S T S



FCC TEST REPORT

Report No: STS1502032F03

Issued for

Tianjin RoamWiFi Technology Co., Ltd.
2018 Zhong Tian Road, Block 16 Unit 429, Ready built office, Tianjin Eco-city, Tianjin

Product Name:	3G Wireless Router	
Brand Name:	Brand Name: Roam WiFi	
Model No.:	RW-801	
FCC ID:	2ADUB-ROAMWIFI	
Test Standard:	FCC Part 15.247	

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TEST RESULT CERTIFICATION

Applicant's name Tianjin RoamWiFi Technology Co., Ltd.

Tianjin Eco-city, Tianjin

Manufacture's Name...... Tianjin RoamWiFi Technology Co., Ltd.

Tianjin Eco-city, Tianjin

Product description

Product name 3G Wireless Router

Model and/or type reference ...: RW-801

Standards FCC Part15.247

Test procedure: ANSI C63.10-2009

This device described above has been tested by STS, 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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Date of Test

Test Result...... Pass

Testing Engineer :

(Jin Ming)

Report writing

(Sunny zheng)

Authorized : Convy

(Bovey Yang)



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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) (reference KDB 558074 v03r02)	Peak Output Power	PASS				
15.247 (c)	Radiated Spurious Emission	PASS				
15.247 (d)	Conducted Spurious Emission	PASS				
15.247 (e)	Power Spectral Density	PASS				
15.205	15.205 Band Edge Emission					
15.203	Antenna Requirement	PASS				

NOTE:

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

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District,

Shenzhen, China.

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	3G Wireless R	outer		
Trade Name	Roam WiFi			
Model Name	RW-801			
	The EUT is a 3	The EUT is a 3G Wireless Router		
	Operation Frequency:	802.11b/g: 2412~2462 MHz		
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK		
Product Description	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps		
	Number Of Channel	802.11b/g: 11CH		
	Antenna Designation:	Please see Note 3.		
	Antenna Gain (dBi)	0 dbi		
Channel List	Please refer to	the Note 2.		
Ratings	DC 3.7V from	battery		
	Rated Voltage	: 3.7V		
Battery	Charge Limit: 4.2V			
	capacity:5200	mAh		
Hardware version number	SP918			
Software versioning number	RoamWiFi_1.00.001			
Connecting I/O Port(s)	Please refer to	the User's Manual		

Note:

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							
Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) Channel							Channel	Frequency (MHz)
	01 2412 04		2427	07	2442	10	2457	
	02 2417 05			2432	80	2447	11	2462
	03	2422	06	2437	09	2452	·	



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3. Table for Filed Antenna

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Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE	
Α	N/A	N/A	Integrated Antenna	NA	0	N/A	





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	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 3	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	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



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST



2.4 DESCRIPTION OF SUPPORT UNITS

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	3G Wireless Router	Roam WiFi	RW-801	X510B	EUT
E-2	Adapter	Rivo	RM003	N/A	
	\				

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.5m	

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 <code>"Length_"</code> column.
- (3) The Adapter was provided by Lab.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kadiation rest ed Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Spectrum Agilent		MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.10.27	2015.10.26
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05
Amplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07
Power Meter	Anritsu	ML2495A	1204003	2014.10.25	2015.10.24
Power Sensor	Anritsu	MA2411B	100309	2014.10.25	2015.10.24
Low frequency cable	MURATA	R-03	130627	2014.10.25	2015.10.24
High frequency cable	HARBOUR	R-02	FL0000175	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer Type No.		Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	102086	2014.10.25	2015.10.24
LISN	R&S	R&S ENV216		2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
Conduction Cable	HUBER+SU HNER	C01	N/A	2014.10.25	2015.10.24



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&207(a) limit in the table below has to be followed.

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

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	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		



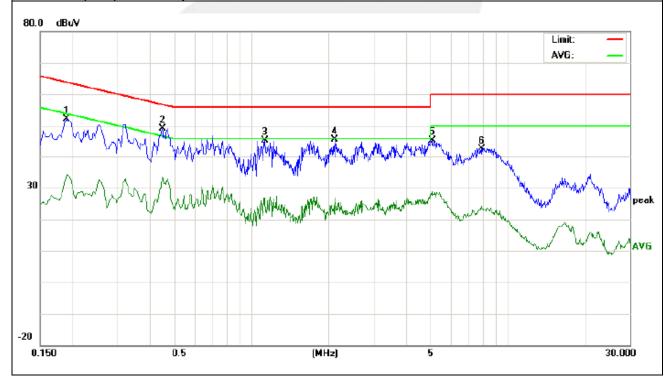
3.1.2 TEST RESULTS

EUT:	3G Wireless Router	Model Name. :	RW-801	
Temperature:	23 ℃	Relative Humidity:	50%	
Pressure :	1010hPa	Phase :	L	
TIAST VALIANA .	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Link Mode	

No.	No. Freq.		. (424.)						Margin (dB) P/F		Comment			
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1900	41.87		24.30	10.20	52.07		34.50	64.03	54.03	-11.96	-19.53	Р	
2	0.4500	38.88		23.05	10.37	49.25		33.42	56.87	46.87	-7.62	-13.45	Р	
3	1.1260	35.11		16.42	10.37	45.48		26.79	56.00	46.00	-10.52	-19.21	Р	
4	2.1180	35.37		16.66	10.27	45.64		26.93	56.00	46.00	-10.36	-19.07	Р	
5	5.0780	35.17		18.70	10.24	45.41		28.94	60.00	50.00	-14.59	-21.06	Р	
6	7.9060	32.36		13.71	10.35	42.71		24.06	60.00	50.00	-17.29	-25.94	Р	

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. The adapter provided by the lab.



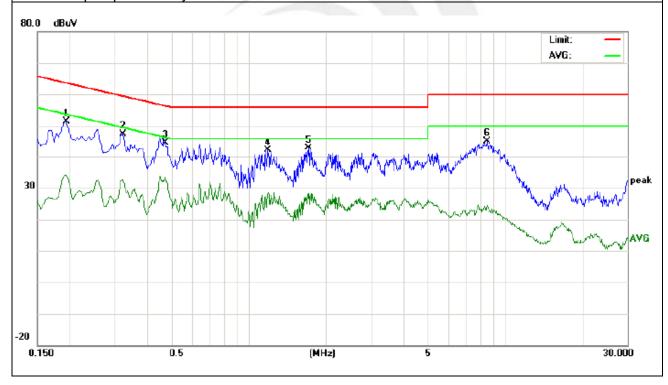




EUT:	3G Wireless Router	Model Name. :	RW-801	
Temperature:	23 ℃	Relative Humidity:	50%	
Pressure :	1010hPa	Phase :	N	
LIEST VOITAGE .	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Link Mode	

No.	Freq.					Limit Margin (dBuV) (dB)			P/F	Comment				
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1940	41.24		23.86	10.21	51.45		34.07	63.86	53.86	-12.41	-19.79	Р	
2	0.3220	37.07		22.37	10.30	47.37		32.67	59.65	49.65	-12.28	-16.98	Р	
3	0.4740	34.29		22.95	10.38	44.67		33.33	56.44	46.44	-11.77	-13.11	Р	
4	1.1900	31.66		17.56	10.37	42.03		27.93	56.00	46.00	-13.97	-18.07	Р	
5	1.7100	35.44		15.63	10.31	45.75		25.94	56.00	46.00	-10.25	-20.06	Р	
6	8.5100	34.91		14.04	10.34	45.25		24.38	60.00	50.00	-14.75	-25.62	Р	

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. The adapter provided by the lab





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

6 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&205(a), then the Part 15.247&209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance		
(MHz)	(micorvolts/meter)	(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)

EDEOLIENCY (MH-)	Class B (dBuV/m) (at 3M)				
FREQUENCY (MHz)	PEAK	AVERAGE			
Above 1000	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).

