

# FCC Radio Test Report

Product Name:	WIFI CAMERA
Trademark:	
FCC ID:	2AFN7JD-T8610-Q1
Model Name :	JD-T8610-Q1, JD-T8610-Q2,JD-T8610-Q3,JD-T8610-Q4, JD-T8610-Q5,JD-T8710-Q6,JD-T8610-Q9,JD-T8610-Q10, JD-C8310-S1,JD-C8410-R1,JD-C8410-R2, JD-C8410-R3
Prepared For :	<b>Shenzhen Golden Vision Technology Developing Co.,LTD</b>
Address :	Room 202,2/F,Building G,NO.8,East of Shangxue Science and Technology Park,Xinxue Community,Bantian Street,Longgang District,Shenzhen,China
Prepared By :	<b>DongGuan Precise Testing Service Co., Ltd.</b>
Address :	Building D, Baoding Technology Park, Guangming Road 2, Guangming Community, Dongcheng District, Dongguan, Guangdong, China
Test Date:	<b>Aug. 10 - Aug. 17, 2015</b>
Date of Report :	<b>Aug. 17, 2015</b>
Report No.:	<b>PT1508128068F</b>

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## VERIFICATION OF COMPLIANCE

**Applicant's name** ..... Shenzhen Golden Vision Technology Developing Co.,LTD  
**Address** ..... Room 202,2/F,Building G,NO.8,East of Shangxue Science and Technology Park,Xinxue Community,Bantian Street,Longgang District,Shenzhen,China

**Manufacture's Name**..... Shenzhen Golden Vision Technology Developing Co.,LTD  
**Address** ..... Room 202,2/F,Building G,NO.8,East of Shangxue Science and Technology Park,Xinxue Community,Bantian Street,Longgang District,Shenzhen,China

### Product description

**Product name** ..... **WIFI CAMERA**

**Trademark:**



**Model Name:**

JD-T8610-Q1, JD-T8610-Q2,JD-T8610-Q3,JD-T8610-Q4,  
JD-T8610-Q5,JD-T8710-Q6,JD-T8610-Q9,JD-T8610-Q10,  
JD-C8310-S1,JD-C8410-R1,JD-C8410-R2, JD-C8410-R3

**Test procedure**

FCC Part15.247, 558074 D01 DTS Meas Guidance v03r03

**Standards**

ANSI C63.10:2013

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

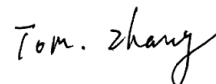
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Testing Engineer :



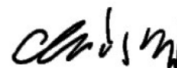
(Juan Zeng)

Technical Manager :



(Tom Zhang)

Authorized Signatory :



(Chris Du)

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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

**NOTE:**

(1) "N/A" denotes test is not applicable in this Test Report

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## 1.1 TEST FACILITY

**FCC Registration No.: 371540, IC Registration No.: 12191A-1**

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## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated (<1G)	$\pm 4.68\text{dB}$
5	All emissions, radiated (>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

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## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	WIFI CAMERA	
Trade Name		
Model Name	JD-T8610-Q1	
Serial Model	JD-T8610-Q2,JD-T8610-Q3,JD-T8610-Q4,JD-T8610-Q5, JD-T8710-Q6,JD-T8610-Q9,JD-T8610-Q10,JD-C8310-S1, JD-C8410-R1,JD-C8410-R2, JD-C8410-R3	
Model Difference	All the model are the same circuit and RF module, except model names.	
Product Description	The EUT is a WIFI CAMERA	
	Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHzMHz): 65/52/6.5Mbps
	Number Of Channel	802.11b/g/n20MHz:11CH
	Antenna Designation:	Please see Note 3.
	Output Power(Conducted,PK) :	802.11b: 17.31dBm (Max.) 802.11g: 13.79 dBm (Max.) 802.11n(20M) : 13.77dBm (Max.)
	Antenna Gain (dBi)	0.9dbi
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Channel List	Please refer to the Note 2.	
Adapter	Model:MX510-0501000C AC Power Input: AC100-240V, 50/60Hz, 0.2A Output: 5.0V---, 1000mA	
Hardware Version	HwGM_PTZ_V3.6	
Software Version	AppGM35s_PTZ_1.1.2.1	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

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1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List for 802.11b/g/n(20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	Integrated antenna	N/A	0.9	Wifi Antenna



## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	Link Mode

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) AC 120V and AC 240V was Pretest, the worst voltage was AC 120V and the data recording in the report.

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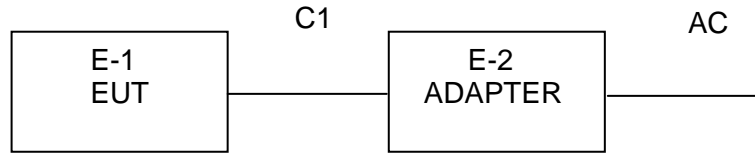
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### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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## 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	WIFI CAMERA	 金鼎盛视 Golden Vision	JD-T8610-Q1	N/A	EUT
E-2	Adapter	N/A	MX510-0501000C	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.9M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

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## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016

### FOR RADIATED EMISSION TEST (1GHZ ABOVE)

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2015	July 10, 2016
Spectrum Analyzer	Agilent	E4411B	MY4511453	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 7, 2015	July 6, 2016
RF Cable	SCHWARZBECK	AK9515H	96220	July 8, 2015	July 7, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A

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Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2015	June 5, 2016
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- Note:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA  
 2. N/A = No Calibration Request.

FOR CONDUCTED EMISSION TEST:

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2015	July 7, 2016
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2015	July 7, 2016
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2015	July 3, 2016
Shielded Room	CHENGYU	843	PTS-002	June 6, 2015	June 5, 2016

- Note:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA

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### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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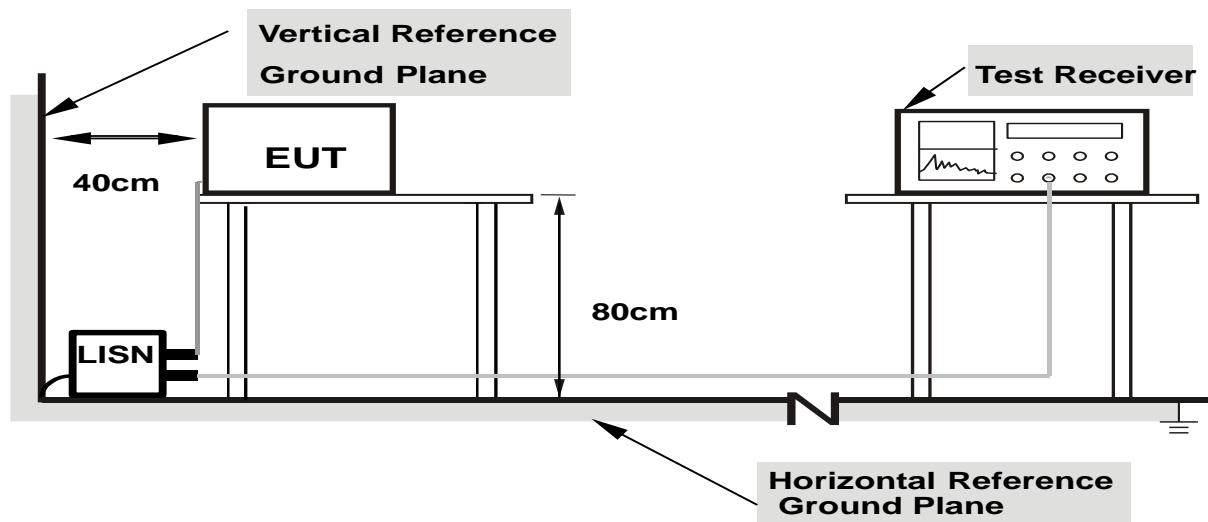
### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.4 TEST SETUP



- Note: 1.Support units were connected to second LISN.**  
**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

### 3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

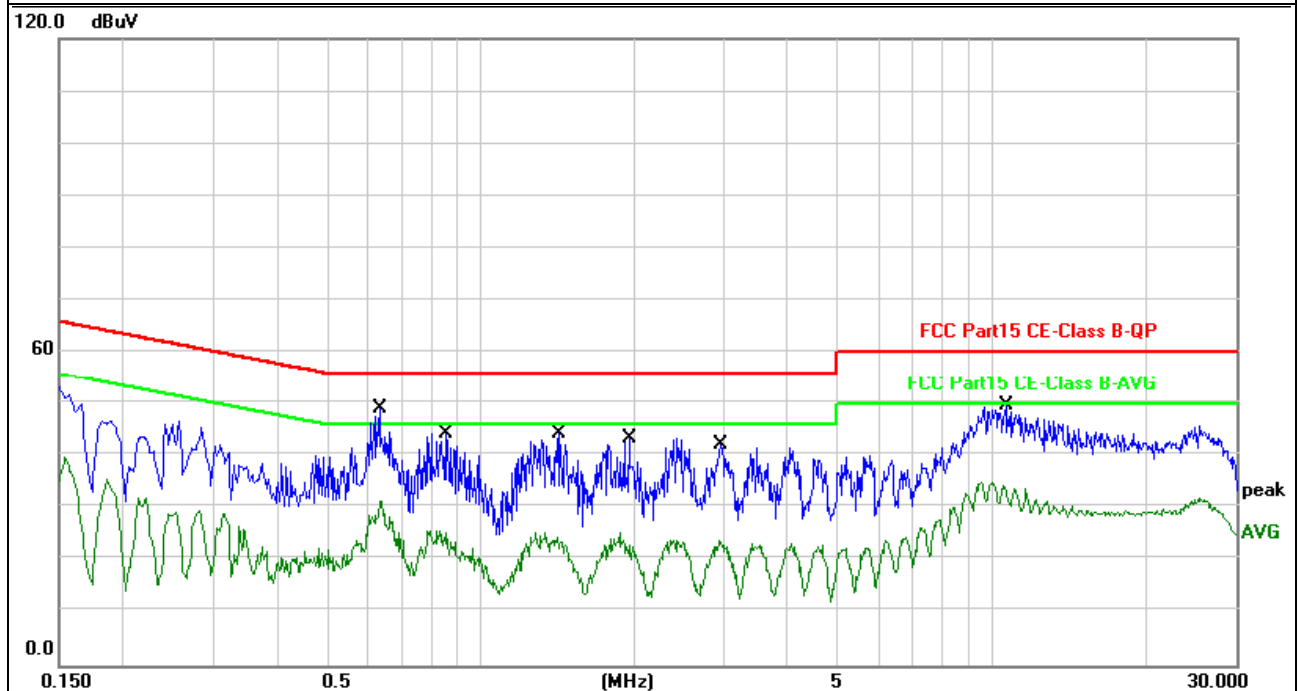
### 3.1.6 TEST RESULTS

EUT :	WIFI CAMERA	Model Name. :	JD-T8610-Q1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC120V/60Hz	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.634	38.91	10.13	49.04	56	-6.96	QP
0.634	21.32	10.13	31.45	46	-14.55	AVG
0.854	34.19	10.15	44.34	56	-11.66	QP
0.854	15.29	10.15	25.44	46	-20.56	AVG
1.414	34.07	10.17	44.24	56	-11.76	QP
1.414	14.31	10.17	24.48	46	-21.52	AVG
1.954	33.29	10.18	43.47	56	-12.53	QP
1.954	12.67	10.18	22.85	46	-23.15	AVG
2.946	13.67	10.19	23.86	46	-22.14	AVG
2.9539	31.82	10.19	42.01	56	-13.99	QP
10.626	39.5	10.13	49.63	60	-10.37	QP

