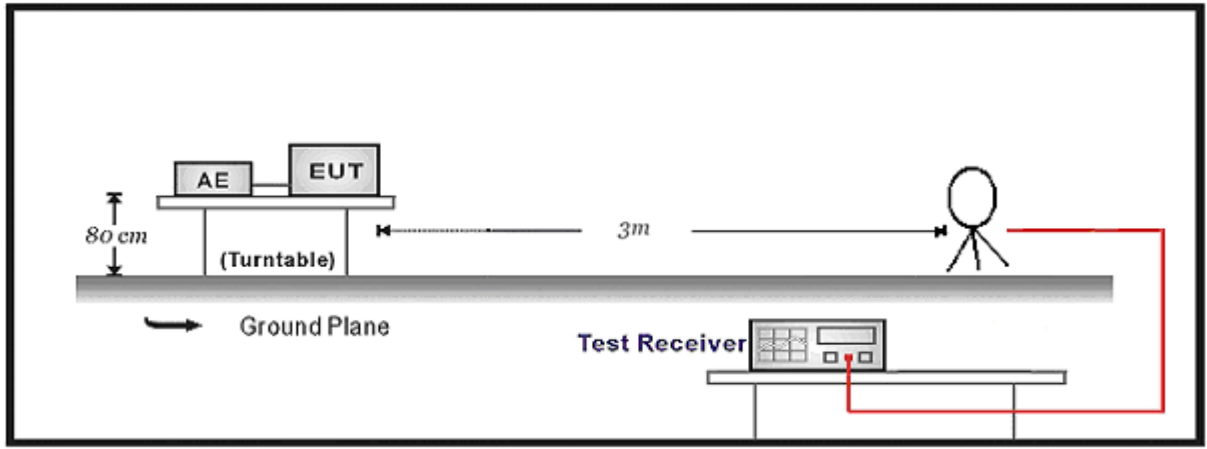
5.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2017.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

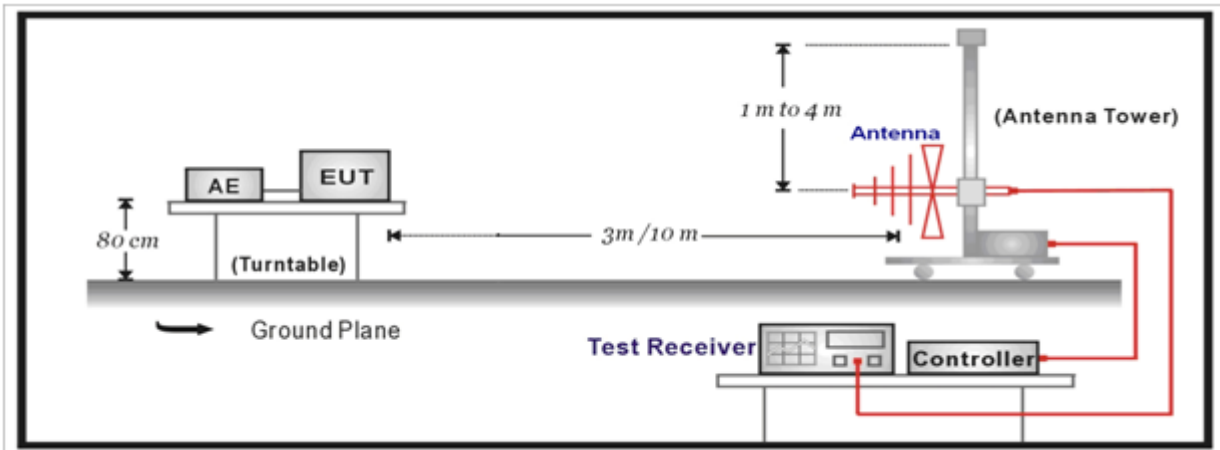
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2016.03.29	2017.03.28
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2. Test Setup

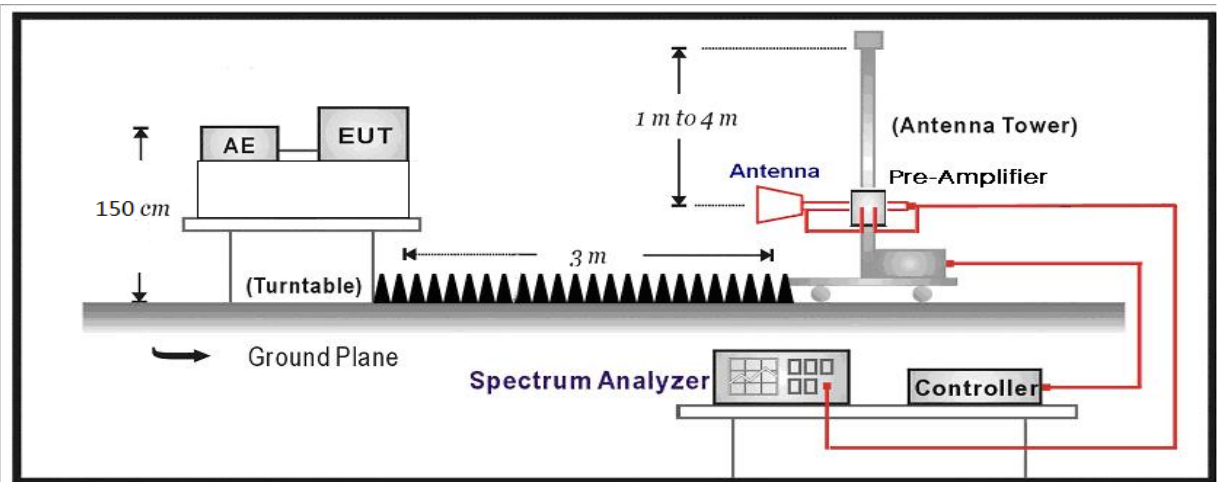
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



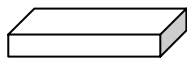
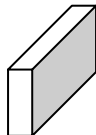
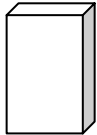



5.3. Limit

Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)
<p>Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).</p> <p>Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).</p>	

5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.11	Emissions in non-restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.11.2	Reference level measurement
	<input checked="" type="checkbox"/> ANSI C63.10	11.11.3	Emission level measurement
<input type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
<input checked="" type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input checked="" type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
<input checked="" type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	<input type="checkbox"/> ANSI C63.10	11.12.2	Antenna-port conducted measurements
	<input type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

5.5. EUT test Axis definition

Item	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

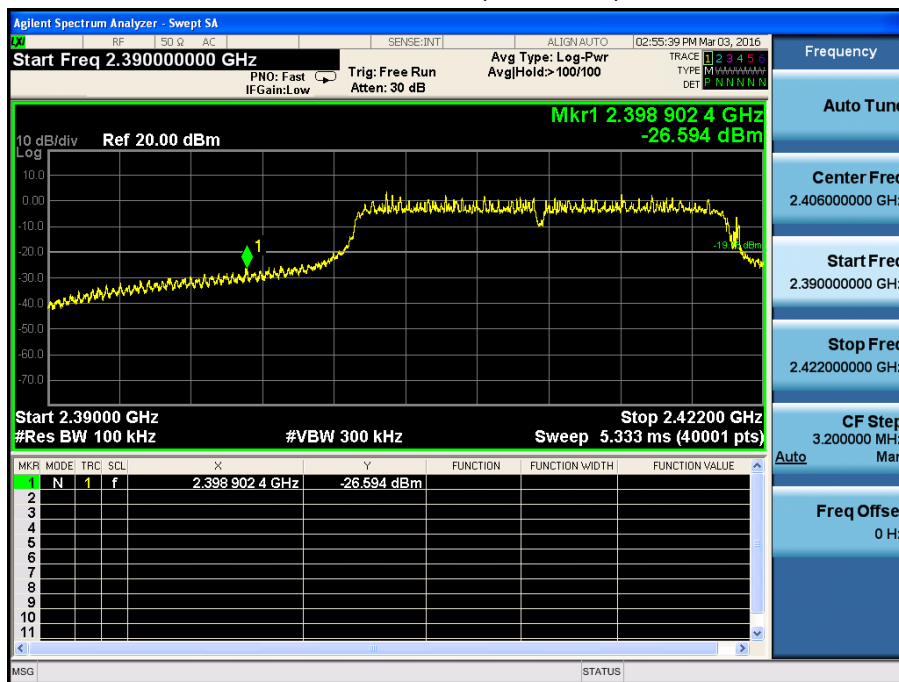
5.6. Test Result

Product Name	: Smart Wi-Fi Light Switch	Test Power	: AC 120V/60Hz
Test Site	: TR1		

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	8.35	2338.70	-37.96	46.31	>30	Pass
1	11	2462	8.35	2509.90	-49.73	58.08	>30	Pass
2	01	2412	10.25	2399.20	-26.59	36.84	>30	Pass
2	11	2462	10.74	2546.30	-51.76	62.50	>30	Pass
3	01	2412	10.79	2399.13	-27.86	38.65	>30	Pass
3	11	2462	10.79	2547.90	-52.11	62.90	>30	Pass
4	03	2422	4.02	2398.27	-32.92	36.94	>30	Pass
4	09	2452	3.52	2500.00	-48.65	52.17	>30	Pass

Note: The worst case of Emissions in non-restricted frequency bands as below:

Mode 1 CH01(2412MHz)

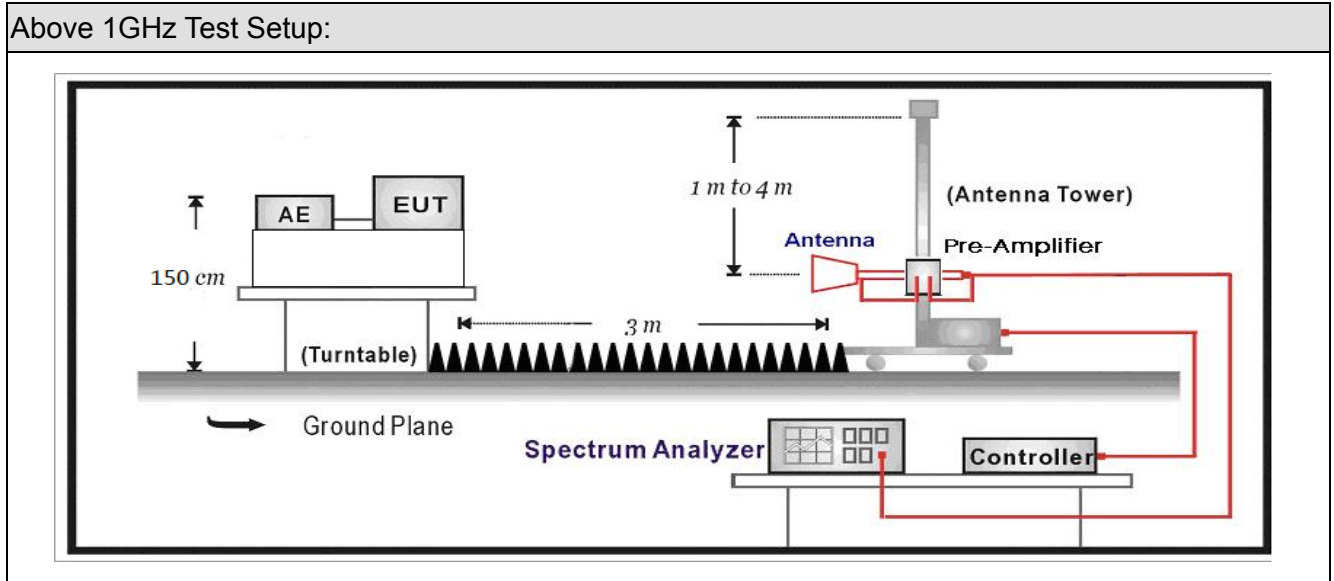


6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03
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

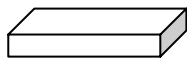
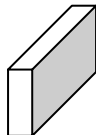
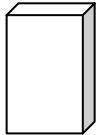



Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

6.4. Test Procedure

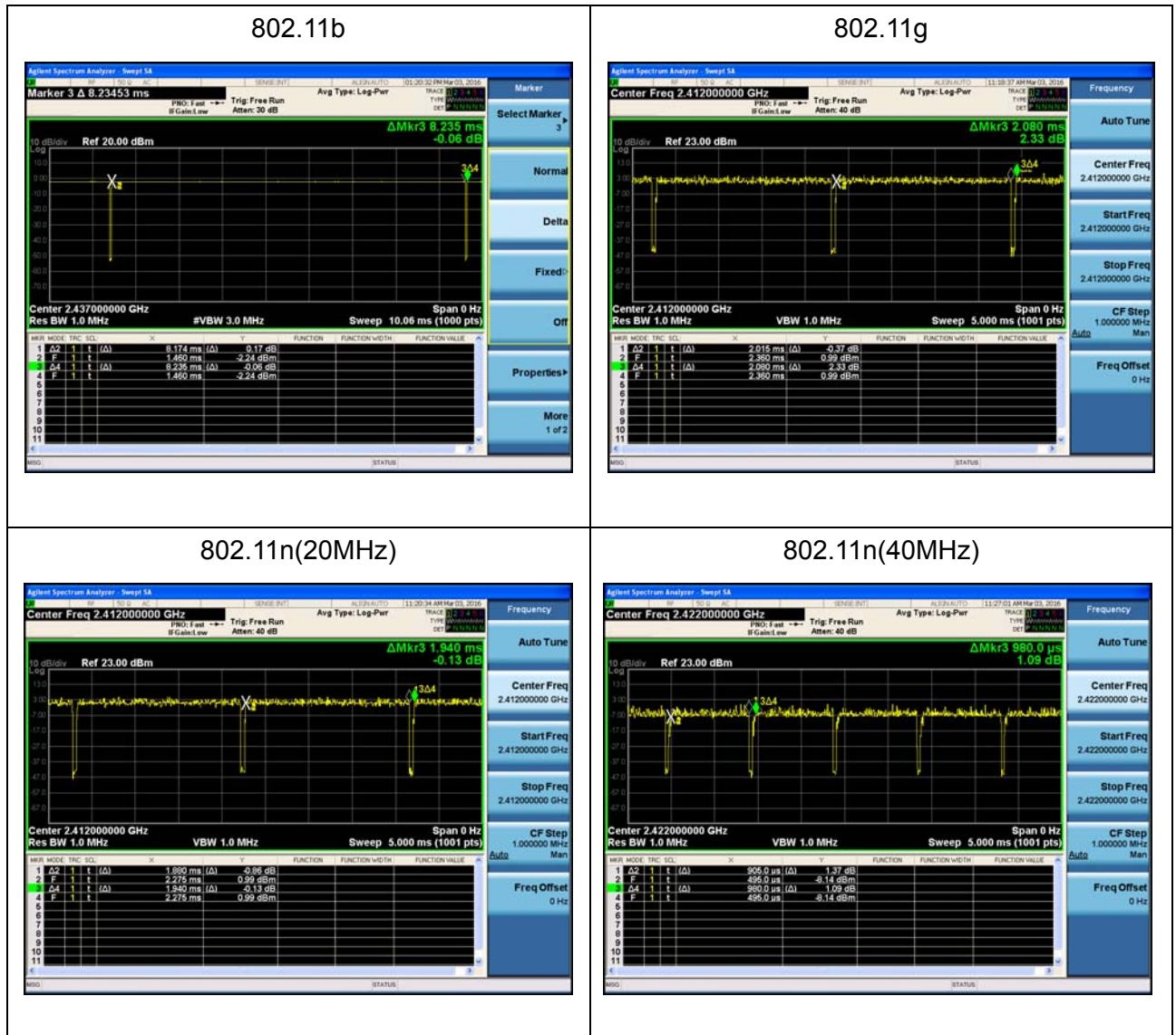
Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	6.10	Band-edge testing
	<input checked="" type="checkbox"/> ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	<input type="checkbox"/> ANSI C63.10	6.10.6	Marker-delta method
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
<input type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
<input checked="" type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	<input type="checkbox"/> ANSI C63.10	11.12.2	Antenna-port conducted measurements
	<input type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

6.5. EUT test definition

Item	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
<input type="checkbox"/>	Chain 1	Chain 2	Chain 3	
				
<input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

6.6. Duty Cycle

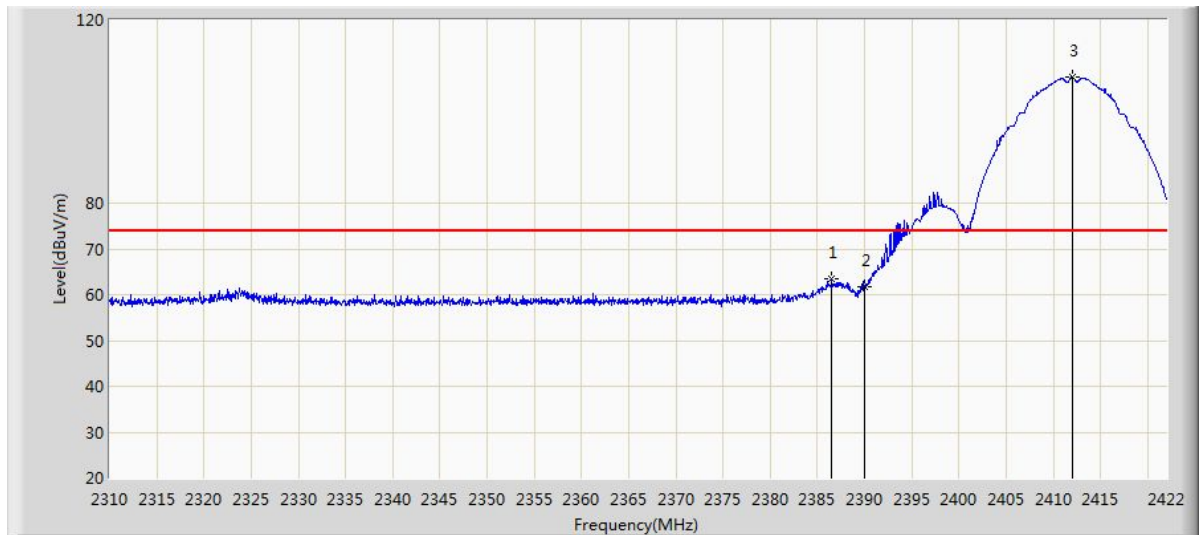
Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	8.174	0.061	125Hz	8.235	99.25%
802.11g	2.015	0.065	510Hz	2.08	96.87%
802.11n(20MHz)	1.88	0.075	550Hz	1.94	96.91%
802.11n(40MHz)	0.905	0.94	1.2kHz	1.04	96.28%



6.7. Test Result

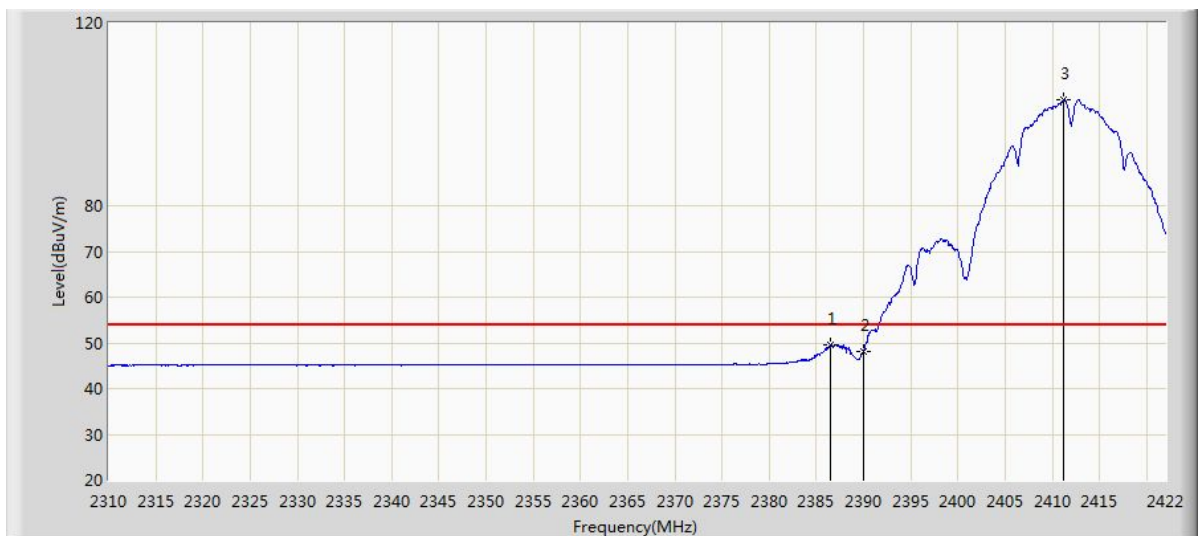
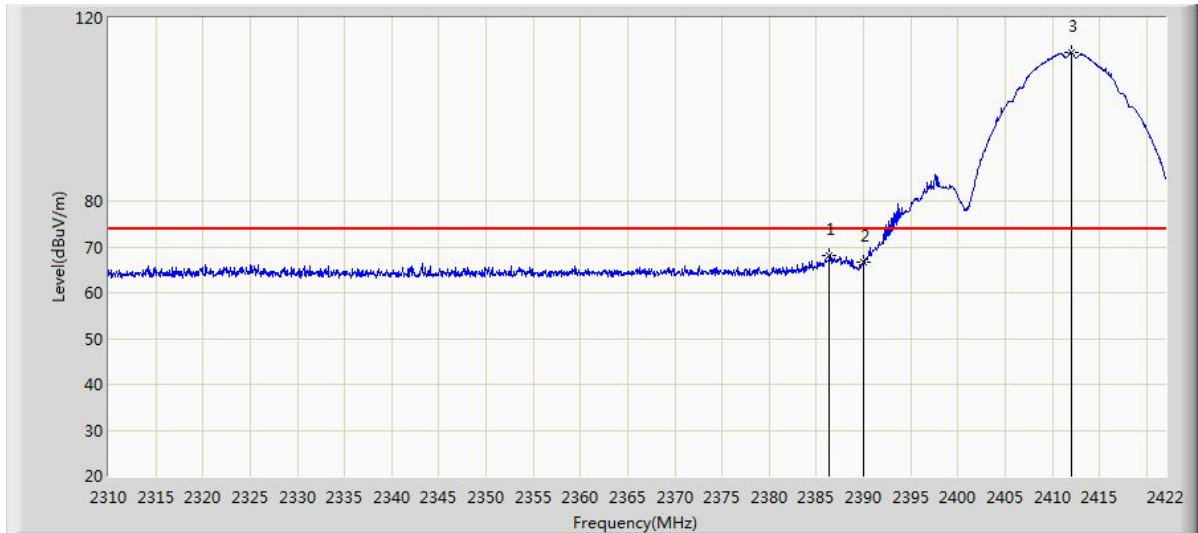
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Horizontal
Test Mode	: Mode 1	Power	: AC 120V/60Hz
Test CH/Freq	: CH01/2412MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2386.496	63.471	26.115	-10.529	74.000	37.357	PK
3	2411.976	107.455	70.121	33.455	74.000	37.334	PK
1	2387.224	53.553	16.197	-0.447	54.000	37.357	AV
3	2411.080	101.887	64.559	47.887	54.000	37.328	AV



Product Name	: Smart Wi-Fi Light Switch	Polarity	: Vertical
Test Mode	: Mode 1	Power	: AC 120V/60Hz
Test CH/Freq	: CH01/2412MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV/m)	Factor (dB)	Type
1	2386.384	68.153	30.797	-5.847	74.000	37.357	PK
3	2411.976	112.325	74.991	38.325	74.000	37.334	PK
1	2386.440	49.440	12.084	-4.560	54.000	37.357	AV
3	2411.192	103.166	65.837	49.166	54.000	37.329	AV



