

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC140341 1 of 87 Page:

FCC Radio Test Report FCC ID: 2AAQL-M709

Original Grant

Report No. TB-FCC140341

Applicant More Star Industrial Group Limited

Equipment Under Test (EUT)

EUT Name Tablet PC

Model No. M709

Series Model Vixen, M708

No.

Brand Name N/A

2014-05-26 Receipt Date

2014-05-26 to 2014-06-06 Test Date

Issue Date 2014-06-10

Standards FCC Part 15, Subpart C (15.247:2012)

Test Method ANSI C63.4:2003

Conclusions PASS

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

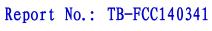
Test/Witness Engineer

LVAN SV Log Là. **Approved& Authorized**

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

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1. General Information about EUT

1.1 Client Information

Applicant: More Star Industrial Group Limited

Address : 3&4F, D Building, ZhuangBian Industrial Park, GuShu Industrial

Area, Xixiang Town, Bao'an District, ShenZhen, China

Manufacturer : More Star Industrial Group Limited

Address: 3&4F, D Building, ZhuangBian Industrial Park, GuShu Industrial

Area, Xixiang Town, Bao'an District, ShenZhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Tablet PC			
Models No.	:	M709, Vixen, M708			
Model Difference	:	All models are identical in the same PCB layout, interior structure and electrical circuits, The only difference is model name for commercial purpose.			
	2MHz~2462MHz				
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)		
Product Description :		RF Output Power:	802.11b: 9.29 dBm 802.11g: 8.98 dBm 802.11n (HT20): 8.76 dBm		
		Antenna Gain:	0 dBi (PIFA Antenna)		
		Modulation Type: 802.11b: DSSS (CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM			
		Bit Rate of Transmitter:			
Power Supply	:	DC power supplied by A			
		DC Voltage supplied from	m Li-Polymer battery.		
Power Rating	:	AC/DC Adapter(PS12A050K2000UD): Input: AC 100~240V 50/60Hz 0.35A Output: DC 5V 2A DC 3.7V 4000mAh from Li-ion battery			
Connecting I/O Port(S)	:	The equipent have USB port for link with PC, so the equipment is considered as a Computing Device Peripheral. Please refer to the User's Manual ent have Bluetooth function, Bluetooth have test comply with FCC Part			

Note: The equipment have Bluetooth function, Bluetooth have test comply with FCC Part 15C Rules. More detailed features description, please refer to the manufacturer's



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specifications or the User's Manual.

Note:

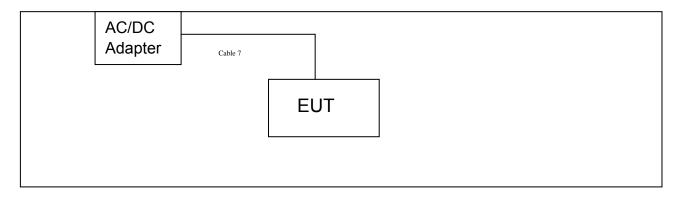
- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r01.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Antenna information provided by the applicant.
- (4) Channel List:

CH 01~CH 11 for 802.11b/g/n(HT20)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

Equipment Information							
Name Model S/N Manufacturer Used "√"							
/ / /			1	/			
	Cable Information						
Number Shielded Type Ferrite Core Length No							
Cable 7	NO	NO	1.2M	Accessories			

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test



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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 follow was evaluated respectively.

For Conducted Test			
Final Test Mode	Description		
Mode 1	AC Charging with TX B Mode		

For Radiated Test				
Final Test Mode	Description			
Mode 3	TX Mode B Mode Channel 01/06/11			
Mode 4	TX Mode G Mode Channel 01/06/11			
Mode 5	TX Mode N(HT20) Mode Channel 01/06/11			

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.4 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	Test Program: Realtek MP Tool.apk		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF



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IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09



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1.7 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.



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2. Test Summary

FCC Part 15 Subpart C(15.247)/RSS-210: 2010					
Standard Section		Test Item	ludamont	Damada	
FCC	IC	rest item	Judgment	Remark	
15.203	1	Antenna Requirement	PASS	N/A	
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A	
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A	
15.247(a)(2)	RSS-210	6dB Bandwidth	PASS	N/A	
	A.8.2(a)	Cab banaman			
15.247(b)	RSS-210	Peak Output Power	PASS	N/A	
13.247(0)	A.8.4(4)	Feak Output Fower	FA33	IN/A	
45.047(a)	RSS-210	Power Spectral Density	DACC	NI/A	
15.247(e)	A.8.2(b)		PASS	N/A	
45.047(4)	RSS-210	Transmitter Radiated Spurious	DACC	NI/A	
15.247(d)	Annex 8 (A8.5)	Emission	PASS	N/A	
4E 047(d)	RSS-210	Antenna Conducted	PASS	NI/A	
15.247(d)	Annex 8 (A8.5)	Spurious Emission		N/A	

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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3. Conducted Emission Test

3.1 Test Standard and Limit

3.1.1Test Standard FCC Part 15.207

3.1.2 Test Limit

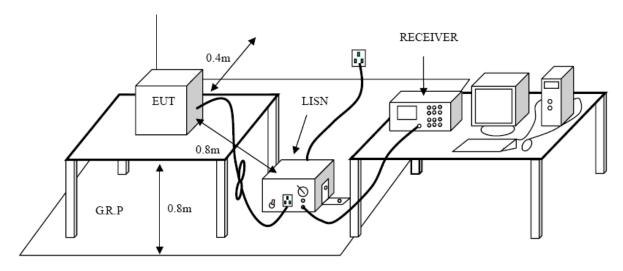
Conducted Emission Test Limit

Eraguanav	Maximum RF Lir	ne Voltage (dBμV)
Frequency	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.2 Test Setup



3.3 Test Procedure

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.

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.



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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.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

3.4 Test Equipment Used

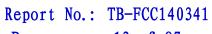
Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test	ROHDE&		100221	2013-08-10	2014-08-09
Receiver	SCHWARZ	ESCI	100321	2013-06-10	2014-00-09
50ΩCoaxial	Anritsu	MP59B	X10321	2013-08-10	2014-08-09
Switch	Ailliou	WIF 39B	X10321	2013-00-10	2014-00-09
L.I.S.N	Rohde & Schwarz	ENV216	101131	2013-08-10	2014-08-09
L.I.S.N	SCHWARZBECK	NNBL 8226-2	8226-2/164	2013-08-10	2014-08-09

3.5 EUT Operating Mode

Please refer to the description of test mode.

3.6 Test Data

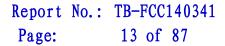
Please see the next page.





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EUT:		TABL	ET PC	ı	Model Name	:	M709	
Temper	rature:	25 °C		F	Relative Hur	nidity:	55%	
Test Vo	ltage:	AC 1	20V/60 Hz					
Termina	al:	Line						
Test Mo	ode:	AC C	harging with	h TX B Mo	de			
Remark: Only worse case is reported								
90.0 d	lBuV							n 1
							QI AV	VG:
	-		,					
40 ~	W	м	N ON MANAMENTAL MANAME	Marka a mari	Man water			
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\sim	M. 1	~~~~~	Whatever	Mary Mary	June prod Just	المام		Moone
	or ~	Y	V		, V	M. John Bringh		pea
								AVI
-10 0.150		0.5		(MHz)	5			30.000
No	Mk.		Reading	Correct	Measure-	1 : :4	_	
		Frea		Factor	ment	Limit	Over	
		Freq.	Level	Factor	ment dBuV	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	* 0.	MHz 5540	dBuV 30.51	dB 10.05	dBu√ 40.56	dBuV 56.00	dB -15.44	QP
1 2	* 0. 0.	MHz 5540 5540	dBuV 30.51 19.80	dB 10.05 10.05	dBuV 40.56 29.85	dBuV 56.00 46.00	dB -15.44 -16.15	QP AVG
1 2 3	* 0. 0. 1.	MHz 5540 5540 0020	30.51 19.80 26.96	dB 10.05 10.05 10.06	dBuV 40.56 29.85 37.02	dBuV 56.00 46.00 56.00	dB -15.44 -16.15 -18.98	QP AVG QP
1 2 3 4	* 0. 0. 1.	MHz 5540 5540 0020 0020	dBuV 30.51 19.80 26.96 17.27	dB 10.05 10.05 10.06 10.06	dBuV 40.56 29.85 37.02 27.33	dBuV 56.00 46.00 56.00 46.00	dB -15.44 -16.15 -18.98 -18.67	QP AVG QP AVG
1 2 3 4 5	* 0. 0. 1. 1.	MHz 5540 5540 0020 0020 2300	dBuV 30.51 19.80 26.96 17.27 26.99	dB 10.05 10.05 10.06 10.06	dBuV 40.56 29.85 37.02 27.33 37.05	dBuV 56.00 46.00 56.00 46.00	dB -15.44 -16.15 -18.98 -18.67 -18.95	QP AVG QP AVG QP
1 2 3 4 5	* 0. 0. 1. 1. 1.	MHz 5540 5540 0020 0020 2300 2300	dBuV 30.51 19.80 26.96 17.27 26.99 16.90	dB 10.05 10.05 10.06 10.06 10.06	dBuV 40.56 29.85 37.02 27.33 37.05 26.96	dBuV 56.00 46.00 56.00 46.00 46.00	dB -15.44 -16.15 -18.98 -18.67 -18.95 -19.04	QP AVG QP AVG QP AVG
1 2 3 4 5 6 7	* 0. 0. 1. 1. 1. 2.	MHz 5540 5540 0020 0020 2300 2300 2940	dBuV 30.51 19.80 26.96 17.27 26.99 16.90 26.50	dB 10.05 10.05 10.06 10.06 10.06 10.06	dBuV 40.56 29.85 37.02 27.33 37.05 26.96 36.55	dBuV 56.00 46.00 56.00 46.00 46.00 56.00	dB -15.44 -16.15 -18.98 -18.67 -18.95 -19.04 -19.45	QP AVG QP AVG QP AVG QP
1 2 3 4 5	* 0. 0. 1. 1. 1. 2.	MHz 5540 5540 0020 0020 2300 2300	dBuV 30.51 19.80 26.96 17.27 26.99 16.90	dB 10.05 10.05 10.06 10.06 10.06	dBuV 40.56 29.85 37.02 27.33 37.05 26.96	dBuV 56.00 46.00 56.00 46.00 46.00 56.00	dB -15.44 -16.15 -18.98 -18.67 -18.95 -19.04	QP AVG QP AVG QP AVG
1 2 3 4 5 6 7	* 0. 0. 1. 1. 1. 2.	MHz 5540 5540 0020 0020 2300 2300 2940	dBuV 30.51 19.80 26.96 17.27 26.99 16.90 26.50	dB 10.05 10.05 10.06 10.06 10.06 10.06	dBuV 40.56 29.85 37.02 27.33 37.05 26.96 36.55	dBuV 56.00 46.00 56.00 46.00 56.00 46.00	dB -15.44 -16.15 -18.98 -18.67 -18.95 -19.04 -19.45	QP AVG QP AVG QP AVG QP
1 2 3 4 5 6 7 8	* 0. 0. 1. 1. 1. 2. 2.	MHz 5540 5540 0020 0020 2300 2300 2940 2940	dBuV 30.51 19.80 26.96 17.27 26.99 16.90 26.50 16.31	dB 10.05 10.05 10.06 10.06 10.06 10.05 10.05	dBuV 40.56 29.85 37.02 27.33 37.05 26.96 36.55 26.36	dBuV 56.00 46.00 56.00 46.00 56.00 46.00 56.00	dB -15.44 -16.15 -18.98 -18.67 -18.95 -19.04 -19.45 -19.64	QP AVG QP AVG QP AVG QP AVG
1 2 3 4 5 6 7 8	* 0. 0. 1. 1. 1. 2. 2. 3.	MHz 5540 5540 0020 0020 2300 2300 2940 2940 5580	dBuV 30.51 19.80 26.96 17.27 26.99 16.90 26.50 16.31 24.63	dB 10.05 10.05 10.06 10.06 10.06 10.05 10.05 10.01	dBuV 40.56 29.85 37.02 27.33 37.05 26.96 36.55 26.36 34.64	dBuV 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	dB -15.44 -16.15 -18.98 -18.67 -18.95 -19.04 -19.45 -19.64 -21.36	QP AVG QP AVG QP AVG QP AVG QP