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



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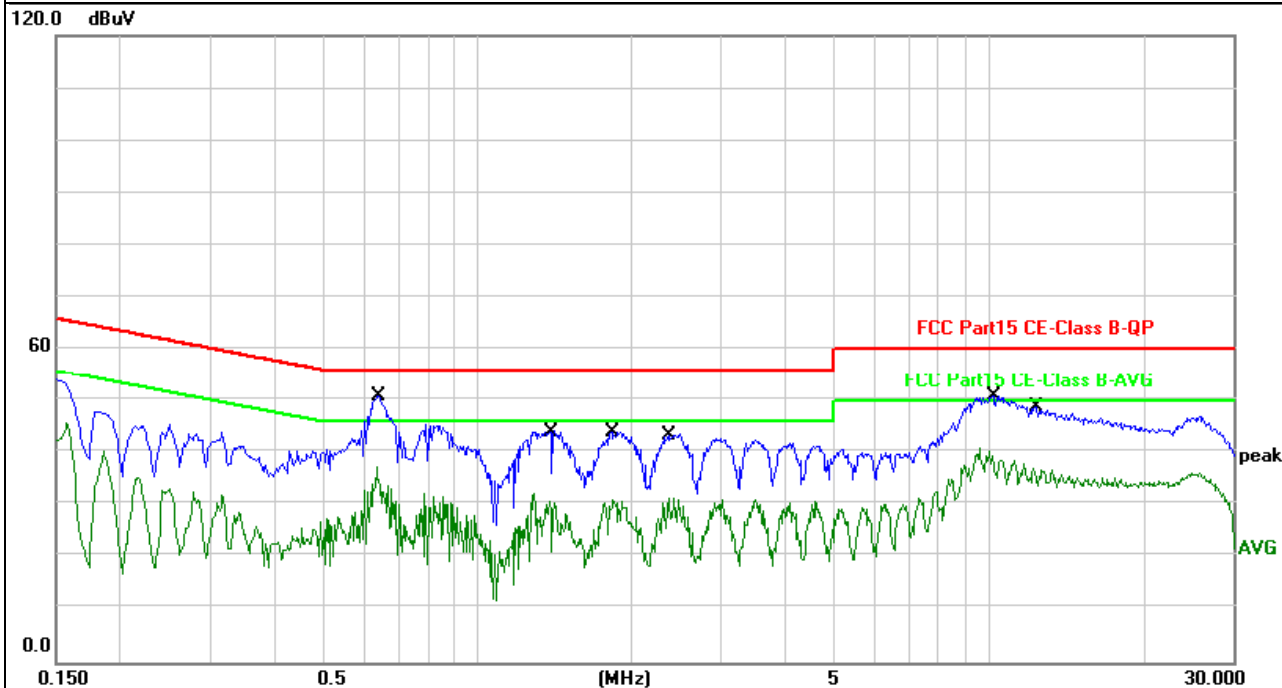


EUT :	WIFI CAMERA	Model Name. :	JD-T8610-Q1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC120V/60Hz	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.634	40.77	10.13	50.9	56	-5.1	QP
0.634	27.31	10.13	37.44	46	-8.56	AVG
1.386	34.13	10.17	44.3	56	-11.7	QP
1.386	20.69	10.17	30.86	46	-15.14	AVG
1.842	33.83	10.18	44.01	56	-11.99	QP
1.842	21.01	10.18	31.19	46	-14.81	AVG
2.366	33.44	10.18	43.62	56	-12.38	QP
2.366	21.26	10.18	31.44	46	-14.56	AVG
10.162	40.7	10.12	50.82	60	-9.18	QP
10.162	29.22	10.12	39.34	50	-10.66	AVG
12.226	38.04	10.13	48.17	60	-11.83	QP
12.226	26.84	10.13	36.97	50	-13.03	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



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### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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### 3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was place on the top of a roatating table 1.5 meters for above 1GHz
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

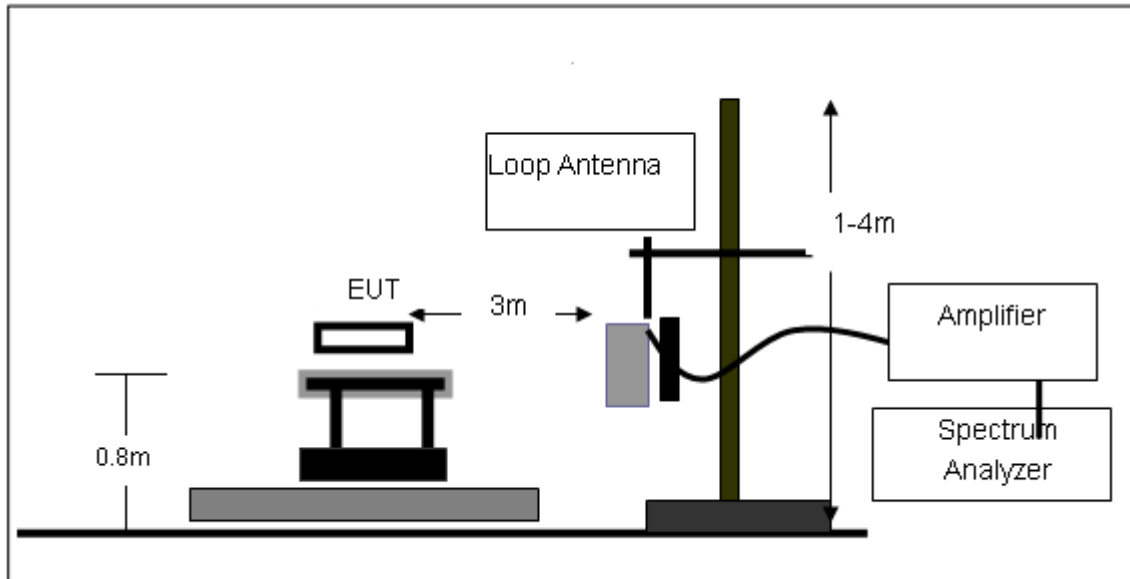
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

### 3.2.3 DEVIATION FROM TEST STANDARD

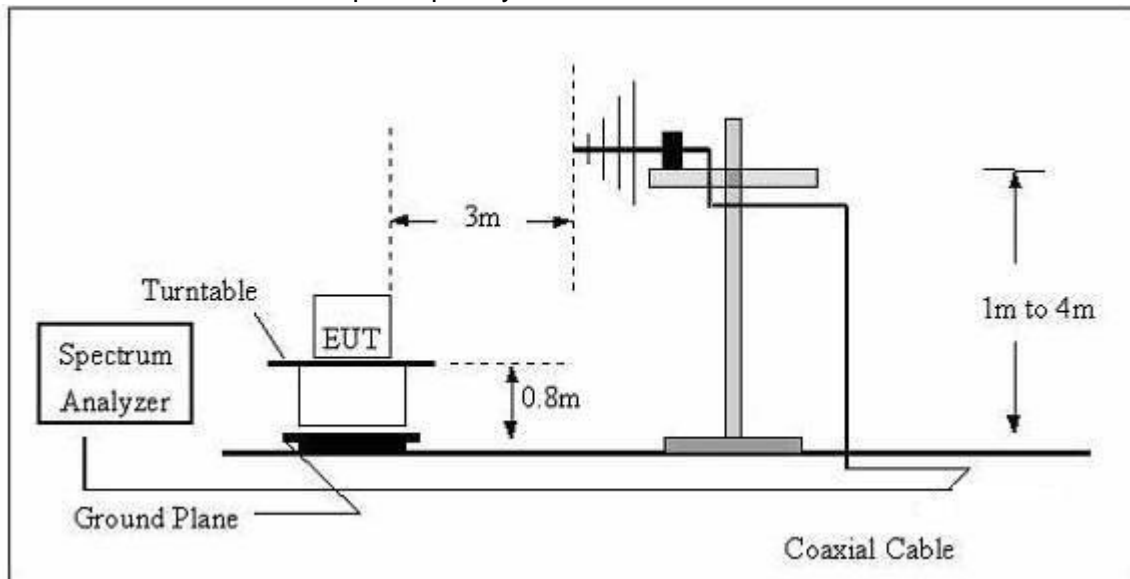
No deviation

### 3.2.4 TEST SETUP

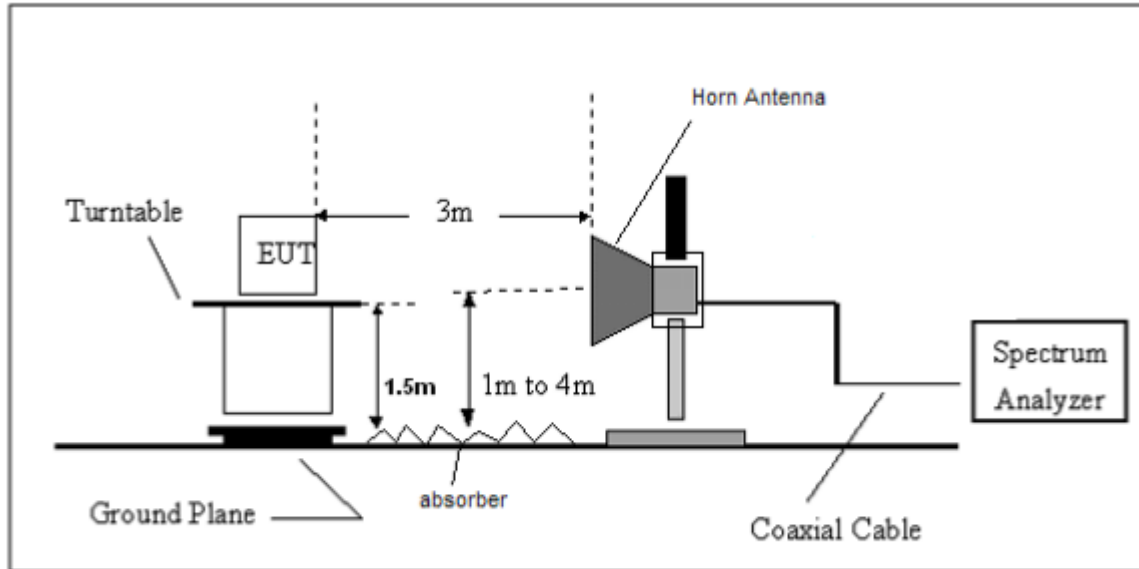
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



**3.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	WIFI CAMERA	Model Name. :	JD-T8610-Q1
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V AC120V/60Hz
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

**NOTE:**

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log(\text{specific distance}/\text{test distance})(\text{dB})$ ;

Limit line = specific limits(dBuv) + distance extrapolation factor.

