FCC Part 15C Measurement and Test Report

For

Amelia World Corporation dba LINSAY

16340 West Dixie Highway, North Miami Beach, Florida

FCC ID: 2AAC310HD2CORE

FCC Rules: FCC Part 15C

Product Description: Tablet PC

Tested Model: F-10HD2Core

Report No.: STR13058331I-1

Tested Date: 2013-05-24 to 2013-06-20

Issued Date: 2013-06-24

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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 SEM. Test Compliance Service Co., Ltd

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Amelia World Corporation dba LINSAY

Address of applicant: 16340 West Dixie Highway, North Miami Beach,

Florida

Manufacturer: Amelia World Corporation dba LINSAY

Address of manufacturer: 16340 West Dixie Highway, North Miami Beach,

Florida

General Description of EUT			
Product Name:	Tablet PC		
Trade Name:	LINSAY		
Model No.:	F-10HD2Core		
Adding Model(s):	1		
Rated Voltage:	DC 3.7V battery		
ZFXPA02000050			
Power Adapter Model: (Input: AC 100-240V/0.5A; Output: DC 5V/2A)			
Note: The test data is gathered from a production sample, provided by the manufacturer.			

Technical Characteristics of EUT	
Support Standards:	802.11b/g/n
Frequency Range:	2412-2462MHz, 2422-2452MHz
RF Output Power:	7.71 dBm (Conducted)
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Modulation:	CCK, BPSK, QPSK, 16QAM, 64QAM
Quantity of Channels:	11/7
Channel Separation:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	2 dBi
Lowest Internal Frequency of EUT:	32.768kHz
Device Category:	Portable Device

1.2 Test Standards

The following report is prepared on behalf of the Amelia World Corporation dba LINSAY 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

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 for digital transmission systems shall be performed also.

1.4 Test Facility

• FCC – Registration No.: 994117

SEM.Test Compliance Services 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 994117.

• Industry Canada (IC) Registration No.: 7673A

The 3m Semi-anechoic chamber of SEM.Test Compliance Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 7673A.

• CNAS Registration No.: L4062

Shenzhen SEM. Test Electronics Service Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C (518101)

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:

Test Mode List			
Test Mode	Description	Remark	
TM1	802.11b	2412MHz, 2437MHz, 2462MHz	
TM2	802.11g	2412MHz, 2437MHz, 2462MHz	
TM3	802.11n-HT20	2412MHz, 2437MHz, 2462MHz	
TM4	802.11n-HT40	2422MHz, 2437MHz, 2452MHz	

Special Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite	
Power Cable	1.7	Unshielded	Without Ferrite	
USB Cable	1.0	Shielded	Without Ferrite	

Auxiliary Equipment List and Details				
Description	Manufacturer	Model	Serial Number	
Monitor	DELL	U2713H	/	
Notebook	IBM	E10	/	

2. SUMMARY OF TEST RESULTS

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

N/A: not applicable

3. Antenna Requirement

3.1 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.

3.2 Evaluation Information

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

4. Power Spectral Density

4.1 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.

4.2 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

4.3 Test Procedure

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

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

4.4 Environmental Conditions

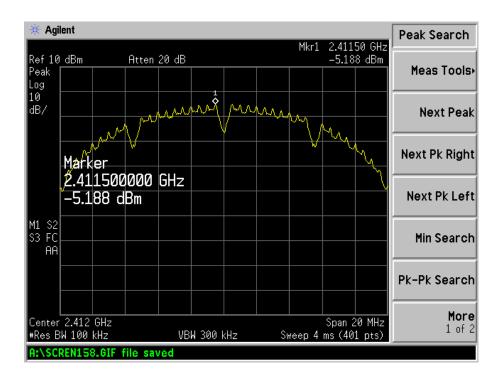
Temperature:	20° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

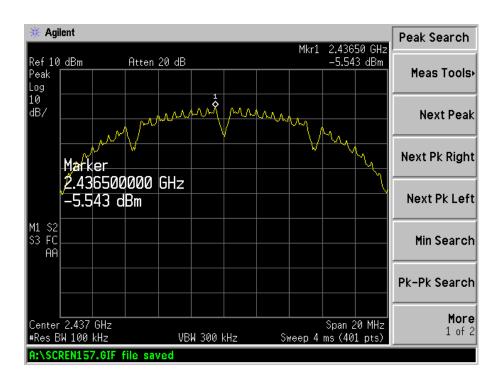
Test Mode	Test Channel MHz	Power Spectral Density dBm/100kHz	Limit dBm
	2412	-5.188	8
802.11b	2437	-5.543	8
	2462	-5.870	8
	2412	-10.170	8
802.11g	2437	-10.670	8
	2462	-11.160	8
	2412	-11.850	8
802.11n HT20	2437	-12.250	8
	2462	-12.350	8
	2422	-14.880	8
802.11n HT40	2437	-15.250	8
	2452	-15.570	8