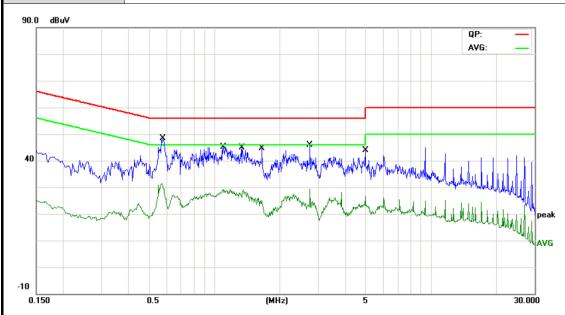


EUT: **TABLET PC** Model Name: M709 Temperature: **25** ℃ **Relative Humidity:** 55% AC 120V/60 Hz **Test Voltage:**

Neutral Terminal:

Test Mode: AC Charging with TX B Mode

Remark: Only worse case is reported



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.5780	30.82	10.02	40.84	56.00	-15.16	QP	
2	0.5780	20.03	10.02	30.05	46.00	-15.95	AVG	
3	1.0940	27.06	10.15	37.21	56.00	-18.79	QP	
4	1.0940	17.84	10.15	27.99	46.00	-18.01	AVG	
5	1.3420	27.55	10.13	37.68	56.00	-18.32	QP	
6	1.3420	17.63	10.13	27.76	46.00	-18.24	AVG	
7	1.6540	31.28	10.09	41.37	56.00	-14.63	QP	
8	1.6540	16.46	10.09	26.55	46.00	-19.45	AVG	
9 *	2.7540	31.92	10.06	41.98	56.00	-14.02	QP	
10	2.7540	16.46	10.06	26.52	46.00	-19.48	AVG	
11	4.9540	29.58	10.06	39.64	56.00	-16.36	QP	
12	4.9540	15.28	10.06	25.34	46.00	-20.66	AVG	



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4. Radiated Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard FCC Part 15.209

4.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

Radiated Ellinssion Ellints (SKIZ 1996MIZ)							
Frequency (MHz	Field Strength (microvolt/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					

Radiated Emission Limit (Above 1000MHz)

Frequency	Class A (dBuV	/m)(at 3 M)	Class B (dBuV/m)(at 3 M)	
(MHz)	Peak	Average	Peak	Average
Above 1000	80	60	74	54

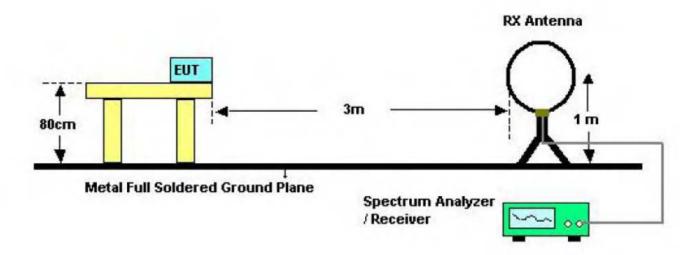
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

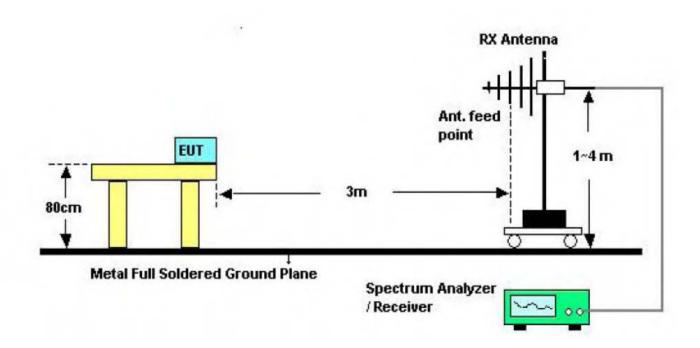


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4.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup

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Turntable

EUT

0.8 m lm to 4m

Coaxial Cable

Above 1GHz Test Setup

4.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) For the actual test configuration, please see the test setup photo.

4.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

4.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2014	Mar. 19, 2015



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Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 10, 2013	Aug.09, 2014
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2014	Mar.06, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 07, 2014	Mar.06, 2015
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2014	Mar.06, 2015
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 07, 2014	Mar.06, 2015
Pre-amplifier	HP	11909A	185903	Mar. 07, 2014	Mar.06, 2015
Pre-amplifier	HP	8447B	3008A00849	Mar. 07, 2014	Mar.06, 2015
Cable	HUBER+SUHNE R	100	SUCOFLEX	Mar. 07, 2014	Mar.06, 2015
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Feb. 11, 2014	Feb.10, 2015
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

4.6 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



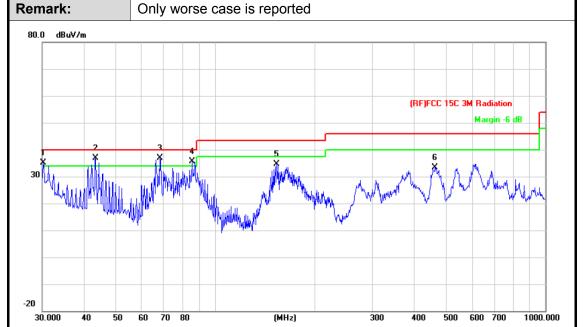
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EUT:	TABLET PC	Model:	M709		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Ant. Pol.	Horizontal				
Test Mode:	TX B Mode 2412MHz				
Remark:	Only worse case is reported				
80.0 dBuV/m					
30 1 ×	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RF)F	CC 15C 3M Radiation Margin -6 dB		
-20 30.000 40 50	60 70 80 (MH:	2) 300 400	500 600 700 1000.000		
No. Mk. F	Reading Corre Freq. Level Fact		t Over		
	MHz dBuV dB/m	dBuV/m dBuV	//m dB Detector		

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
_	1		31.2893	40.52	-14.76	25.76	40.00	-14.24	peak
2	2		66.0342	49.62	-23.98	25.64	40.00	-14.36	peak
(3	ļ	152.1297	60.03	-21.04	38.99	43.50	-4.51	peak
2	1	ļ	307.8313	58.26	-16.79	41.47	46.00	-4.53	peak
į	5	*	375.9385	57.85	-14.40	43.45	46.00	-2.55	peak
(3		457.5073	49.03	-12.20	36.83	46.00	-9.17	peak



EUT:TABLET PCModel:M709Temperature:25 °CRelative Humidity:55%Test Voltage:AC 120V/60 HzAnt. Pol.VerticalTest Mode:TX B Mode 2412MHz

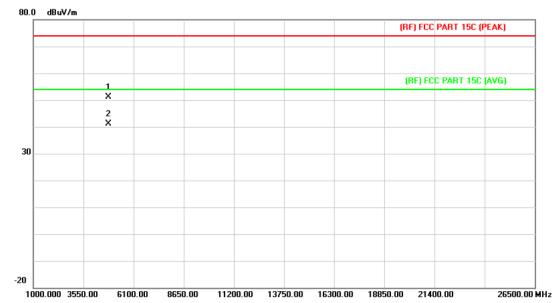


N	lo. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	!	30.2111	49.31	-14.09	35.22	40.00	-4.78	peak
2	*	43.5057	58.62	-21.64	36.98	40.00	-3.02	peak
3	!	68.1514	60.72	-23.78	36.94	40.00	-3.06	peak
4	į	85.2980	58.53	-22.97	35.56	40.00	-4.44	peak
5		153.7385	55.44	-20.92	34.52	43.50	-8.98	peak
6		463.9696	45.38	-11.97	33.41	46.00	-12.59	peak



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2412MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

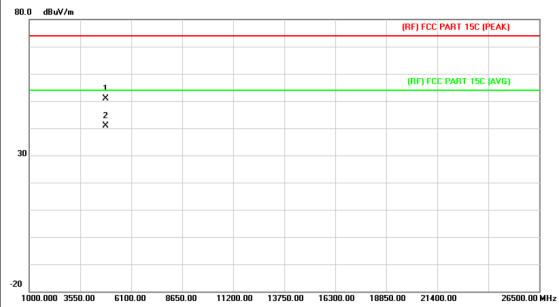


N	lo. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.903	43.05	8.19	51.24	74.00	-22.76	peak
2	*	4823.903	33.06	8.19	41.25	54.00	-12.75	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2412MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

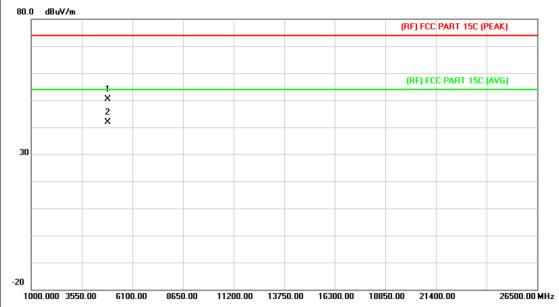


No	. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.903	43.91	8.19	52.10	74.00	-21.90	peak
2	*	4823.903	434.37	8.19	42.56	54.00	-11.44	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

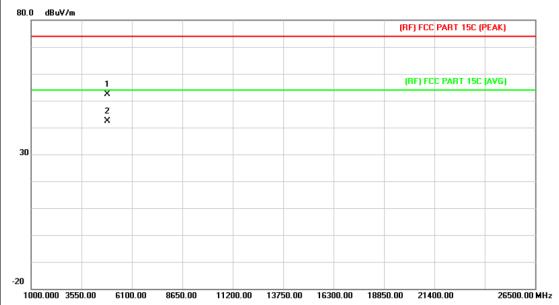


N	o. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.903	42.17	8.21	50.38	74.00	-23.62	peak
2	*	4873.903	33.77	8.21	41.98	54.00	-12.02	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

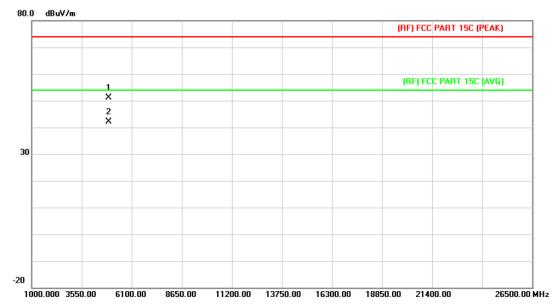


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4873.903	44.15	8.21	52.36	74.00	-21.64	peak
2		*	4873.903	34.20	8.21	42.41	54.00	-11.59	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2462MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

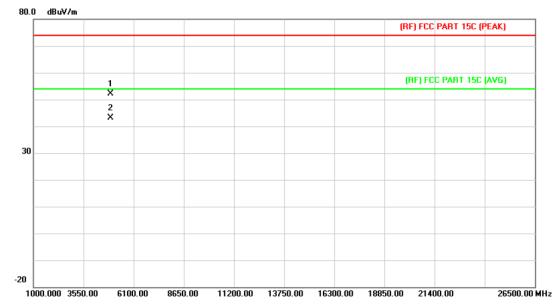


No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.903	43.03	8.22	51.25	74.00	-22.75	peak
2	*	4923.903	34.03	8.22	42.25	54.00	-11.75	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2462MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

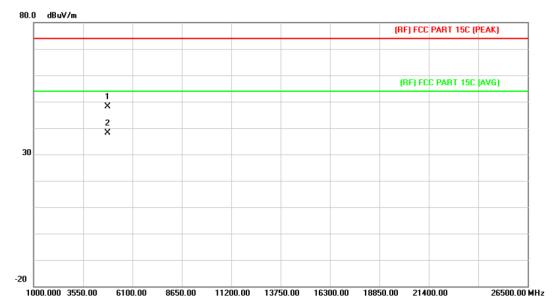


1	No. I	Иk.	Freq.	_		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4	4923.962	43.92	8.22	52.14	74.00	-21.86	peak
2	*		4923.962	34.92	8.22	43.14	54.00	-10.86	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2412MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

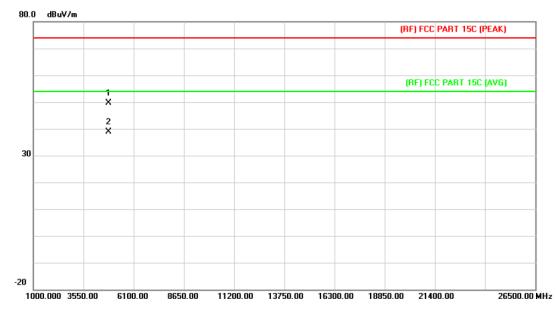


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.974	40.06	8.19	48.25	74.00	-25.75	peak
2	*	4823.974	30.06	8.19	38.25	54.00	-15.75	AVG



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EUT:	TABLET PC	Model:	M709				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX G Mode 2412MHz						
Remark:	No report for the emissio prescribed limit.	No report for the emission which more than 10 dB below the prescribed limit.					