### 3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	20 °C	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	194.4534	43.74	-15.86	27.88	43.5	-15.62	QP
V	232.5318	44.82	-14.91	29.91	46	-16.09	QP
V	325.5958	48.94	-11.92	37.02	46	-8.98	QP
V	365.5391	40.44	-11.07	29.37	46	-16.63	QP
V	399.0302	38.94	-10.2	28.74	46	-17.26	QP
V	972.3374	29.04	-0.39	28.65	54	-25.35	QP
H	43.9658	32.2	-9.35	22.85	40	-17.15	QP
H	167.2368	35.63	-13.29	22.34	43.5	-21.16	QP
H	324.4561	37.69	-11.95	25.74	46	-20.26	QP
H	400.4319	37.53	-10.17	27.36	46	-18.64	QP
H	454.31	37.53	-8.95	28.58	46	-17.42	QP
H	694.4174	31.59	-4.48	27.11	46	-18.89	QP

**Remark:**  
 Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

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### 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

#### 802.11b

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2412</b>							
V	4824.642	67.44	-3.60	63.84	74.00	-10.16	Pk
V	4824.642	46.28	-3.60	42.68	54.00	-11.32	AV
H	4825.246	66.95	-3.58	63.37	74.00	-10.63	Pk
H	4825.246	43.26	-3.58	39.68	54.00	-14.32	AV
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							

#### 802.11b

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2437</b>							
V	4874.549	65.19	-3.64	61.55	74.00	-12.45	Pk
V	4874.549	42.57	-3.64	38.93	54.00	-15.07	AV
H	4875.184	64.28	-3.64	60.64	74.00	-13.36	Pk
H	4875.184	41.17	-3.64	37.53	54.00	-16.47	AV
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							

#### 802.11b

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2462</b>							
V	4925.016	56.39	-3.64	52.75	74.00	-21.25	pk
H	4923.864	55.48	-3.66	51.82	74.00	-22.18	pk
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							



**802.11g**

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2412</b>							
V	4823.618	62.57	-3.6	58.97	74.00	-15.03	Pk
V	4823.618	40.61	-3.6	37.01	54.00	-16.99	AV
H	4824.197	63.22	-3.6	59.62	74.00	-14.38	Pk
H	4824.197	42.08	-3.6	38.48	54.00	-15.52	AV
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							

**802.11g**

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2437</b>							
V	4873.291	63.17	-3.63	59.54	74.00	-14.46	Pk
V	4873.291	41.24	-3.63	37.61	54.00	-16.39	AV
H	4874.609	60.48	-3.64	56.84	74.00	-17.16	Pk
H	4874.609	40.83	-3.64	37.19	54.00	-16.81	AV
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							

**802.11g**

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2462</b>							
V	4924.527	55.21	-3.60	51.61	74.00	-22.39	pk
H	4923.256	56.09	-3.66	52.43	74.00	-21.57	pk
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							

**802.11n(20MHz)**

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2412</b>							
V	4825.307	62.18	-3.58	58.6	74.00	-15.40	Pk
V	4825.307	41.97	-3.58	38.39	54.00	-15.61	AV
H	4824.592	61.27	-3.60	57.67	74.00	-16.33	Pk
H	4824.592	39.58	-3.60	35.98	54.00	-18.02	AV
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							

**802.11n(20MHz)**

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2437</b>							
V	4875.627	63.17	-3.63	59.54	74.00	-14.46	Pk
V	4875.627	41.24	-3.63	37.61	54.00	-16.39	AV
H	4873.834	60.48	-3.64	56.84	74.00	-17.16	Pk
H	4873.834	40.83	-3.64	37.19	54.00	-16.81	AV
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							

**802.11n(20MHz)**

Normal Voltage

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
<b>operation frequency:2462</b>							
V	4922.907	59.67	-3.64	56.03	74.00	-17.97	pk
V	4922.907	37.19	-3.64	33.55	54.00	-20.45	AV
H	4925.648	55.94	-3.66	52.28	74.00	-21.72	pk
<b>Remark:</b>							
Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level							

## 4. POWER SPECTRAL DENSITY TEST

### 4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

#### 4.1.1 TEST PROCEDURE

558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method  
power spectral density measurement procedure

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq 3 \times \text{RBW}$ .
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 4.1.2 DEVIATION FROM STANDARD

No deviation.

#### 4.1.3 TEST SETUP



#### 4.1.4 EUT OPERATION CONDITIONS

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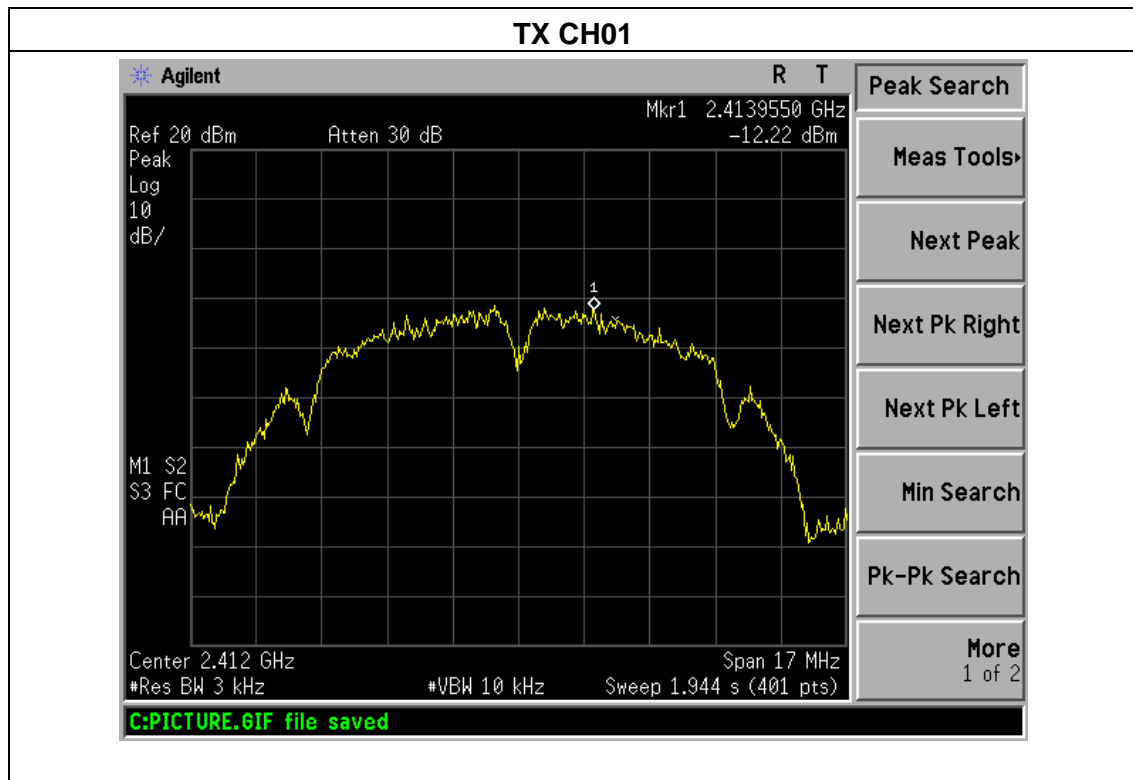
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The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

### 4.1.5 TEST RESULTS

EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.22	8	PASS
2437 MHz	-12.20	8	PASS
2462 MHz	-11.62	8	PASS



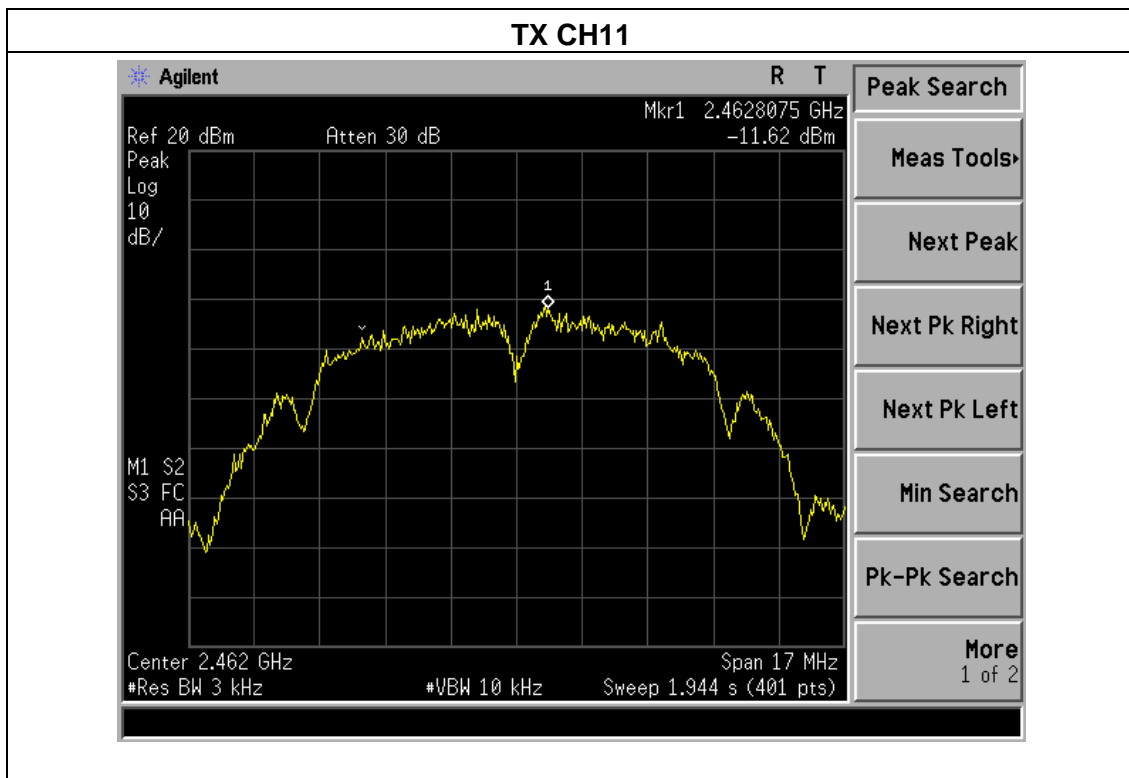
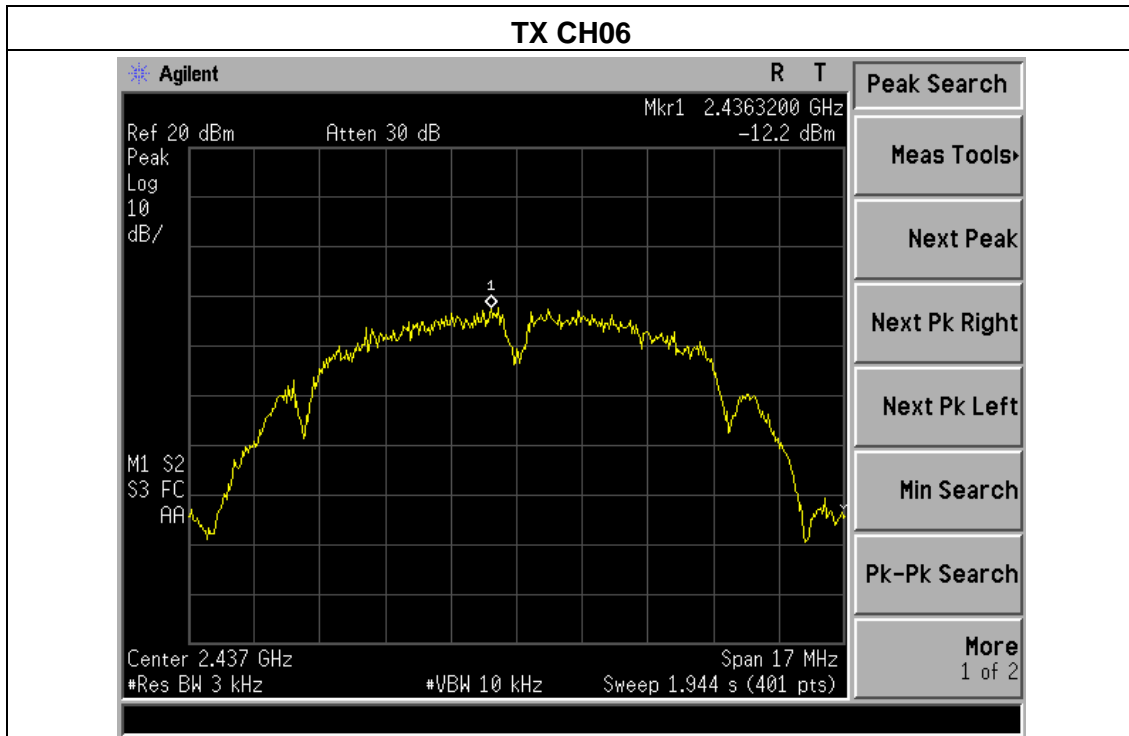
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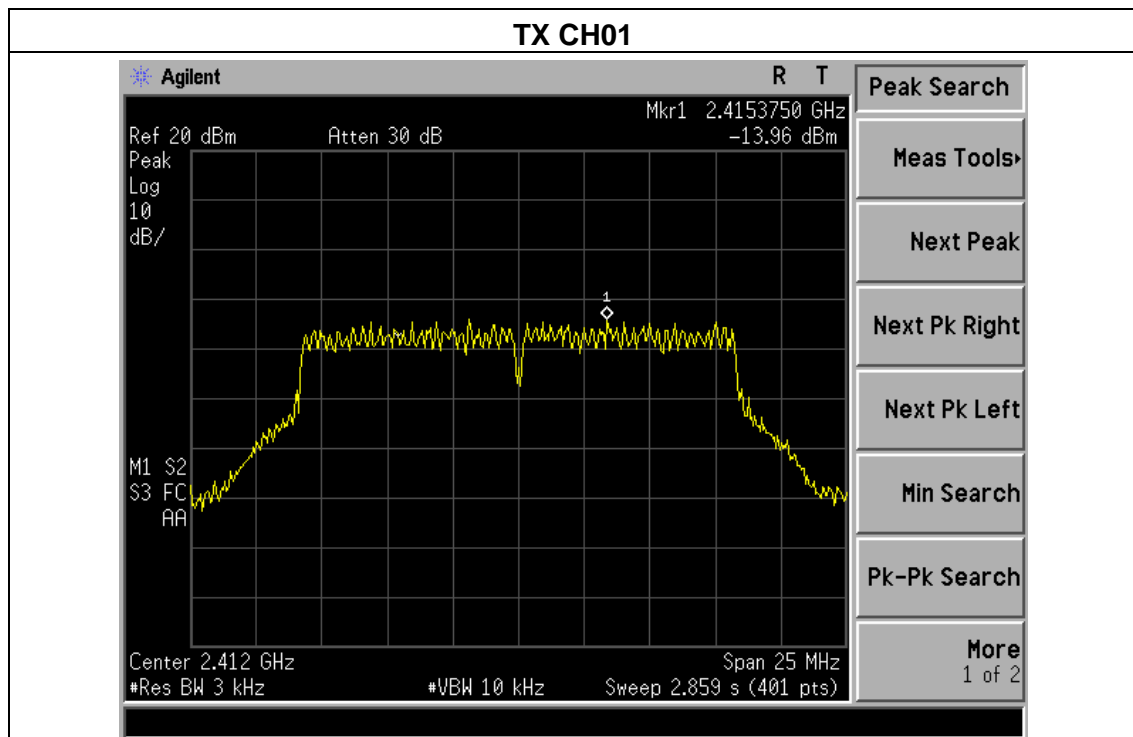
Tel: 86-769-23368601