FREQUENCY RANGE OF RADIATED MEASUREMENT

The EUT operates below 10GHz, the spectrum must be examined from the upper block/band edge frequency up to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower. So the frequency range is 9KHz~25GHz.



3.2.2 TEST PROCEDURE

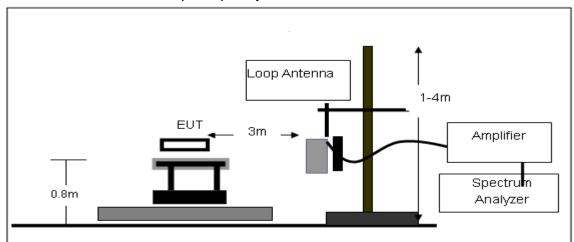
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment 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

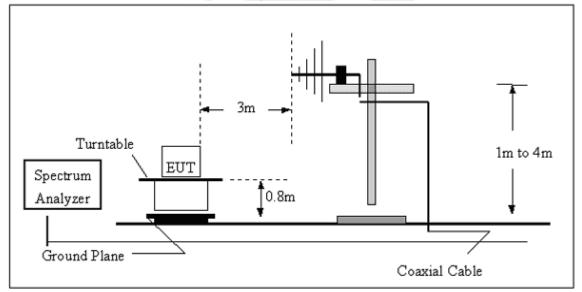


3.2.3 TEST SETUP

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

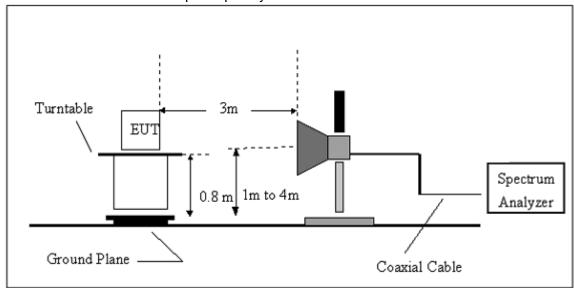


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





3.2.5 TEST RESULT 9KHz-30MHz

EUT:	3G Wireless Router	Model Name. :	RW-801
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX mode	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 (specific distance/test distance)(dB);

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

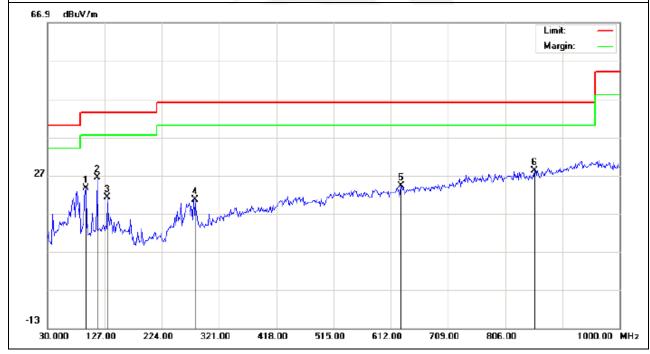


30MHz - 1000MHz

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	Low channel tx	Polarization :	Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		94.6667	13.77	9.89	23.66	43.50	-19.84	peak			
2	*	114.0667	14.95	11.45	26.40	43.50	-17.10	peak			
3		131.8500	7.35	13.84	21.19	43.50	-22.31	peak			
4		280.5833	5.86	14.82	20.68	46.00	-25.32	peak			
5		629.7833	0.31	23.80	24.11	46.00	-21.89	peak			
6		856.1167	0.73	27.47	28.20	46.00	-17.80	peak			

Remark:



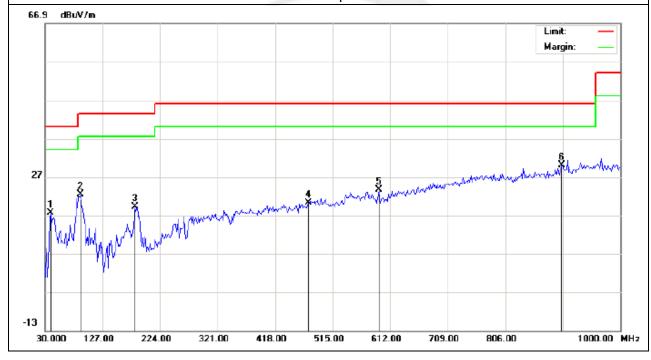






EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	Low channel tx	Polarization :	Vertical

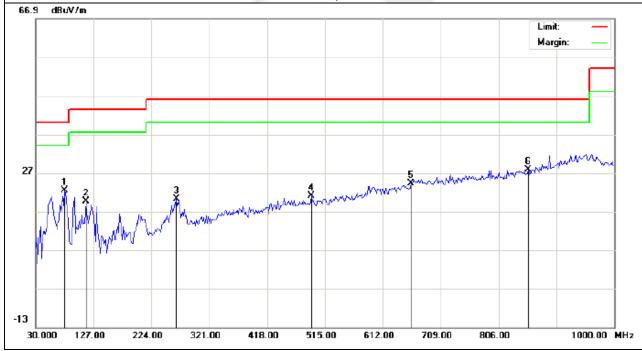
No	MI	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		39.7000	9.01	8.51	17.52	40.00	-22.48	peak			
2		89.8167	17.04	5.31	22.35	43.50	-21.15	peak			
3		181.9667	5.66	13.57	19.23	43.50	-24.27	peak			
4		474.5833	-0.71	20.86	20.15	46.00	-25.85	peak			
5		592.6000	0.90	22.69	23.59	46.00	-22.41	peak		·	
6	*	901.3833	1.34	28.65	29.99	46.00	-16.01	peak		·	





EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	Middle channel tx	Polarization :	Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	78.5000	12.59	9.87	22.46	40.00	-17.54	peak			
2		114.0667	8.17	11.45	19.62	43.50	-23.88	peak			
3		266.0333	5.92	14.38	20.30	46.00	-25.70	peak			
4		492.3667	0.05	21.05	21.10	46.00	-24.90	peak			
5		658.8833	0.15	24.09	24.24	46.00	-21.76	peak			
6		856.1167	0.27	27.47	27.74	46.00	-18.26	peak			

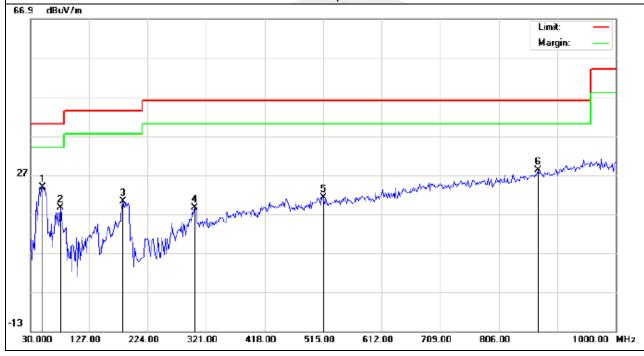






EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	Middle channel tx	Polarization:	Vertical