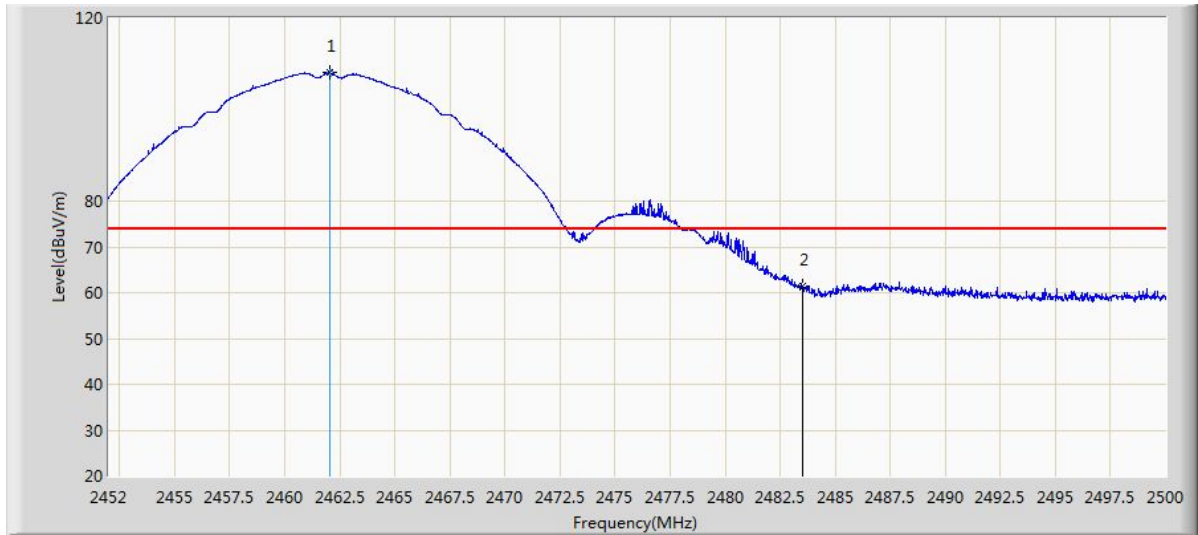
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Horizontal
Test Mode	: Mode 1	Power	: AC 120V/60Hz
Test CH/Freq	: CH11/2462MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Over Limit (dB)	Limit (dBµV/m)	Factor (dB)	Type
1	2461.960	107.049	69.629	N/A	N/A	37.420	PK
2	2483.500	58.233	20.722	-15.767	74.000	37.511	PK
	2461.288	102.563	65.142	N/A	N/A	37.421	AV
	2483.500	53.117	15.606	-0.883	54.000	37.511	AV



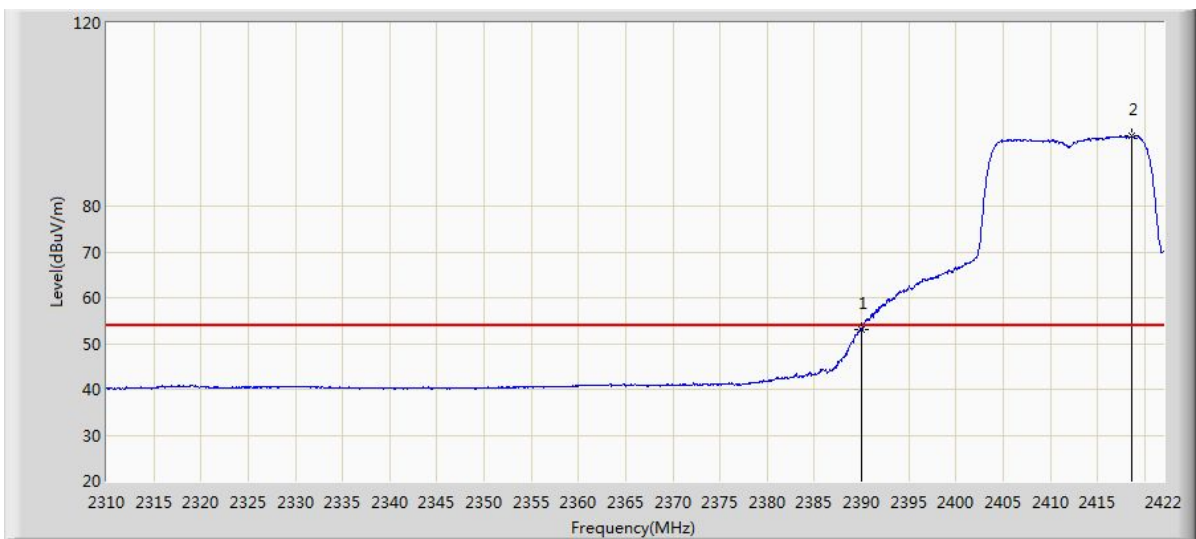
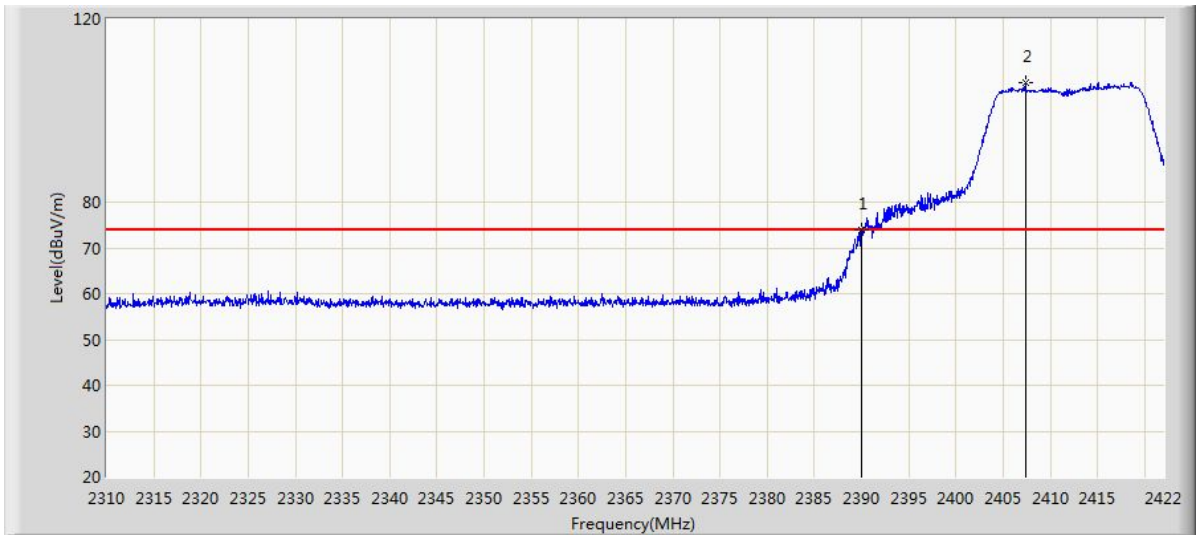
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Vertical
Test Mode	: Mode 1	Power	: AC 120V/60Hz
Test CH/Freq	: CH11/2462MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2462.056	108.093	70.672	N/A	N/A	37.421	PK
2	2483.500	61.547	24.036	-12.453	74.000	37.511	PK
	2461.288	104.321	66.900	N/A	N/A	37.421	AV
	2483.500	50.557	13.046	-3.443	54.000	37.511	AV



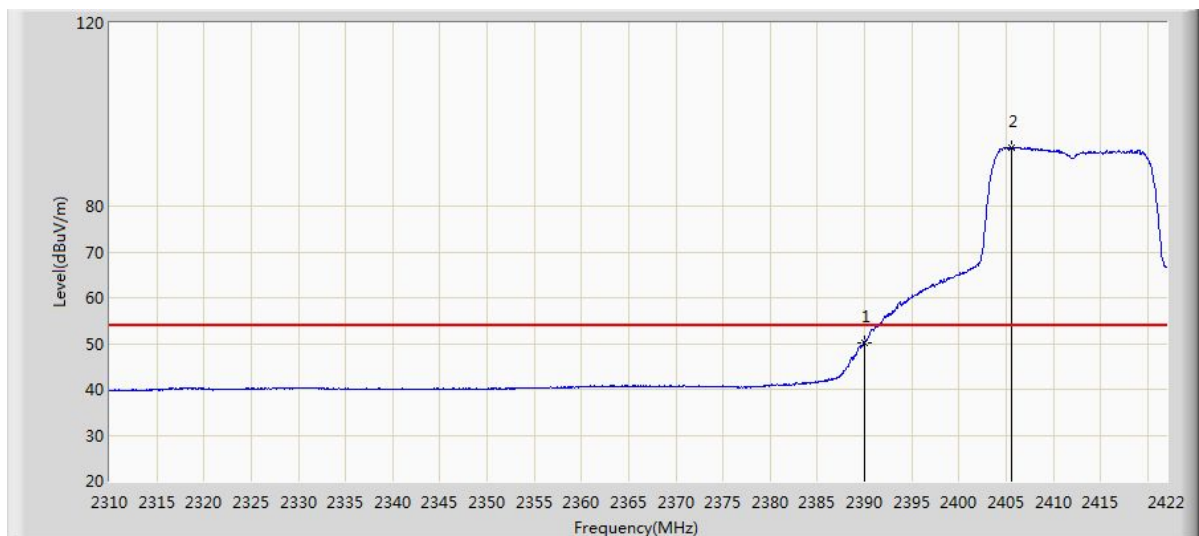
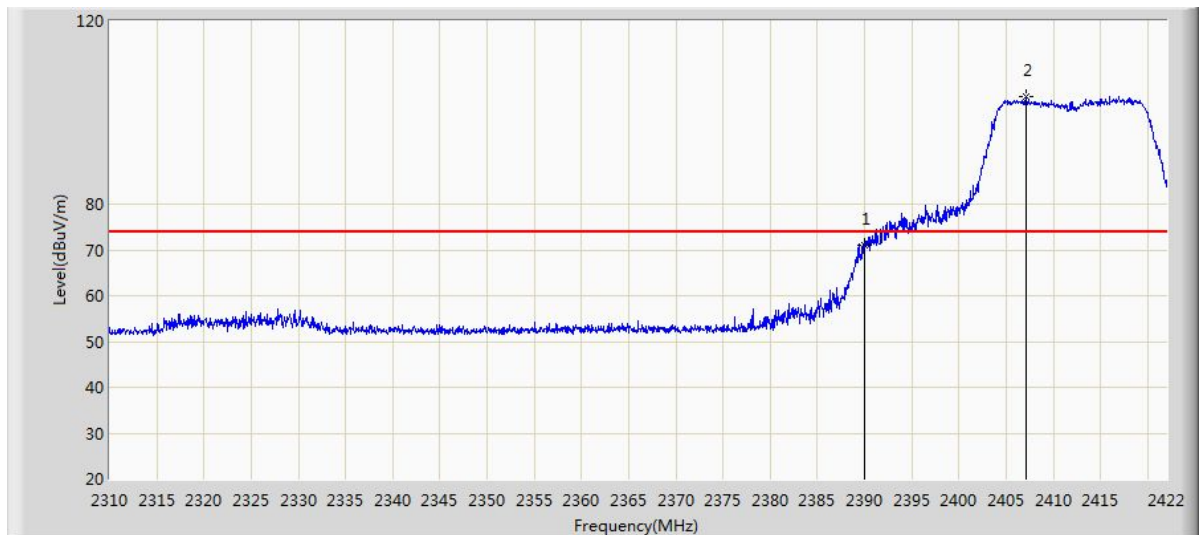
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Horizontal
Test Mode	: Mode 2	Power	: AC 120V/60Hz
Test CH/Freq	: CH01/2412MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2390.000	73.883	36.528	-0.117	74.000	37.355	PK
2	2407.384	106.110	68.777	N/A	N/A	37.334	PK
	2390.000	53.015	15.660	-0.985	54.000	37.355	AV
	2418.640	95.312	57.933	N/A	N/A	37.379	AV