Fax: 86-769-23368602

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EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-13.96	8	PASS
2437 MHz	-13.68	8	PASS
2462 MHz	-14.46	8	PASS



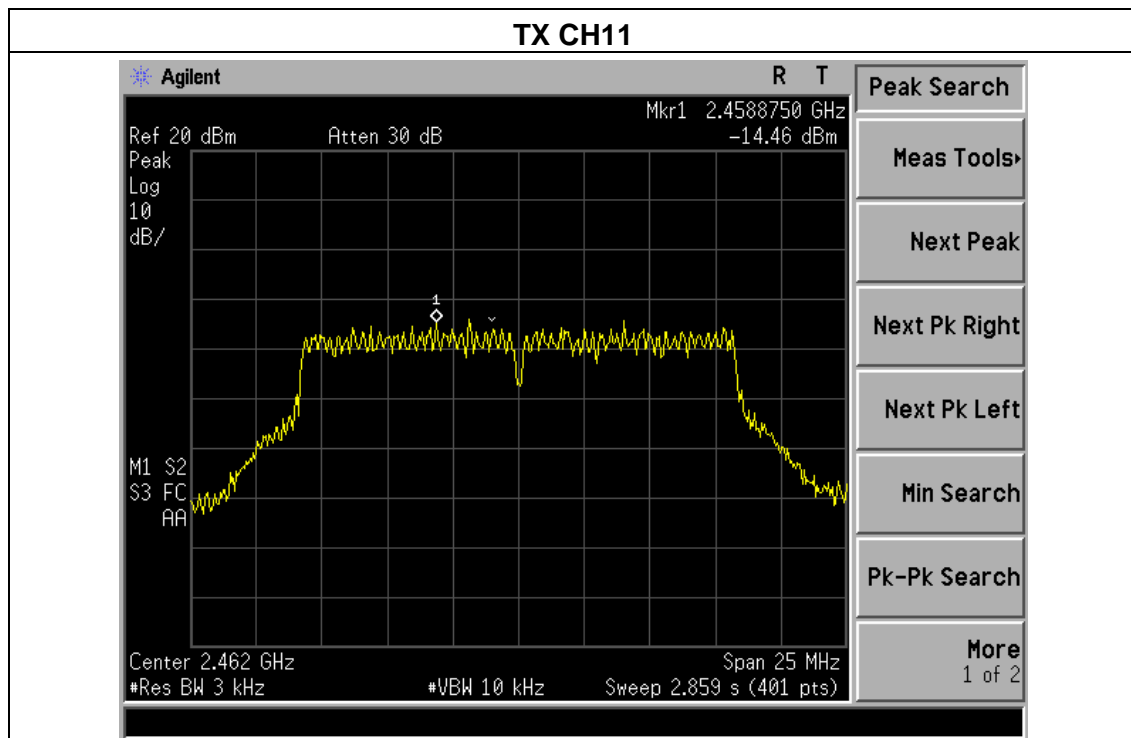
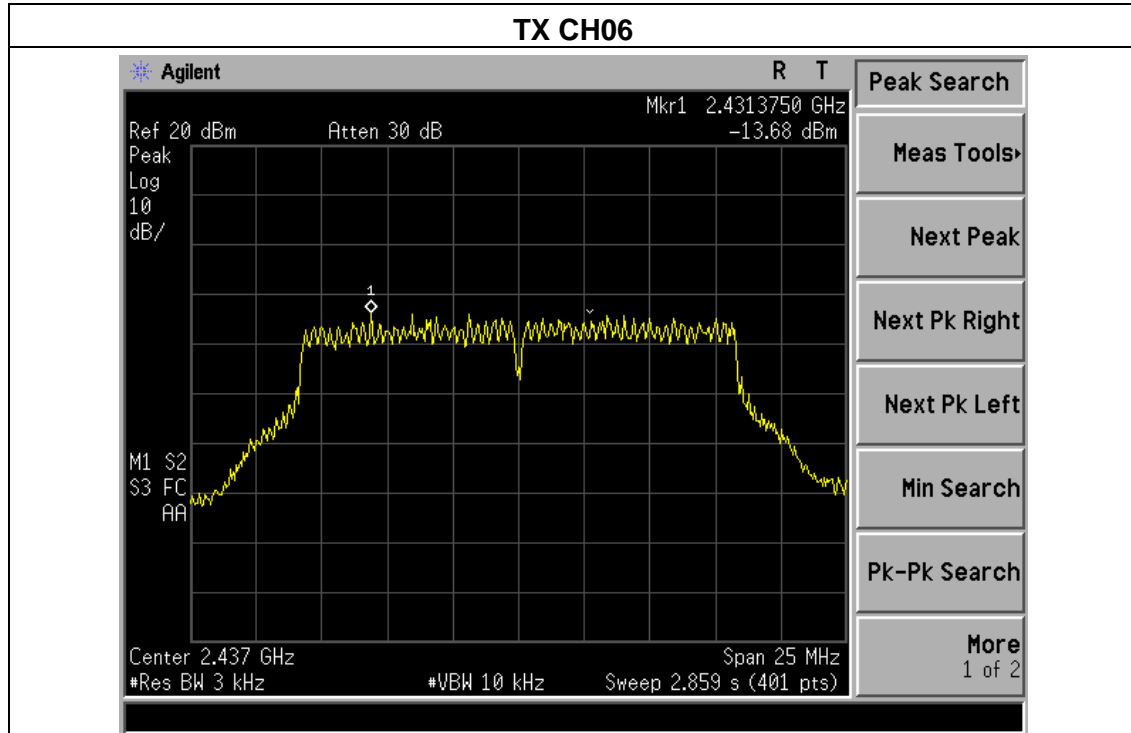
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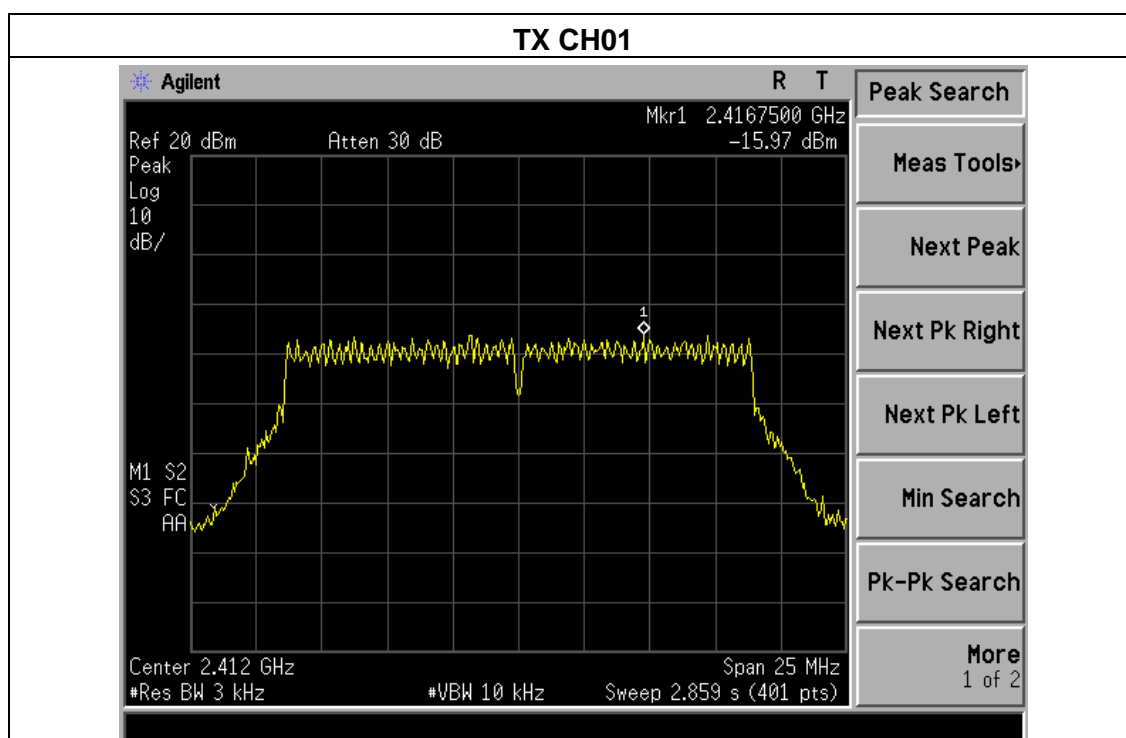
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EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-15.97	8	PASS
2437 MHz	-15.46	8	PASS
2462 MHz	-15.54	8	PASS