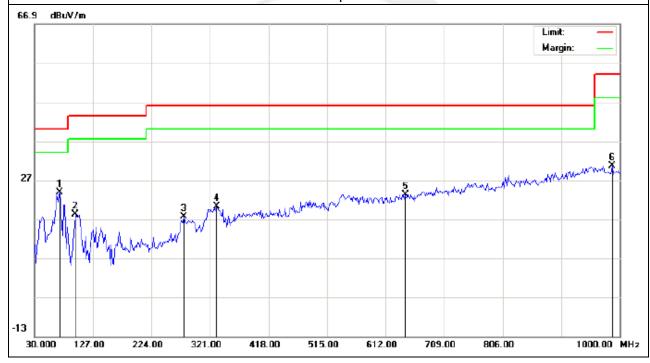
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	49.4000	15.46	8.28	23.74	40.00	-16.26	peak			
2		80.1167	16.67	1.84	18.51	40.00	-21.49	peak			
3		183.5833	7.03	13.16	20.19	43.50	-23.31	peak			
4		301.6000	3.05	15.52	18.57	46.00	-27.43	peak			
5		515.0000	-0.37	21.54	21.17	46.00	-24.83	peak			
6		870.6667	0.44	27.85	28.29	46.00	-17.71	peak			





EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	High channel tx	Polarization :	Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	72.0333	13.68	10.17	23.85	40.00	-16.15	peak			
2		97.9000	7.88	10.25	18.13	43.50	-25.37	peak			
3		277.3500	2.82	14.73	17.55	46.00	-28.45	peak			
4		332.3167	2.57	17.56	20.13	46.00	-25.87	peak			
5		644.3333	-0.59	23.84	23.25	46.00	-22.75	peak			
6		987.0667	1.02	29.64	30.66	54.00	-23.34	peak			







EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	High channel tx	Polarization:	Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		39.7000	10.38	8.51	18.89	40.00	-21.11	peak			
2		83.3500	19.37	3.00	22.37	40.00	-17.63	peak			
3		190.0500	12.06	11.52	23.58	43.50	-19.92	peak			
4		375.9667	2.05	18.91	20.96	46.00	-25.04	peak			
5		586.1333	0.50	22.66	23.16	46.00	-22.84	peak			
6	*	857.7333	0.94	27.51	28.45	46.00	-17.55	peak	·		







1000MHz - 25000MHz

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4824.070	46.56	10.44	57	74	-17	peak	
4824.070	31.24	10.44	41.68	54	-12.32	AVG	
7236.104	43.75	12.39	56.14	74	-17.86	peak	
7236.104	33.48	12.39	45.87	54	-8.13	AVG	
				-			

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.040	49.38	10.39	59.77	74	-14.23	peak
4824.062	33.72	10.39	44.11	54	-9.89	AVG
7236.146	48.48	12.68	61.16	74	-12.84	peak
7236.064	30.53	12.68	43.21	54	-10.79	AVG

Remark:





EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.100	49.63	10.39	60.02	74	-13.98	peak
4874.087	33.37	10.39	43.76	54	-10.24	AVG
7311.101	48.58	12.68	61.26	74	-12.74	peak
7311.128	30.27	12.68	42.95	54	-11.05	AVG

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.047	49.72	10.39	60.11	74	-13.89	peak
4874.129	33.44	10.39	43.83	54	-10.17	AVG
7311.145	48.65	12.68	61.33	74	-12.67	peak
7311.131	30.53	12.68	43.21	54	-10.79	AVG
_						

Remark:



Report No.: STS1502032F03



EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.090	49.96	10.39	60.35	74	-13.65	peak
4924.050	33.36	10.39	43.75	54	-10.25	AVG
7386.094	48.25	12.68	60.93	74	-13.07	peak
7386.083	30.53	12.68	43.21	54	-10.79	AVG
Remark:						
temark.						

EUT: 3G Wireless Router Model Name : RW-801 Relative Humidity: Temperature: **20** ℃ 48% Pressure: 1010 hPa Test Voltage : DC 3.7V from battery Test Mode CH11 (802.11b Mode)/2462 Polarization: Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.117	49.45	10.39	59.84	74	-14.16	peak
4924.051	33.92	10.39	44.31	54	-9.69	AVG
7386.102	48.36	12.68	61.04	74	-12.96	peak
7386.085	30.84	12.68	43.52	54	-10.48	AVG
	1.1					
Remark:						

Report No.: STS1502032F03



EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.127	46.33	10.44	56.77	74	-17.23	peak
4824.134	36.62	10.44	47.06	54	-6.94	AVG
7236.049	42.53	12.39	54.92	74	-19.08	peak
7236.056	28.28	12.39	40.67	54	-13.33	AVG
emark:						
emark.						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

(MHz) (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 4824.119 46.62 10.44 57.06 74 -16.94 per 4824.059 36.37 10.44 46.81 54 -7.19 AV 7236.038 42.56 12.39 54.95 74 -19.05 per 7236.071 28.47 12.39 40.86 54 -13.14 AV							
(MHz) (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 4824.119 46.62 10.44 57.06 74 -16.94 per 4824.059 36.37 10.44 46.81 54 -7.19 AV 7236.038 42.56 12.39 54.95 74 -19.05 per 7236.071 28.47 12.39 40.86 54 -13.14 AV	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
4824.059 36.37 10.44 46.81 54 -7.19 AV 7236.038 42.56 12.39 54.95 74 -19.05 per 7236.071 28.47 12.39 40.86 54 -13.14 AV	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
7236.038 42.56 12.39 54.95 74 -19.05 per 7236.071 28.47 12.39 40.86 54 -13.14 AV	4824.119	46.62	10.44	57.06	74	-16.94	peak
7236.071 28.47 12.39 40.86 54 -13.14 AV	4824.059	36.37	10.44	46.81	54	-7.19	AVG
	7236.038	42.56	12.39	54.95	74	-19.05	peak
Pemark:	7236.071	28.47	12.39	40.86	54	-13.14	AVG
Pomork:		X					
Domork		1//		1607 1			
remark.	Remark:						





EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.073	45.58	10.4	55.98	74	-18.02	peak
4874.121	26.27	10.4	36.67	54	-17.33	AVG
7311.091	44.55	12.75	57.3	74	-16.7	peak
7311.164	25.49	12.75	38.24	54	-15.76	AVG
lemark:						

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.079	48.15	10.4	58.55	74	-15.45	peak
4874.077	35.92	10.4	46.32	54	-7.68	AVG
7311.080	48.35	12.75	61.1	74	-12.9	peak
7311.087	33.77	12.75	46.52	54	-7.48	AVG
			47 10			
2	1	_				ļ
Remark:						





EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.046	49.37	10.39	59.76	74	-14.24	peak
4924.074	33.52	10.39	43.91	54	-10.09	AVG
7386.117	48.15	12.68	60.83	74	-13.17	peak
7386.088	30.38	12.68	43.06	54	-10.94	AVG
Dama ante						
Remark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Tune
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
46.37	10.39	56.76	74	-17.24	peak
34.49	10.39	44.88	54	-9.12	AVG
46.62	12.68	59.3	74	-14.7	peak
33.25	12.68	45.93	54	-8.07	AVG
	_	7			
	(dBµV) 46.37 34.49 46.62	(dBµV) (dB) 46.37 10.39 34.49 10.39 46.62 12.68	(dBμV) (dB) (dBμV/m) 46.37 10.39 56.76 34.49 10.39 44.88 46.62 12.68 59.3	(dBμV) (dB) (dBμV/m) (dBμV/m) 46.37 10.39 56.76 74 34.49 10.39 44.88 54 46.62 12.68 59.3 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 46.37 10.39 56.76 74 -17.24 34.49 10.39 44.88 54 -9.12 46.62 12.68 59.3 74 -14.7