Please refer to the following test plots:

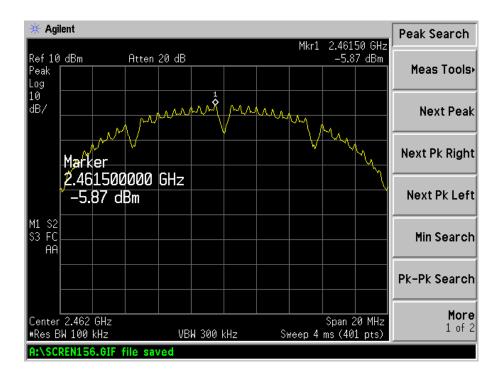
802.11b-Low Channel



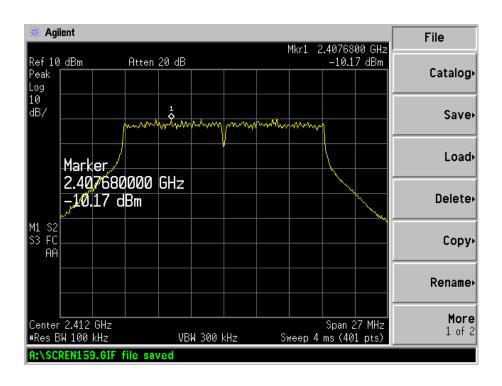
802.11b-Middle Channel



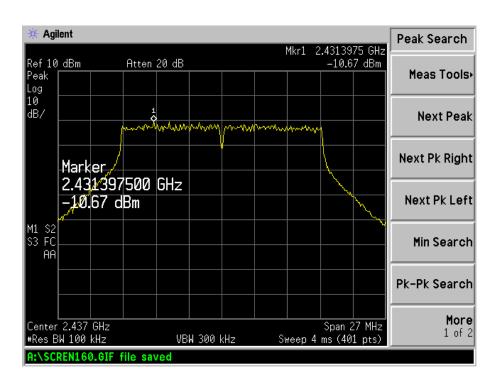
802.11b-High Channel



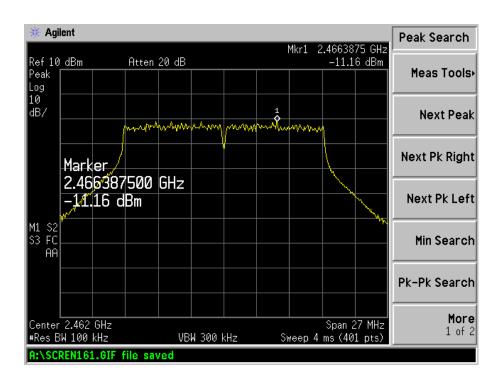
802.11g-Low Channel



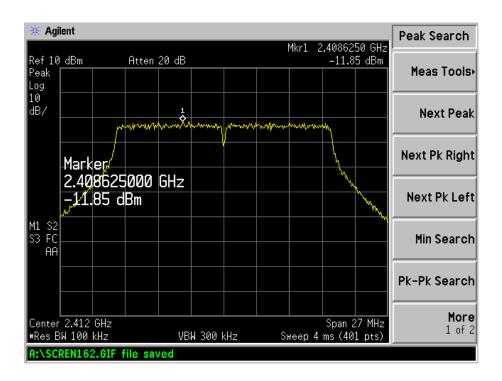
802.11g-Middle Channel



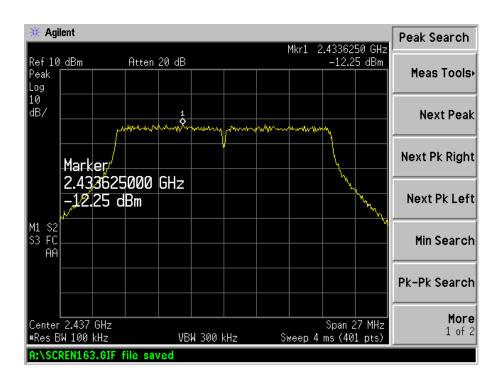
802.11g-High Channel



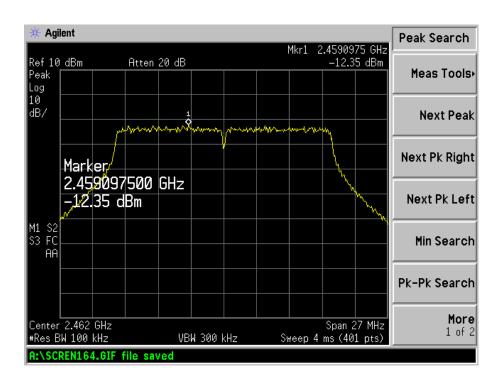
802.11n-HT20-Low Channel



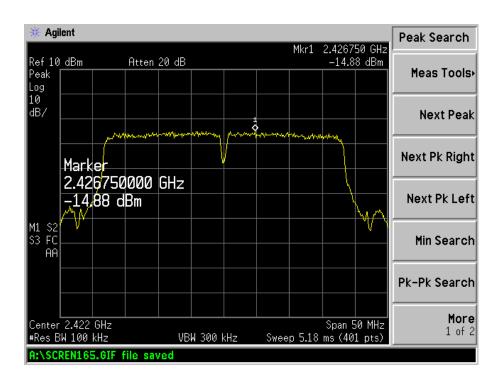
802.11n-HT20-Middle Channel



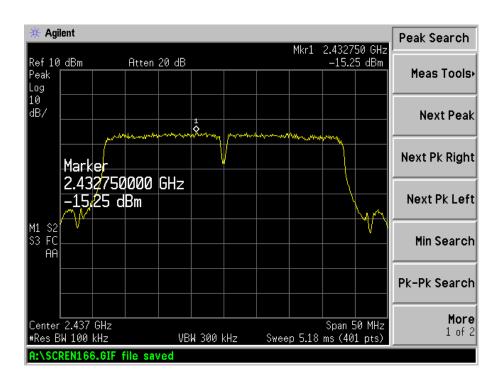
802.11n-HT20-High Channel



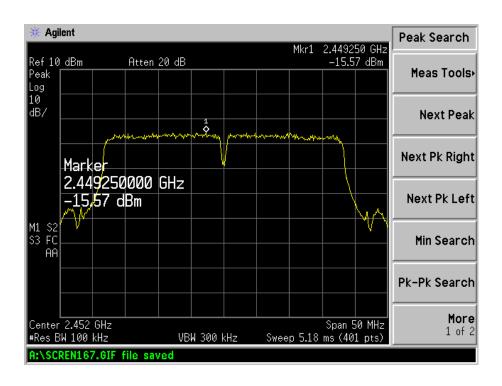
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



5. 6dB Bandwidth

5.1 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.