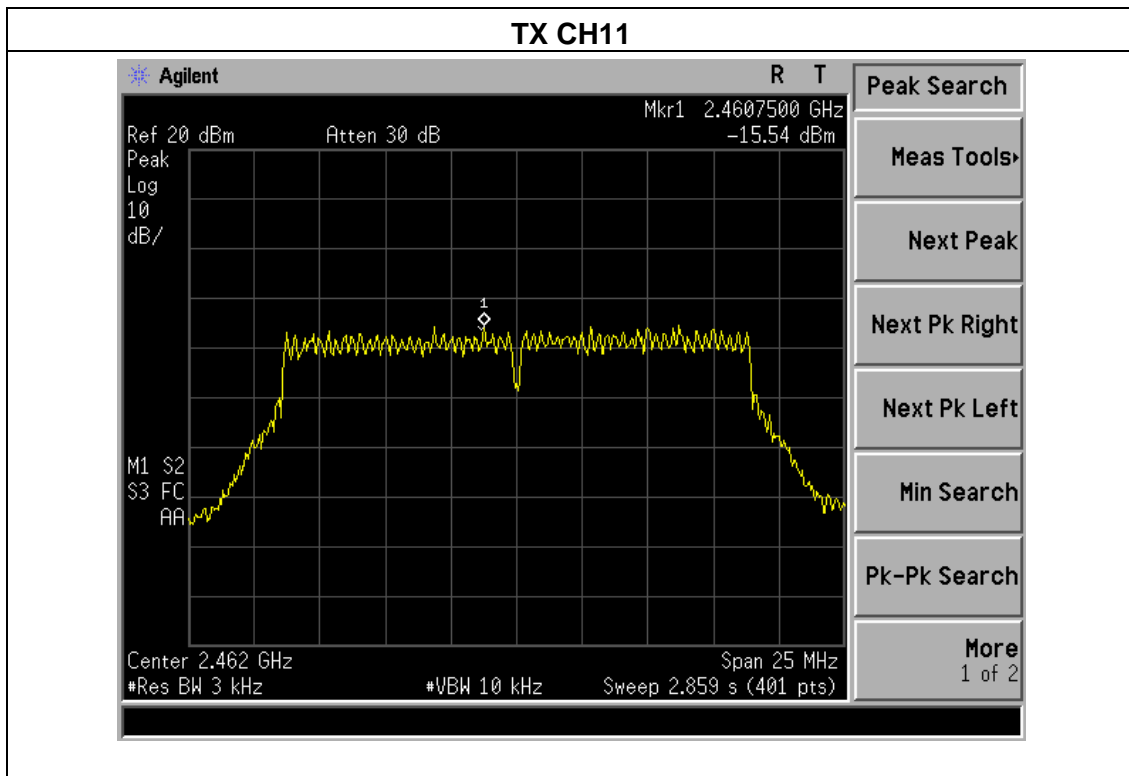
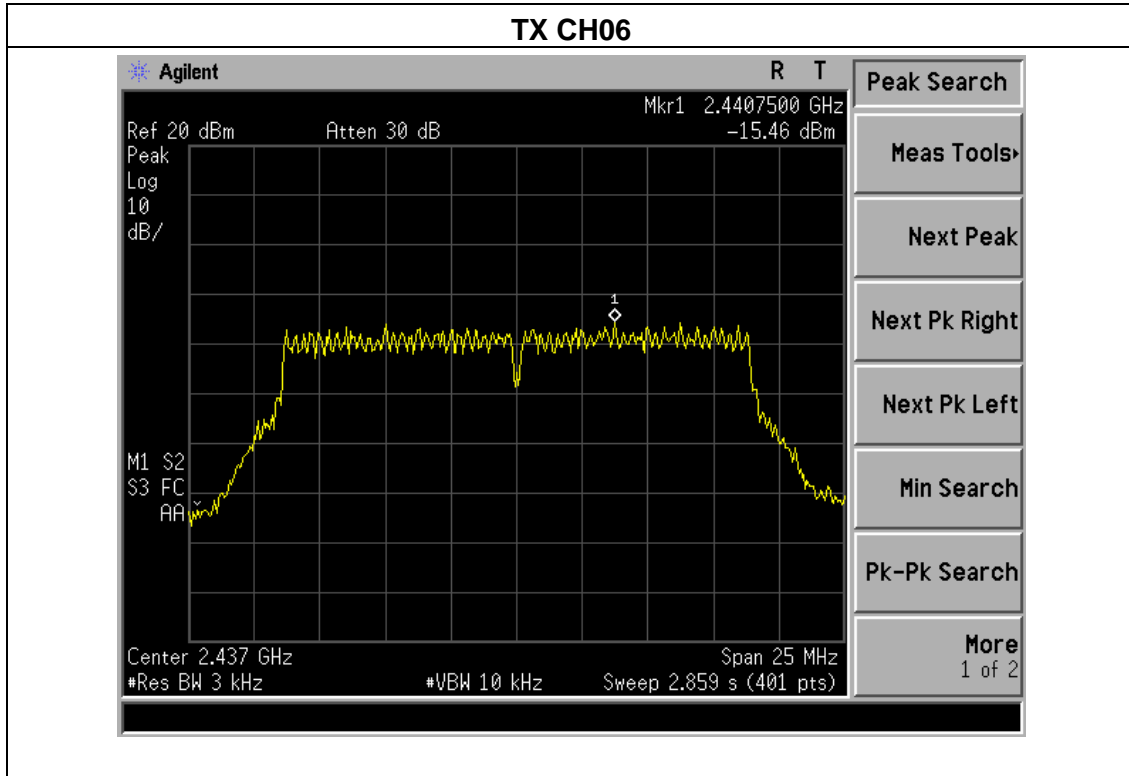
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## 5. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

#### 5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq 3$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



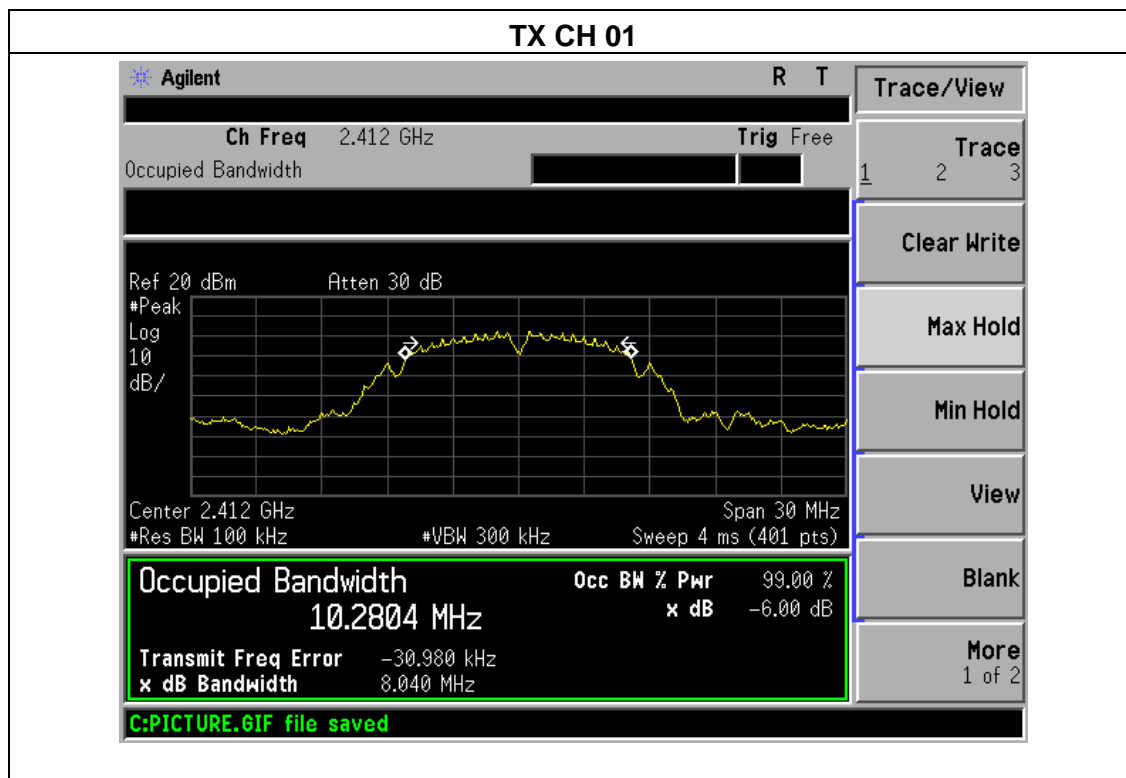
#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 5.1.5 TEST RESULTS

EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	8.04	500	Pass
Middle	2437	8.12	500	Pass
High	2462	8.08	500	Pass