3.2.6 TEST RESULTS (BAND EDGE)

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
2399.900	80.63	-13	67.63	74	-6.37	peak	
2399.900	61.54	-13	48.54	54	-5.54	AVG	
2400.000	82.39	-12.99	69.4	74	-4.41	peak	
2400.000	61.44	-12.99	48.45	54	-5.74	AVG	
Remark:							
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	81.72	-13	68.72	74	-5.28	peak
2399.900	61.64	-13	48.64	54	-5.36	AVG
2400.000	78.35	-12.99	65.36	74	-8.64	peak
2400.000	59.24	-12.99	46.25	54	-7.75	AVG
Remark:						
actor = Ante	enna Factor + Ca	ble Loss -	Pre-amplifier.		•	•



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EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	78.25	-12.78	65.47	74	-8.53	peak
2483.500	60.63	-12.78	47.85	54	-6.15	AVG
2483.600	79.57	-12.77	66.8	74	-7.2	peak
2483.600	60.85	-12.78	48.07	54	-5.93	AVG
Remark:						
actor = Ante	enna Factor + C	able Loss – F	Pre-amplifier.			

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	77.75	-12.78	64.97	74	-9.03	peak
2483.500	60.93	-12.78	48.15	54	-5.85	AVG
2483.600	78.25	-12.77	65.48	74	-8.52	peak
2483.600	59.34	-12.77	46.57	54	-7.43	AVG
						<u> </u>
Remark:		-				1

Report No.: STS1502032F03



EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
2399.900	76.62	-13	63.62	74	-10.38	peak	
2399.900	59.47	-13	46.47	54	-7.53	AVG	
2400.000	78.31	-12.99	65.32	74	-8.68	peak	
2400.000	58.38	-12.99	45.39	54	-8.61	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	77.38	-13	64.38	74	-9.62	peak
2399.900	60.82	-13	47.82	54	-6.18	AVG
2400.000	78.39	-12.99	65.4	74	-8.6	peak
2400.000	62.52	-12.99	49.53	54	-4.47	AVG
Remark:						
Factor = Ant	enna Factor + C	able Loss –	Pre-amplifier.			

Report No.: STS1502032F03



EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	77.32	-12.78	64.54	74	-9.46	peak
2483.500	63.59	-12.78	50.81	54	-3.19	AVG
2483.600	76.14	-12.77	63.37	74	-10.63	peak
2483.600	61.86	-12.77	49.09	54	-4.91	AVG
Remark:	,					
Factor = Ant	enna Factor + 0	Cable Loss –	Pre-amplifier.			

EUT: 3G Wireless Router Model Name: RW-801

Temperature: 20 °C Relative Humidity: 48%

Pressure: 1010 hPa Test Voltage: DC 3.7V from battery

Test Mode : CH11(802.11g Mode) Polarization : Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	76.75	-12.78	63.97	74	-10.03	peak
2483.500	60.84	-12.78	48.06	54	-5.94	AVG
2483.600	75.69	-12.77	62.92	74	-11.08	peak
2483.600	61.63	-12.77	48.86	54	-5.14	AVG
Remark:						



4. CONDUCTED SPURIOUS EMISSIONS

4.1 APPLIED PROCEDURES / LIMIT

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. Attenuation below the general limits specified in Section 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)).

4.2 TEST PROCEDURE

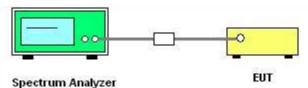
Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stan Eraguanay	Lower Band Edge: 2300 to 2430 MHz		
Start/Stop Frequency	Upper Band Edge: 2450 to 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

4.3 DEVIATION FROM STANDARD No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

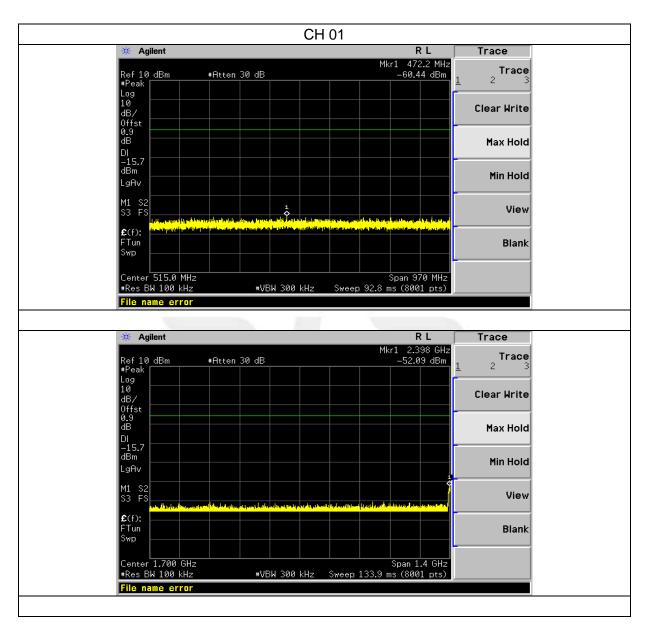
4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

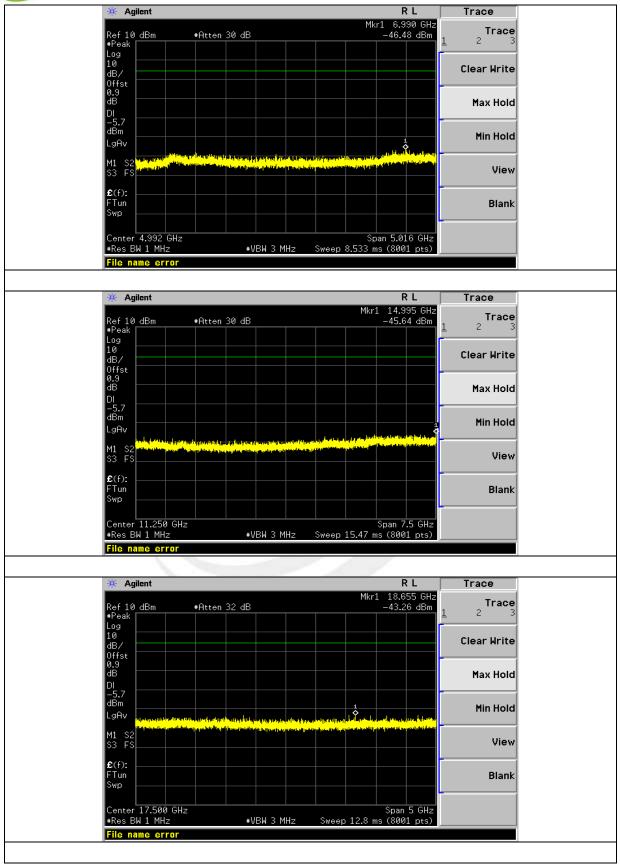


4.6 TEST RESULTS

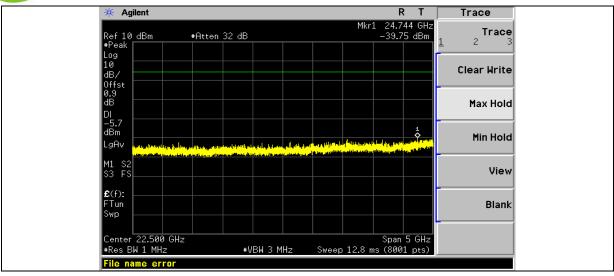
EUT:	3G Wireless Router	Model Name :	RW-801		
Temperature:	25 ℃	Relative Humidity:	60%		
Pressure:	1015 hPa	Test Voltage :	DC 3.7V from battery		
Test Mode :	TX b Mode /CH01, CH06, CH11				