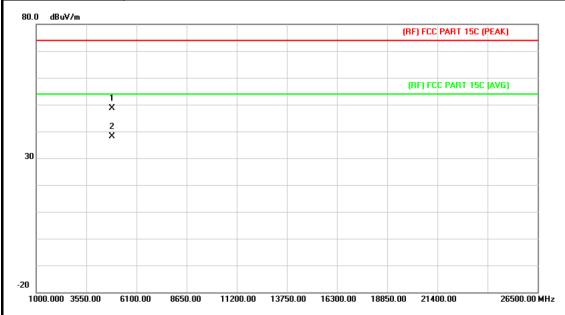


1	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4823.970	41.32	8.19	49.51	74.00	-24.49	peak
2		*	4823.970	30.70	8.19	38.89	54.00	-15.11	AVG



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EUT:	TABLET PC	Model:	M709				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX G Mode 2437MHz						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

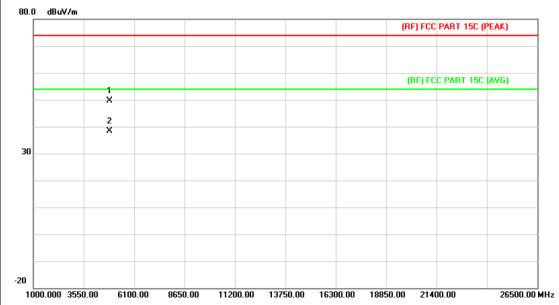


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.966	40.31	8.21	48.52	74.00	-25.48	peak
2	*	4873.966	29.92	8.21	38.13	54.00	-15.87	AVG



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EUT:	TABLET PC	Model:	M709					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Vertical							
Test Mode:	TX G Mode 2437MHz							
Remark:	No report for the emission which more than 10 dB below the							
	prescribed limit.		prescribed limit.					

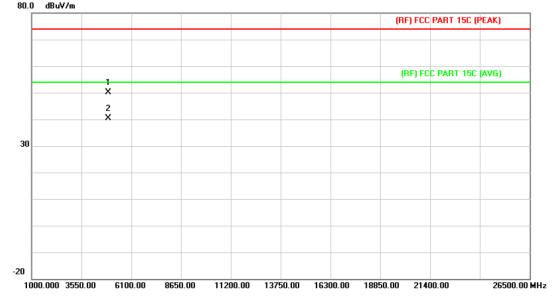


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.964	41.54	8.21	49.75	74.00	-24.25	peak
2	*	4873.964	30.07	8.21	38.28	54.00	-15.72	AVG



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EUT:	TABLET PC	Model:	M709					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Horizontal							
Test Mode:	TX G Mode 2462MHz							
Remark:	No report for the emission which more than 10 dB below the							
	prescribed limit.							
80.0 dBuV/m								

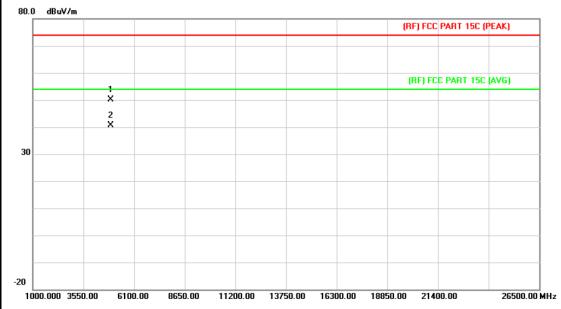


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.962	42.01	8.22	50.23	74.00	-23.77	peak
2	*	4923.962	32.10	8.22	40.32	54.00	-13.68	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2462MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

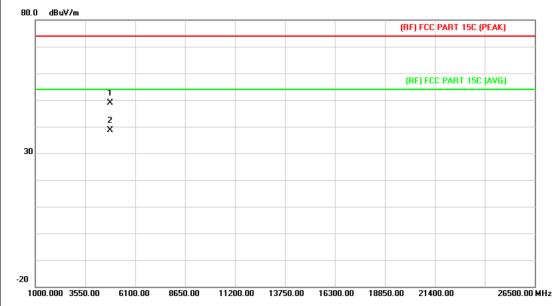


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.962	42.03	8.22	50.25	74.00	-23.75	peak
2	*	4923.962	32.38	8.22	40.60	54.00	-13.40	AVG



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EUT:	TABLET PC	Model:	M709				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2412N	ИHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

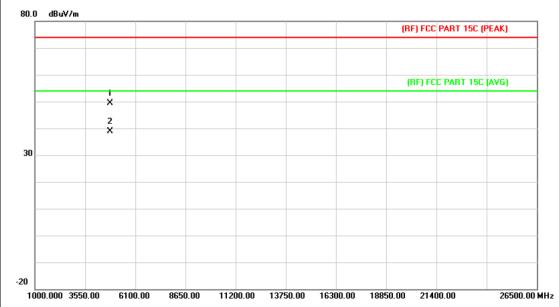


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.970	40.79	8.19	48.98	74.00	-25.02	peak
2	*	4823.970	30.52	8.19	38.71	54.00	-15.29	AVG



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EUT:	TABLET PC	Model:	M709					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Vertical							
Test Mode:	TX N(HT20) Mode 2412N	ИHz						
Remark:	No report for the emission which more than 10 dB below the							
	prescribed limit.	prescribed limit.						

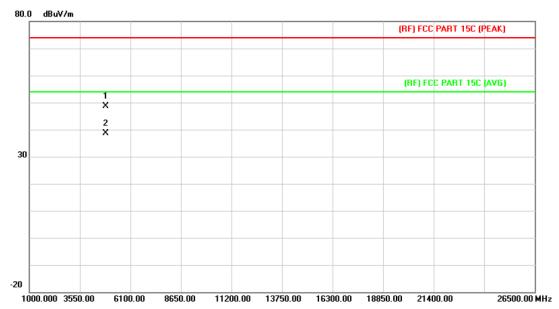


No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.970	41.08	8.19	49.27	74.00	-24.73	peak
2	*	4823.970	30.72	8.19	38.91	54.00	-15.09	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	5 °C Relative Humidity:				
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT20) Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

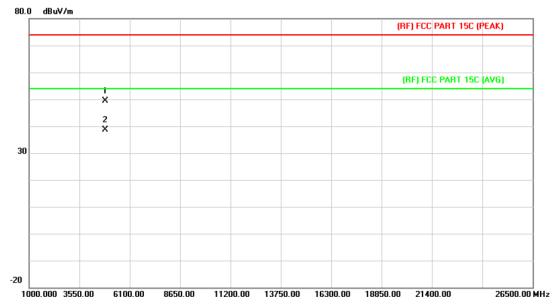


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.970	40.39	8.21	48.60	74.00	-25.40	peak
2	*	4873.970	30.34	8.21	38.55	54.00	-15.45	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	Temperature: 25 ℃		55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

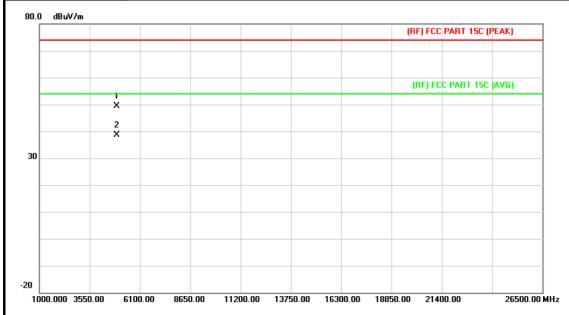


No.	Mk.	Freq.	-	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.970	41.21	8.21	49.42	74.00	-24.58	peak
2	*	4873.970	30.46	8.21	38.67	54.00	-15.33	AVG



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EUT:	TABLET PC	Model:	M709			
Temperature:	25 ℃	°C Relative Humidity:				
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT20) Mode 2462MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

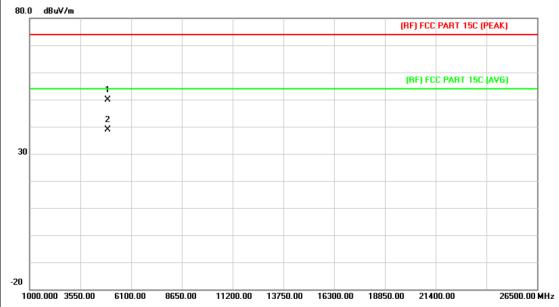


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.970	41.05	8.22	49.27	74.00	-24.73	peak
2	*	4923.970	30.40	8.22	38.62	54.00	-15.38	AVG



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EUT:	TABLET PC	Model:	M709						
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz							
Ant. Pol.	Vertical								
Test Mode:	TX N(HT20) Mode 2462N	ИHz							
Remark:	No report for the emissio	n which more than 10 c	B below the						
	prescribed limit.								



N	o. Mk	. Freq.	-	Correct Measure- Factor ment		Limit	Limit Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.970	41.57	8.22	49.79	74.00	-24.21	peak
2	*	4923.970	30.61	8.22	38.83	54.00	-15.17	AVG

Emission Level= Read Level+ Correct Factor



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5. Restricted Bands Requirement

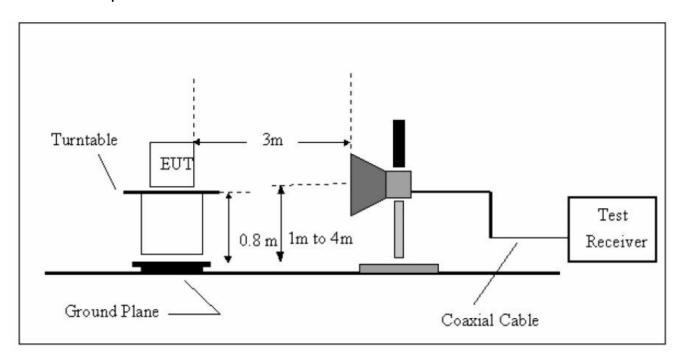
5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

5.1.2 Test Limit

Restricted Frequency	Class B (dBuV/m)(at 3 M)					
Band (MHz)	Peak	Average				
2310 ~2390	74	54				
2483.5 ~2500	74	54				

5.2 Test Setup



5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit



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Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

Peak Detection:

Set the center frequency of the emission to be measured (within 2 MHz of the authorized band edge), set span to 2 MHz, with RBW/VBW=100 kHz/300 kHz, detector mode is Peak, then use band power function to measure the Bandwidth of 1 MHz.

Average Detection (EUT transmitting continuously and duty cycle>=98 percent):

Set the center frequency of the emission to be measured (within 2 MHz of the authorized band edge), set span to 2 MHz, with RBW/VBW=100 kHz/300 kHz, detector mode is RMS or Average, then use band power function to measure the Bandwidth of 1 MHz.

(5) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

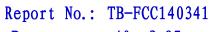
The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date	
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2014	Mar. 19, 2015	
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014	
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 10, 2013	Aug.09, 2014	
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2014	Mar.06, 2015	
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 07, 2014	Mar.06, 2015	
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2014	Mar.06, 2015	
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 07, 2014	Mar.06, 2015	
Pre-amplifier	HP	11909A	185903	Mar. 07, 2014	Mar.06, 2015	
Pre-amplifier	HP	8447B	3008A00849	Mar. 07, 2014	Mar.06, 2015	
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 07, 2014	Mar.06, 2015	
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Feb. 11, 2014	Feb.10, 2015	
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A	

5.6 Test Data

Please see the next page.