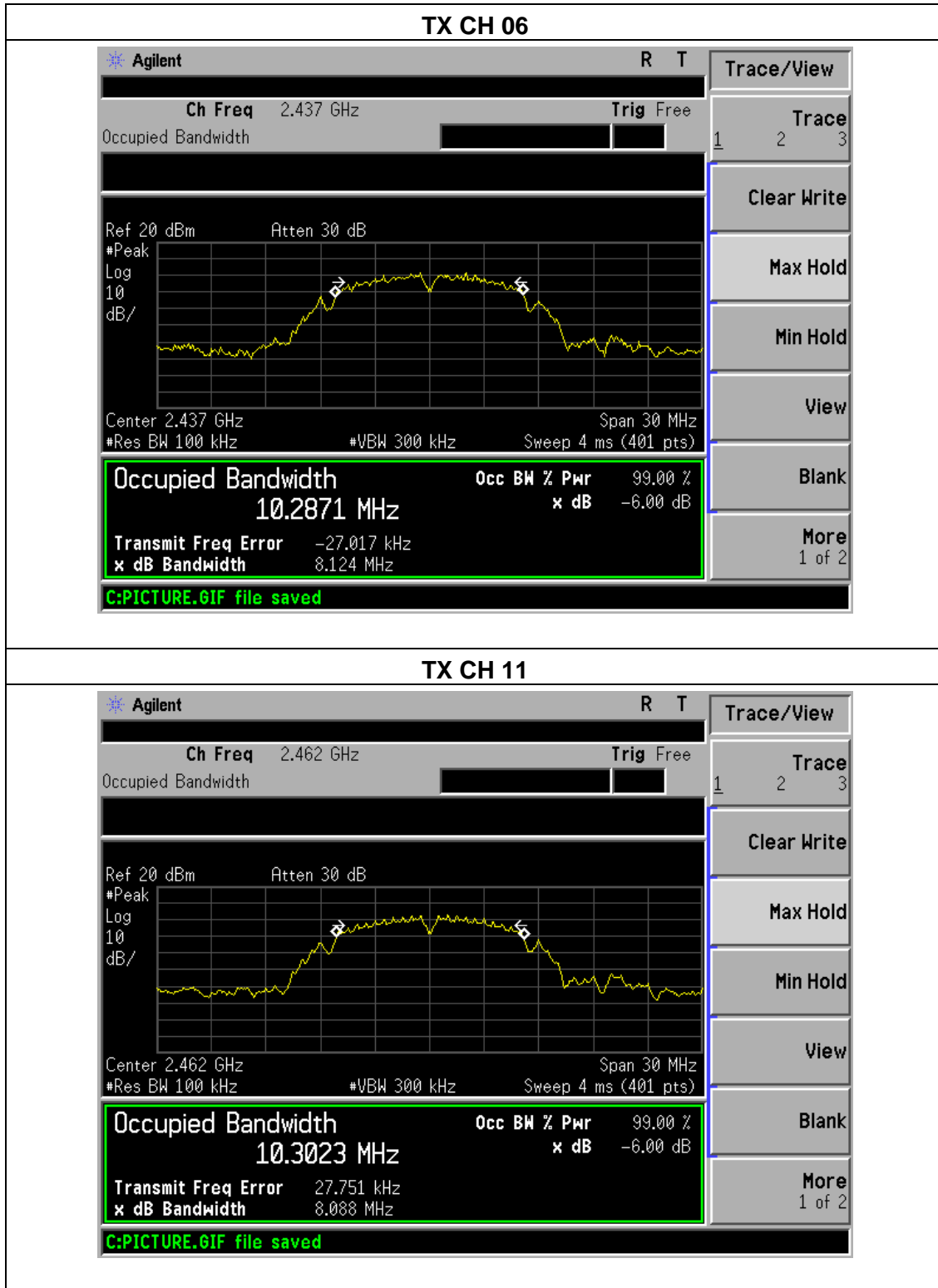
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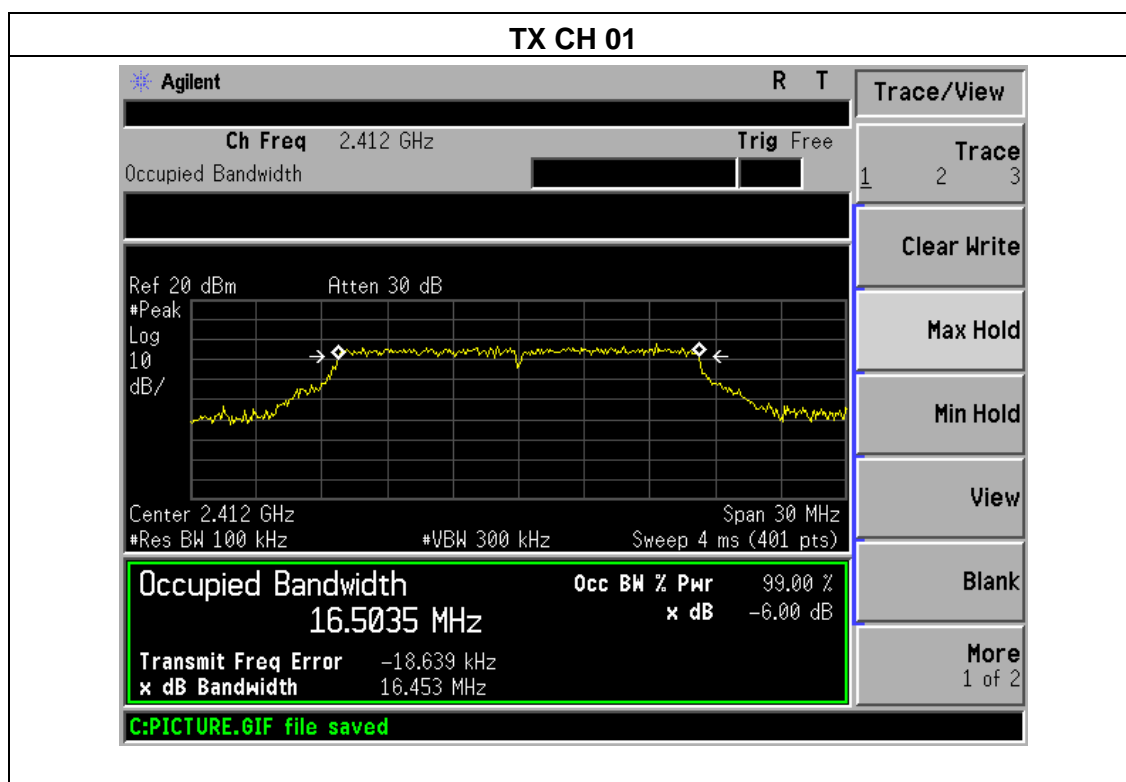
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Fax: 86-769-23368602

[http:// www.pts-testing.com](http://www.pts-testing.com)

EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.45	500	Pass
Middle	2437	16.54	500	Pass
High	2462	16.42	500	Pass



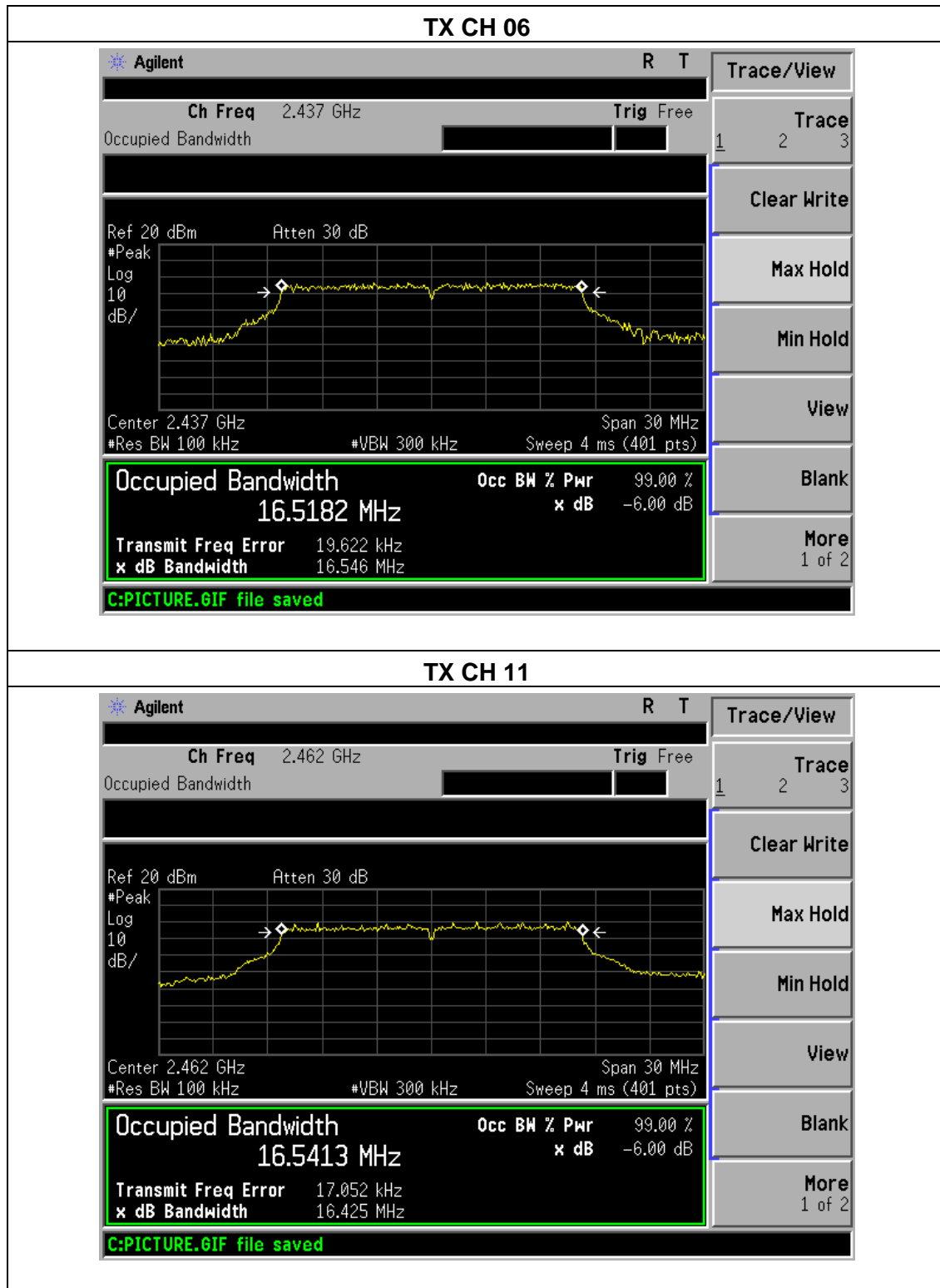
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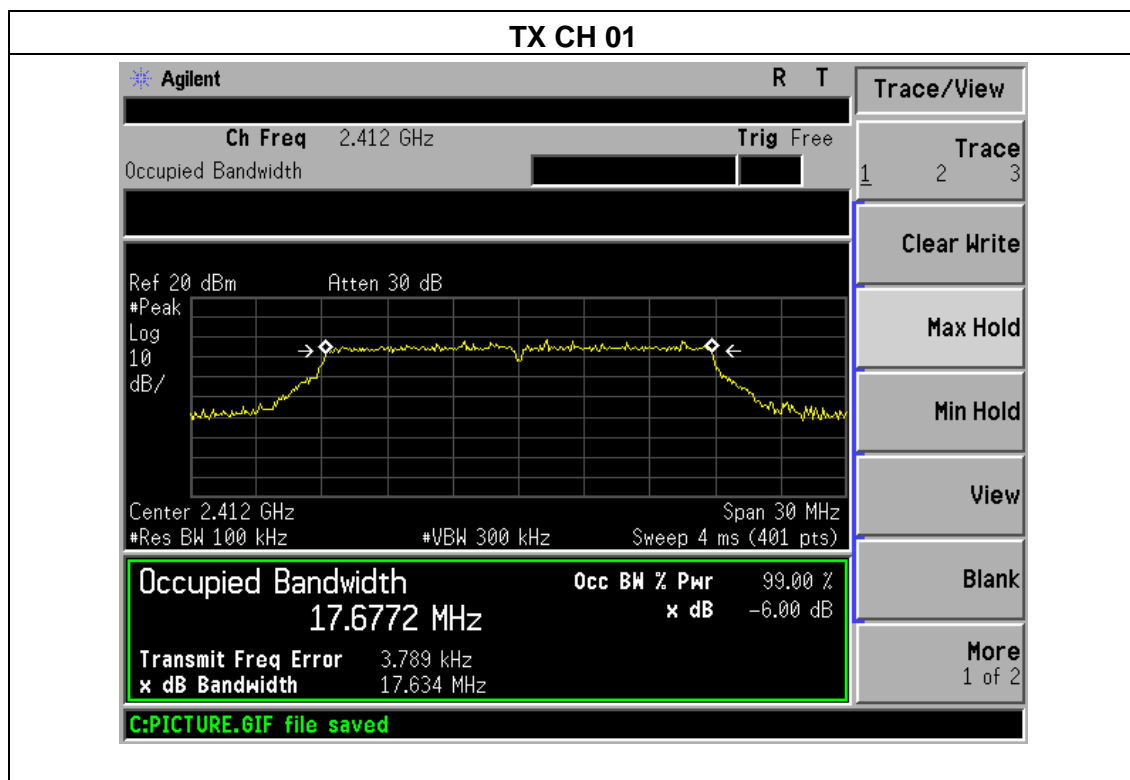
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Fax: 86-769-23368602

[http:// www.pts-testing.com](http://www.pts-testing.com)

EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.63	500	Pass
Middle	2437	17.64	500	Pass
High	2462	17.66	500	Pass



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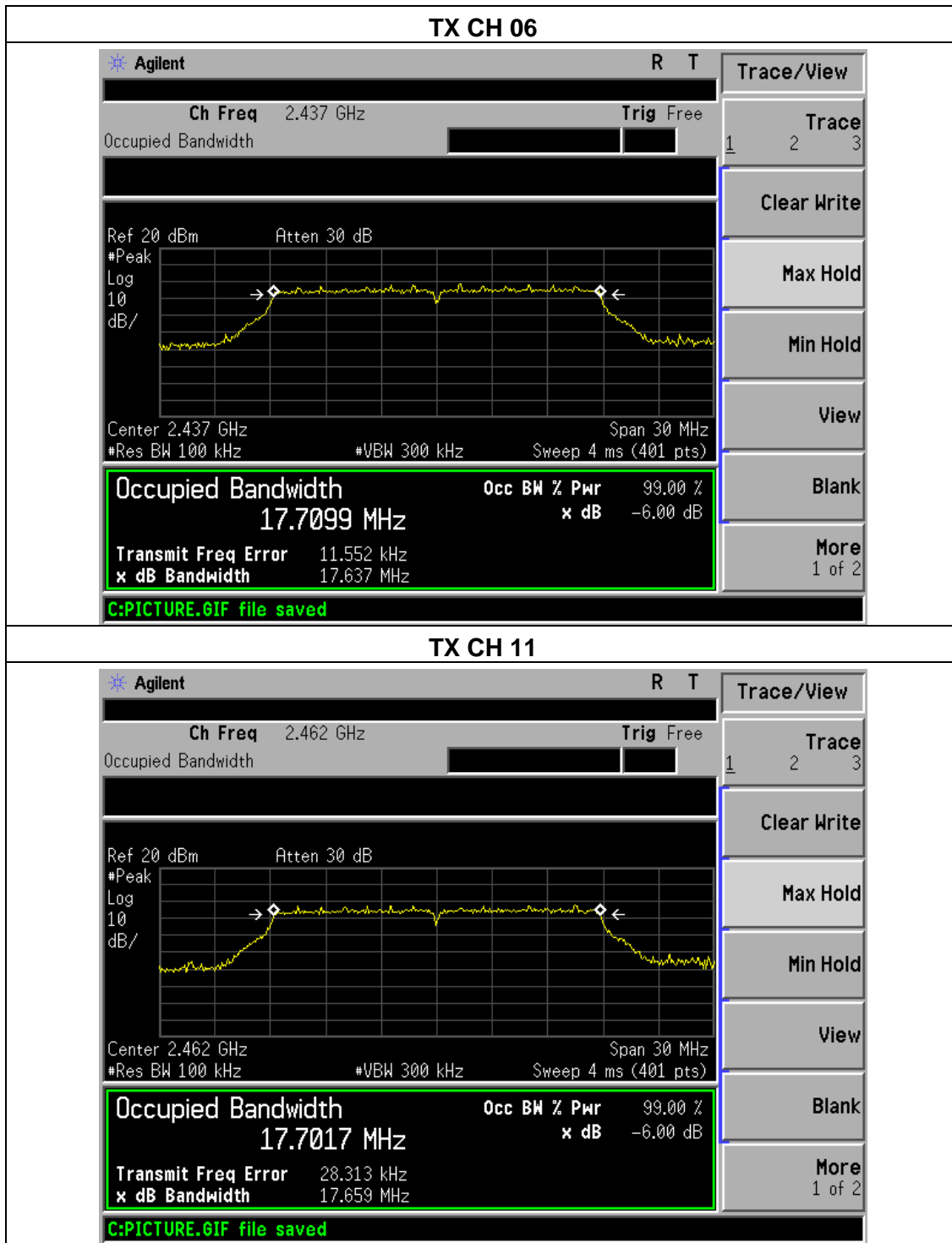
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## 6. PEAK OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

#### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 6.1.5 TEST RESULTS

EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX b/g/n(20M)		

<b>TX 802.11b Mode</b>			
Test Channel	Frequency	Maximum Conducted Output Power(PK)	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	17.09	30
CH06	2437	17.11	30
CH11	2462	17.31	30
<b>TX 802.11g Mode</b>			
CH01	2412	13.79	30
CH06	2437	13.65	30
CH11	2462	13.70	30
<b>TX 802.11n-HT20 Mode</b>			
CH01	2412	13.77	30
CH06	2437	13.72	30
CH11	2462	13.64	30

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## 7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

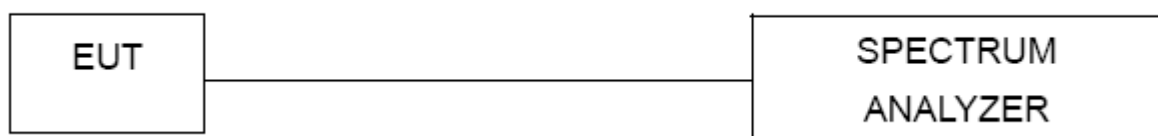
### TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

### 7.1 DEVIATION FROM STANDARD

No deviation.

### 7.2 TEST SETUP



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### 7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 7.4 TEST RESULTS

EUT :	WIFI CAMERA	Model Name :	JD-T8610-Q1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V

Frequency Band	Delta Peak to band emission (dBc)	> Limit (dBc)	Result
802.11b mode			
Left-band	42.80	20	Pass
Right-band	48.58	20	Pass
802.11g mode			
Left-band	31.72	20	Pass
Right-band	32.06	20	Pass
802.11n-HT20 mode			
Left-band	30.41	20	Pass
Right-band	34.97	20	Pass

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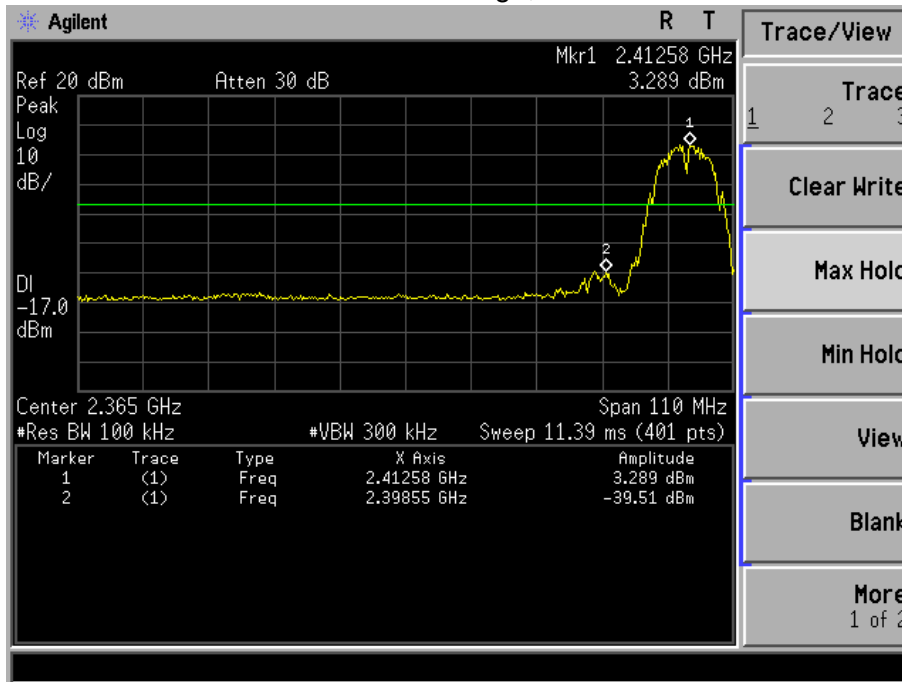
Building D, Baoding Technology Park, Guangming Road 2, Guangming Community, Dongcheng District, Dongguan, Guangdong, China

Tel: 86-769-23368601

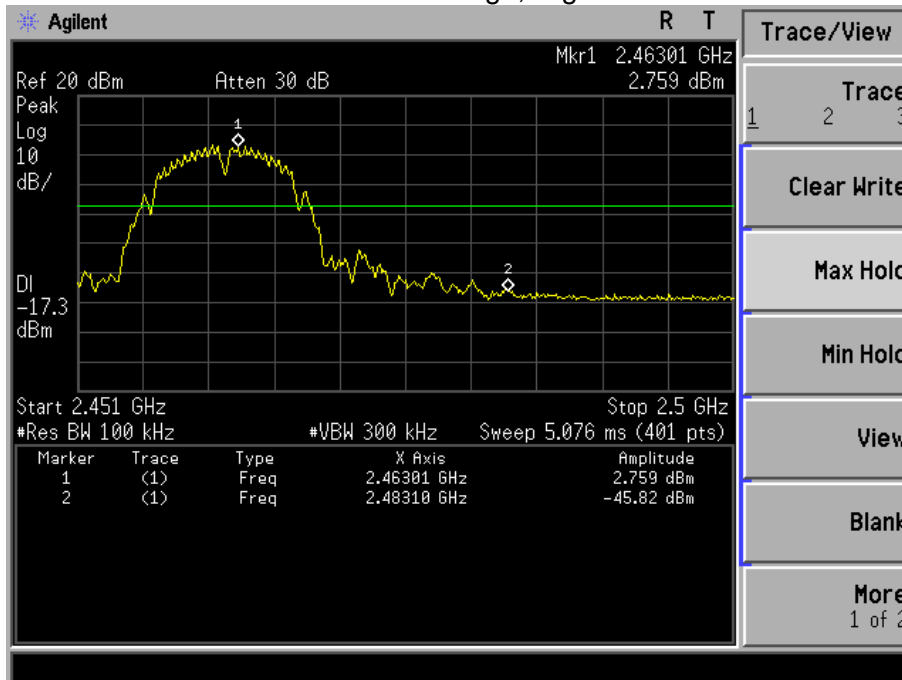
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802.11b: Band Edge, Left Side



802.11b: Band Edge, Right Side



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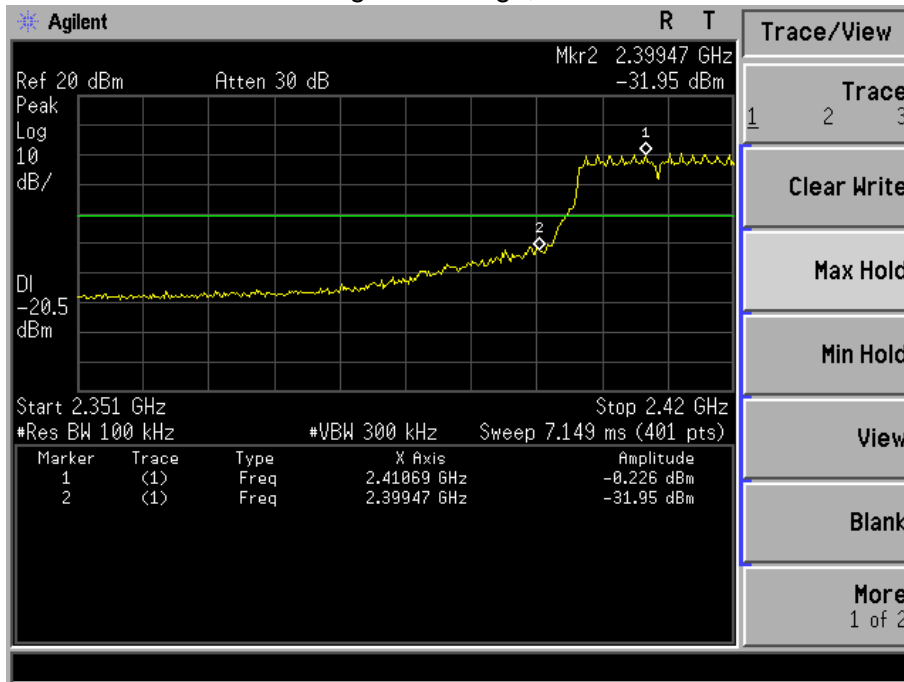
Building D, Baoding Technology Park, Guangming Road 2, Guangming Community, Dongcheng District, Dongguan, Guangdong, China