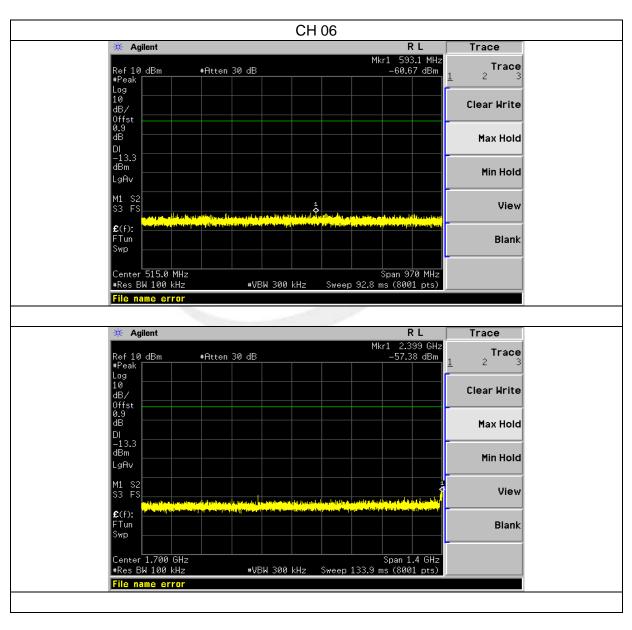




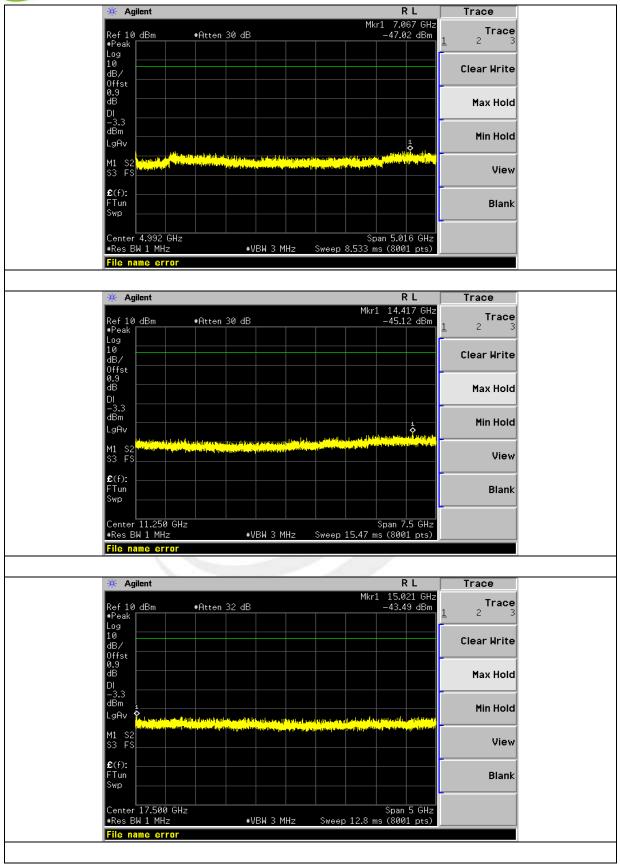




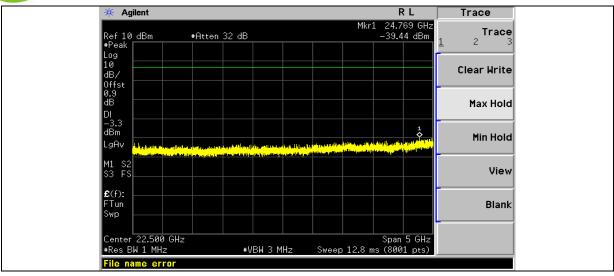


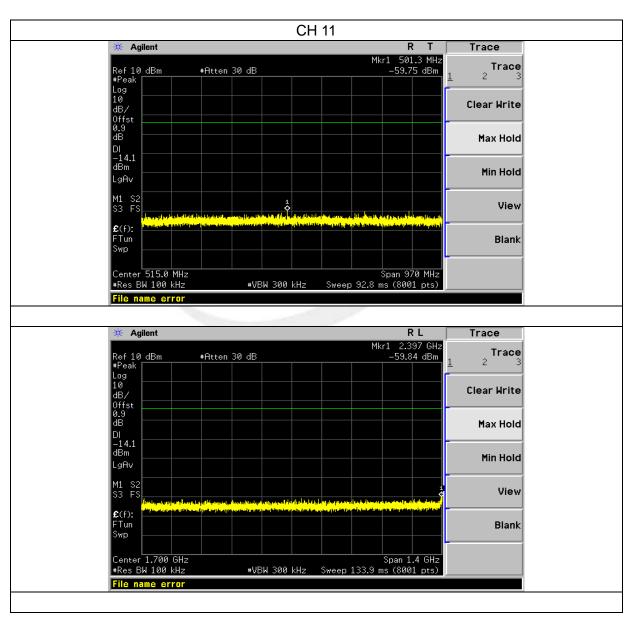








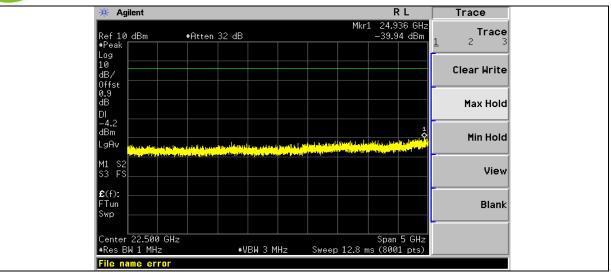




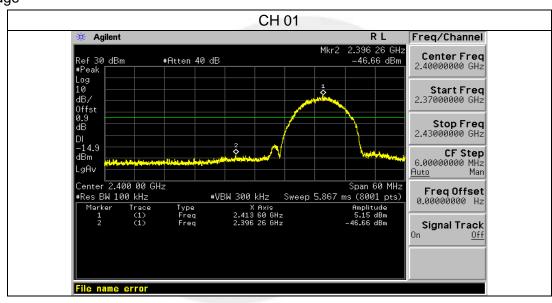


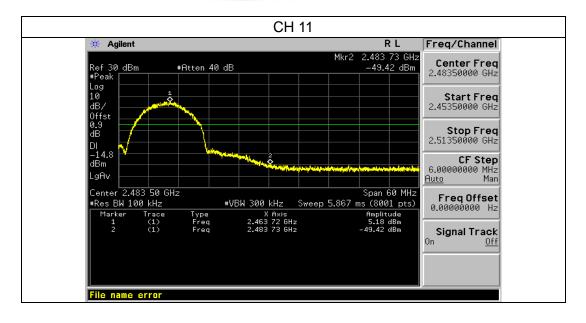






Band edge

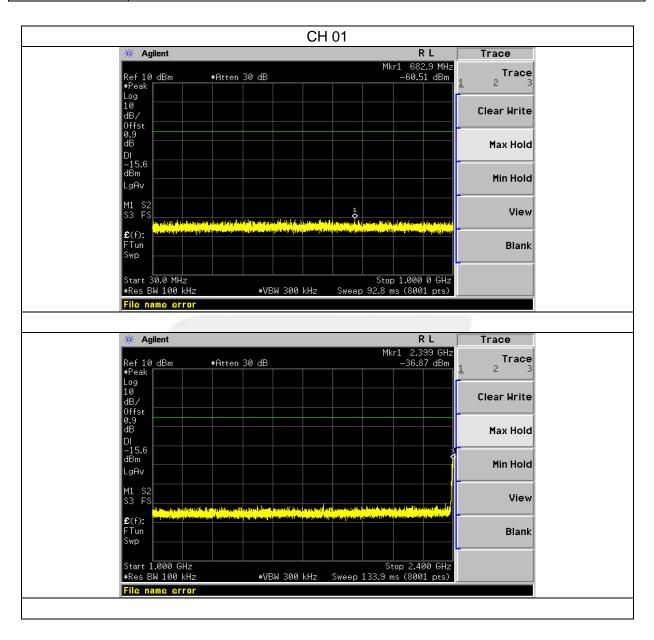




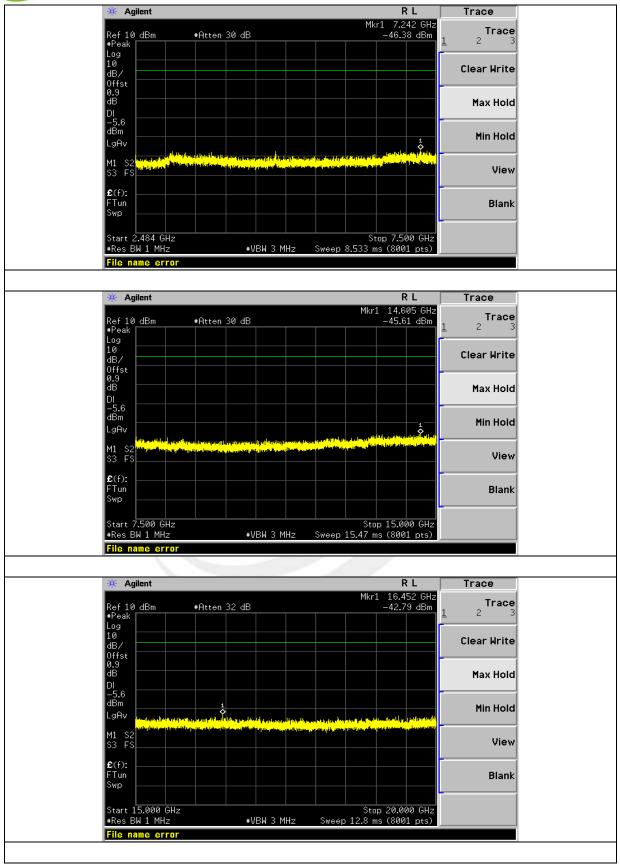




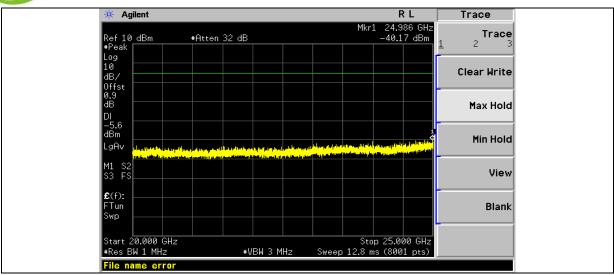
EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa Test Voltage : DC 3.7V from battery		
Test Mode :	TX g Mode /CH01, CH06, CH11		

