FCC Part 15C Measurement and Test Report

Model: 777033201

For

Applied Medical Resources Corporation

22872 Avenida Empresa, Rancho Santa Margarita, CA 92688, U.S.A.

FCC ID: 2ABCX777033201

FCC Rule(s): FCC Part 15C

Product Description: <u>Tablet Computer</u>

Tested Model: <u>777033201</u>

Report No.: <u>STR13108300I-1</u>

Tested Date: <u>2013-10-31 to 2013-11-22</u>

Issued Date: 2013-12-04

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Applied Medical Resources Corporation

Address of applicant: 22872 Avenida Empresa, Rancho Santa Margarita,

CA 92688, U.S.A.

Manufacturer: VJ Electronics & Manufactory Limited

Address of manufacturer: 18 Tong De Road, Chang Hu Wei Village, Tong Le,

Longgang District, Shenzhen, China PRC

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General Description of EUT	
Product Name:	Tablet Computer
Trade Name:	/
Model No.:	777033201
Adding Model(s):	/
Rated Voltage:	Adapter: DC 5V Battery: DC 7.4V
	•
Note: The test data is gathered fro	m a production sample provided by the manufacturer.

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2472MHz
RF Output Power:	9.10 dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	13
Channel Separation:	5MHz
Type of Antenna:	PCB
Antenna Gain:	0dBi
Lowest Internal Frequency	32.768kHz

1.2 Test Standards

The following report is prepared on behalf of the Applied Medical Resources Corporation in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules

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The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The public notice KDB 558074 D01 V03 for digital transmission systems shall be performed also.

1.4 Test Facility

FCC - Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM. Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

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Test Mode List			
Test Mode	Description	Remark	
TM1	802.11b	2412MHz, 2442MHz, 2472MHz	
TM2	802.11g	2412MHz, 2442MHz, 2472MHz	
TM3	802.11n-HT20	2412MHz, 2442MHz, 2472MHz	

EUT Cable List and Details						
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite						
/	/	/	/			

Special Cable List and Details						
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite						
HDMI Cable	2.0	Unshielded	Without Ferrite			
USB Cable	1.0	Unshielded	Without Ferrite			

Auxiliary Equipment List and Details					
Description Manufacturer Model Serial Number					
Display	Display DELL		Q40G18N-700-1B ZA		
Notebook	Lenovo	20007	EB12648265		

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2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.247(e)	Power Spectral Density Complia	
§ 15.247(a)(2)	6 dB Bandwidth Complian	
§ 15.247(b)(3)	RF Output Power	Compliant
§ 15.209(a)	Radiated Emission Compl	
§ 15.247(d)	Band Edge (Out of Band Emissions) Compliant	

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N/A: not applicable

3. RF Exposure

3.1 Standard Applicable

According to \S 1.1307 and \S 2.1093, the portable transmitter must comply the RF exposure requirements.

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3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.

4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 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. 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.

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4.2 Evaluation Information

This product has a PCB antenna, fulfill the requirement of this section.

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5. Power Spectral Density

5.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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5.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

5.3 Test Procedure

According to the KDB 558074 D01 V03, the test method of power spectral density as below:

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

5.4 Environmental Conditions

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

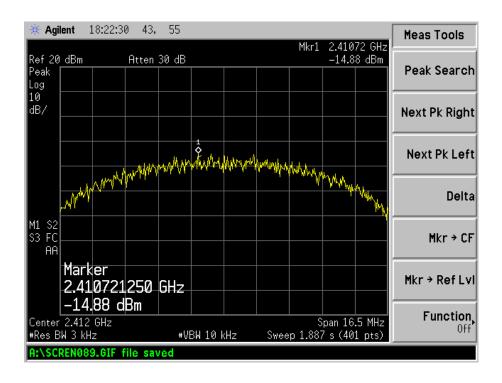
5.5 Summary of Test Results/Plots

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2412	-14.88	8
802.11b	2442	-16.30	8
	2472	-17.04	8
	2412	-22.59	8
802.11g	2442	-23.45	8
	2472	-24.88	8
	2412	-23.11	8
802.11n HT20	2442	-23.89	8
	2472	-24.79	8

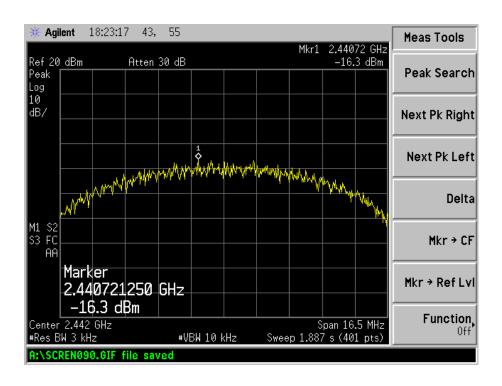
Model: 777033201

Please refer to the following test plots:

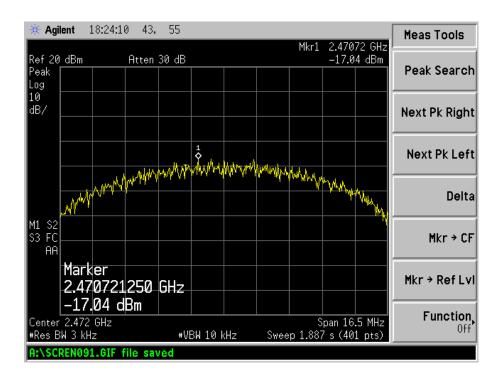
802.11b-Low Channel



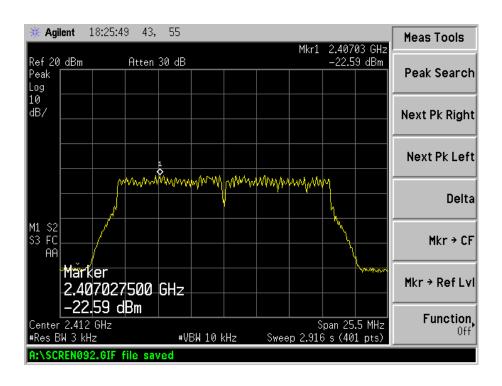
802.11b-Middle Channel



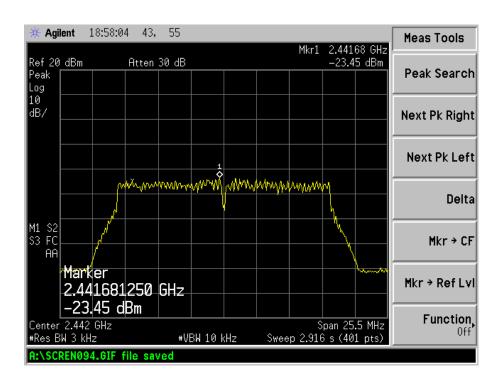
802.11b-High Channel



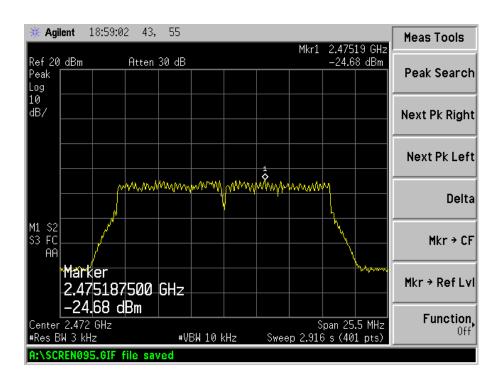
802.11g-Low Channel



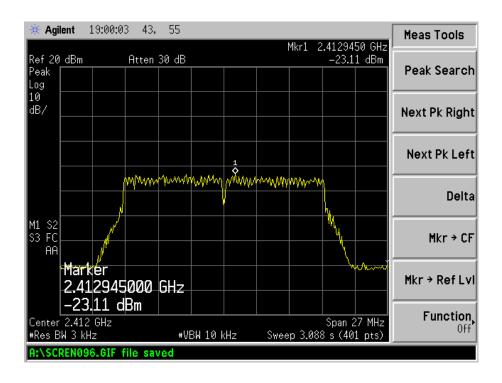
802.11g-Middle Channel



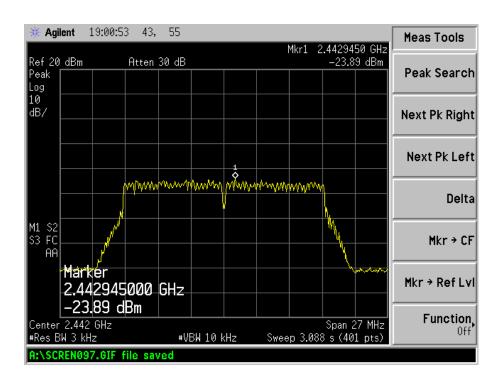
802.11g-High Channel



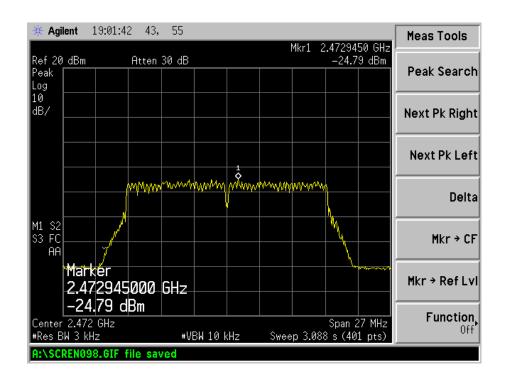
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

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6.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

6.3 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 3. Set the video bandwidth (VBW) \geq 3 x RBW.
- 4. Detector = Peak.
- 5. Trace mode = \max hold.
- 6. Sweep = auto couple.
- 7. Allow the trace to stabilize.
- 8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission..