Tel: 86-769-23368601

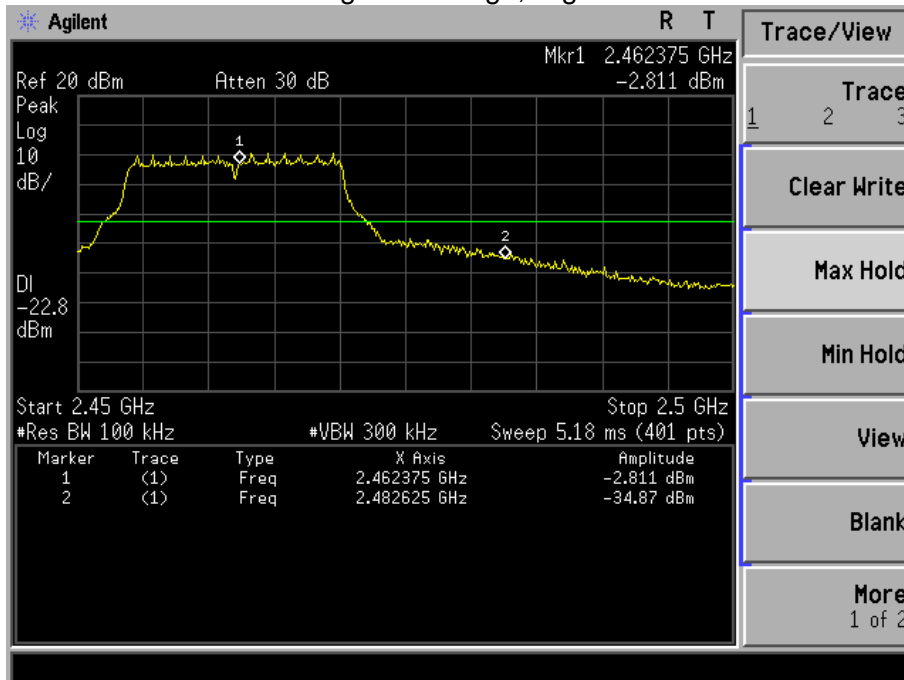
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802.11g: Band Edge, Left Side



802.11g: Band Edge, Right Side



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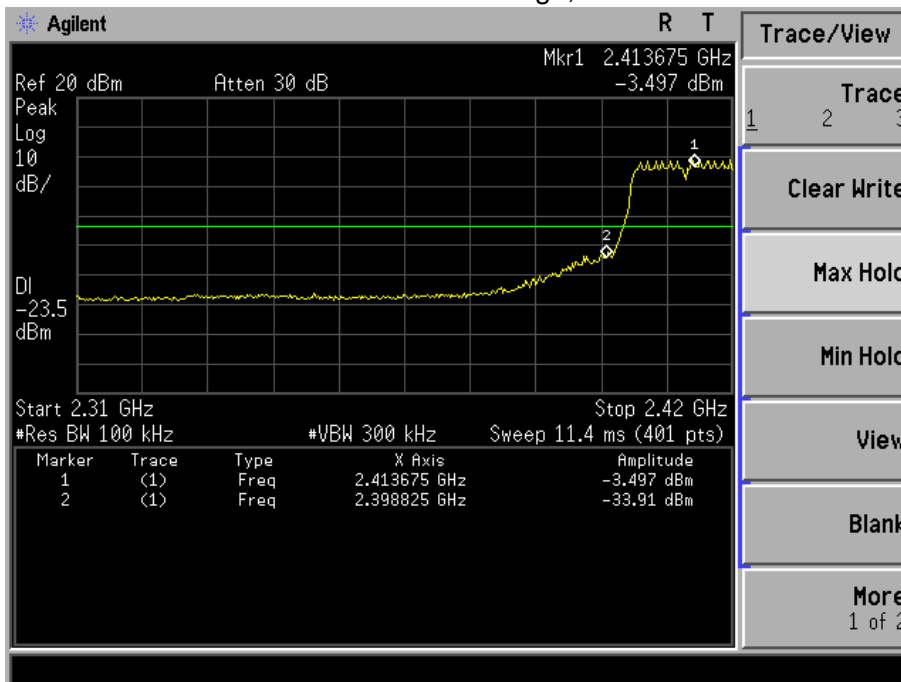
Tel: 86-769-23368601

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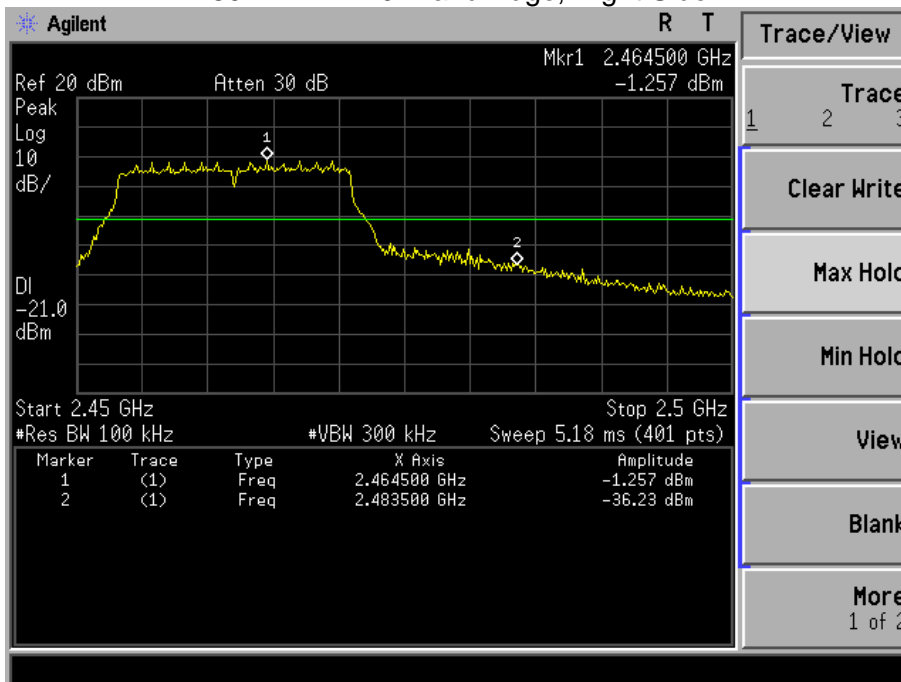
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802.11n-HT20: Band Edge, Left Side



802.11n-HT20: Band Edge, Right Side



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## 8. ANTENNA REQUIREMENT

### 8.1 STANDARD REQUIREMENT

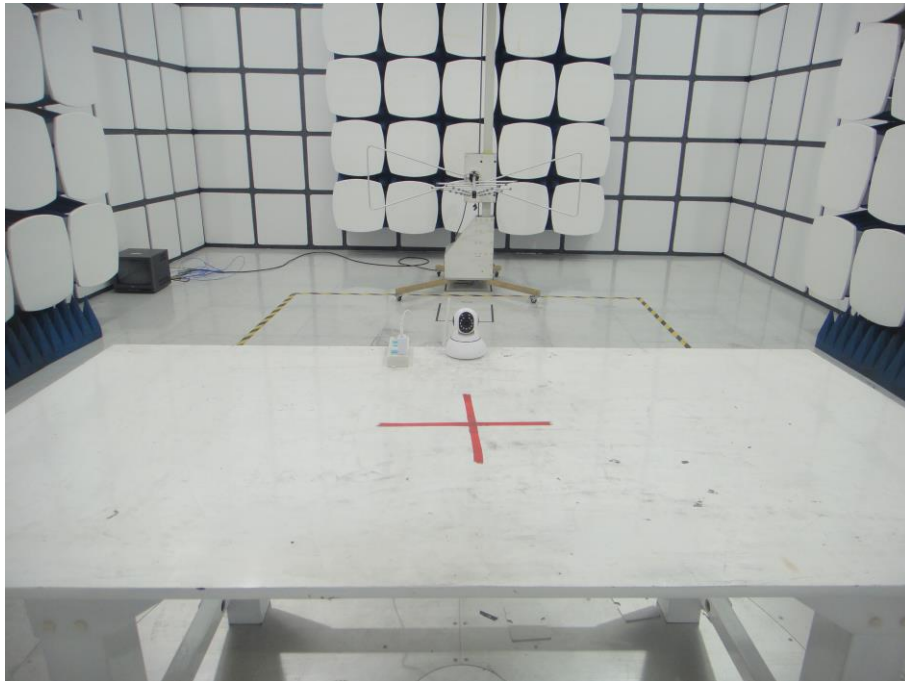
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 8.2 EUT ANTENNA

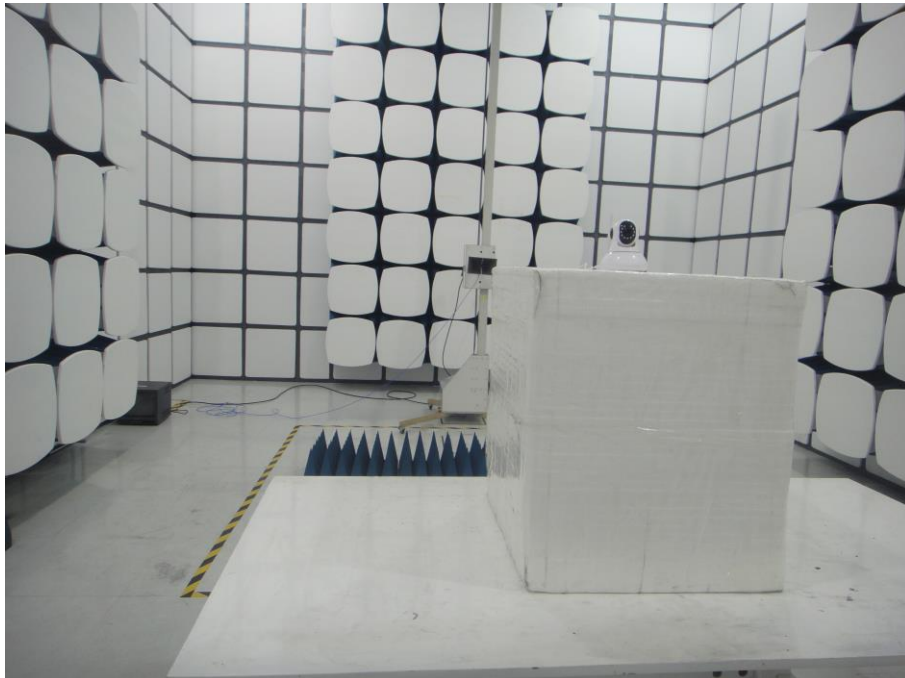
The EUT antenna is Integrated antenna.It's permanent attached antenna. It comply with the standard requirement.

## 9. EUT TEST PHOTO

**Radiated Measurement Photos**



**Radiated Measurement Photos**



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### Conducted Measurement Photos



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