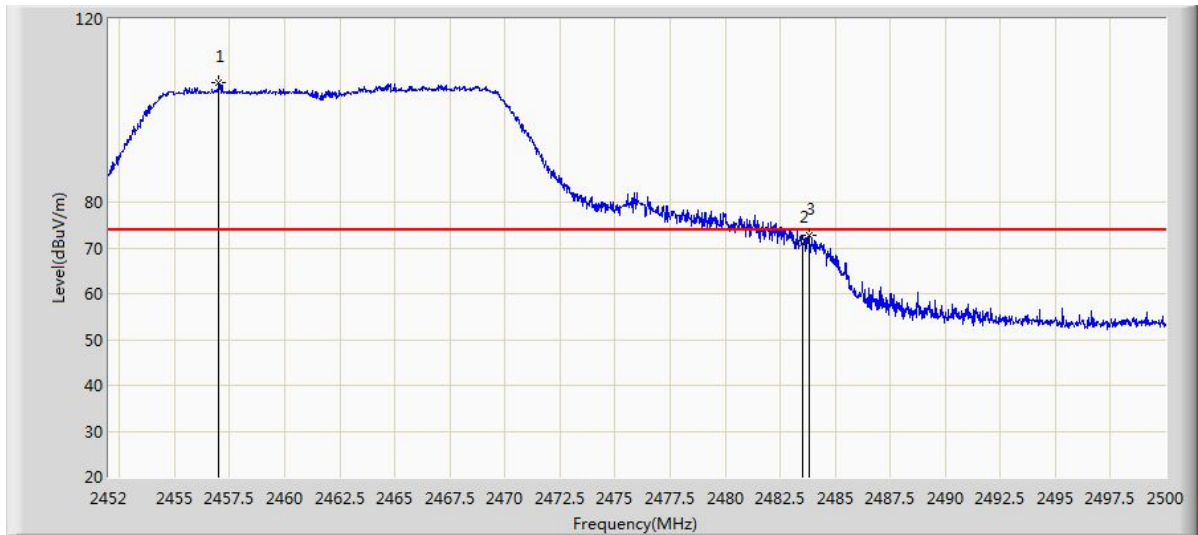
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Vertical
Test Mode	: Mode 2	Power	: AC 120V/60Hz
Test CH/Freq	: CH01/2412MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2390.000	70.982	33.627	-3.018	74.000	37.355	PK
2	2407.104	103.519	66.185	N/A	N/A	37.333	PK
	2390.000	50.244	12.889	-3.756	54.000	37.355	AV
	2405.536	92.880	55.544	N/A	N/A	37.337	AV



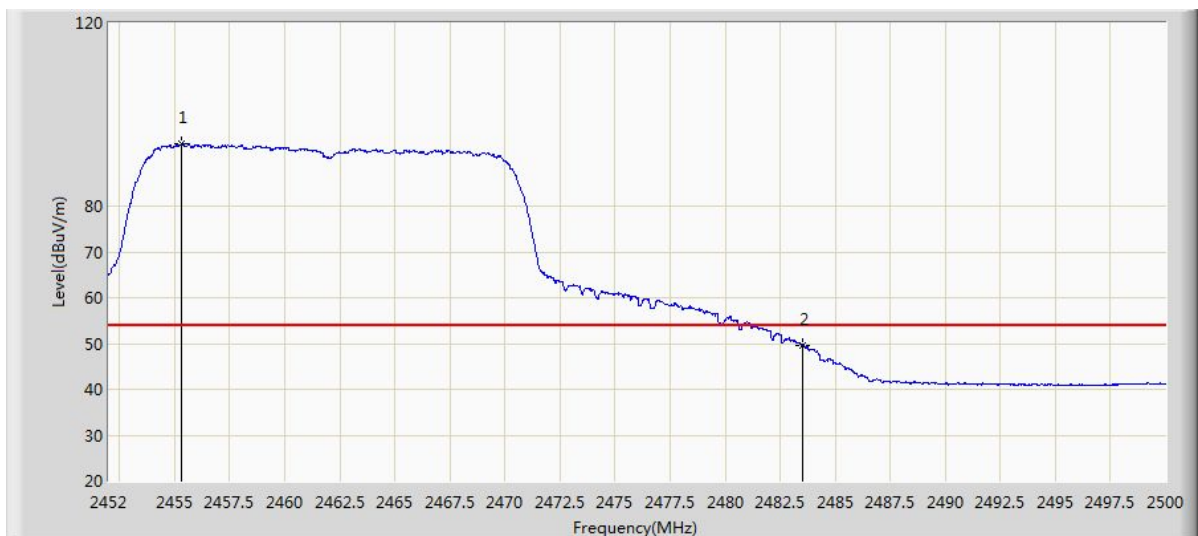
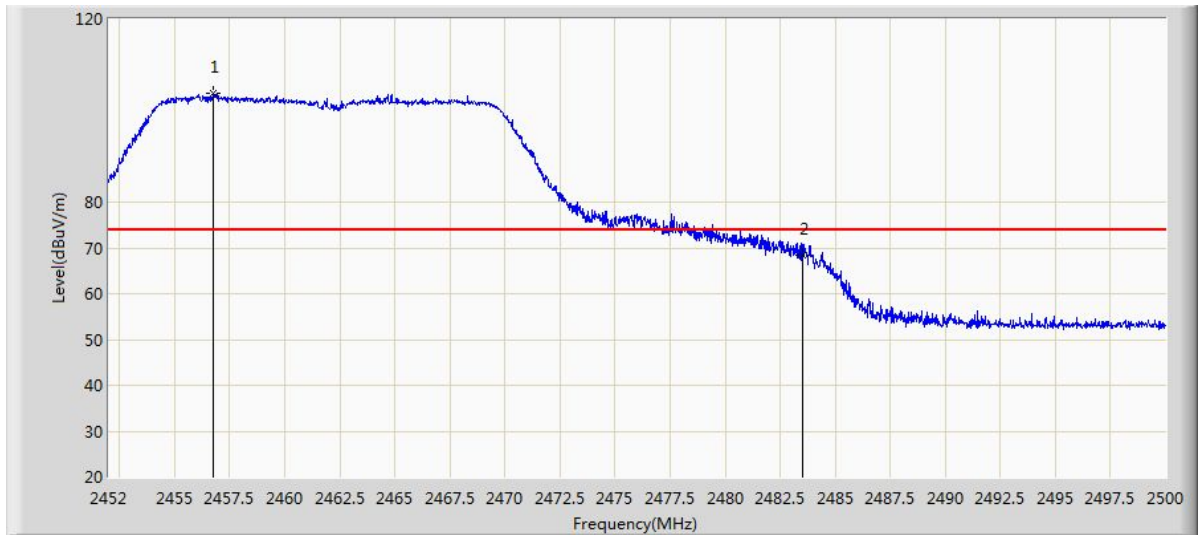
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Horizontal
Test Mode	: Mode 2	Power	: AC 120V/60Hz
Test CH/Freq	: CH11/2462MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2456.992	106.060	68.636	N/A	N/A	37.424	PK
2	2483.848	72.768	35.254	-1.232	74.000	37.514	PK
	2467.528	95.226	57.787	N/A	N/A	37.440	AV
	2483.500	53.222	15.711	-0.778	54.000	37.511	AV



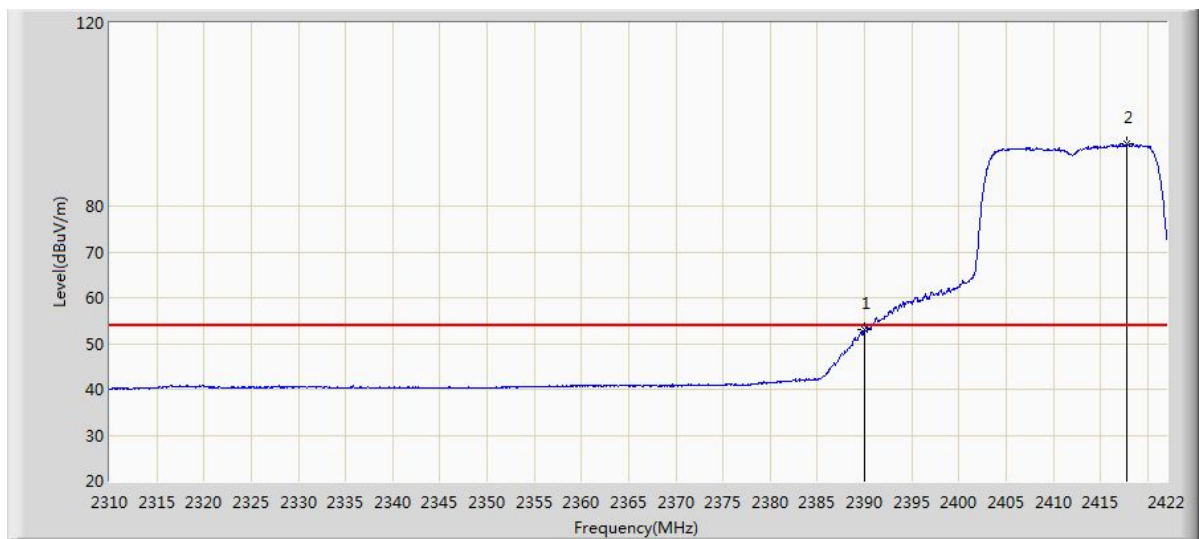
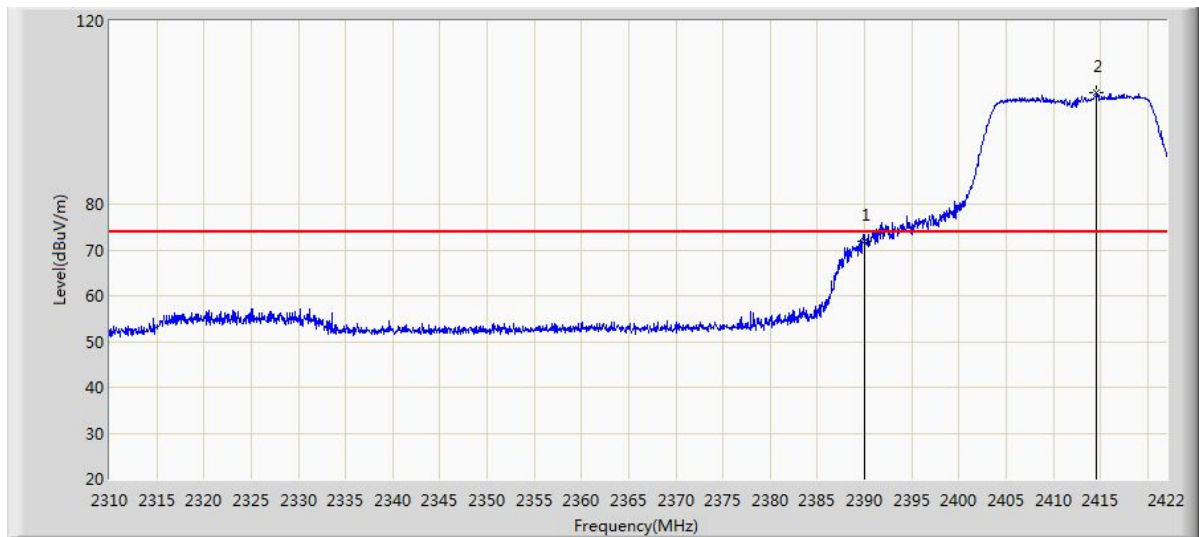
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Vertical
Test Mode	: Mode 2	Power	: AC 120V/60Hz
Test CH/Freq	: CH11/2462MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2456.776	103.836	66.412	N/A	N/A	37.425	PK
2	2483.500	68.426	30.915	-5.574	74.000	37.511	PK
	2455.336	93.551	56.125	N/A	N/A	37.425	AV
	2483.500	49.699	12.188	-4.301	54.000	37.511	AV