6.4 Environmental Conditions

Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

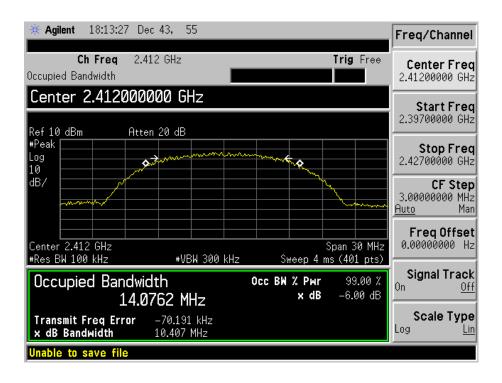
6.5 Summary of Test Results/Plots

Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz
	2412	10407.0	14076.2	500
802.11b	2442	10389.0	14093.3	500
	2472	10389.0	14074.6	500
	2412	16558.0	16514.5	500
802.11g	2442	16605.0	16523.3	500
	2472	16580.0	16477.1	500
	2412	16608.0	16469.9	500
802.11n-HT20	2442	16584.0	16455.1	500
	2472	16563.0	16469.1	500

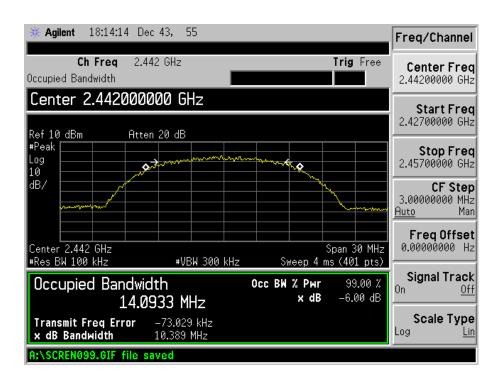
Model: 777033201

Please refer to the following test plots:

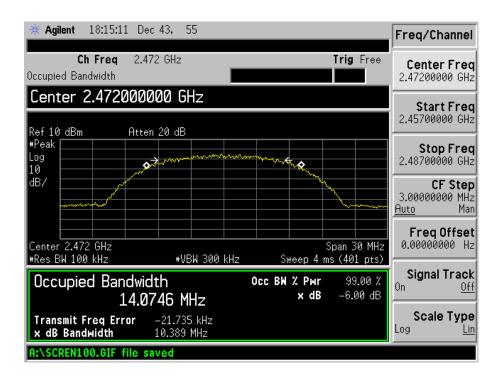
802.11b-Low Channel



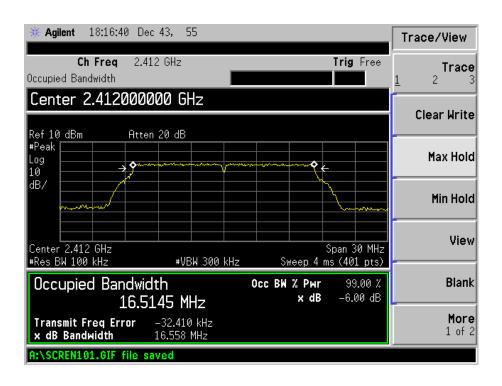
802.11b-Middle Channel



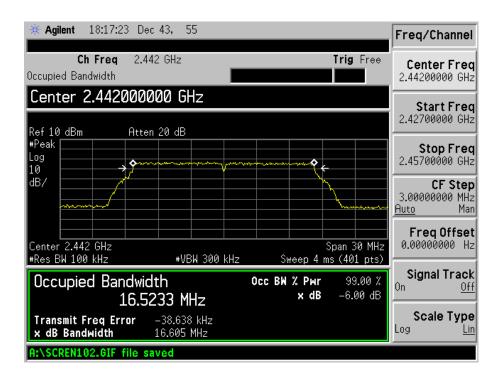
802.11b-High Channel



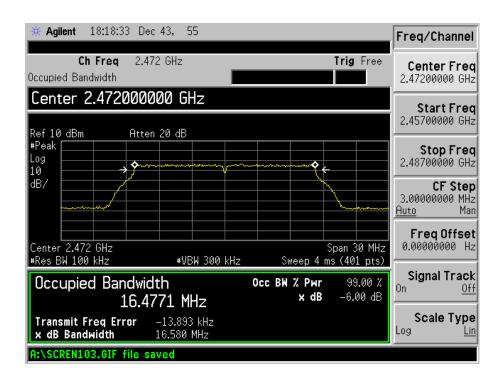
802.11g-Low Channel



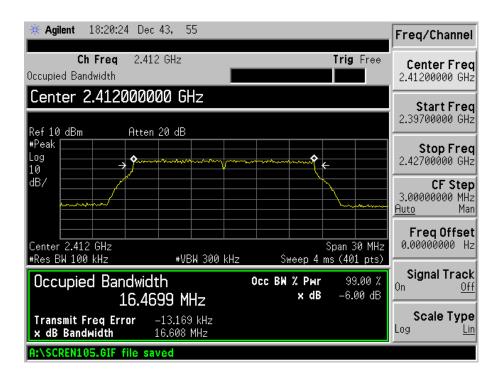
802.11g-Middle Channel



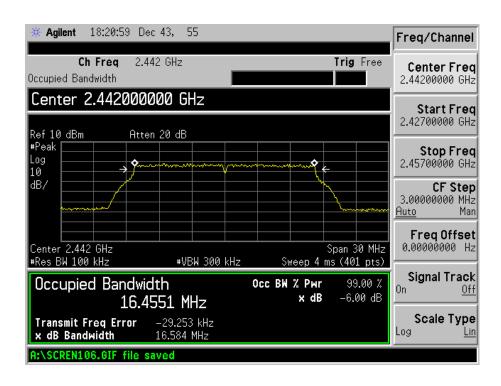
802.11g-High Channel



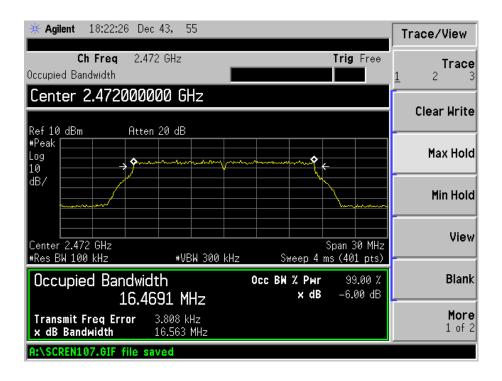
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



7. RF Output Power

7.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

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7.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

7.3 Test Procedure

According to section 15.247(b)-power output of the KDB-558074 D01 V03 (2013), 8.1.2 Option 2 (channel integration method) this procedure should only be used when the maximum available RBW of the spectrum/signal analyzer is less than the DTS bandwidth.

- 1. Set the RBW = maximum available (at least 1 MHz).
- 2. Set the VBW = $3 \times RBW$ or maximum available setting (must be $\geq RBW$).
- 3. Set the span to fully encompass the DTS bandwidth.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some analyzers, this may require a manual override to ensure use of peak detector).