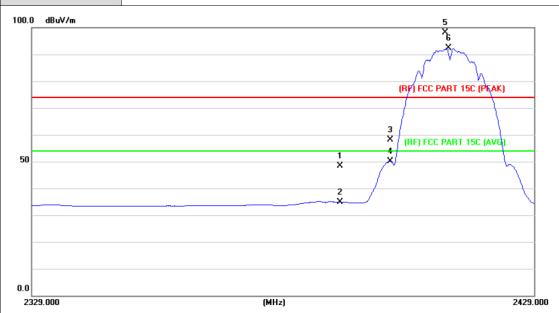




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(1) Radiation Test

EUT:	TABLET PC	Model:	M709
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		

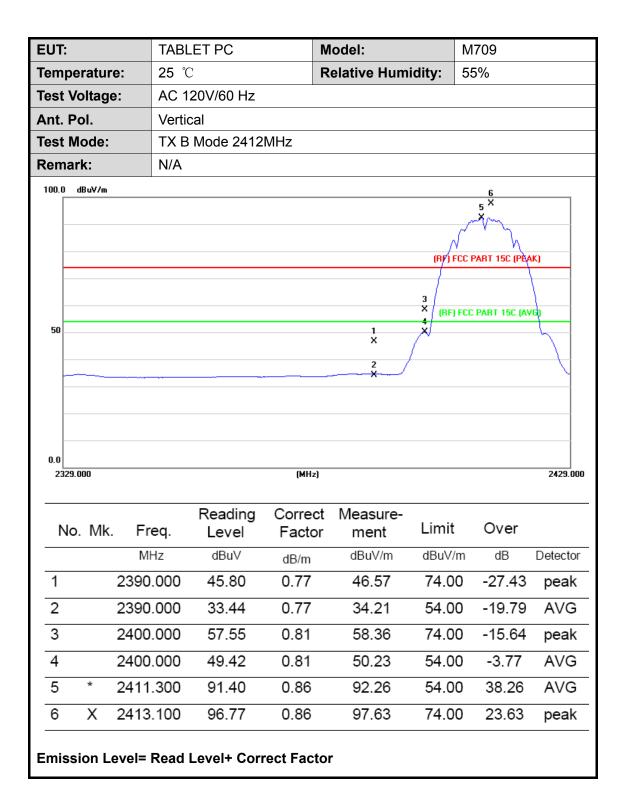


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	47.59	0.77	48.36	74.00	-25.64	peak
2		2390.000	34.12	0.77	34.89	54.00	-19.11	AVG
3		2400.000	57.23	0.81	58.04	74.00	-15.96	peak
4		2400.000	49.26	0.81	50.07	54.00	-3.93	AVG
5	Χ	2411.000	97.24	0.86	98.10	74.00	24.10	peak
6	*	2411.800	91.55	0.86	92.41	54.00	38.41	AVG

Emission Level= Read Level+ Correct Factor



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EUT: TABLET PC Model: M709 Temperature: 25 ℃ **Relative Humidity:** 55% **Test Voltage:** AC 120V/60 Hz Ant. Pol. Horizontal **Test Mode:** TX B Mode 2462MHz Remark: N/A 100.0 dBuV/m 1 × (RF) FCC PART 15C (PEAK) (RF) FCC PART 15C (AVG) 50 3 3 5 X 0.0 2441.000 (MHz) 2541.000 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment dBuV MHz dBuV/m dΒ dBuV/m Detector dB/m 1 2461.200 88.92 89.99 54.00 35.99 AVG 1.07 2 2463.000 95.36 21.36 Χ 94.28 1.08 74.00 peak 3 2483.500 45.70 1.17 46.87 74.00 -27.13 peak 4 2483.500 33.51 1.17 34.68 54.00 -19.32 AVG

1.23

1.23

46.25

34.05

74.00

54.00

-27.75

-19.95

peak

AVG

Emission Level= Read Level+ Correct Factor

45.02

32.82

2500.000

2500.000

5

6



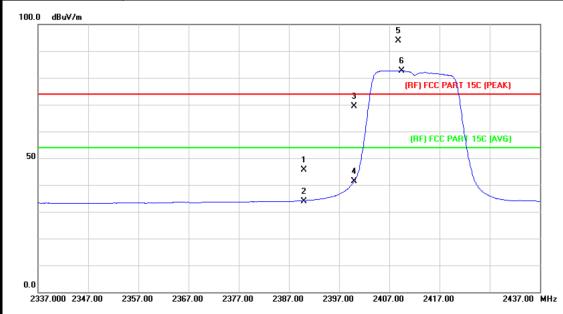
Page: 43 of 87

UT:		TABI	LET PC	M	lodel:	N	И709	
empe	rature	: 25 °C	C	R	elative Hum	idity: 5	55%	
est Vo	oltage:	AC 1	20V/60 Hz	,		,		
nt. Po	ol.	Verti	cal					
est M	lode:	TX B	3 Mode 2462	MHz				
emar	k:	N/A						
100.0	dBuV/m	2						
			7	3	5		PART 15C (PEA	
50	<i></i>			4 *	6 *			
0.0	.000			×	e ×			2541.00
0.0	.000	Freq.	Reading Level	X 4 X	e ×	Limit	Over	2541.00
0.0		Freq.	_	X 4 X (MHz)	x 6 X	Limit dBuV/m		
0.0	. Mk.		Level	(MHz) Correct Factor	X 6 X Measurement			
0.0 2441. No.	. Mk.	MHz	Level dBuV	(MHz) Correct Factor dB/m	Measure- ment	dBuV/m	dB	Detector
0.0 2441. No.	. Mk. * 2 X 2	MHz 2462.700	dBuV 89.16	(MHz) Correct Factor dB/m 1.08	Measure- ment dBuV/m	dBuV/m 54.00	dB 36.24	Detector AVG peak
0.0 2441. No.	. Mk. * 2 X 2	MHz 2462.700 2463.000	dBuV 89.16 93.17	(MHz) Correct Factor dB/m 1.08	Measure- ment dBuV/m 90.24 94.25	dBuV/m 54.00 74.00	dB 36.24 20.25	Detector AVG peak
0.0 2441. No. 1 2 3 4	. Mk. * 2 X 2	MHz 2462.700 2463.000 2483.500 2483.500	BuV 89.16 93.17 46.48 33.11	x (MHz) Correct Factor dB/m 1.08 1.08 1.17	Measure- ment dBuV/m 90.24 94.25 47.65 34.28	dBuV/m 54.00 74.00 74.00 54.00	dB 36.24 20.25 -26.35 -19.72	Detector AVG peak peak AVG
0.0 2441. No.	. Mk.	MHz 2462.700 2463.000 2483.500	dBuV 89.16 93.17 46.48	(MHz) Correct Factor dB/m 1.08 1.08	Measure- ment dBuV/m 90.24 94.25 47.65	dBuV/m 54.00 74.00 74.00	dB 36.24 20.25 -26.35	Detector AVG peak peak



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EUT:	TABLET PC	Model:	M709
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



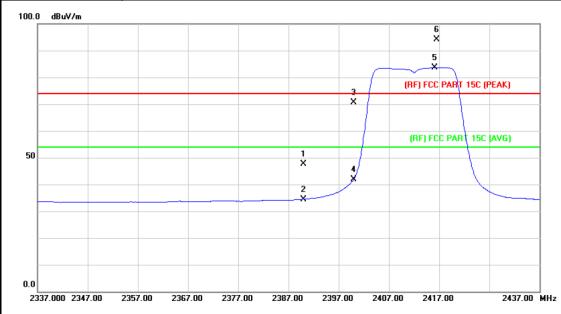
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.90	0.77	45.67	74.00	-28.33	peak
2		2390.000	33.23	0.77	34.00	54.00	-20.00	AVG
3		2400.000	68.47	0.81	69.28	74.00	-4.72	peak
4		2400.000	40.62	0.81	41.43	54.00	-12.57	AVG
5	Χ	2408.800	93.11	0.85	93.96	74.00	19.96	peak
6	*	2409.500	81.83	0.85	82.68	54.00	28.68	AVG

Emission Level= Read Level+ Correct Factor



45 of 87 Page:

EUT:	TABLET PC	Model:	M709
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.			•		Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.78	0.77	47.55	74.00	-26.45	peak
2		2390.000	33.49	0.77	34.26	54.00	-19.74	AVG
3		2400.000	69.84	0.81	70.65	74.00	-3.35	peak
4		2400.000	41.08	0.81	41.89	54.00	-12.11	AVG
5	*	2416.200	82.80	0.88	83.68	54.00	29.68	AVG
6	Χ	2416.600	93.37	0.88	94.25	74.00	20.25	peak

Emission Level= Read Level+ Correct Factor



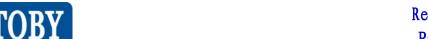
Page: 46 of 87

			TABLET PC			Мс	del:			M709					
empe	rature) :	25 ℃				Re	lativ	e Hum	idity:	55	5%			
est Vo	oltage	:	AC 12	:0V/6	60 Hz										
nt. P	ol.		Horizo	ntal											
est M	lode:		TX G	Mod	e 2462l	MHz									
emar	k:	rk: N/A													
100.0	dBuV/m														
			1 X												
			2 X												
										(RF)	FCC F	PART 15C (PEA	K)		
		-+			1										
		-			\rightarrow					(RF) FCC	PART 15C (AV	G)		
50						3 X			5						
					-	4			6 X						
-						×	-		×		_				
0.0															
	.000 2448	3.00	2458.00	2468.	00 2478	3.00 248	88.00	249	B.00 2	508.00	2518.	00	2538.00 I	MHz	
NI.	- N/II-	_			ading	Corre			asure-	Limi	+	Over			
INC	o. Mk		req.		evel	Fact			ent				<u> </u>		
			ИНZ		BuV	dB/m			uV/m	dBuV		dB	Detect		
1	Х	245	8.700	9	1.55	1.06	j 	92	2.61	74.0)0	18.61	pea	k	
2	*	2459	9.500	80	0.46	1.06	; 	8	1.52	54.0	00	27.52	AV	3	
3		2483	3.500	4	5.81	1.17	,	4	6.98	74.0	00	-27.02	pea	k	
4		2483	3.500	32	2.96	1.17	,	34	4.13	54.0	00	-19.87	AVO	3	
5		2500	0.000	4	4.74	1.23	}	4	5.97	74.0	00	-28.03	pea	k	
6		2500	0.000	32	2.68	1.23	}	3	3.91	54.0	00	-20.09	AVO	3	



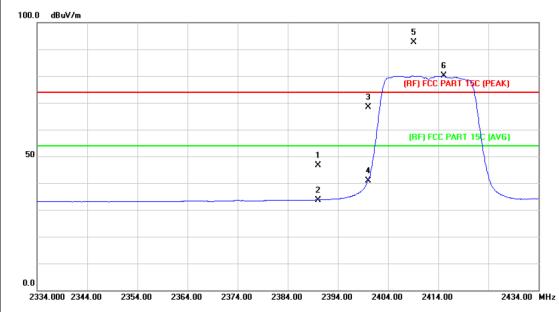
Report No.: TB-FCC140341
Page: 47 of 87

EUT:	TABLET	PC		Model:			M709	
Temperature:	25 ℃			Relativ	e Hum	idity:	55%	
Test Voltage:	AC 120V	/60 Hz						
Ant. Pol.	Vertical							
Test Mode:	TX G Mo	de 2462	MHz					
Remark:	N/A							
100.0 dBuV/m	ı ×							
	2							
	×							
						(RF) FC	PART 15C (PEAI	g
						(RF) F	CC PART 15C (AVI	G)
50			3 X		5 X			
			4					
			×		6 X			
0.0 2438.000 2448.00 2	2458.00 246	B.00 2478	B.00 2488.	00 249	8.00 25	08.00 251	8.00 2	2538.00 MHz
No. Mk. Fr		eading evel	Correct Factor		asure- ent	Limit	Over	
MI	Hz (dBuV	dB/m	dB	uV/m	dBuV/m	n dB	Detector
1 X 2458	.700 9	5.44	1.06	96	3.50	74.00	22.50	peak
2 * 2459	.500 8	3.56	1.06	84	1.62	54.00	30.62	AVG
3 2483	.500 4	6.18	1.17	47	7.35	74.00	-26.65	peak
4 2483	.500 3	4.04	1.17	35	5.21	54.00	-18.79	AVG
5 2500	.000 4	5.62	1.23	46	3.85	74.00	-27.15	peak
6 2500	.000 3	2.86	1.23	34	1.09	54.00	-19.91	AVG
Emission Level=	Poad Lov	ما+ ۲۵۳۳	oct Eact	or				