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

- 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 RBW = 100 kHz.
- 3. Set the video bandwidth (VBW) \geq 3XRBW.
- 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 frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Environmental Conditions

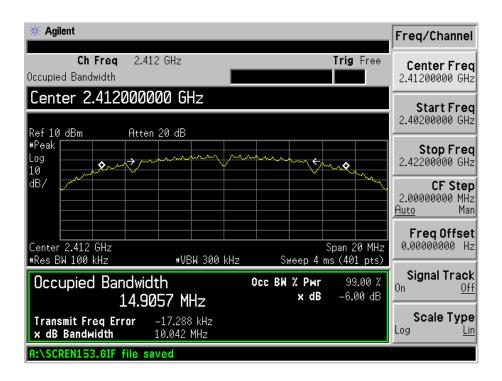
Temperature:	24° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

5.5 Summary of Test Results/Plots

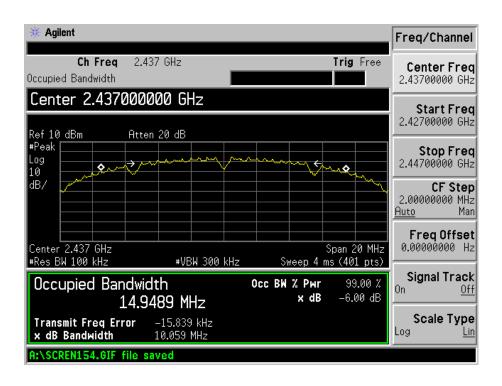
Test Mode	Test Channel	6 dB Bandwidth	Limit
Test Wode	MHz	kHz	kHz
802.11b	2412	10042	500
	2437	10059	500
	2462	10062	500
802.11g	2412	16534	500
	2437	16563	500
	2462	16607	500
802.11n-HT20	2412	17822	500
	2437	17817	500
	2462	17753	500
802.11n-HT40	2422	36286	500
	2437	36308	500
	2452	36407	500