7.4 Environmental Conditions

Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

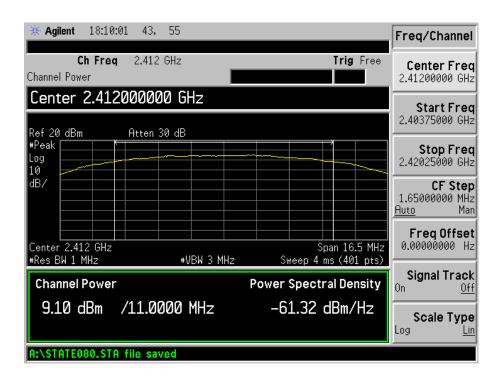
7.5 Summary of Test Results/Plots

Test Mode	Frequency	Reading	Output Power	Limit
Test Mode	MHz	dBm	mW	mW
	2412	9.10	8.13	1000
802.11b _ 11Mbps	2442	8.73	7.46	1000
	2472	8.75	7.50	1000
	2412	8.67	7.36	1000
802.11g_54Mbps	2442	7.82	6.05	1000
	2472	7.71	5.90	1000
	2412	8.98	7.91	1000
802.11n HT20_MCS7	2442	8.27	6.71	1000
	2472	7.49	5.61	1000

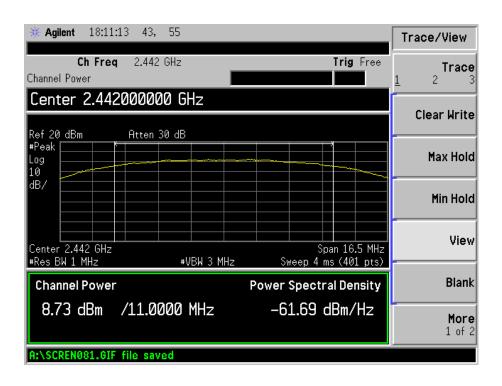
Model: 777033201

Please refer to the following test plots:

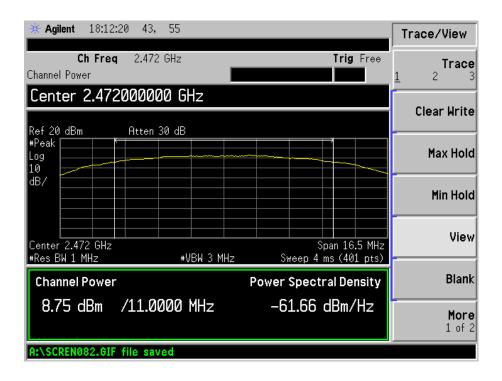
802.11-11Mbps-Low Channel



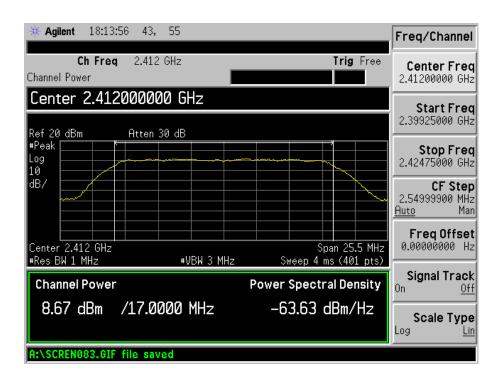
802.11b -11Mbps-Middle Channel



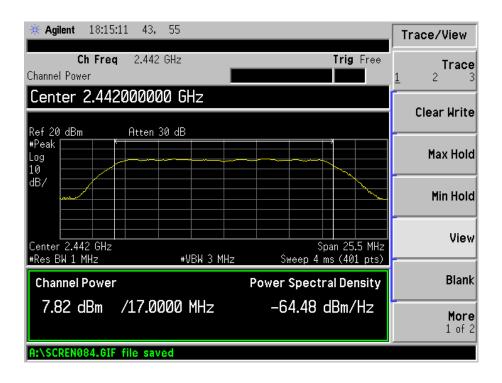
802.11b -11Mpbs-High Channel



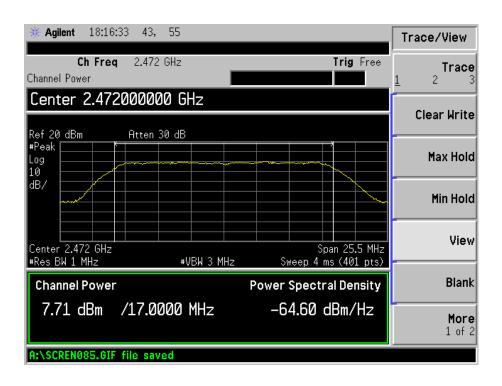
802.11g-54Mbps-Low Channel



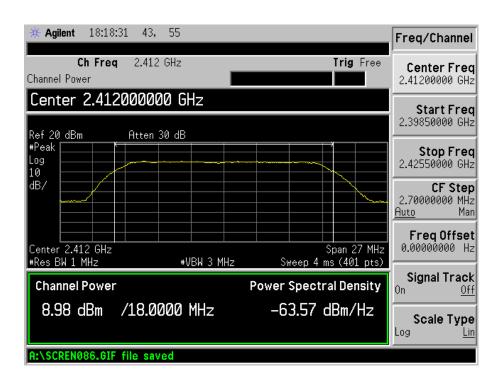
802.11g-54Mbps-Middle Channel



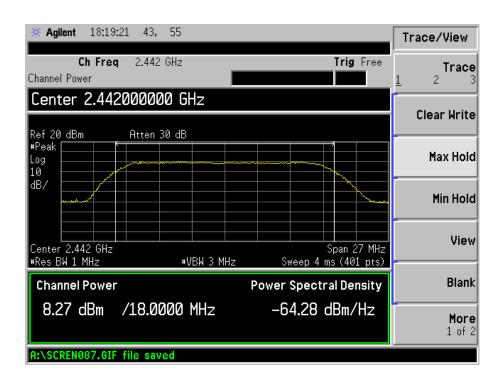
802.11g-54Mpbs-High Channel



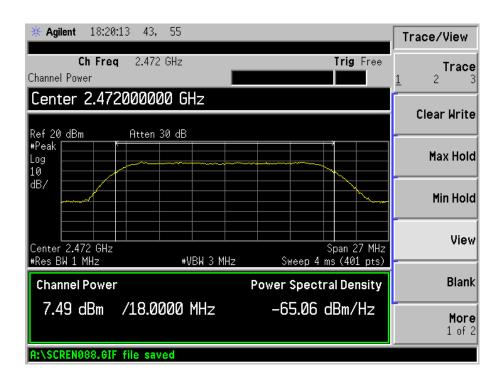
802.11n-HT20-MCS7-Low Channel



802.11n-HT20-MCS7-Middle Channel



802.11n-HT20-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is +5.10 dB.

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8.2 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07	2014-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2013-04-20	2014-04-19
Horn Antenna	ETS	3117	00086197	2013-04-20	2014-04-19
Horn Antenna	ETS	3116B	00088203	2013-04-20	2014-04-19
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2013-04-20	2014-04-19

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8.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



Frequency:9kHz-30MHz	Frequency:30MHz-1GHz	Frequency: Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	$Trace = \max hold$
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit for Class B. The equation for margin calculation is as follows:

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8.6 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

8.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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Plot of Radiated Emissions Test Data (30MHz to 1GHz)

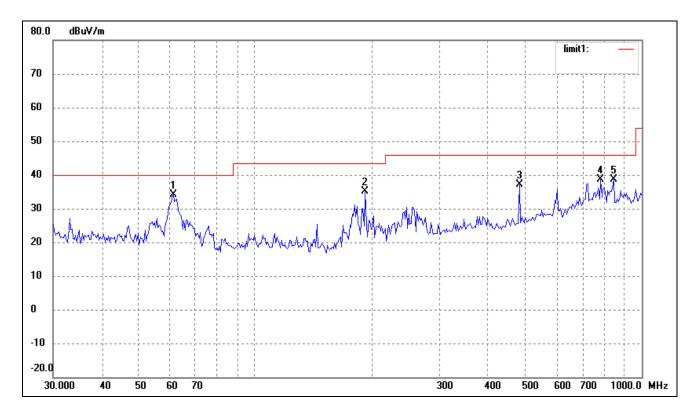
EUT: Tablet Computer

Tested Model: 777033201

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

Comment: DC 7.4V

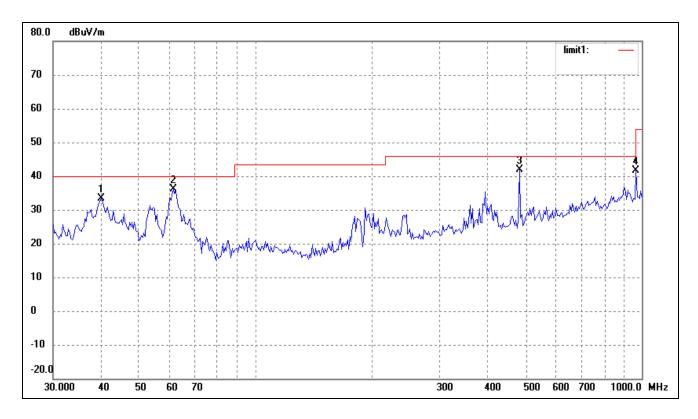
Test Specification: Horizontal



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	61.3463	28.98	5.27	34.25	40.00	-5.75	152	100	peak
2	192.4186	30.76	4.31	35.07	43.50	-8.43	145	100	peak
3	482.2156	25.65	11.49	37.14	46.00	-8.86	168	100	peak
4	782.3453	22.86	15.81	38.67	46.00	-7.33	175	100	peak
5	845.0878	21.29	17.45	38.74	46.00	-7.26	250	100	peak