Report No.: TB-FCC140341
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EUT:	TABLET PC	M709					
Temperature:	25 °C Relative Humidity: 55%						
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2412N	ИHz					
Remark:	N/A						
100.0 dBuV/m							
			5				



No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.81	0.77	46.58	74.00	-27.42	peak
2		2390.000	32.87	0.77	33.64	54.00	-20.36	AVG
3		2400.000	67.53	0.81	68.34	74.00	-5.66	peak
4		2400.000	40.08	0.81	40.89	54.00	-13.11	AVG
5	Χ	2409.100	91.66	0.85	92.51	74.00	18.51	peak
6	*	2415.100	79.24	0.88	80.12	54.00	26.12	AVG

Emission Level= Read Level+ Correct Factor



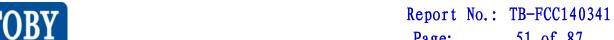
Report No.: TB-FCC140341
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JT:			TABL	ET P	C		Mo	odel:			N	1709	
mpe	rature	e:	25 ℃	2			Re	elativ	e Hu	midity	: 5	5%	
st V	oltage):	AC 1	20V/6	30 Hz								
nt. P	ol.		Vertic	al									
st M	ode:		TX N	(HT2	0) Mod	le 2412	2MHz	•					
emar	k:		N/A										
00.0	dBuV/m												
											5 X		
												6 X	
										- /	RF) FCC	PART 15C (PEA	AK)
							+			3 K			
										+	(RF) FC	C PART 15¢ (AV	/G)
50								i X					
								_	j	*			
							-	2 X					
0.0 2334.	000 234	4.00 2	2354.00	2364.	00 237	74.00 2	384.00	239	4.00	2404.00	2414	.00	2434.00 MF
No	. Mk.	Fr	eq.		ading evel	Corr Fac			asure ent		mit	Over	
			Hz		BuV	dB/i			uV/m	dB	uV/m	dB	Detector
1		2390			3.55	0.7			9.32		4.00		
2													<u> </u>
		2390			3.33	0.7			1.10		4.00	-19.90	AVG
3		2400			3.53	0.8			9.34		4.00		peak
4		2400	.000	4′	1.28	0.8	1	42	2.09	54	4.00	-11.91	AVG
5	Χ	2409	.000	93	3.27	0.8	5	94	1.12	74	4.00	20.12	peak
6	*	2417	300	8′	1.78	0.8	9	82	2.67	54	4.00	28.67	AVG



Report No.: TB-FCC140341
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EUT:			TAB	LET I	PC			M	odel:			١	<i>I</i> 709		
Temp	peratur	e:	25 °	С				Re	elativ	e Hu	midity	: 5	55%		
Test	Voltage	ə :	AC 1	120V	⁄60 H	Z									
Ant.	Pol.		Horiz	zonta	ı										
Test	Mode:		TXN	I(HT2	20) M	ode	e 2462 l	ЛΗΖ	<u>-</u>						
Rem	ark:		N/A												
100.0) dBuV/m														,
			1 X												
			2 X												
											(I	RF) FCC	PART 15C (PE	AK)	
												(RF) FC	C PART 15C (A	VG)	
50						$ar{}$	3 X			5 X					
						1	4	-		6					
							X	-		×					
0.0															
24	136.000 244	16.00	2456.00	2460	6.00	2476	6.00 24	36.00	2496	6.00	2506.00	2516	5.00	2536.00	MHz
				Re	ading	r	Corre	et	Mea	sure					
N	o. Mk.	Fre	eq.		evel	9	Facto			ent	Lin	nit	Over		
		MH	łz	d	BuV		dB/m		dΒι	ıV/m	dB	uV/m	dB	Detec	tor
1	Х	2458.	800	92	2.40		1.06		93	.46	74	.00	19.46	pea	ık
2	*	2458.	800	79	9.91		1.06		80	.97	54	.00	26.97	AV	G
3		2483.	500	4	4.19		1.17		45	.36	74	.00	-28.64	pea	ık
4		2483.	500	33	3.08		1.17		34	.25	54	.00	-19.75	AV	G
5		2500.	000	4	5.64		1.23		46	.87	74	.00	-27.13	pea	ık
6		2500.	000	32	2.46		1.23		33	.69	54	.00	-20.31	AV	G
Emis	ssion L	evel=	Read	Leve	el+ C	orr	ect Fac	tor							



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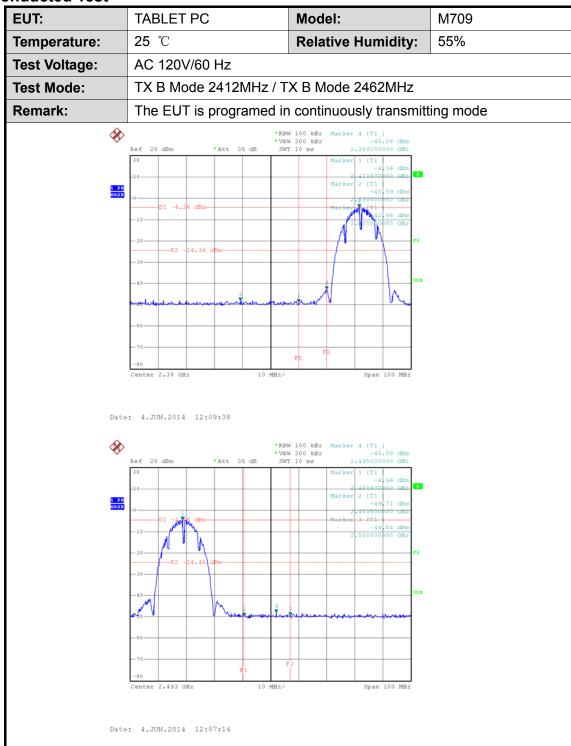
emperature:	25 ℃						
	25 0		F	Relative Hum	nidity:	55%	
est Voltage:	AC 12	20V/60 Hz					
nt. Pol.	Vertic	al					
est Mode:	TX N	(HT20) Mod	e 2462MH	łz			
emark:	N/A						
100.0 dBuV/m	1						
	×						
		2 X					
					(RF) F	CC PART 15C (PEA	K)
					(BF)	FCC PART 15C (AV	G)
50			3 X	5 X	()		-,
			4 ×	- ×		 	
2436.000 2446.00	2456.00	2466.00 247	6.00 248 6.0	00 2496.00 2	506.00 2	516.00	2536.00 MHz
	_	Reading	Correct		l innit	Over	
No. Mk.	Freq.	Level	Factor		Limit		
	MHz	dBuV	dB/m	dBuV/m	dBuV/		Detector
	458.700	95.32	1.06	96.38	74.0	0 22.38	peak
2 * 24	465.200	82.55	1.09	83.64	54.0	0 29.64	AVG
3 24	483.500	48.68	1.17	49.85	74.0	0 -24.15	peak
4 24	483.500	33.70	1.17	34.87	54.0	0 -19.13	AVG
5 25	500.000	46.12	1.23	47.35	74.0	0 -26.65	peak
6 25	500.000	32.54	1.23	33.77	54.0	0 -20.23	AVG

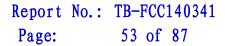




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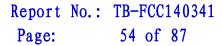
(2) Conducted Test







EUT: **TABLET PC** Model: M709 Temperature: **25** ℃ **Relative Humidity:** 55% Test Voltage: AC 120V/60 Hz TX G Mode 2412MHz / TX G Mode 2462MHz **Test Mode:** Remark: The EUT is programed in continuously transmitting mode *RBW 100 kHz Marker 4 [T1] *VBW 300 kHz -47.99 dBm SWT 10 ms 2.354800000 GHz **%** Center 2.382 GHz Date: 4.JUN.2014 12:03:46 Date: 4.JUN.2014 12:05:30





EUT: **TABLET PC** Model: M709 Temperature: **25** ℃ **Relative Humidity:** 55% Test Voltage: AC 120V/60 Hz TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz **Test Mode:** Remark: The EUT is programed in continuously transmitting mode *RBW 100 kHz *VBW 300 kHz SWT 10 ms **%** Date: 4.JUN.2014 12:01:59 Date: 4.JUN.2014 11:59:45



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6. Bandwidth Test

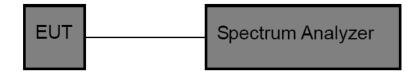
6.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (a)(2)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210							
Test Item	Test Item Limit						
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5					

6.2 Test Setup



6.3 Test Procedure

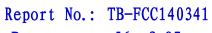
- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

6.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

6.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014





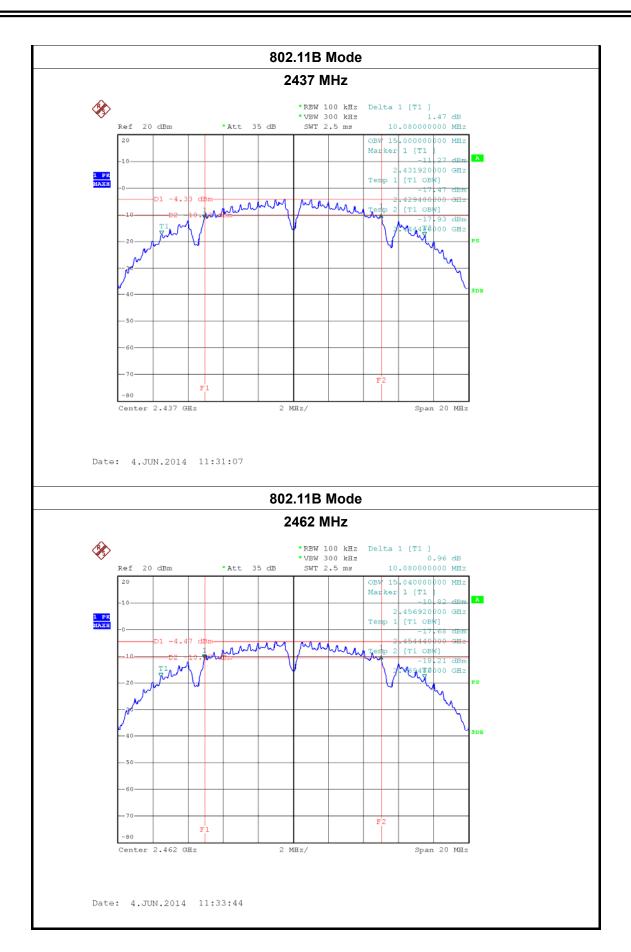
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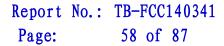
6.6 Test Data