Please refer to the following test plots:

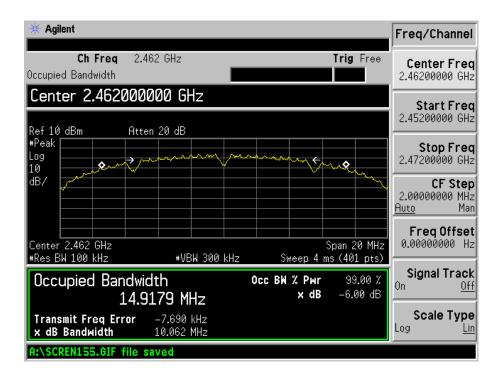
802.11b-Low Channel



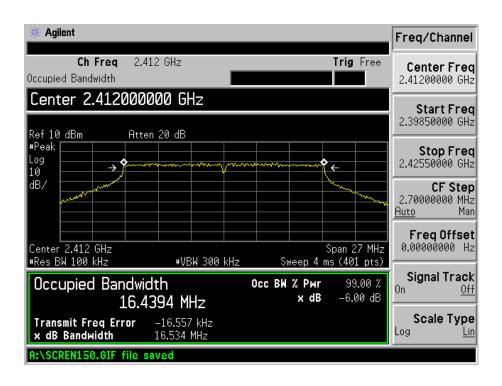
802.11b-Middle Channel



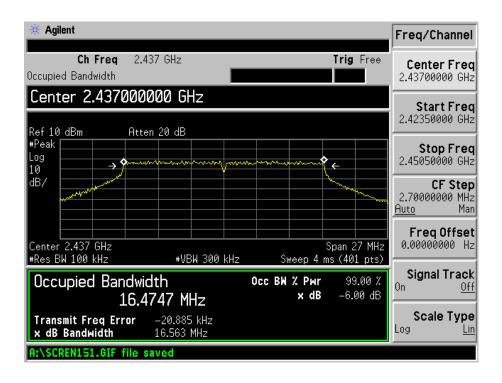
802.11b-High Channel



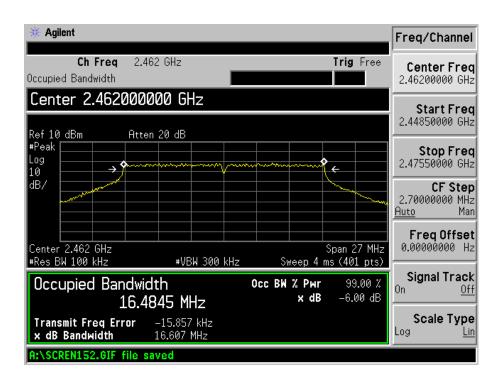
802.11g-Low Channel



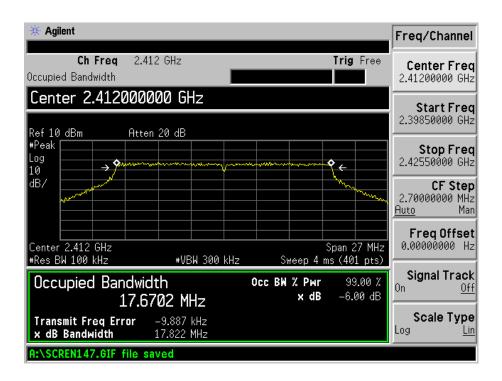
802.11g-Middle Channel



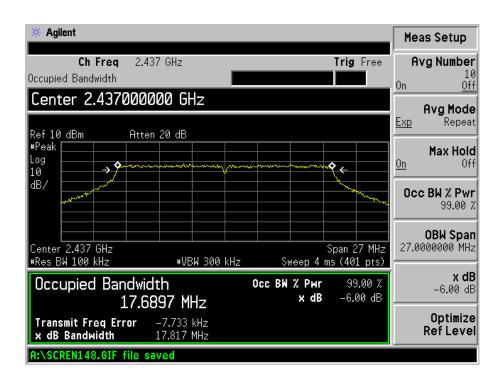
802.11g-High Channel



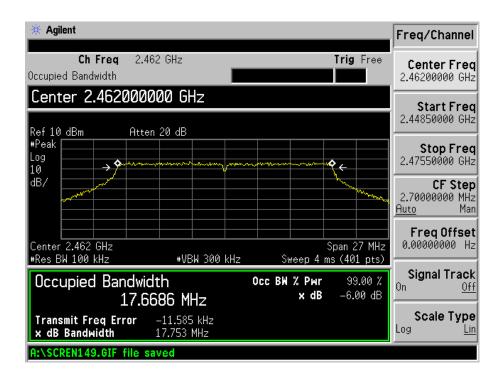
802.11n-HT20-Low Channel



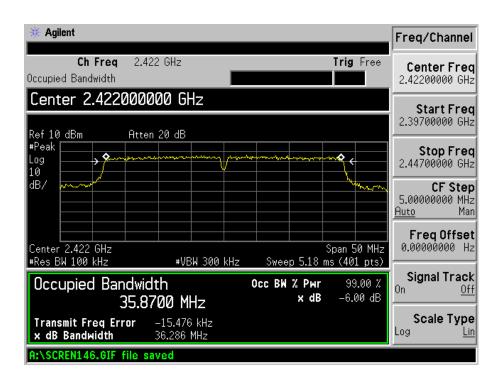
802.11n-HT20-Middle Channel



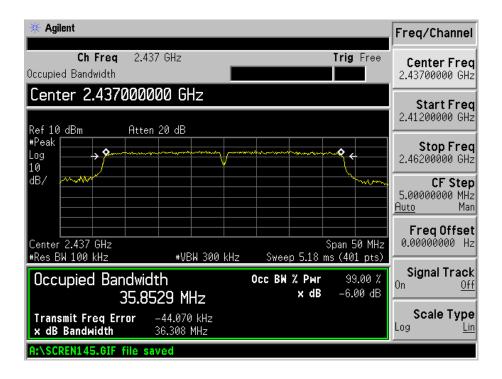