Test Specification: Vertical

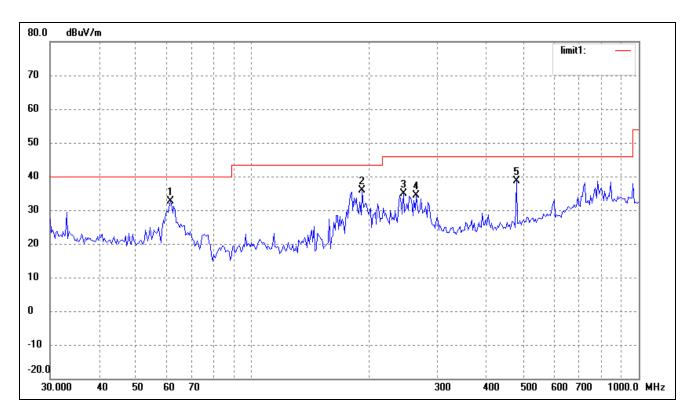


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	39.9942	23.69	9.68	33.37	40.00	-6.63	163	100	peak
2	61.3463	30.83	5.27	36.10	40.00	-3.90	155	100	peak
3	482.2156	30.42	11.49	41.91	46.00	-4.09	186	100	peak
4	965.5421	23.20	18.37	41.57	54.00	-12.43	142	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2442MHz

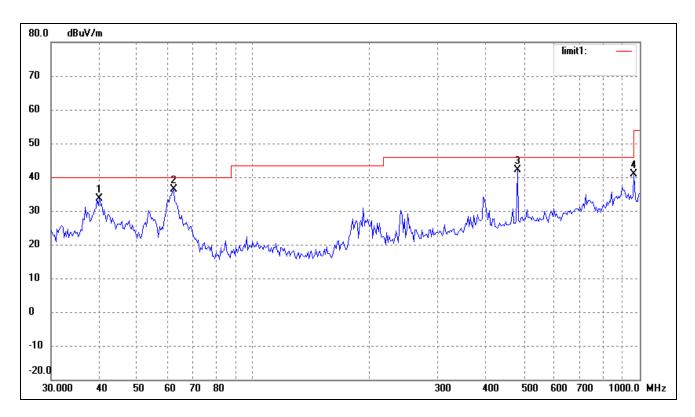
Comment: DC 7.4V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	61.3463	27.31	5.27	32.58	40.00	-7.42	102	100	peak
2	192.4186	31.46	4.31	35.77	43.50	-7.73	135	100	peak
3	245.9509	27.64	7.17	34.81	46.00	-11.19	142	100	peak
4	265.6757	26.34	8.15	34.49	46.00	-11.51	165	100	peak
5	482.2156	27.06	11.49	38.55	46.00	-7.45	187	100	peak

Test Specification: Vertical

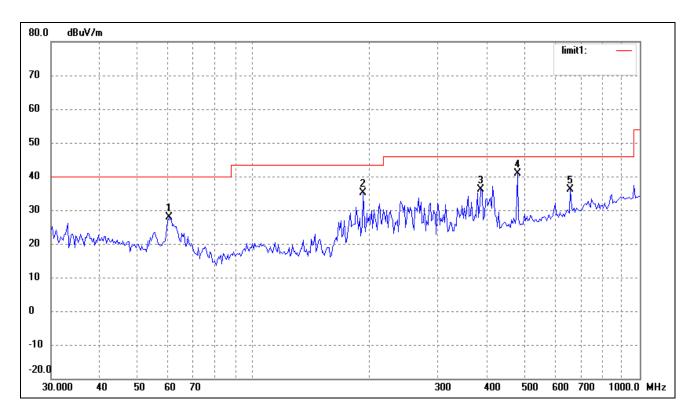


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	39.9942	23.92	9.68	33.60	40.00	-6.40	168	100	peak
2	62.2128	31.41	4.99	36.40	40.00	-3.60	152	100	peak
3	482.2156	30.56	11.49	42.05	46.00	-3.95	143	100	peak
4	965.5421	22.47	18.37	40.84	54.00	-13.16	250	100	peak

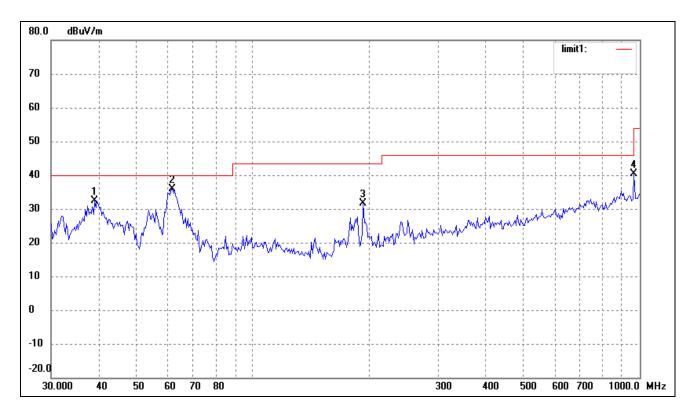
Operating Condition: 802.11b Transmitting High Channel-2472MHz

Comment: DC 7.4V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	60.4919	22.23	5.53	27.76	40.00	-12.24	136	100	peak
2	192.4186	30.79	4.31	35.10	43.50	-8.40	250	100	peak
3	387.9920	25.12	10.99	36.11	46.00	-9.89	145	100	peak
4	482.2156	29.28	11.49	40.77	46.00	-5.23	178	100	peak
5	661.1505	21.27	14.80	36.07	46.00	-9.93	185	100	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	38.8879	22.95	9.50	32.45	40.00	-7.55	145	100	peak
2	61.7781	30.81	5.13	35.94	40.00	-4.06	120	100	peak
3	192.4186	27.26	4.31	31.57	43.50	-11.93	122	100	peak
4	965.5421	21.96	18.37	40.33	54.00	-13.67	132	100	peak

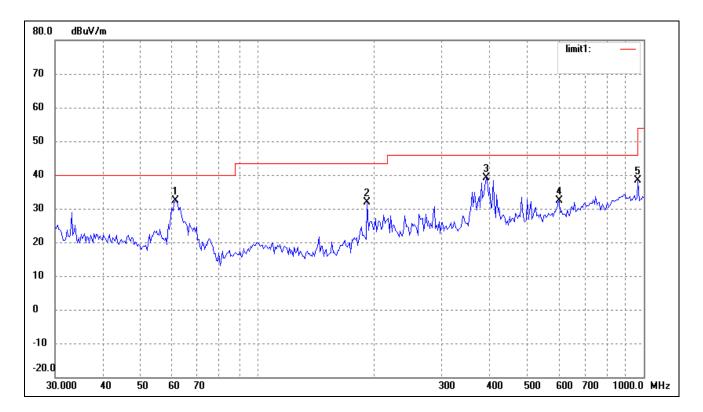
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Tablet Computer
Tested Model: 777033201

Operating Condition: 802.11g Transmitting Low Channel-2412MHz

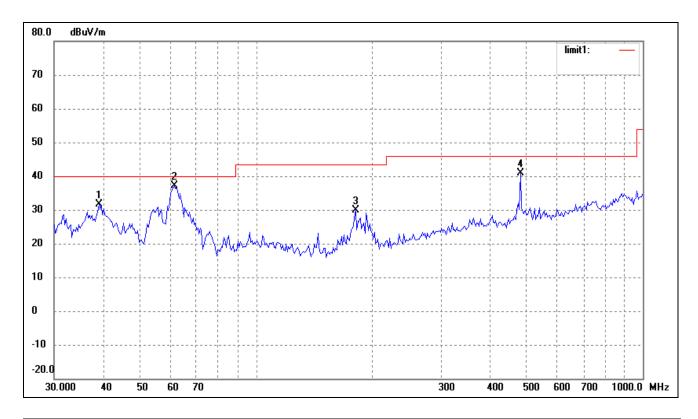
Comment: DC 7.4V

Test Specification: Horizontal



Model: 777033201

No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	61.3463	27.21	5.27	32.48	40.00	-7.52	168	100	peak
2	192.4186	27.59	4.31	31.90	43.50	-11.60	178	100	peak
3	390.7226	28.05	11.12	39.17	46.00	-6.83	145	100	peak
4	603.5392	17.67	14.62	32.29	46.00	-13.71	165	100	peak
5	965.5421	20.06	18.37	38.43	54.00	-15.57	125	100	peak