EUT:	Table	t PC		Model:			M709
Temperature:	25 ℃			Relativ	e Humi	dity:	55%
Test Voltage:	AC 12	20V/60 Hz					
Test Mode:	TX 80	2.11B Mod	е				
Channel frequen	су	6dB Bandw	vidth	99%	Bandwi	dth	Limit
(MHz)		(MHz)			(MHz)		(MHz)
2412		10.08			15.00		
2437		10.08			15.00		>=0.5
2462		10.08			15.04		
			802.11	3 Mode			
			2412	MHz			
\$				7 100 kHz	Delta 1 [T		
Ref 2) dBm	*Att 35		7 300 kHz 7 2.5 ms		1.31 dB	z
20					OBW 15.000 Marker 1 (0000000 MH	z
-10						-11 03 dB 920000 GB	
1 PK	D1 -4.25	dBm			Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB	z
	D1 -4.25	dbm	um m	mmy	Temp 1 [T1	-11 03 dB 920000 GB	z -
	D1 -4.25	ctem-	mm		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH	m Z-
1 PF 01P-X H	D2 10	and market	un ju		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH OBW] -17 90 dB	m 2- m z
1 PF 01P-X H	D2 10	dam.	mm		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH OBW] -17 90 dB	m 2- m z
1 PF 01P-X H	D2 10	and manufacture of the second	m		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH OBW] -17 90 dB	m 2- m z
1 PF 01P-X H	D2 10	dam.	m		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH OBW] -17 90 dB	m z- m z-
1 PK 211-XII -0 -10 -20 -40 -50	D2 10	and mande	m		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH OBW] -17 90 dB	m z- m z-
1 PK SIAXB -0	D2 10	- Para Marian Manian Marian Marian Marian Marian Marian Marian Marian Marian Ma	m		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH OBW] -17 90 dB	m z- m z-
1 PK SIAXB -0	D2 10		um m		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH OBW] -17 90 dB	m z- m z-
1 PK 211XIII -0	D2 10	F1	um m		Temp 1 [T1	-11 03 dB 920000 GH OBW] -17 51 dB 400000 GH OBW] -17 90 dB	m z- m z-



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EUT: Tablet PC Model: M709

Temperature: 25 ℃ Relative Humidity: 55%

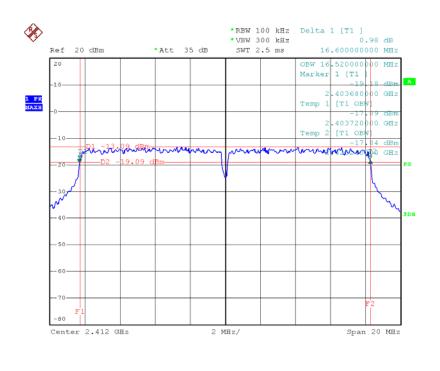
Test Voltage: AC 120V/60 Hz

Test Mode: TX 802.11G Mode

1001 1110401	TX 002.110 IMOGO						
Channel frequence	y 6dB Bandwidth	99% Bandwidth	Limit				
(MHz)	(MHz)	(MHz)	(MHz)				
2412	16.60	16.52					
2437	16.60	16.52	>=0.5				
2462	16.60	16.52					

802.11G Mode

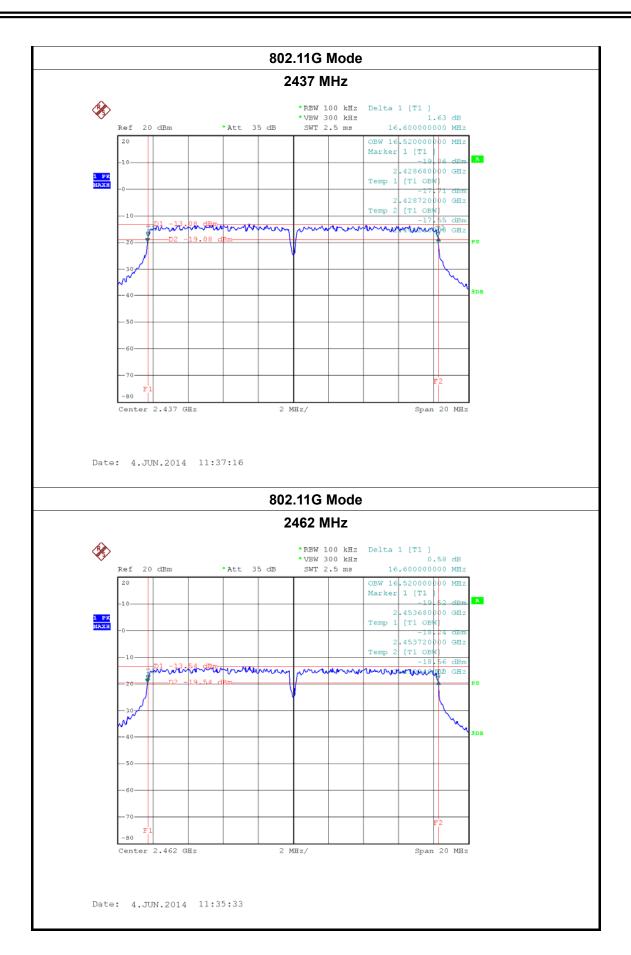
2412 MHz

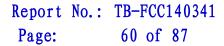


Date: 4.JUN.2014 11:38:34



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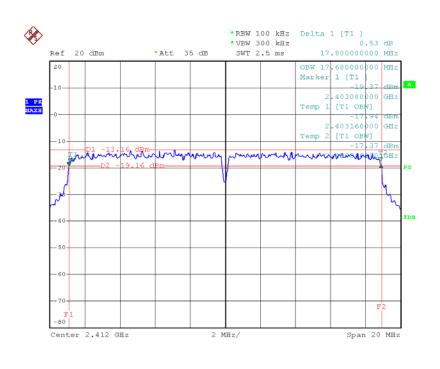


EUT:Tablet PCModel:M709Temperature:25 °CRelative Humidity:55%Test Voltage:AC 120V/60 HzTest Mode:TX 802.11N(HT20) Mode

rest wode.	17. 002.1114(11120) Wode					
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2412	17.80	17.68				
2437	17.80	17.68	>=0.5			
2462	17 80	17 72				

802.11N(HT20) Mode

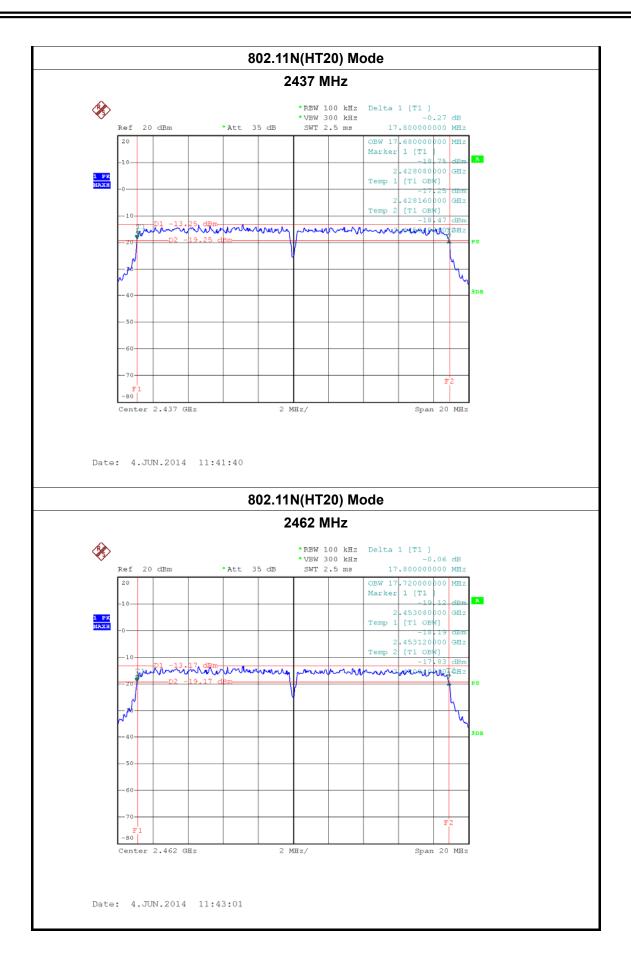
2412 MHz



Date: 4.JUN.2014 11:40:13



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7. Peak Output Power Test

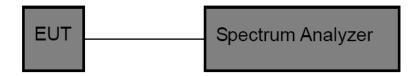
7.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (b)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210						
Test Item Limit Frequency Range(MHz						
Peak Output Power	1 Watt or 30 dBm	2400~2483.5				

7.2 Test Setup



7.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

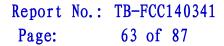
7.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

7.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014

7.6 Test Data





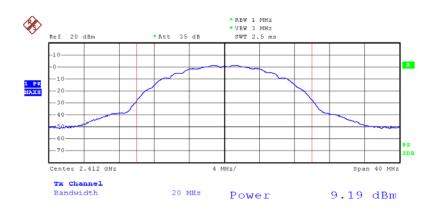
EUT:Tablet PCModel:M709Temperature:25 °CRelative Humidity:55%Test Voltage:AC 120V/60 HZ

Test Mode: TX 802.11B Mode

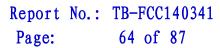
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
2412	9.19	
2437	9.23	30
2462	9.29	

802.11B Mode

2412 MHz

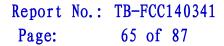


Date: 4.JUN.2014 11:07:51





802.11B Mode 2437 MHz * RBW 1 MHz * VBW 3 MHz SWT 2.5 ms * Tx Channel Bandwidth 20 MHz Power 9.23 dBm Date: 4.JUN.2014 11:09:31 802.11B Mode 2462 MHz **%** *RBW 1 MHz *VBW 3 MHz SWT 2.5 ms Span 40 MHz Center 2.462 GHz Tx Channel Bandwidth 20 MHz 9.29 dBm Power Date: 4.JUN.2014 11:10:58





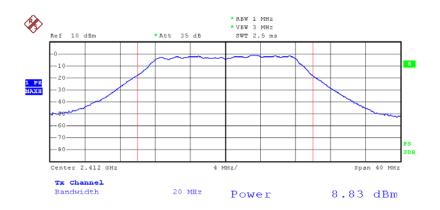
EUT:Tablet PCModel:M709Temperature:25 °CRelative Humidity:55%Test Voltage:AC 120V/60 HZ

Test Mode: TX 802.11G Mode

Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
2412	8.83	
2437	8.60	30
2462	8.98	

802.11G Mode

2412 MHz

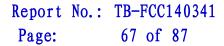


Date: 4.JUN.2014 11:23:01





802.11G Mode 2437 MHz *RBW 1 MHz *VBW 3 MHz SWT 2.5 ms **%** Ref 10 dBm 1 PK MAXH Tx Channel Bandwidth 20 MHz Power 8.60 dBm Date: 4.JUN.2014 11:26:16 802.11G Mode 2462 MHz *RBW 1 MHz *VBW 3 MHz SWT 2.5 ms Center 2.462 GHz Tx Channel Bandwidth 20 MHz Power 8.98 dBm Date: 4.JUN.2014 11:16:31





EUT: Tablet PC Model: M709

Temperature: 25 °C Relative Humidity: 55%

Test Voltage: AC 120V/60 HZ

Test Mode: TX 802.11N(HT20) Mode

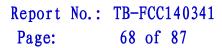
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
2412	8.71	
2437	8.76	30
2462	8.75	

802.11N(HT20) Mode

2412 MHz



Date: 4.JUN.2014 11:37:16





802.11N(HT20) Mode 2437 MHz *RBW 1 MHz *VBW 3 MHz SWT 2.5 ms **%** Ref 10 dBm 1 PK MAXH Tx Channel Bandwidth 20 MHz Power 8.76 dBm Date: 4.JUN.2014 11:41:56 802.11N(HT20) Mode 2462 MHz *RBW 1 MHz *VBW 3 MHz SWT 2.5 ms Center 2.462 GHz Tx Channel Bandwidth 20 MHz Power 8.75 dBm Date: 4.JUN.2014 11:45:01



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8. Power Spectral Density Test

8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (e)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)					
Test Item Limit Frequency Range(MHz)					
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5			

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Measure the spectral power density the spectrum analyzer was set to Resolution Bandwidth=100 kHz, and Video Bandwidth≥300 kHz, Detector: Peak, Span to 5%~30% greater than EBW, Sweep time auto.
- (3) Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a BWCF=-15.2 dB.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.