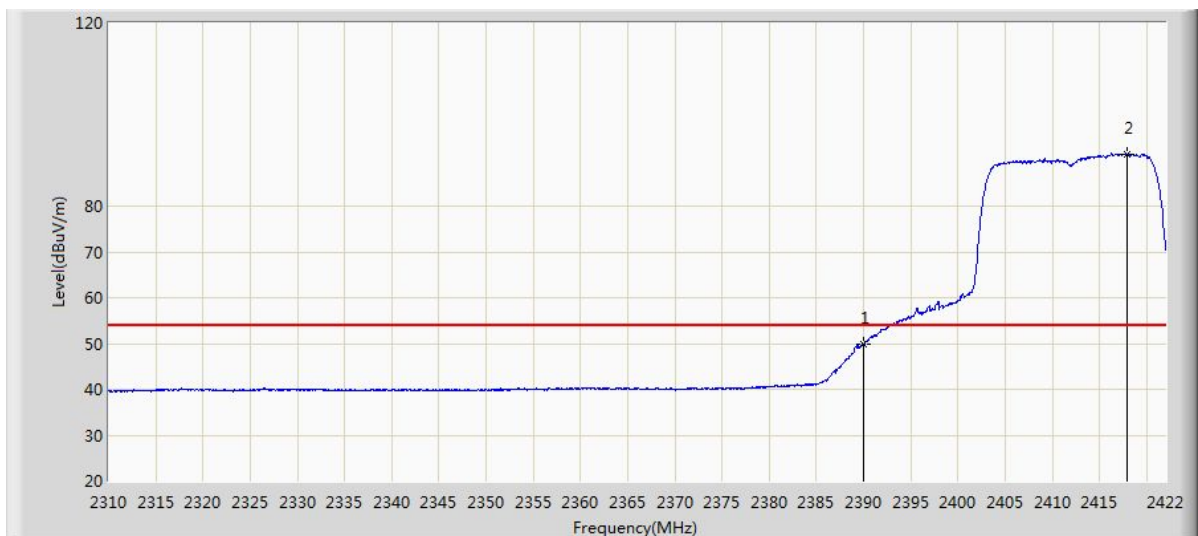
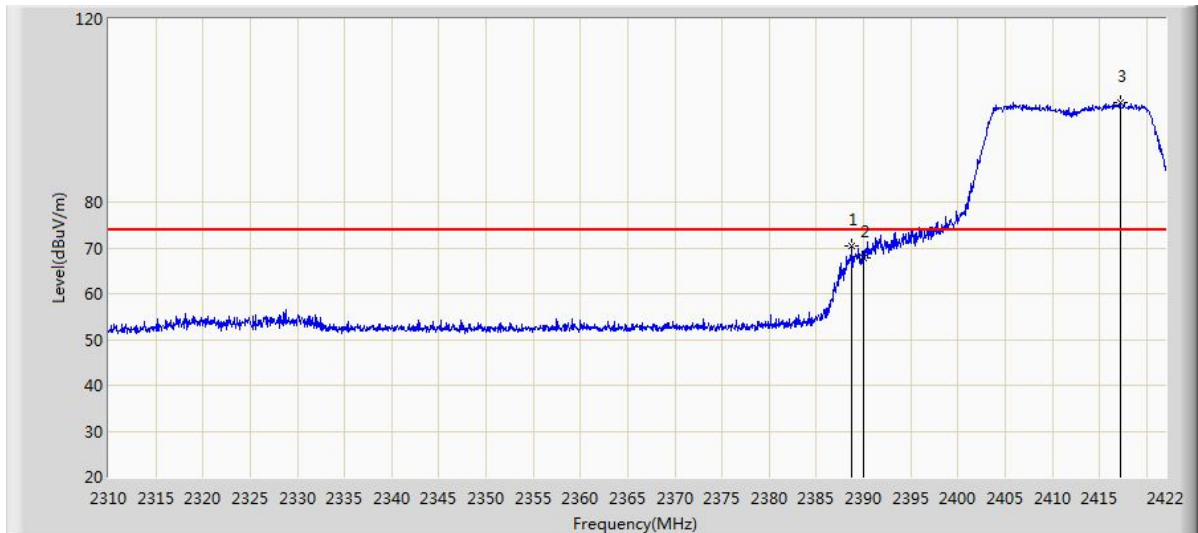
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Horizontal
Test Mode	: Mode 3	Power	: AC 120V/60Hz
Test CH/Freq	: CH01/2412MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Over Limit (dB)	Limit (dBµV/m)	Factor (dB)	Type
1	2390.000	71.939	34.584	-2.061	74.000	37.355	PK
2	2414.552	104.203	66.852	N/A	N/A	37.351	PK
1	2390.000	53.171	15.816	-0.829	54.000	37.355	AV
2	2417.800	93.531	56.158	N/A	N/A	37.373	AV



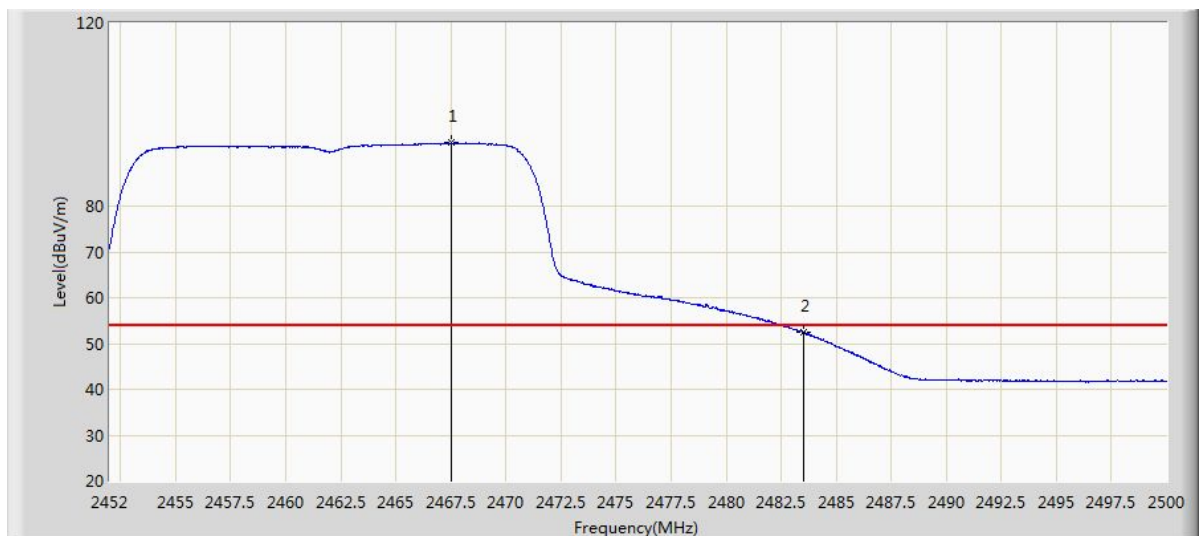
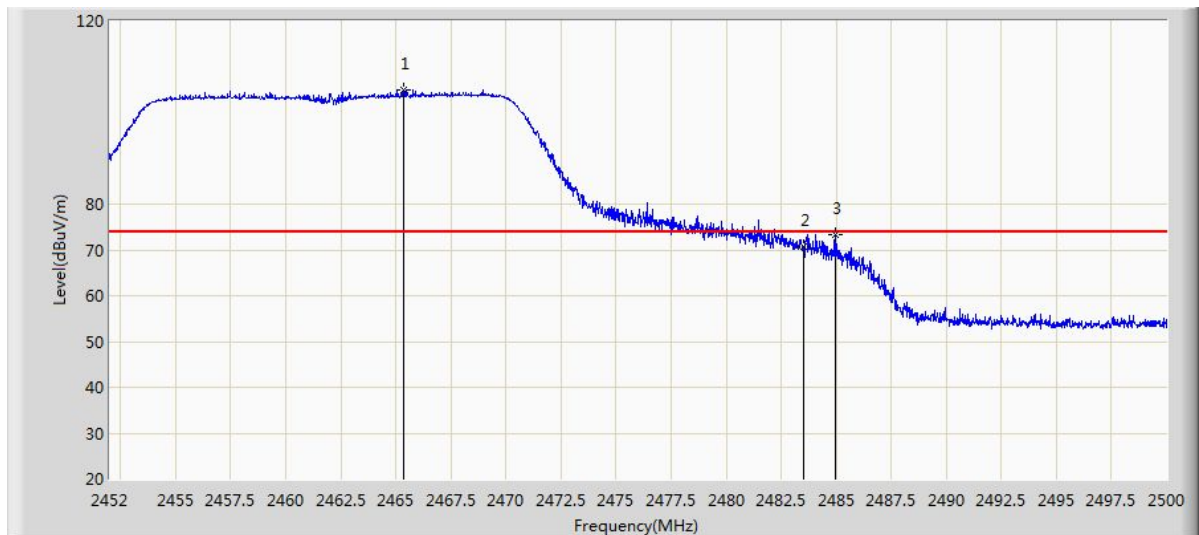
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Vertical
Test Mode	: Mode 3	Power	: AC 120V/60Hz
Test CH/Freq	: CH01/2412MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2388.792	70.369	33.013	-3.631	74.000	37.356	PK
3	2417.240	101.672	64.302	N/A	N/A	37.370	PK
1	2390.000	49.861	12.506	-4.139	54.000	37.355	AV
2	2417.912	91.379	54.005	N/A	N/A	37.375	AV



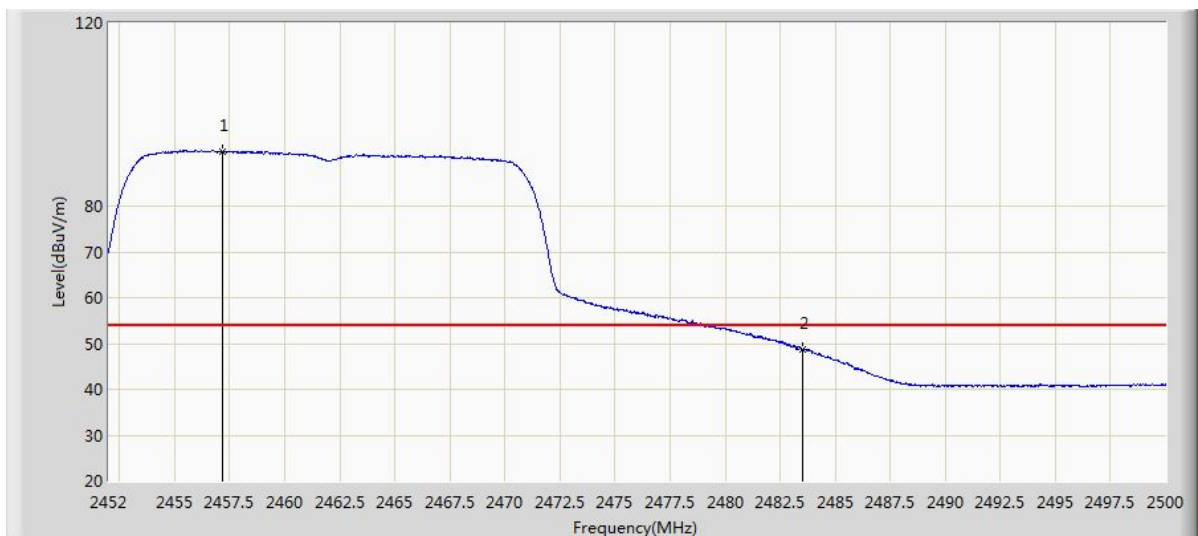
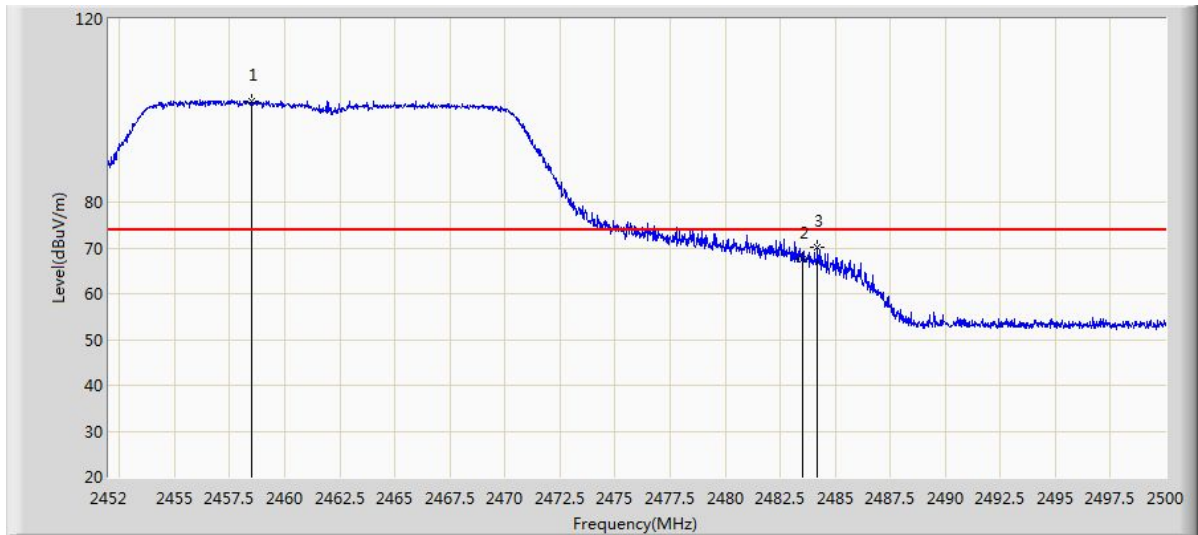
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Horizontal
Test Mode	: Mode 3	Power	: AC 120V/60Hz
Test CH/Freq	: CH11/2462MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2465.368	105.056	67.624	N/A	N/A	37.432	PK
3	2484.952	73.361	35.839	-0.639	74.000	37.522	PK
1	2467.528	93.787	56.348	N/A	N/A	37.440	AV
2	2483.500	52.414	14.903	-1.586	54.000	37.511	AV