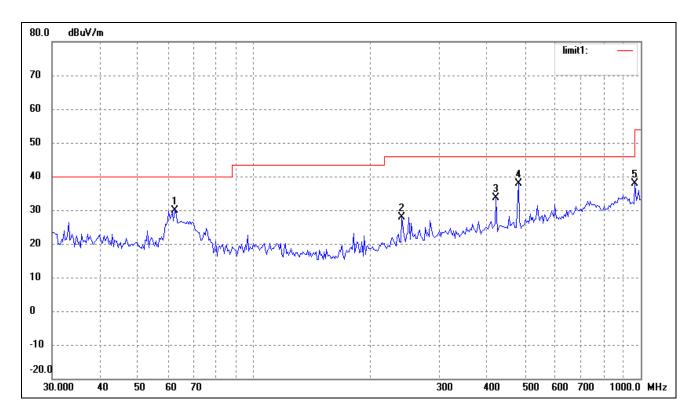


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	39.1616	22.20	9.54	31.74	40.00	-8.26	168	100	peak
2	61.3463	31.83	5.27	37.10	40.00	-2.90	145	100	peak
3	180.6488	26.22	3.78	30.00	43.50	-13.50	125	100	peak
4	482.2156	29.35	11.49	40.84	46.00	-5.16	178	100	peak

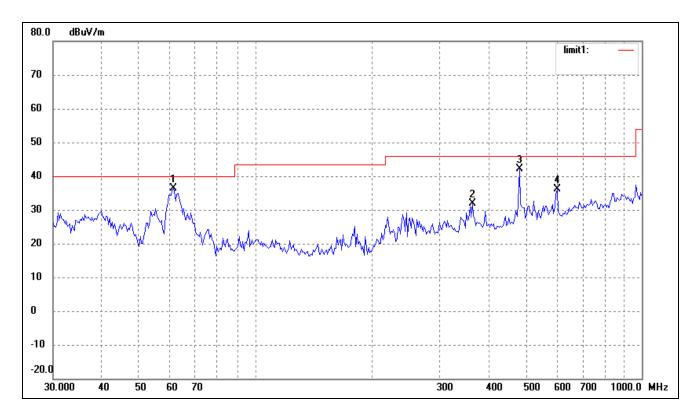
Operating Condition: 802.11g Transmitting Middle Channel-2442MHz

Comment: DC 7.4V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	62.2128	25.01	4.99	30.00	40.00	-10.00	145	100	peak
2	240.8304	20.94	7.02	27.96	46.00	-18.04	165	100	peak
3	422.0577	22.77	10.76	33.53	46.00	-12.47	125	100	peak
4	482.2156	26.49	11.49	37.98	46.00	-8.02	136	100	peak
5	965.5421	19.59	18.37	37.96	54.00	-16.04	258	100	peak

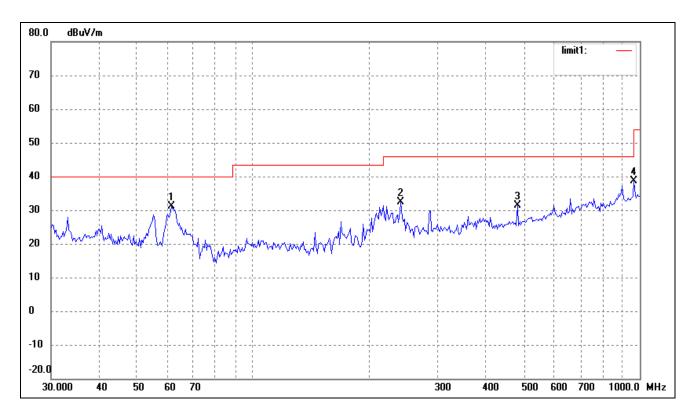


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	61.3463	31.15	5.27	36.42	40.00	-3.58	145	100	peak
2	364.2595	21.30	10.68	31.98	46.00	-14.02	178	100	peak
3	482.2156	30.63	11.49	42.12	46.00	-3.88	126	100	peak
4	603.5392	21.55	14.62	36.17	46.00	-9.83	254	100	peak

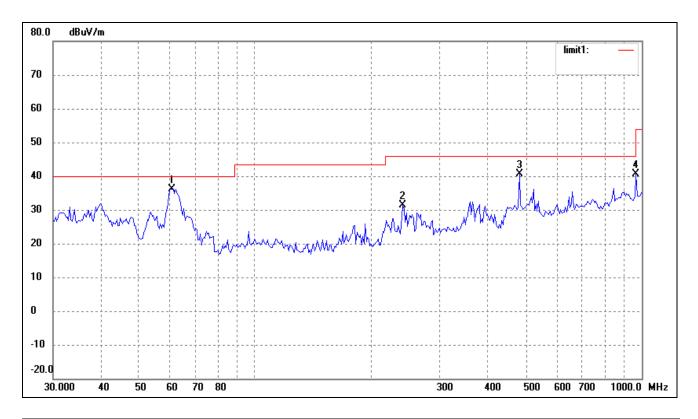
Operating Condition: 802.11g Transmitting High Channel-2472MHz

Comment: DC 7.4V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(.)	(cm)	
1	61.3463	25.89	5.27	31.16	40.00	-8.84	168	100	peak
2	240.8304	25.24	7.02	32.26	46.00	-13.74	155	100	peak
3	482.2156	19.94	11.49	31.43	46.00	-14.57	124	100	peak
4	965.5421	20.18	18.37	38.55	54.00	-15.45	205	100	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	60.9176	30.82	5.40	36.22	40.00	-3.78	145	100	peak
2	240.8304	24.36	7.02	31.38	46.00	-14.62	120	100	peak
3	482.2156	29.13	11.49	40.62	46.00	-5.38	133	100	peak
4	965.5421	22.16	18.37	40.53	54.00	-13.47	168	100	peak

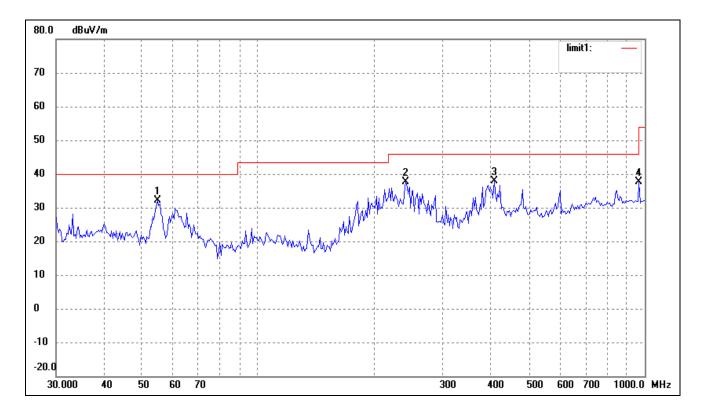
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Tablet Computer
Tested Model: 777033201

Operating Condition: 802.11n-HT20 Transmitting Low Channel-2412MHz

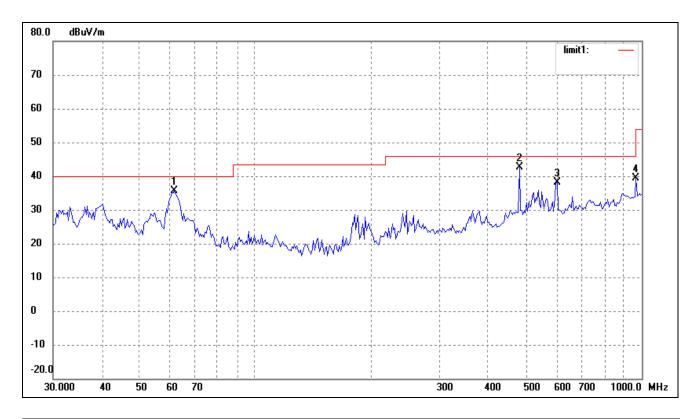
Comment: DC 7.4V

Test Specification: Horizontal



Model: 777033201

No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	54.8348	26.04	6.17	32.21	40.00	-7.79	145	100	peak
2	240.8304	30.51	7.02	37.53	46.00	-8.47	120	100	peak
3	407.5145	26.57	11.22	37.79	46.00	-8.21	135	100	peak
4	965.5421	19.19	18.37	37.56	54.00	-16.44	164	100	peak