8.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014



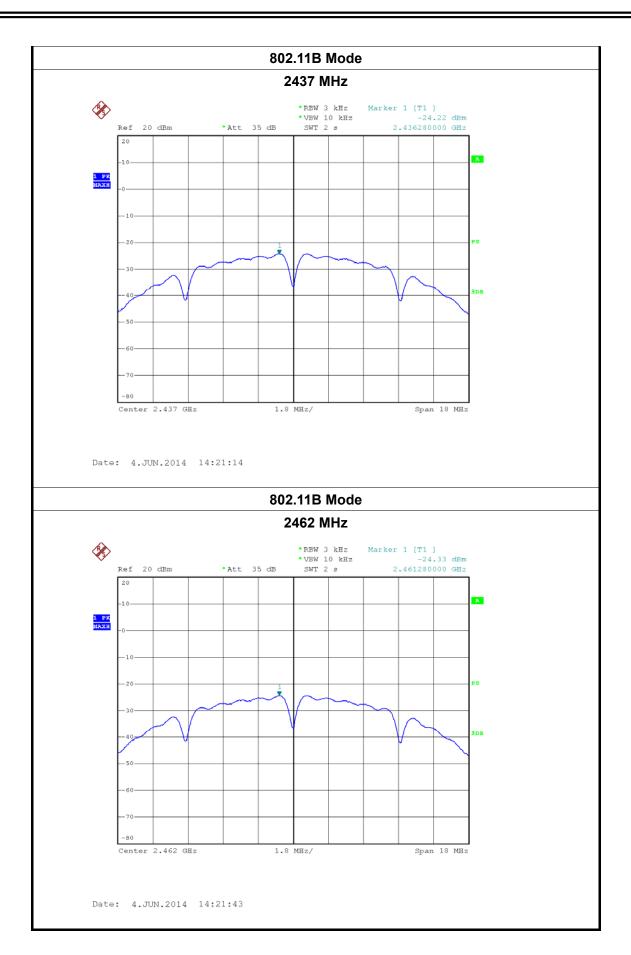
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8.6 Test Data

	Tablet	PC	Model:		M709
Temperature:	25 ℃		Relative	e Humidity:	55%
Test Voltage:	AC 12	AC 120V/60 HZ			
Test Mode:	TX 80	TX 802.11B Mode			
Channel F	nannel Frequency Pov		wer Density		Limit (dBm)
(Mł	łz)	(3	kHz/dBm)		
24	12		-24.01		
24	37		-24.22		8
24	62		-24.33		
		802	2.11B Mode	<u>.</u>	
		2	2412 MHz		
Æ.			*RBW 3 kHz M	Marker 1 [T1]	
Re	f 20 dBm	*Att 35 dB	SWT 2 s	-24.01 c	
Re 20		*Att 35 dB			3H.z
-10		*Att 35 dB			
20		*Att 35 dB			3H.z
-10		*Att 35 dB			3H.z
1 PK 11AXH -0-	0-	*Att 35 dB			3H 2
1 PK 11AXH -0-	0-	*Att 35 dB			3H.z
1 PK 11AXII -0-	0-	*Att 35 dB			9H 2
1 PK 11AXII -0-	0-	*Att 35 dB			3H 2
20 1 PV 11AXB -0-	0-	*Att 35 dB			9H 2
20 1 PV 11AXII -0-	0-	*Att 35 dB			9H 2
20 1 PV 11AXB -0-	0	*Att 35 dB			9H 2
20 1 PK 21AXII	0-	*Att 35 dB		2.411280000 (9H 2



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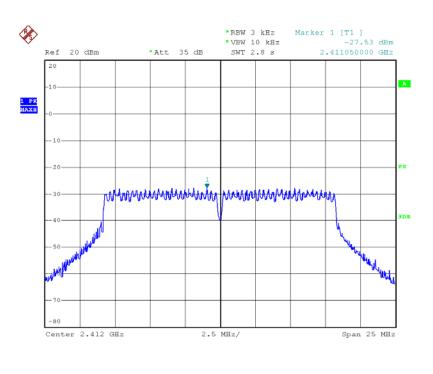
EUT:	Tablet PC	Model:	M709
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 HZ		

Test Mode: TX 802.11G Mode

Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
2412	-27.53	
2437	-27.44	8
2462	-28.03	

802.11G Mode

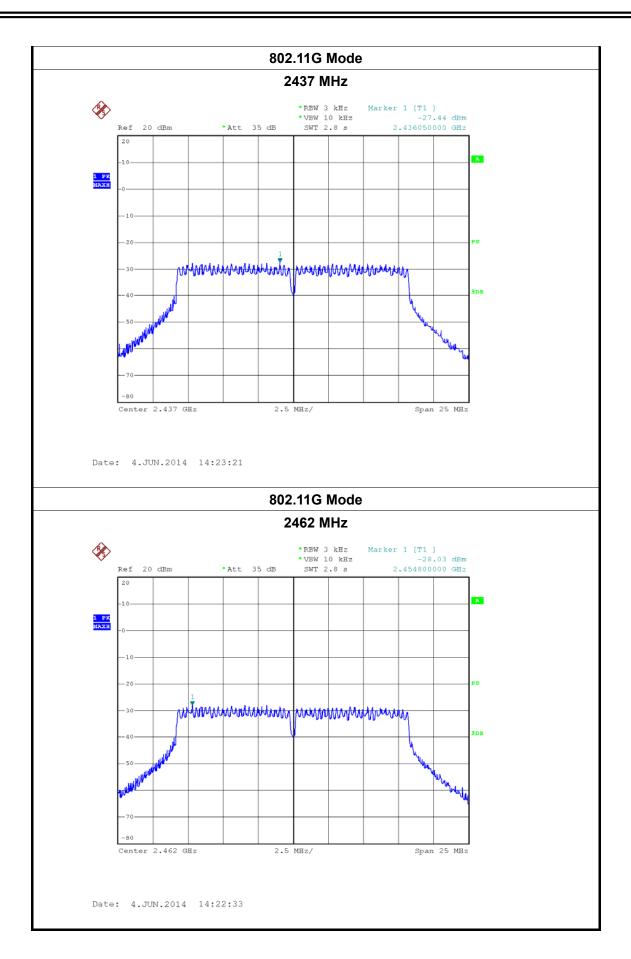
2412 MHz



Date: 4.JUN.2014 14:23:55



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EUT: Tablet PC Model: M709

Temperature: 25 °C Relative Humidity: 55%

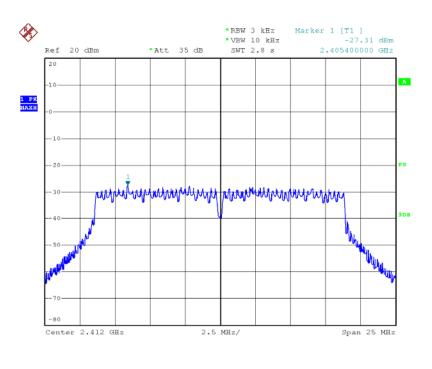
Test Voltage: AC 120V/60 HZ

Test Mode: TX 802.11N(HT20) Mode

Channel Frequency	Power Density	Limit (dBm)
(MHz)	(3 kHz/dBm)	
2412	-27.31	
2437	-27.25	8
2462	-27.02	

802.11N(HT20) Mode

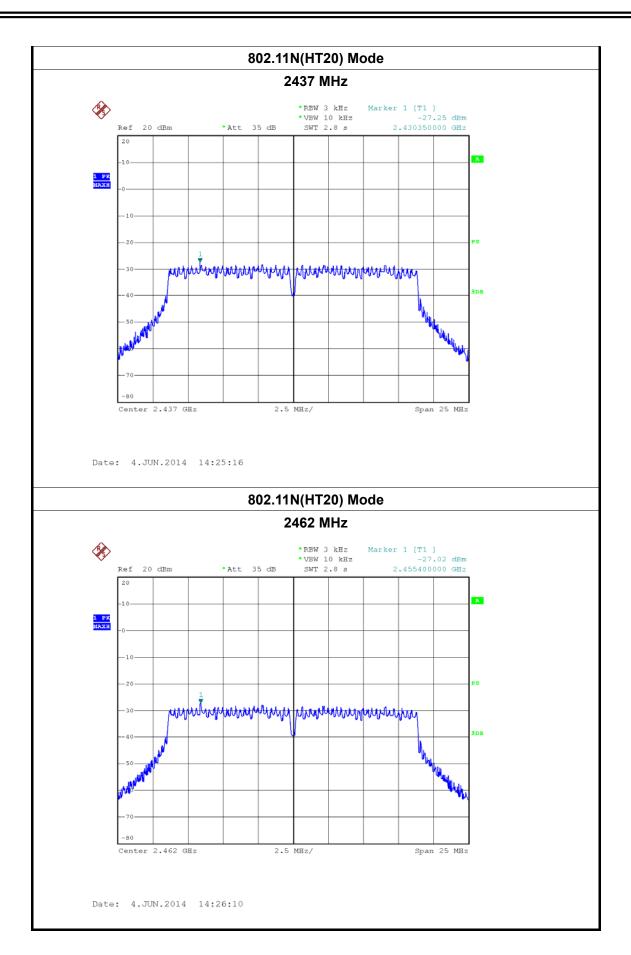
2412 MHz



Date: 4.JUN.2014 14:24:32



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9. Antenna Conducted Spurious Emission

9.1 Test Standard and Limit

10.1.1 Test Standard FCC Part 15.247 (d)

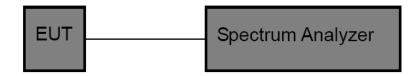
10.1.2 Test Limit

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. 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 (microvolt/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	

(2)If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

9.2 Test Setup



9.3 Test Procedure

(1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.



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(2) Spectrum Setting:

RBW=100 KHz, VBW=300 KHz.

Frequency range: from 30MHz to 26.5 GHz.

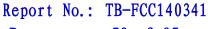
9.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

9.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum	Agilopt		MX/4540C45C	Mar. 20, 2014	Mar. 19. 2015
Analyzer	Agilent	E4407B	MY45106456	Mai. 20, 2014	Mai. 19, 2015

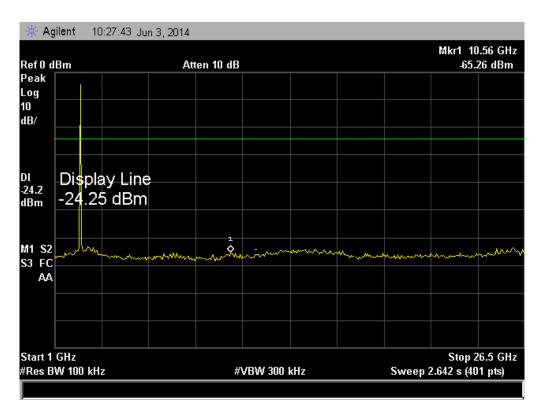
9.6 Test Data



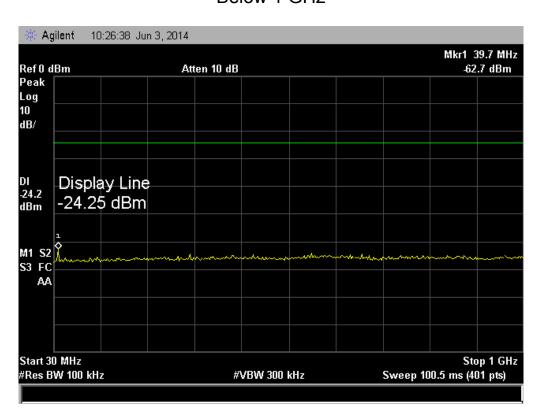


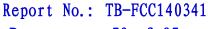
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802.11b Mode TX CH 01 2412MHz



Below 1 GHz

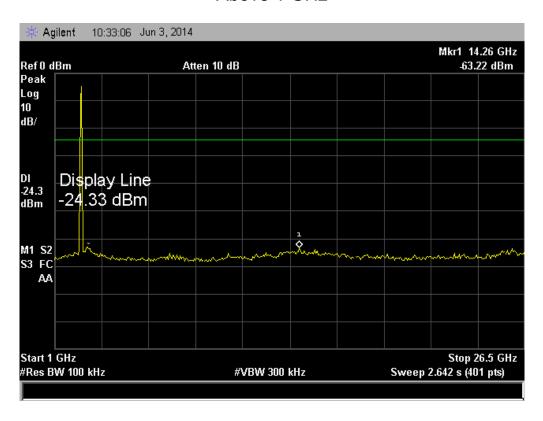




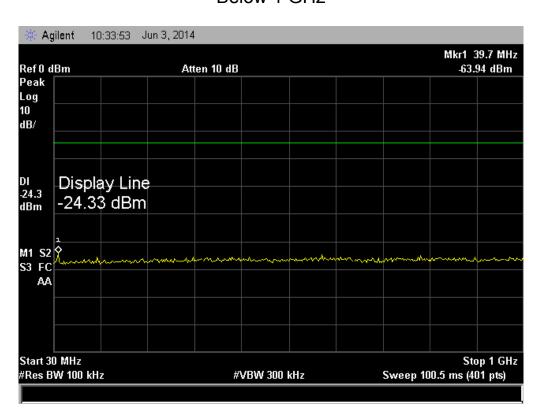


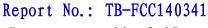
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802.11b Mode TX CH 06 2437MHz