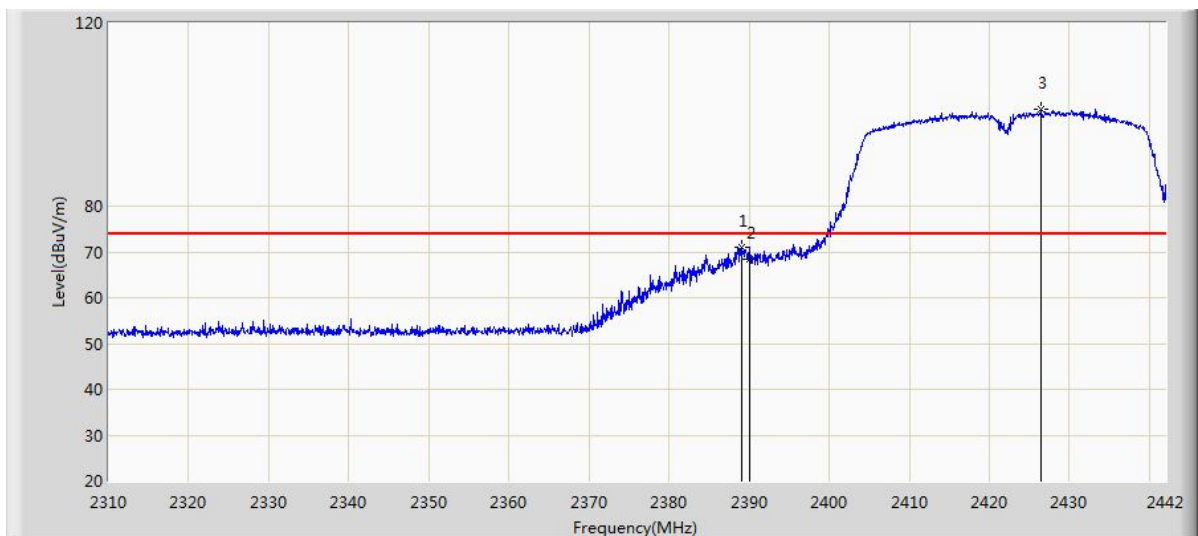
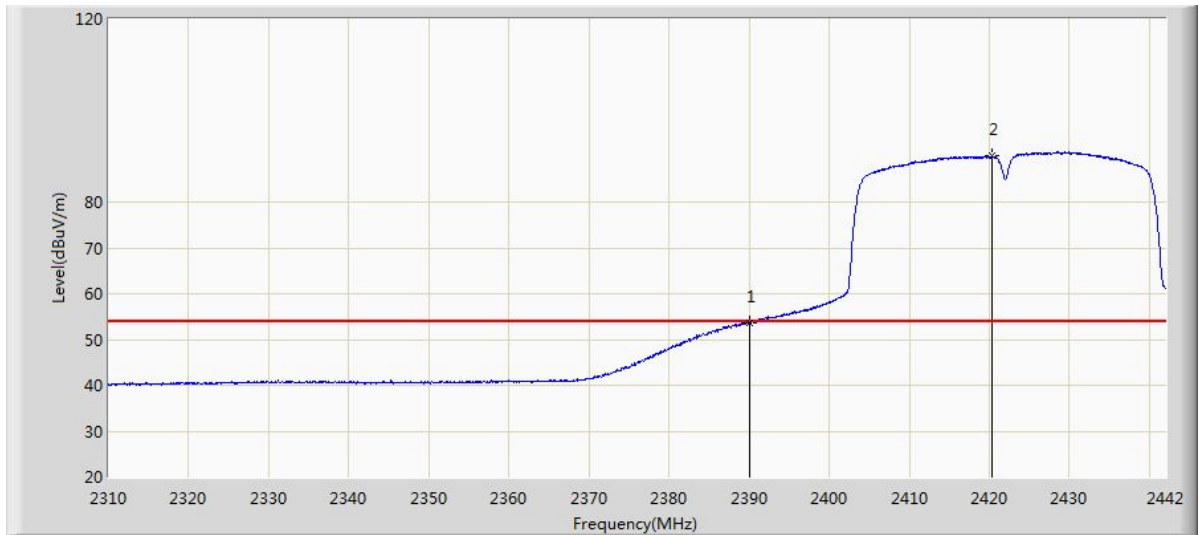
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Vertical
Test Mode	: Mode 3	Power	: AC 120V/60Hz
Test CH/Freq	: CH11/2462MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Over Limit (dB)	Limit (dBµV/m)	Factor (dB)	Type
1	2458.504	101.921	64.498	N/A	N/A	37.423	PK
3	2484.208	70.073	32.557	-3.927	74.000	37.516	PK
1	2457.160	91.908	54.484	N/A	N/A	37.424	AV
2	2483.500	48.801	11.290	-5.199	54.000	37.511	AV



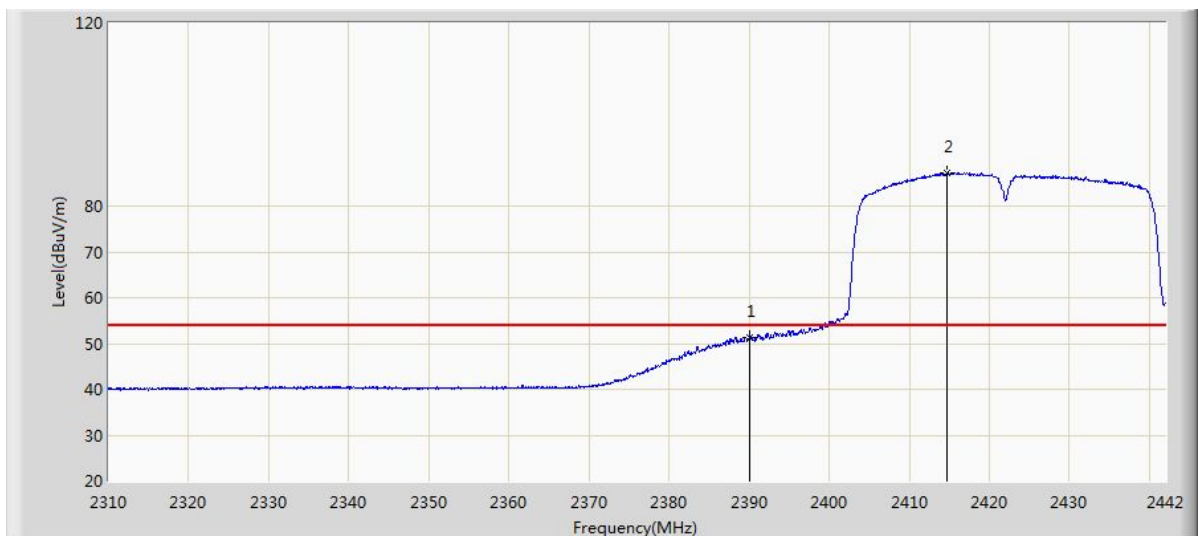
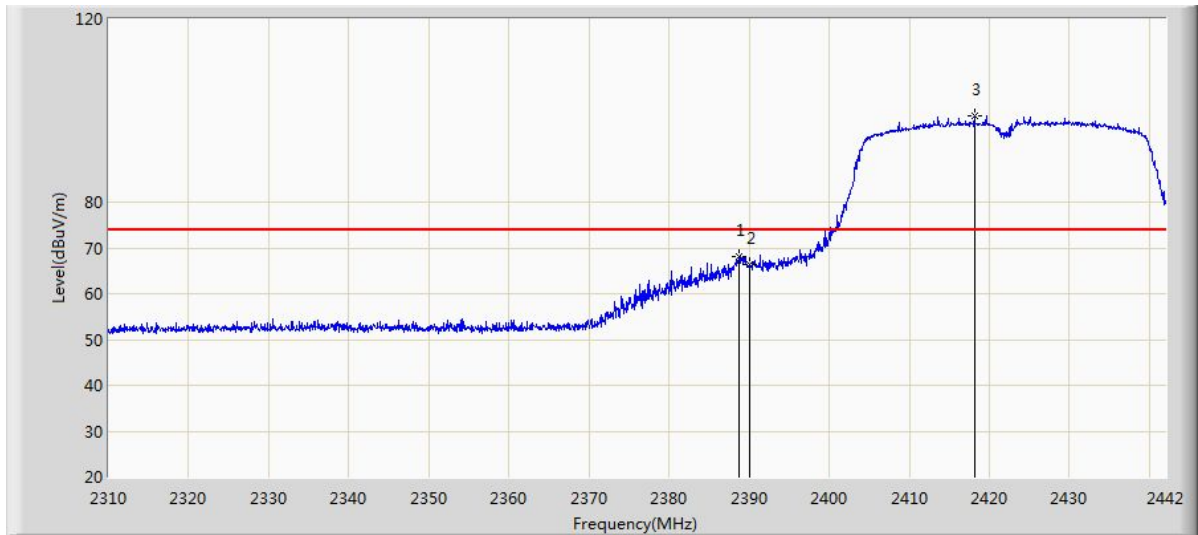
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Horizontal
Test Mode	: Mode 4	Power	: AC 120V/60Hz
Test CH/Freq	: CH03/2422MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2390.000	53.686	16.331	-0.314	54.000	37.355	AV
2	2420.352	90.095	52.704	N/A	N/A	37.391	AV
1	2389.134	71.024	33.668	-2.976	74.000	37.356	PK
3	2426.490	101.216	63.784	N/A	N/A	37.432	PK



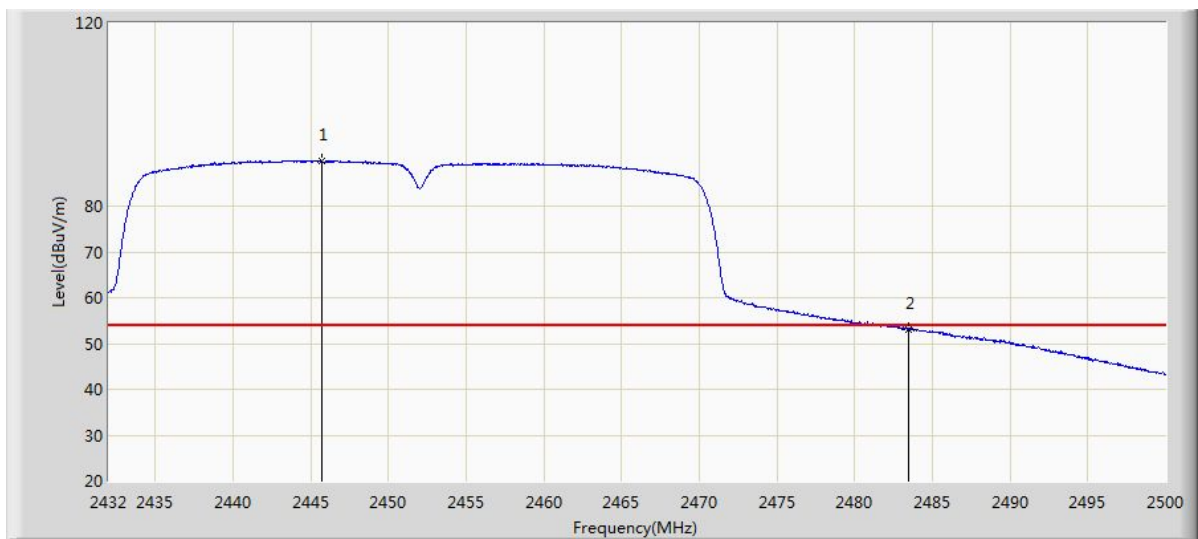
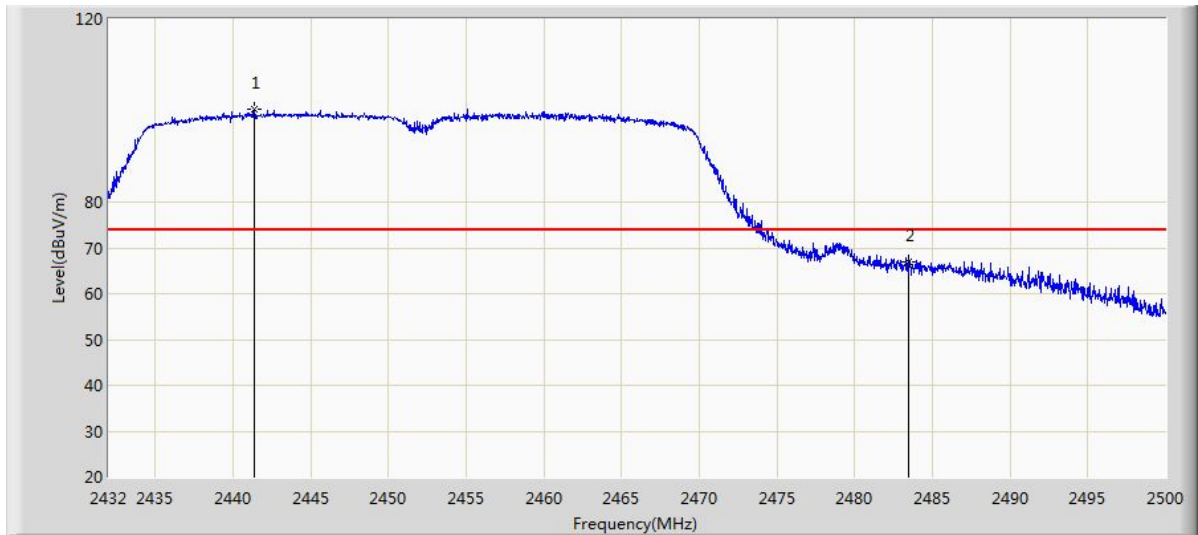
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Vertical
Test Mode	: Mode 4	Power	: AC 120V/60Hz
Test CH/Freq	: CH03/2422MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2388.738	68.062	30.706	-5.938	74.000	37.355	PK
3	2418.108	98.854	61.479	N/A	N/A	37.376	PK
1	2390.000	51.345	13.990	-2.655	54.000	37.355	AV
2	2414.742	87.265	49.912	N/A	N/A	37.353	AV