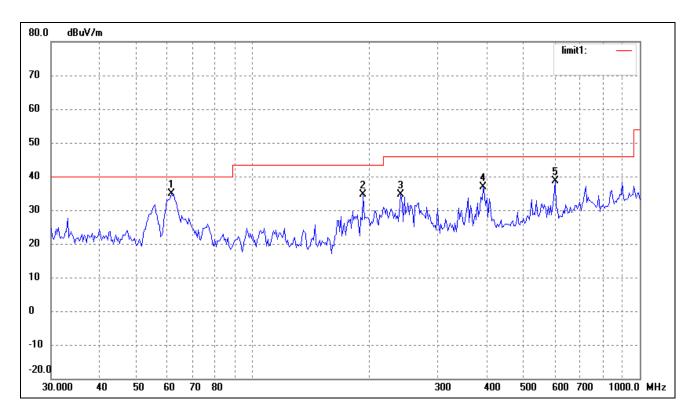


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(.)	(cm)	
1	61.7781	30.55	5.13	35.68	40.00	-4.32	145	100	peak
2	482.2156	31.13	11.49	42.62	46.00	-3.38	120	100	peak
3	603.5392	23.52	14.62	38.14	46.00	-7.86	102	100	peak
4	965.5421	21.13	18.37	39.50	54.00	-14.50	185	100	peak

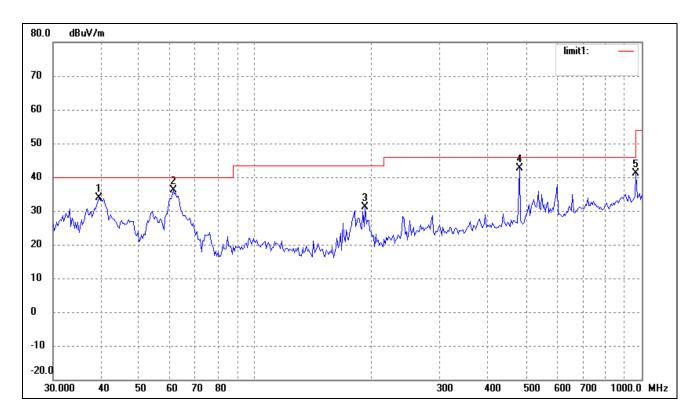
Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2442MHz

Comment: DC 7.4V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(.)	(cm)	
1	61.3463	29.69	5.27	34.96	40.00	-5.04	145	100	peak
2	192.4186	30.34	4.31	34.65	43.50	-8.85	178	100	peak
3	240.8304	27.59	7.02	34.61	46.00	-11.39	165	100	peak
4	393.4724	25.63	11.24	36.87	46.00	-9.13	120	100	peak
5	603.5392	24.07	14.62	38.69	46.00	-7.31	133	100	peak

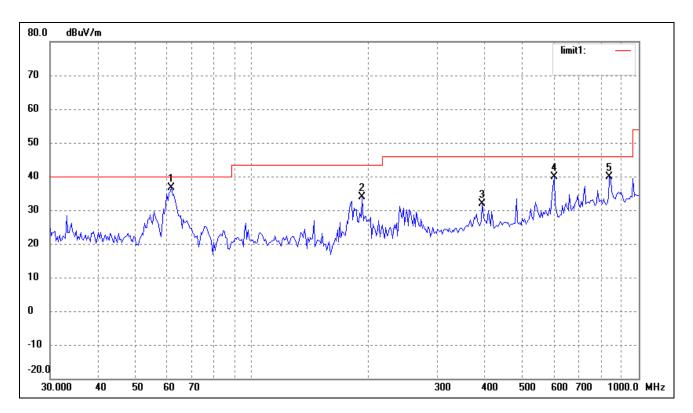


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(.)	(cm)	
1	39.4372	24.30	9.60	33.90	40.00	-6.10	142	100	peak
2	61.3463	30.80	5.27	36.07	40.00	-3.93	136	100	peak
3	192.4186	26.77	4.31	31.08	43.50	-12.42	155	100	peak
4	482.2156	31.22	11.49	42.71	46.00	-3.29	186	100	peak
5	965.5421	22.65	18.37	41.02	54.00	-12.98	102	100	peak

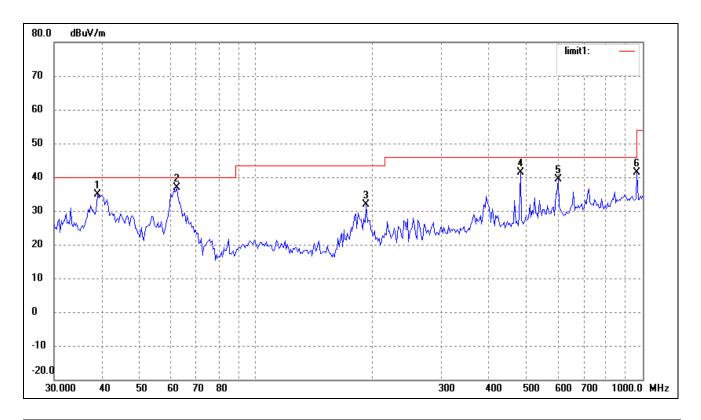
Operating Condition: 802.11n-HT20 Transmitting High Channel-2472MHz

Comment: DC 7.4V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(.)	(cm)	
1	61.7781	31.38	5.13	36.51	40.00	-3.49	168	100	peak
2	192.4186	29.62	4.31	33.93	43.50	-9.57	145	100	peak
3	393.4724	20.61	11.24	31.85	46.00	-14.15	125	100	peak
4	603.5392	25.35	14.62	39.97	46.00	-6.03	178	100	peak
5	839.1818	22.48	17.28	39.76	46.00	-6.24	193	100	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(。)	(cm)	
1	38.8879	25.42	9.50	34.92	40.00	-5.08	125	100	peak
2	62.2128	31.85	4.99	36.84	40.00	-3.16	132	100	peak
3	192.4186	27.50	4.31	31.81	43.50	-11.69	165	100	peak
4	482.2156	29.89	11.49	41.38	46.00	-4.62	148	100	peak
5	603.5392	24.74	14.62	39.36	46.00	-6.64	192	100	peak
6	965.5421	22.98	18.37	41.35	54.00	-12.65	250	100	peak

Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			
4824	44.12	0.57	44.69	74.00	-29.31	Н	PK
4824	33.52	0.57	34.09	54.00	-19.91	Н	AV
7236	46.84	3.69	50.53	74.00	-23.47	Н	PK
7236	38.45	3.69	42.14	54.00	-11.86	Н	AV
4824	43.20	0.57	43.77	74.00	-30.23	V	PK
4824	33.63	0.57	34.20	54.00	-19.80	V	AV
7236	48.50	3.69	52.19	74.00	-21.81	V	PK
7236	37.19	3.69	40.88	54.00	-13.12	V	AV
			Middle Chan	nel-2442MHz			
4884	44.90	0.66	45.56	74.00	-28.44	Н	PK
4884	32.01	0.66	32.67	54.00	-21.33	Н	AV
7326	47.95	3.76	51.71	74.00	-22.29	Н	PK
7326	36.41	3.76	40.17	54.00	-13.83	Н	AV
4884	44.41	0.66	45.07	74.00	-28.93	V	PK
4884	31.99	0.66	32.65	54.00	-21.35	V	AV
7326	48.51	3.76	52.27	74.00	-21.73	V	PK
7326	37.4	3.76	41.16	54.00	-12.84	V	AV
			High Chann	el-2472MHz			
4944	43.17	0.74	43.91	74.00	-30.09	Н	PK
4944	32.14	0.74	32.88	54.00	-21.12	Н	AV
7416	47.74	3.83	51.57	74.00	-22.43	Н	PK
7416	35.71	3.83	39.54	54.00	-14.46	Н	AV
4944	43.52	0.74	44.26	74.00	-29.74	V	PK
4944	32.17	0.74	32.91	54.00	-21.09	V	AV
7416	49.58	3.83	53.41	74.00	-20.59	V	PK
7416	36.97	3.83	40.80	54.00	-13.20	V	AV

Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			•
4824	43.22	0.57	43.79	74.00	-30.21	Н	PK
4824	33.44	0.57	34.01	54.00	-19.99	Н	AV
7236	51.85	3.69	55.54	74.00	-18.46	Н	PK
7236	38.08	3.69	41.77	54.00	-12.23	Н	AV
4824	43.41	0.57	43.98	74.00	-30.02	V	PK
4824	33.42	0.57	33.99	54.00	-20.01	V	AV
7236	51.08	3.69	54.77	74.00	-19.23	V	PK
7236	37.86	3.69	41.55	54.00	-12.45	V	AV
			Middle Chan	nel-2442MHz			
4884	44.60	0.66	45.26	74.00	-28.74	Н	PK
4884	32.02	0.66	32.68	54.00	-21.32	Н	AV
7326	50.42	3.76	54.18	74.00	-19.82	Н	PK
7326	36.66	3.76	40.42	54.00	-13.58	Н	AV
4884	43.90	0.66	44.56	74.00	-29.44	V	PK
4884	31.96	0.66	32.62	54.00	-21.38	V	AV
7326	53.12	3.76	56.88	74.00	-17.12	V	PK
7326	38.75	3.76	42.51	54.00	-11.49	V	AV
			High Chann	el-2472MHz			
4944	43.28	0.74	44.02	74.00	-29.98	Н	PK
4944	31.87	0.74	32.61	54.00	-21.39	Н	AV
7416	48.11	3.83	51.94	74.00	-22.06	Н	PK
7416	37.07	3.83	40.90	54.00	-13.10	Н	AV
4944	41.50	0.74	42.24	74.00	-31.76	V	PK
4944	32.04	0.74	32.78	54.00	-21.22	V	AV
7416	48.19	3.83	52.02	74.00	-21.98	V	PK
7416	36.98	3.83	40.81	54.00	-13.19	V	AV

Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Chann	el-2412MHz			
4824	42.52	0.57	43.09	74.00	-30.91	Н	PK
4824	33.62	0.57	34.19	54.00	-19.81	Н	AV
7236	36.52	3.69	40.21	74.00	-33.79	Н	PK
7236	34.01	3.69	37.70	54.00	-16.30	Н	AV
4824	43.82	0.57	44.39	74.00	-29.61	V	PK
4824	33.65	0.57	34.22	54.00	-19.78	V	AV
7236	54.17	3.69	57.86	74.00	-16.14	V	PK
7236	37.36	3.69	41.05	54.00	-12.95	V	AV
			Middle Chan	nel-2442MHz			
4884	45.17	0.66	45.83	74.00	-28.17	Н	PK
4884	31.94	0.66	32.60	54.00	-21.40	Н	AV
7326	48.62	3.76	52.38	74.00	-21.62	Н	PK
7326	38.35	3.76	42.11	54.00	-11.89	Н	AV
4884	44.60	0.66	45.26	74.00	-28.74	V	PK
4884	32.02	0.66	32.68	54.00	-21.32	V	AV
7326	53.52	3.76	57.28	74.00	-16.72	V	PK
7326	38.46	3.76	42.22	54.00	-11.78	V	AV
			High Chann	el-2472MHz			
4944	42.76	0.74	43.50	74.00	-30.50	Н	PK
4944	31.98	0.74	32.72	54.00	-21.28	Н	AV
7416	50.45	3.83	54.28	74.00	-19.72	Н	PK
7416	38.35	3.83	42.18	54.00	-11.82	Н	AV
4944	42.40	0.74	43.14	74.00	-30.86	V	PK
4944	32.14	0.74	32.88	54.00	-21.12	V	AV
7416	54.24	3.83	58.07	74.00	-15.93	V	PK
7416	39.20	3.83	43.03	54.00	-10.97	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3^{th} Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

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9.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07	2014-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2013-04-20	2014-04-19
Horn Antenna	ETS	3117	00086197	2013-04-20	2014-04-19

9.3 Test Procedure

According to the KDB 558074, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

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According to the KDB 558074 D01 V03, the conducted spurious emissions test method as follows:

- 1. Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW \geq 300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = \max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

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Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

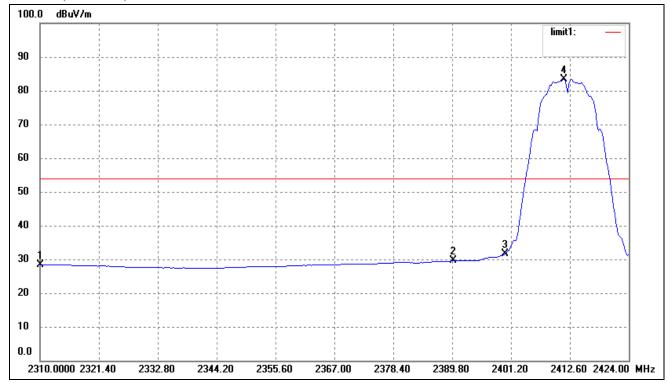
9.4 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.5 Summary of Test Results/Plots

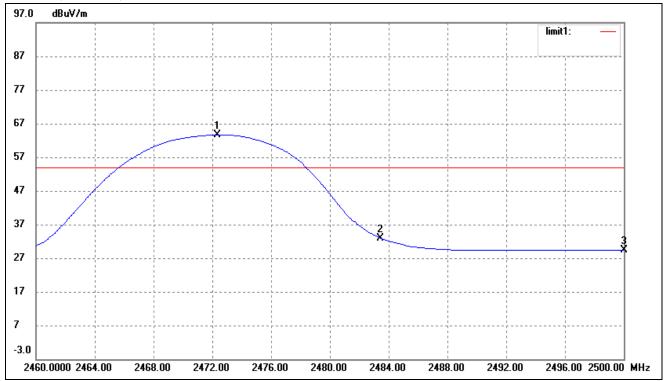
Please refer to the test plots as below.

802.11b-Lowest Bandedge



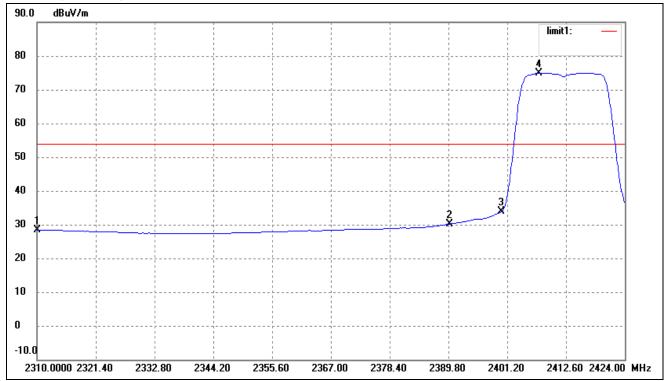
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	32.11	-3.71	28.40	54.00	-25.60	Average Detector
	2310.000	44.91	-3.71	41.20	74.00	-32.80	Peak Detector
2	2390.000	33.08	-3.54	29.54	54.00	-24.46	Average Detector
	2390.000	45.27	-3.54	41.73	74.00	-32.27	Peak Detector
3	2400.000	35.20	-3.51	31.69	Delta = 55.58 dBc		Average Detector
4	2410.548	90.75	-3.48	87.27	Della – 33	.50 uDC	Average Detector

802.11b-Highest Bandedge



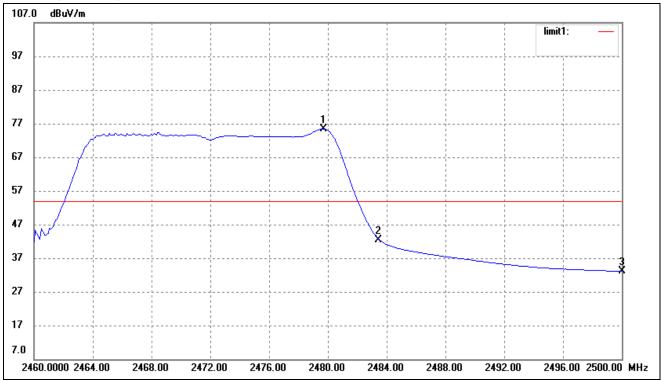
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2472.331	67.04	-3.34	63.70	/	/	Average Detector
	2473.331	78.23	-3.34	74.89	/	/	Peak Detector
2	2483.500	Dolto-2	2.31dBc	31.39	54.00	-22.61	Average Detector
	2483.500	Della-3	2.31ubc	42.58	74.00	-31.42	Peak Detector
3	2500.000	32.65	-3.28	29.37	54.00	-24.63	Average Detector
	2500.000	48.95	-3.28	45.67	74.00	-28.33	Peak Detector