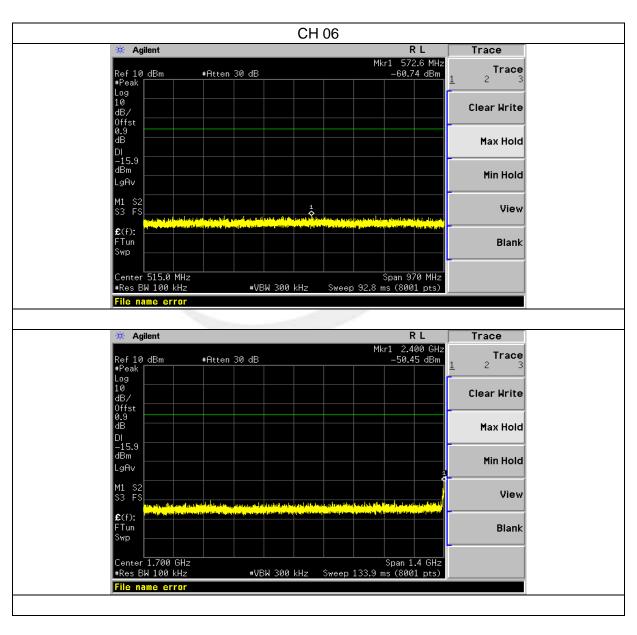




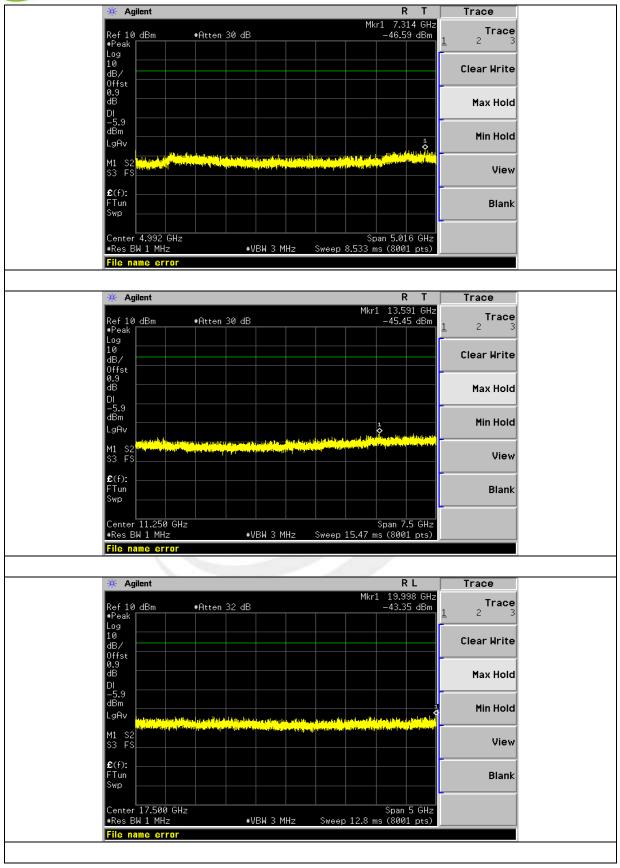




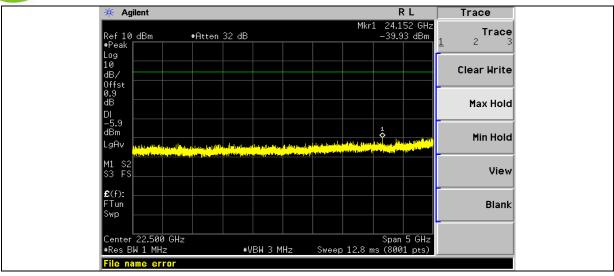


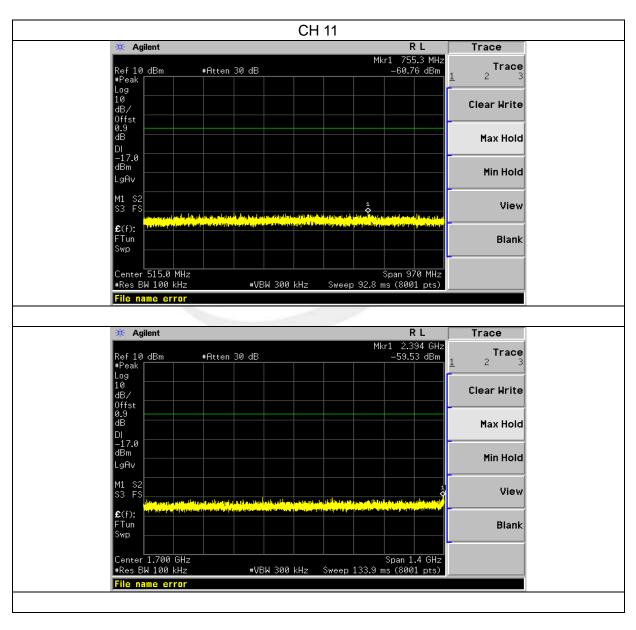




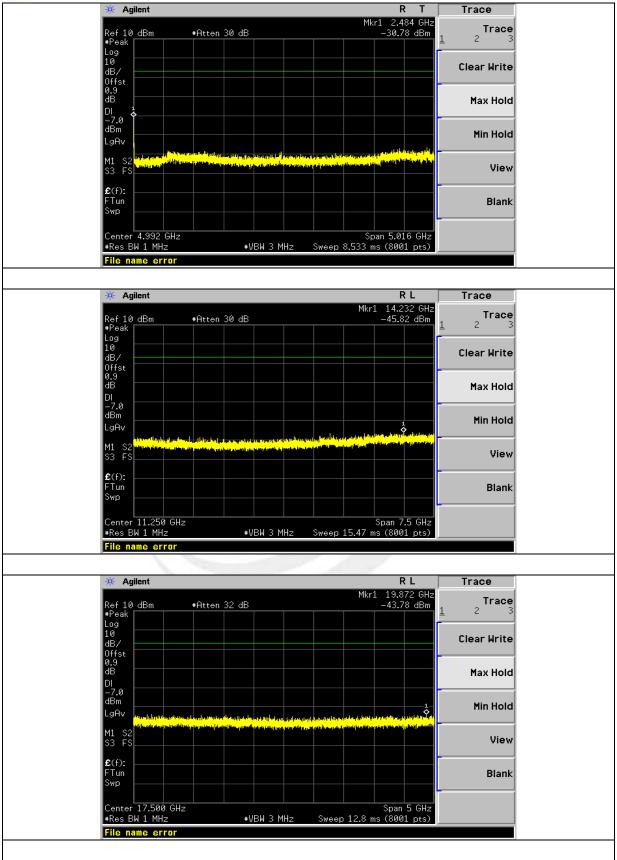




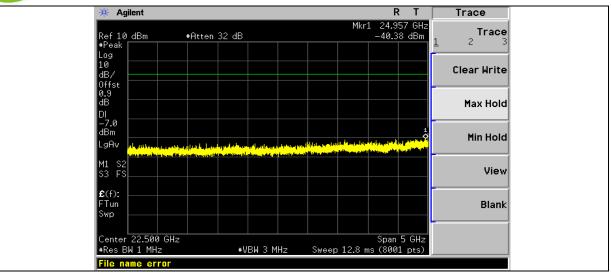




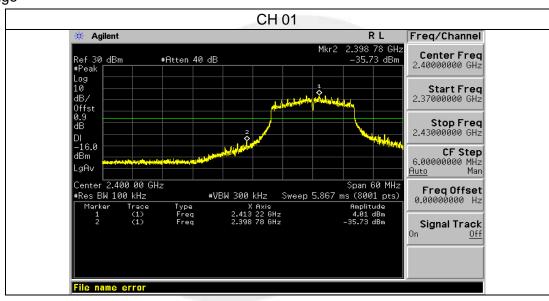


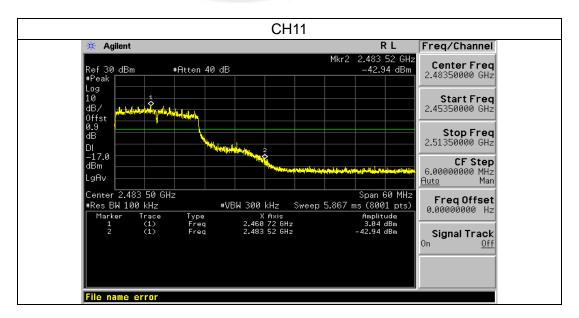






Band edge







5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

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