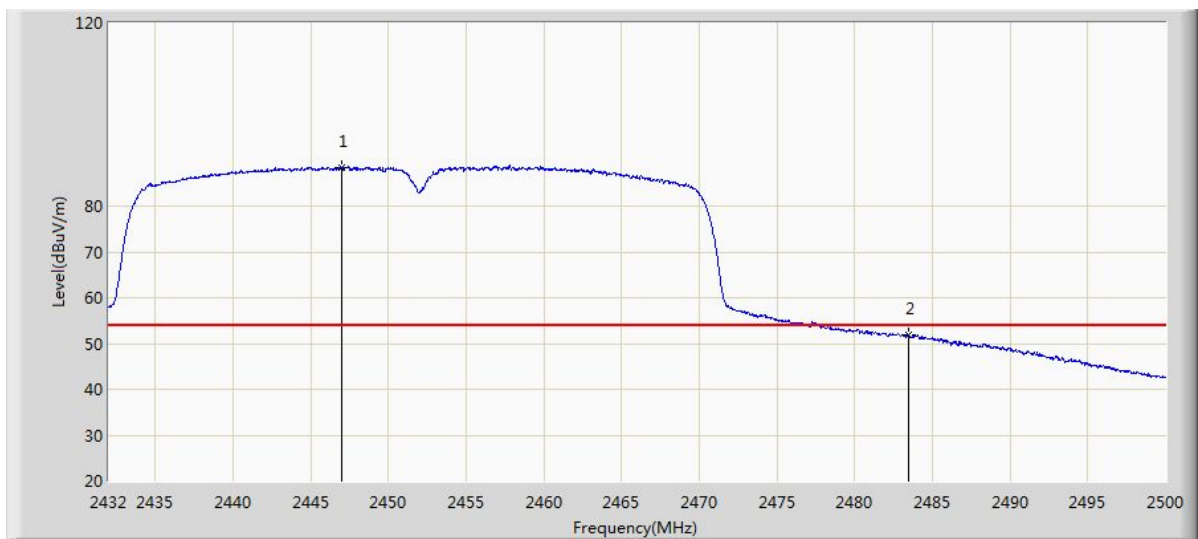
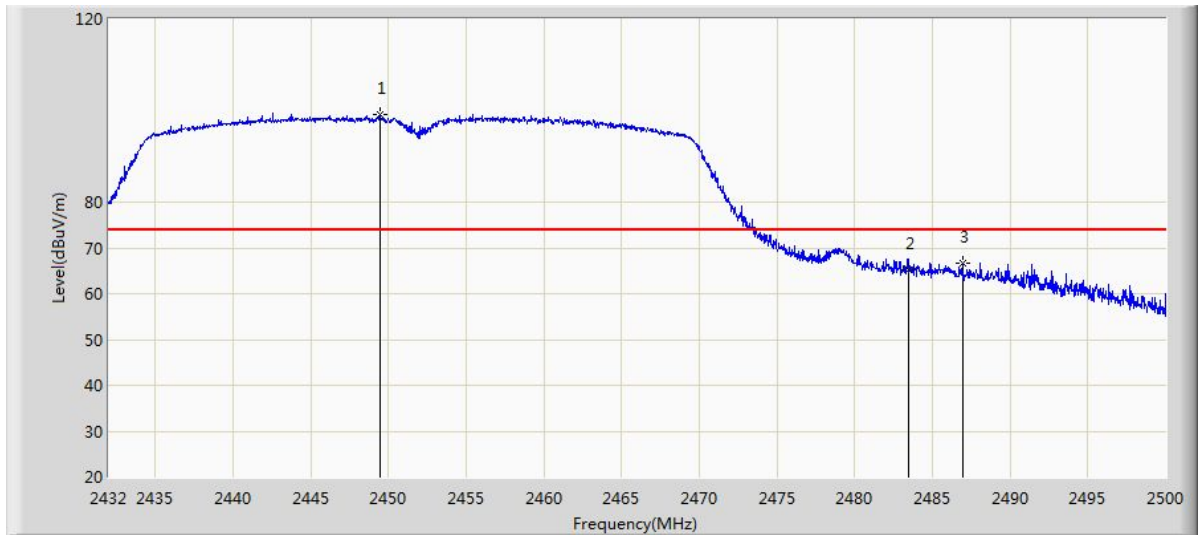
Product Name	: Smart Wi-Fi Light Switch	Polarity	: Horizontal
Test Mode	: Mode 4	Power	: AC 120V/60Hz
Test CH/Freq	: CH09/2452MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2441.350	100.415	62.980	N/A	N/A	37.436	PK
2	2483.500	67.078	29.567	-6.922	74.000	37.511	PK
1	2445.736	89.724	52.291	N/A	N/A	37.433	AV
2	2483.500	53.127	15.616	-0.873	54.000	37.511	AV



Product Name	: Smart Wi-Fi Light Switch	Polarity	: Vertical
Test Mode	: Mode 4	Power	: AC 120V/60Hz
Test CH/Freq	: CH09/2452MHz	Test Site	: AC5

No	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Over Limit (dB)	Limit (dB μ V/m)	Factor (dB)	Type
1	2449.442	99.012	61.582	N/A	N/A	37.430	PK
3	2486.944	66.547	29.011	-7.453	74.000	37.536	PK
1	2446.994	88.499	51.067	N/A	N/A	37.432	AV
2	2483.500	51.751	14.240	-2.249	54.000	37.511	AV



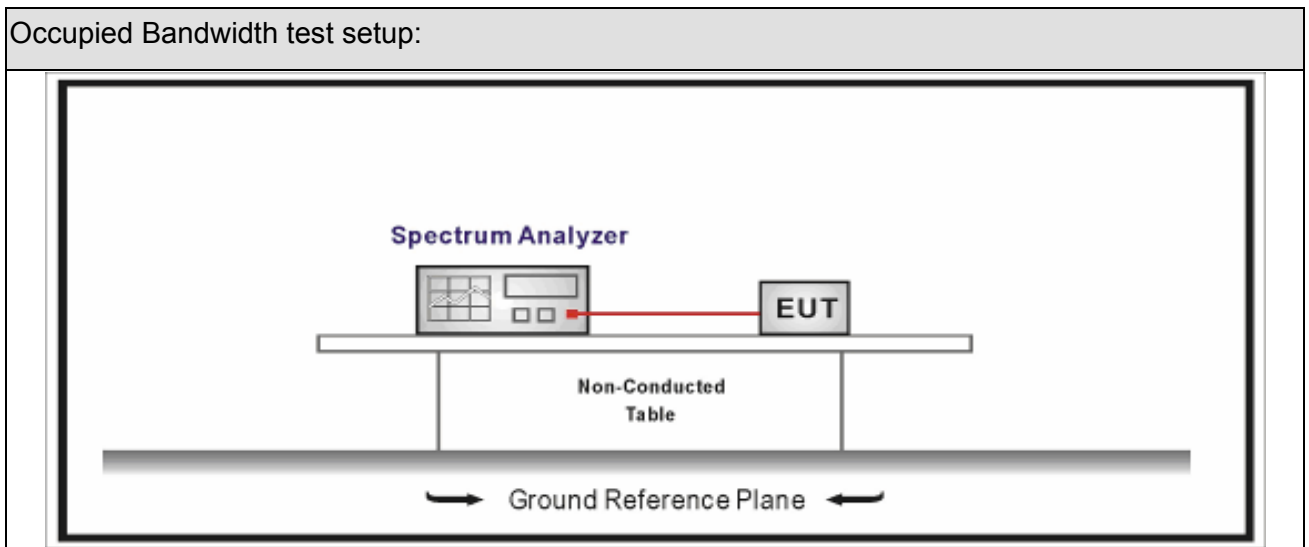
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09

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

7.2. Test Setup



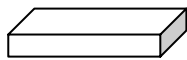
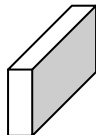
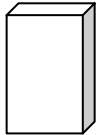



7.3. Limit

Occupied Bandwidth
Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

7.4. Test Procedure

Test Method			
	Reference Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.8	DTS bandwidth
	<input type="checkbox"/> ANSI C63.10	11.8.1	Option 1
	<input checked="" type="checkbox"/> ANSI C63.10	11.8.2	Option 2

7.5. EUT test definition

Item	Occupied Bandwidth			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

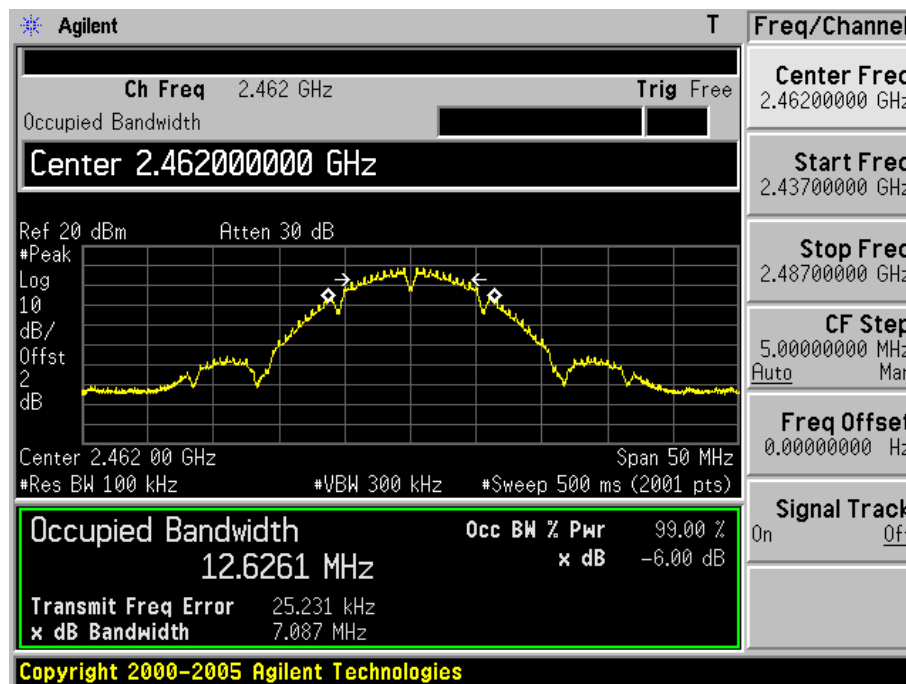
7.6. Test Result

Product Name	: Smart Wi-Fi Light Switch	Test Power	: AC 120V/60Hz
Test Site	: TR-8		