Below 1 GHz



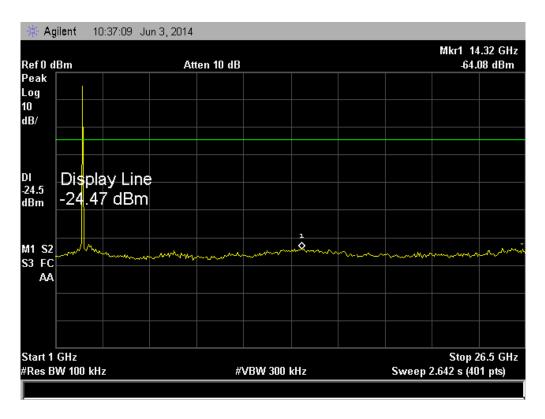




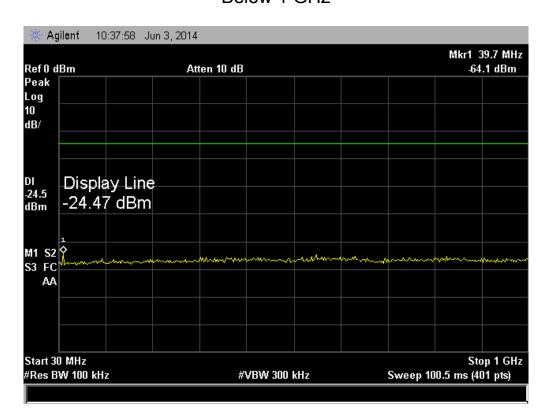
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802.11b Mode

TX CH 11 2462MHz



Below 1 GHz

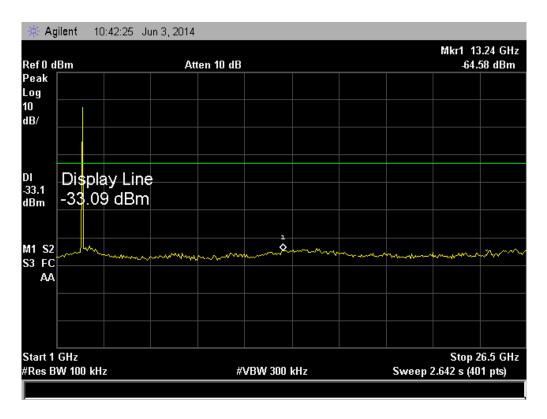




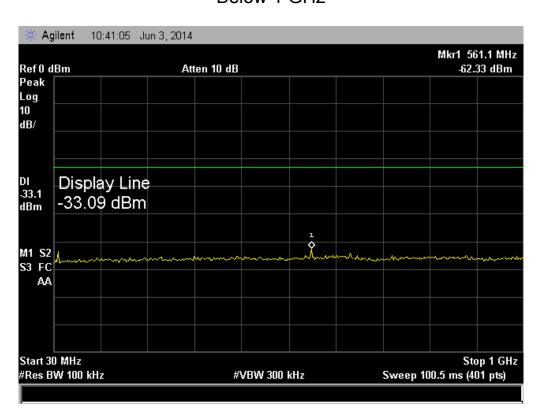


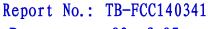
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802.11g Mode TX CH 01 2412MHz



Below 1 GHz

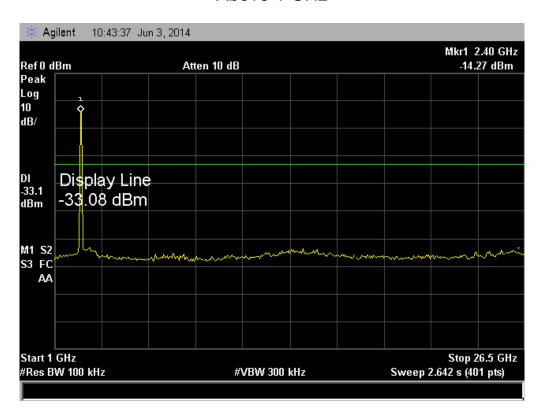




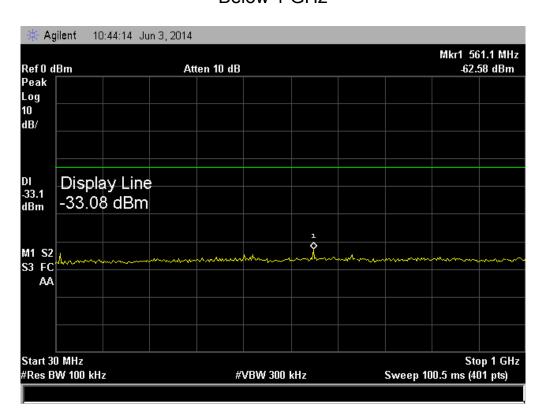


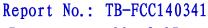
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802.11g Mode TX CH 06 2437MHz



Below 1 GHz



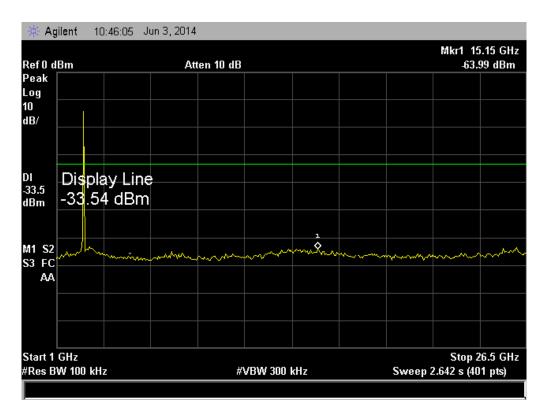




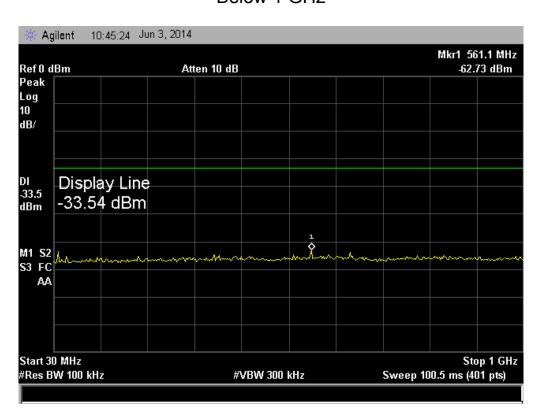
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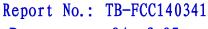
802.11g Mode

TX CH 11 2462MHz



Below 1 GHz

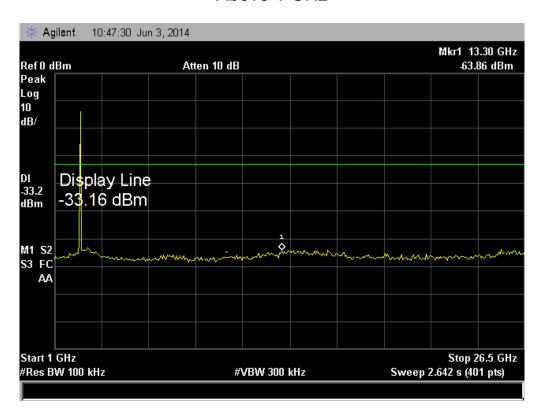




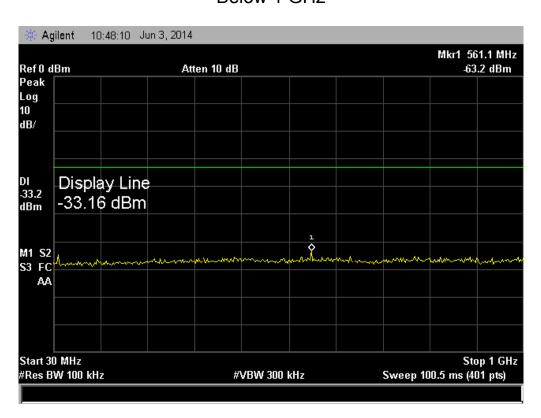


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802.11n (HT20) Mode TX CH 01 2412MHz



Below 1 GHz

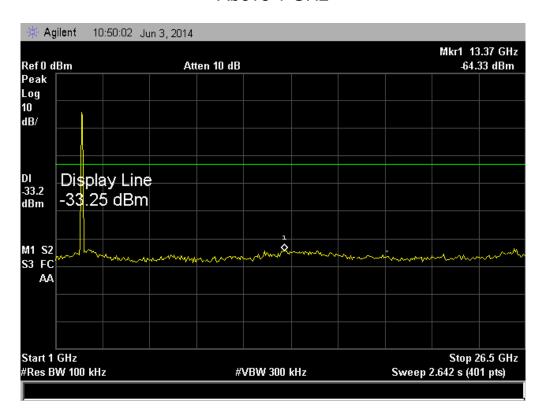




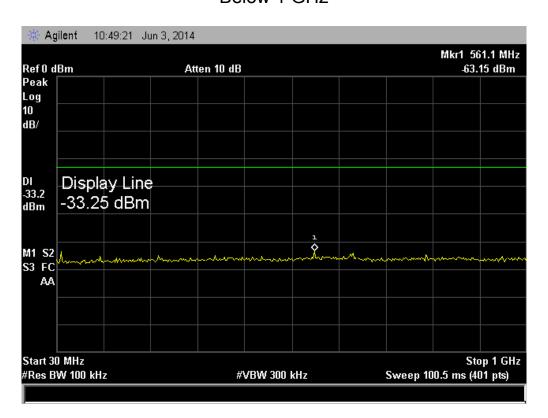


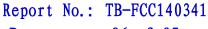
802.11n (HT20) Mode

TX CH 06 2437MHz



Below 1 GHz



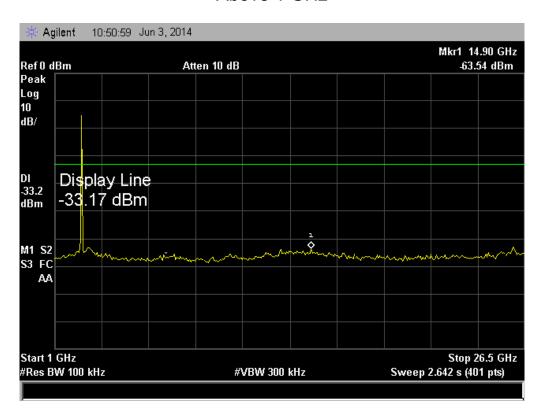




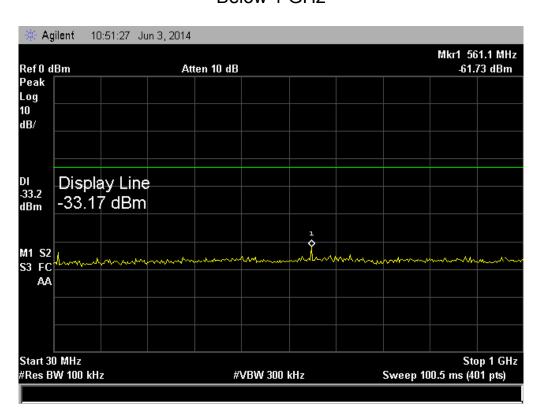
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802.11n (HT20) Mode

TX CH 11 2462MHz



Below 1 GHz





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10. Antenna Requirement

10.1 Standard Requirement

11.1.1 Standard

FCC Part 15.203

11.1.2 Requirement

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

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 0dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

10.2 Result

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