802.11g-Lowest Bandedge



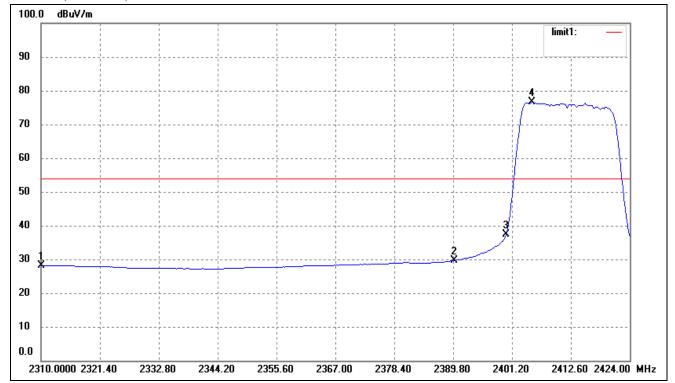
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	32.07	-3.71	28.36	54.00	-25.64	Average Detector
	2310.000	45.04	-3.71	41.33	74.00	-32.67	Peak Detector
2	2390.000	33.75	-3.54	30.21	54.00	-23.79	Average Detector
	2390.000	46.59	-3.54	43.05	74.00	-30.95	Peak Detector
3	2400.000	37.34	-3.51	33.83	Delta = 41.09 dBc		Average Detector
4	2407.356	78.41	-3.49	74.92	Della – 41	1.09 abc	Average Detector

802.11g-Highest Bandedge



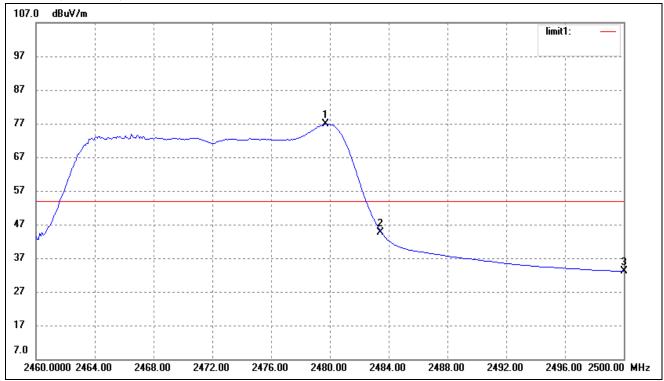
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.680	78.66	-3.25	75.41	/	/	Average Detector
	2468.080	99.79	-3.28	96.51	/	/	Peak Detector
2	2483.500	Dolto-2	9.57dBc	35.84	54.00	-18.16	Average Detector
	2483.500	Dena-3	19.3/UDC	56.94	74.00	-17.06	Peak Detector
3	2500.000	36.22	-3.20	33.02	54.00	-20.98	Average Detector
	2500.000	50.38	-3.20	47.18	74.00	-26.82	Peak Detector

802.11n-HT20-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	31.88	-3.71	28.17	54.00	-25.83	Average Detector
	2310.000	46.12	-3.71	42.41	74.00	-31.59	Peak Detector
2	2390.000	33.18	-3.54	29.64	54.00	-24.36	Average Detector
	2390.000	46.19	-3.54	42.65	74.00	-31.35	Peak Detector
3	2400.000	40.93	-3.51	37.42	Delta = 39.09 dBc		Average Detector
4	2405.076	80.01	-3.50	76.51	Dena – 35	7.09 UDC	Average Detector

802.11n-HT20-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.680	80.07	-3.25	76.82	/	/	Average Detector
	2464.960	100.20	-3.29	96.91	/	/	Peak Detector
2	2483.500	Delta=43.18dBc		33.64	54.00	-20.36	Average Detector
	2483.500	Della-4	13.10UDC	53.73	74.00	-20.27	Peak Detector
3	2500.000	36.25	-3.20	33.05	54.00	-20.95	Average Detector
	2500.000	50.42	-3.20	47.22	74.00	-26.78	Peak Detector

10. Conducted Emissions

10.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

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10.2 Test Equipment List and Details

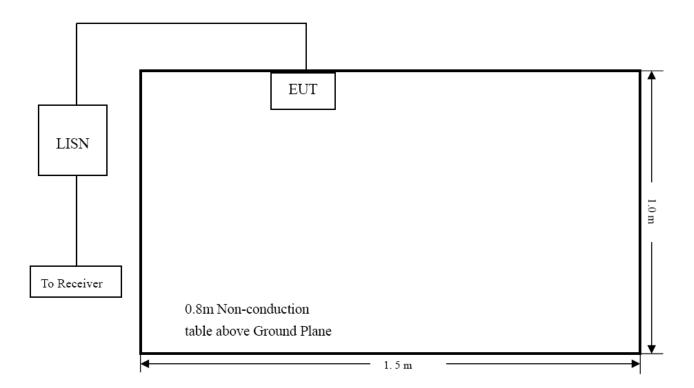
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2013-05-07	2014-05-06
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2013-05-07	2014-05-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2013-05-07	2014-05-06

10.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

10.4 Basic Test Setup Block Diagram



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10.5 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

10.6 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Ouasi-Peak Adapter Mode	Normal

10.7 Summary of Test Results/Plots

According to the data in section 10.8, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

Model: 777033201

-5.32 dB at 25.814 MHz in the Neutral mode, Peak detector, 0.15-30MHz

10.8 Conducted Emissions Test Data

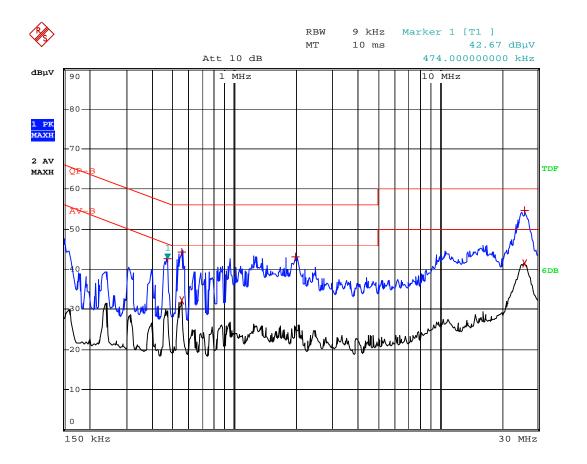
Plot of Conducted Emissions Test Data

EUT: Tablet Computer

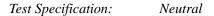
Tested Model: 777033201
Operating Condition: Transmitting(Wi-Fi)

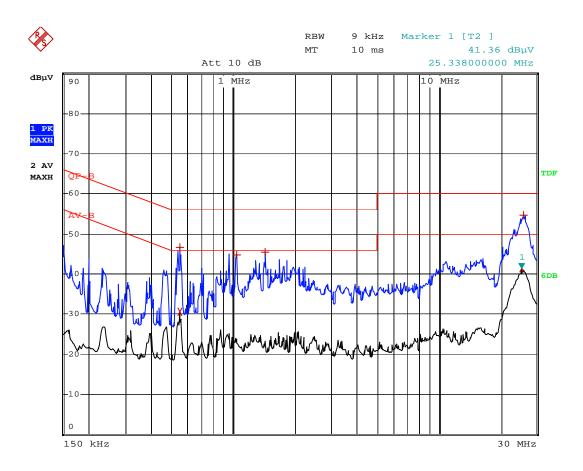
Comment: AC 120V/60Hz; Adapter DC 5V

Test Specification: Line



	EDIT PEAK LIST (Prescan Results)			
Tracel:	QP-B				
Trace2:	AV-B				
Trace3:					
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB		
1 Max Peak	474 kHz	42.66	-13.77		
1 Max Peak	554 kHz	44.22	-11.77		
2 Average	554 kHz	32.20	-13.79		
1 Max Peak	1.986 MHz	43.19	-12.80		
2 Average	25.822 MHz	41.56	-8.43		
1 Max Peak	25.854 MHz	54.62	-5.37		





	EDIT PEAK LIST (Prescan Results)			
Tracel:	QP-B				
Trace2:	AV-B				
Trace3:					
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB		
2 Average	550 kHz	30.48	-15.51		
1 Max Peak	550 kHz	46.65	-9.34		
1 Max Peak	1.034 MHz	44.70	-11.29		
1 Max Peak	1.422 MHz	45.49	-10.51		
2 Average	25.338 MHz	41.36	-8.63		
1 Max Peak	25.814 MHz	54.67	-5.32		

***** END OF REPORT *****