802.11n-HT20-High Channel



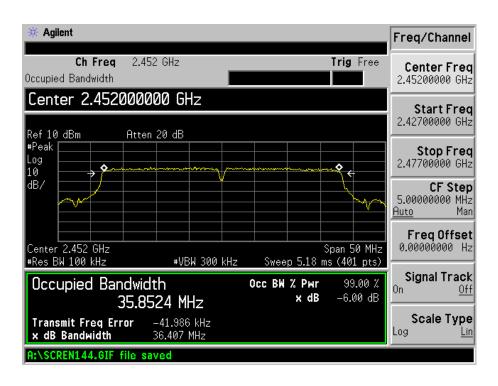
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



6. RF Output Power

6.1 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.

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

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

6.3 Test Procedure

According to section 15.247(b)-power output of the KDB-558074 D01 V02 (2012), 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).

6.4 Environmental Conditions

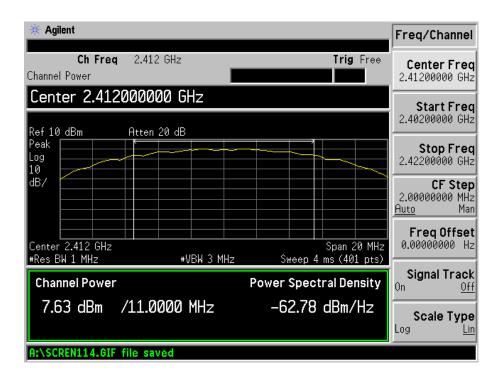
Temperature:	21° C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