5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

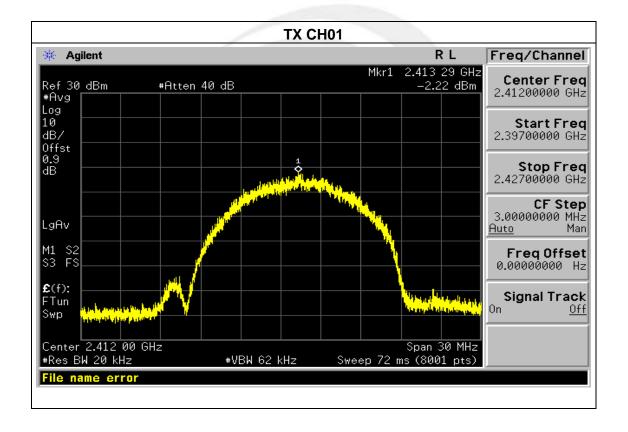




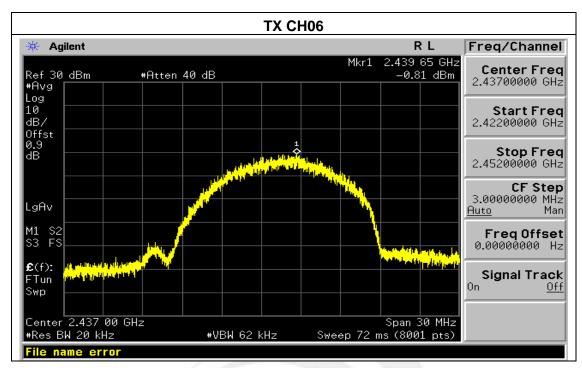
5.6 TEST RESULTS

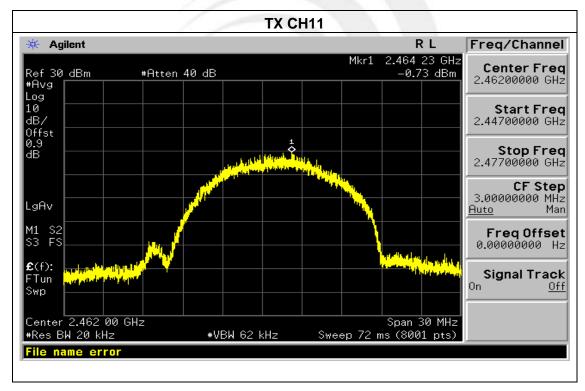
EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa Test Voltage : DC 3.7V from battery		
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/20kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-2.22	8	PASS
2437 MHz	-0.81	8	PASS
2462 MHz	-0.73	8	PASS