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (kHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
			Ant 0	Ant 0		
1	01	2412	12602.6	7079	>500	Pass
1	06	2437	15530.0	7085	>500	Pass
1	11	2462	12626.1	7087	>500	Pass
2	01	2412	16435.1	16329	>500	Pass
2	06	2437	31013.8	16365	>500	Pass
2	11	2462	16537.1	16323	>500	Pass
3	01	2412	17649.8	17540	>500	Pass
3	06	2437	29570.7	17543	>500	Pass
3	11	2462	17631.9	17560	>500	Pass
4	03	2422	35823.8	35131	>500	Pass
4	06	2437	36397.7	35094	>500	Pass
4	09	2452	35826.8	35117	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

Mode 1 CH06 (2462MHz)



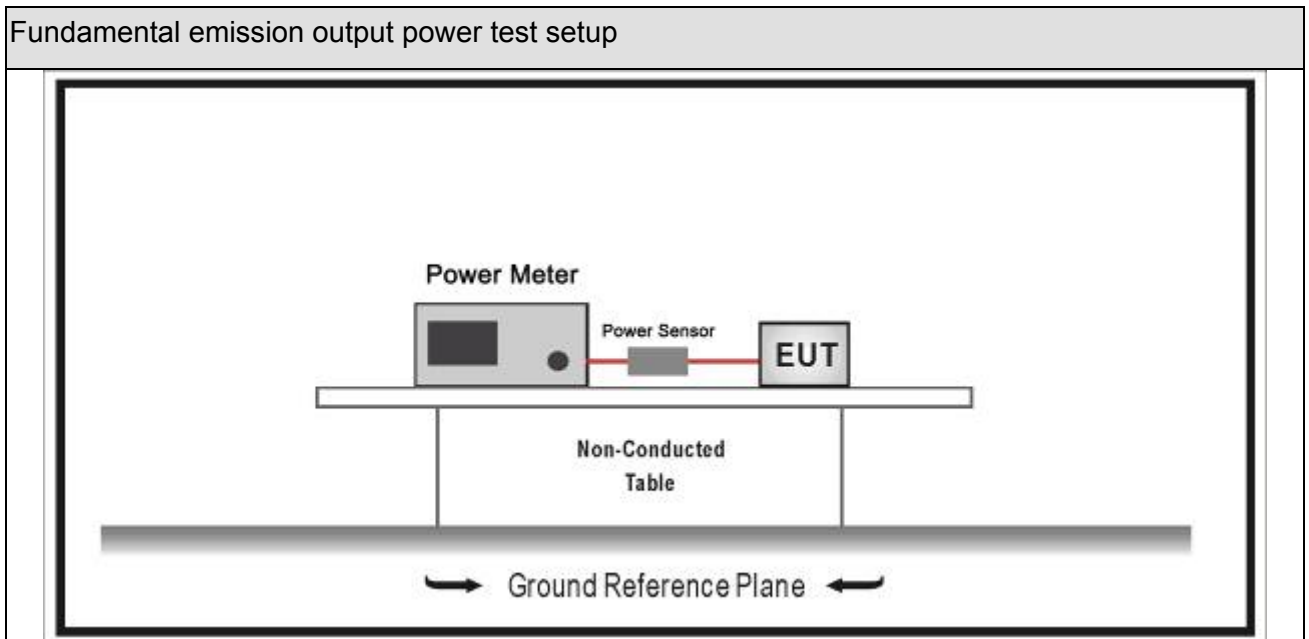
8. Fundamental emission output power

8.1. Test Equipment

Fundamental emission output power/ TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2015.11.11	2016.11.10
Power Sensor	Anritsu	MA2411B	0846014	2015.11.11	2016.11.10
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2016.04.10	2017.04.09

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

8.2. Test Setup



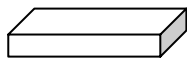
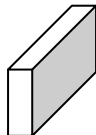
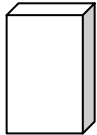



8.3. Limit

Fundamental emission output power Limit		
<input checked="" type="checkbox"/>	$G_{TX} < 6\text{dBi}$	$P_{out} \leq 30\text{dBm}$
<input type="checkbox"/>	$G_{TX} > 6\text{dBi}$	
<input type="checkbox"/>	Non-Fix point-point	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Fix point-point	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	Point-to-multipoint	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Overlap Beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	Aggregate power transmitted simultaneously on all beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	single directional beam	$P_{out} \leq 30 - [(G_{TX} - 6)]/3 + 8\text{dB}$
<p>Note 1 : G_{TX} directional gain of transmitting antennas.</p> <p>Note 2 : P_{out} is maximum peak conducted output power .</p>		

8.4. Test Procedure

Fundamental emission output power Test Method					
	References Rule		Chapter	Description	
<input checked="" type="checkbox"/>	ANSI C63.10		11.9	Fundamental emission output power	
<input type="checkbox"/>	ANSI C63.10		11.9.1	Maximum peak conducted output power	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.1	RBW \geq DTS bandwidth	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.2	Integrated band power method	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method	
<input checked="" type="checkbox"/>	ANSI C63.10		11.9.2	Maximum conducted (average) output power	
	<input type="checkbox"/>	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle \geq 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle \geq 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle \leq 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle \leq 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-3	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A	
	<input checked="" type="checkbox"/>	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3.1	Method AVGPM	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3.2	Method AVGPM-G	

8.5. EUT test definition

Item	Fundamental emission output power			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
		Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
<input type="checkbox"/>	Chain 1	Chain 2	Chain 3	
				
	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

8.6. Test Result

Product Name	:	Smart Wi-Fi Light Switch	Test Power	:	AC 120V/60Hz
Test Site	:	TR1			

Mode	Channel	Test Frequency (MHz)	Measurement Power Output (dBm)	Total Power (dBm)	Directional Gain (dBi)	Limit (dBm)	Result
			Ant 0				
1	01	2412	16.04	16.04	3.28	30	Pass
1	06	2437	15.65	15.65	3.28	30	Pass
1	11	2462	16.52	16.52	3.28	30	Pass
2	01	2412	14.24	14.24	3.28	30	Pass
2	06	2437	20.85	20.85	3.28	30	Pass
2	11	2462	15.41	15.41	3.28	30	Pass
3	01	2412	13.37	13.37	3.28	30	Pass
3	06	2437	21.22	21.22	3.28	30	Pass
3	11	2462	14.69	14.69	3.28	30	Pass
4	03	2422	11.98	11.98	3.28	30	Pass
4	06	2437	16.35	16.35	3.28	30	Pass
4	09	2452	12.95	12.95	3.28	30	Pass

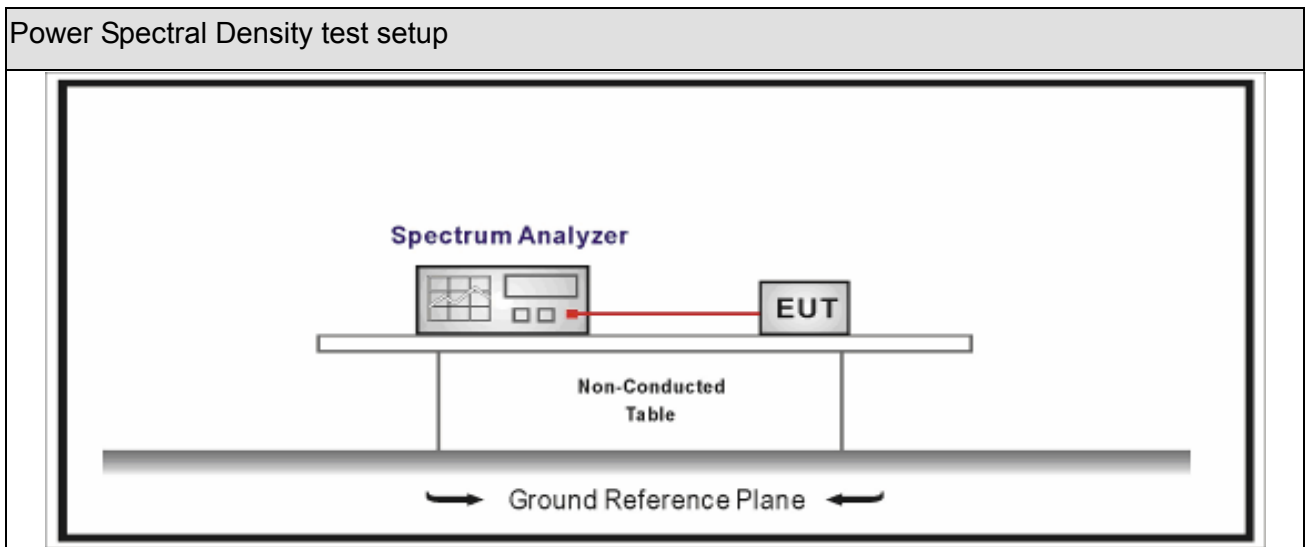
9. Power Spectral Density

9.1. Test Equipment

Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09

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

9.2. Test Setup



9.3. Limit

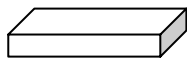
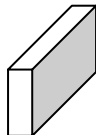
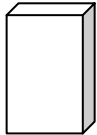



Power Spectral Density Limit

Power Spectral Density $\leq 8\text{dBm}/3\text{kHz}$

9.4. Test Procedure

Power Spectral Density Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.10	Maximum power spectral density level in the fundamental emission
<input checked="" type="checkbox"/>	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
<input type="checkbox"/>	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle $\geq 98\%$)
<input type="checkbox"/>	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle $\geq 98\%$)
<input type="checkbox"/>	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle $< 98\%$)
<input type="checkbox"/>	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle $< 98\%$)
<input type="checkbox"/>	ANSI C63.10	11.10.7	Method AVGPSD-3
<input type="checkbox"/>	ANSI C63.10	11.10.8	Method AVGPSD-3A

9.5. EUT test definition

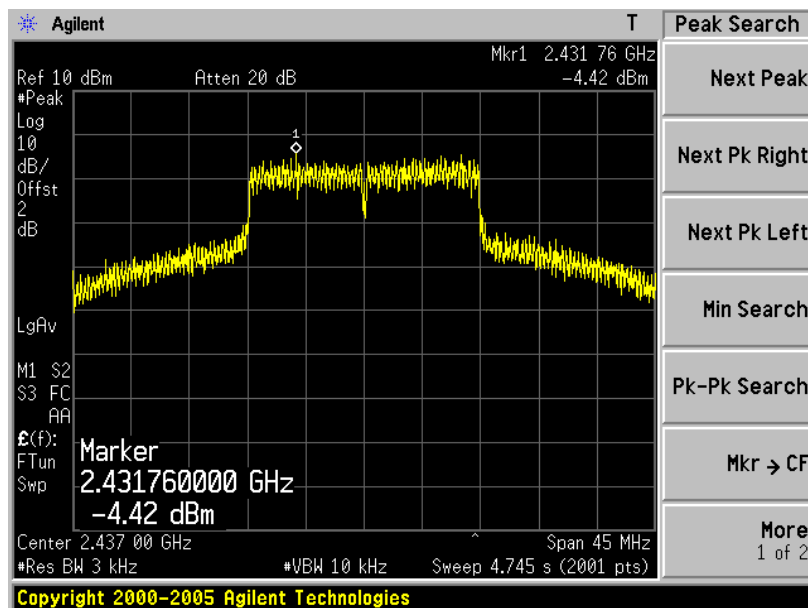
Item	Power Spectral Density Test Method			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1, Mode 2, Mode 3, Mode 4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	
<input type="checkbox"/>	Chain 1	Chain 2	Chain 3	
				
<input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	Worst Chain <input type="checkbox"/>	

9.6. Test Result

Product Name	: Smart Wi-Fi Light Switch	Test Power	: AC 120V/60Hz
Test Site	: TR8		

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Directional Gain (dBi)	Limit (dBm/3kHz)	Result
			Ant 0				
1	01	2412	-6.21	-6.21	3.28	8	Pass
1	06	2437	-6.50	-6.50	3.28	8	Pass
1	11	2462	-6.09	-6.09	3.28	8	Pass
2	01	2412	-11.79	-11.79	3.28	8	Pass
2	06	2437	-4.86	-4.86	3.28	8	Pass
2	11	2462	-10.18	-10.18	3.28	8	Pass
3	01	2412	-13.83	-13.83	3.28	8	Pass
3	06	2437	-4.42	-4.42	3.28	8	Pass
3	11	2462	-12.01	-12.01	3.28	8	Pass
4	03	2422	-15.21	-15.21	3.28	8	Pass
4	06	2437	-11.05	-11.05	3.28	8	Pass
4	09	2452	-11.77	-11.77	3.28	8	Pass

Mode 3 CH6(2437MHz)



The End