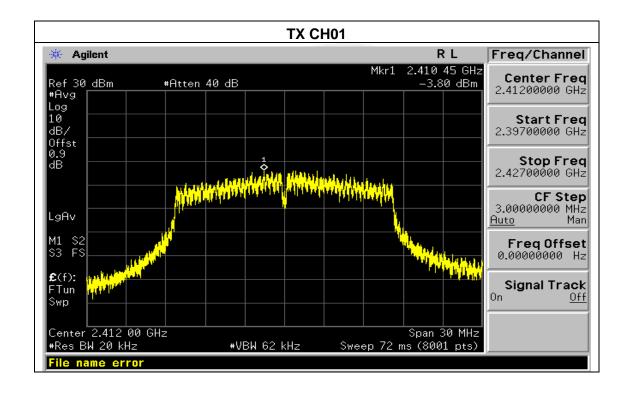


Report No.: STS1502032F03



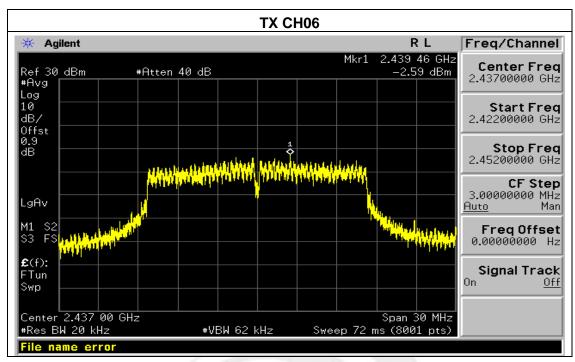
EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode : TX g Mode /CH01, CH06, CH11			

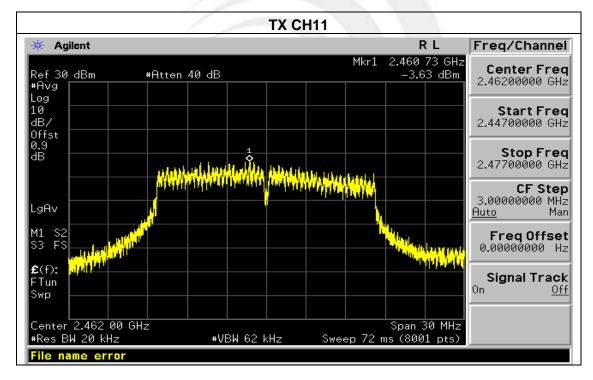
Frequency	Power Density (dBm/20kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-3.80	8	PASS
2437 MHz	-2.59	8	PASS
2462 MHz	-3.63	8	PASS













6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 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 d B relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

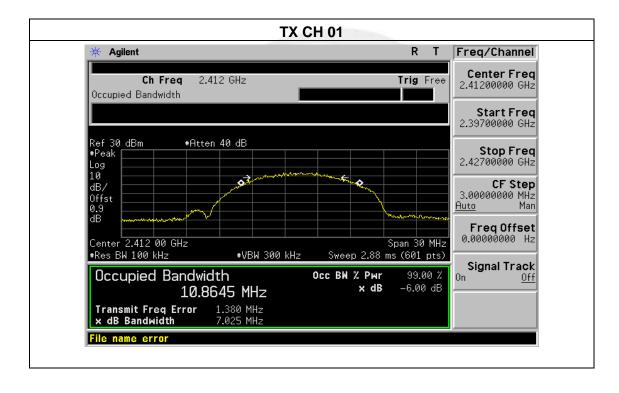




6.6 TEST RESULTS

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa Test Voltage : DC 3.7V from battery		
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	7.03	>=500KHz	PASS
2437 MHz	6.53	>=500KHz	PASS
2462 MHz	7.18	>=500KHz	PASS





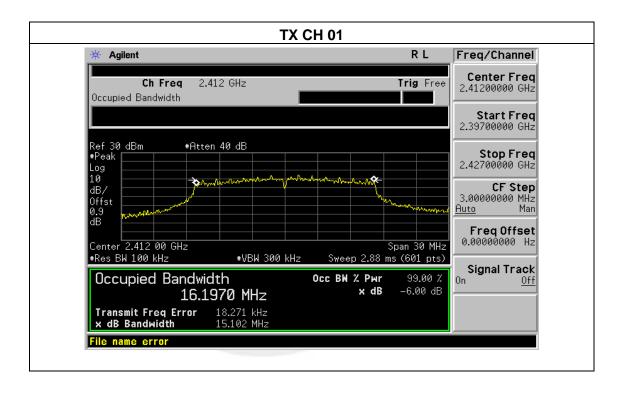




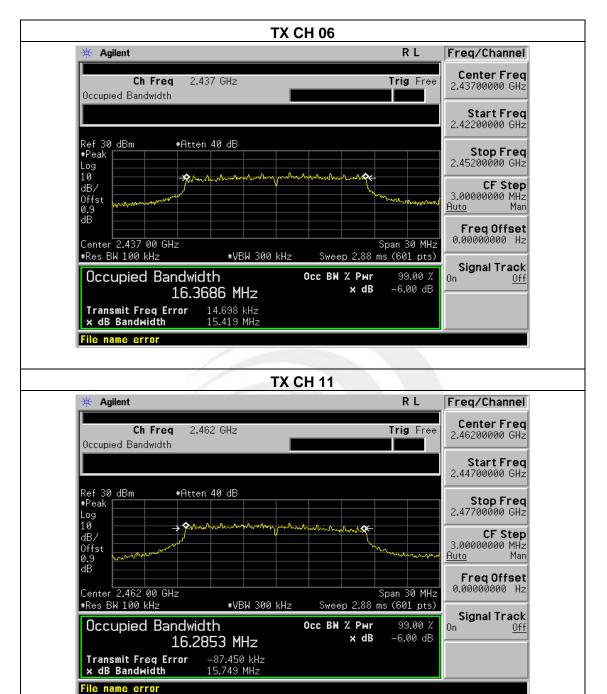


EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	15.10	>=500KHz	PASS
2437 MHz	15.42	>=500KHz PASS	
2462 MHz	15.75	>=500KHz	PASS









7. PEAK OUTPUT POWER TEST

7.1 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

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&Power meter

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

Power Meter	1 OWEI METER
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7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





7.5 TEST RESULTS

EUT:	3G Wireless Router	Model Name :	RW-801
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH01	2412	9.88	30
CH06	2437	9.47	30
CH11	2462	9.39	30

TX 802.11g Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH01	2412	8.4	30
CH06	2437	8.36	30
CH11	2462	8.31	30



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

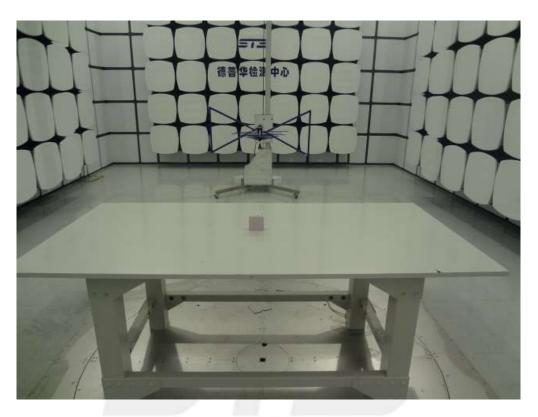
The EUT antenna is PIFA Antenna. It comply with the standard requirement.





APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos







Conducted Measurement Photos