6.5 Summary of Test Results/Plots

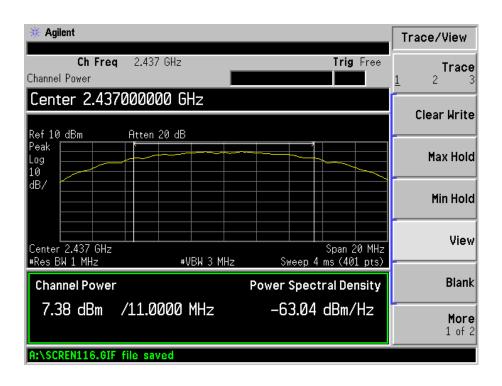
The AM. 1	Frequency	Reading	Output Power	Limit
Test Mode	MHz	dBm	mW	\mathbf{mW}
802.11b _1Mbps	2412	7.63	5.7943	1000
	2437	7.38	5.4702	1000
	2462	6.92	4.9204	1000
	2412	7.71	5.9020	1000
802.11b _11Mbps	2437	7.40	5.4954	1000
	2462	6.98	4.9888	1000
	2412	7.45	5.5590	1000
802.11g_6Mbps	2437	7.03	5.0466	1000
	2462	6.46	4.4259	1000
	2412	7.38	5.4702	1000
802.11g_54Mbps	2437	7.14	5.1761	1000
	2462	6.55	4.5186	1000
	2412	6.68	4.6559	1000
802.11n HT20_MCS0	2437	6.26	4.2267	1000
	2462	5.80	3.8019	1000
	2412	6.65	4.6238	1000
802.11n HT20_MCS7	2437	6.31	4.2756	1000
	2462	5.93	3.9174	1000
	2422	6.87	4.8641	1000
802.11n HT40_MCS0	2437	6.59	4.5604	1000
	2452	6.36	4.3251	1000
	2422	6.94	4.9431	1000
802.11n HT40_MCS7	2437	6.63	4.6026	1000
	2452	6.44	4.4055	1000

Please refer to the following test plots:

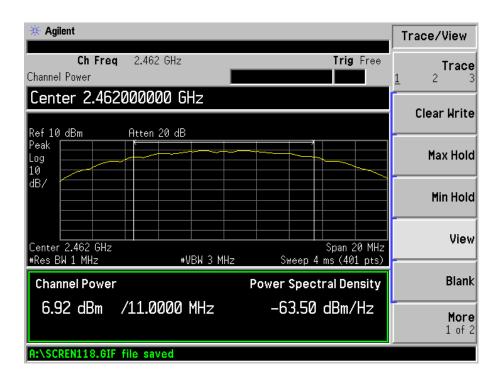
802.11b-1Mbps-Low Channel



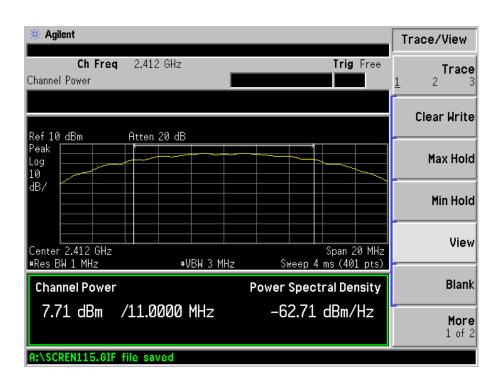
802.11b-1Mbps-Middle Channel



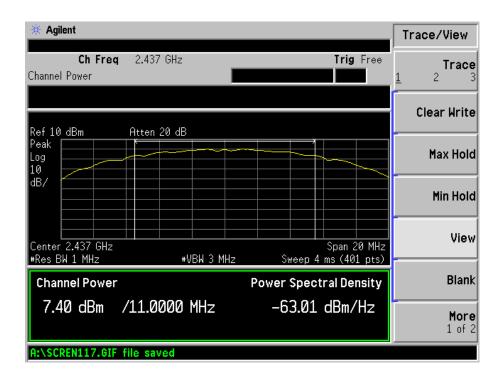
802.11b-1Mpbs-High Channel



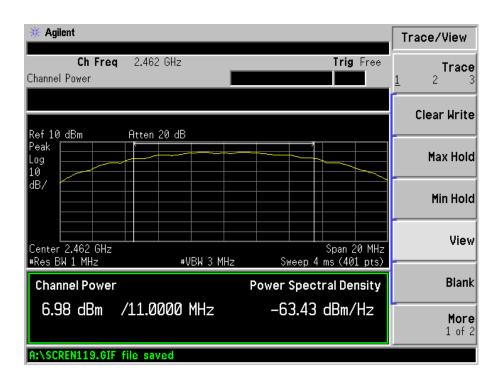
802.11b-11Mbps-Low Channel



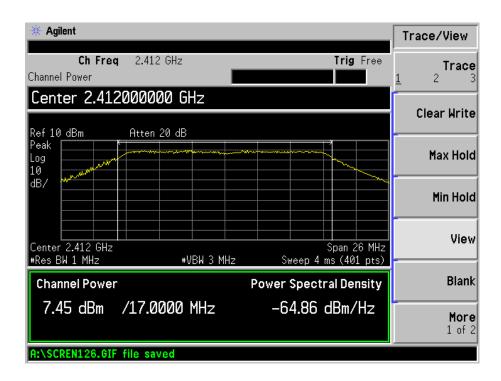
802.11b-11Mbps-Middle Channel



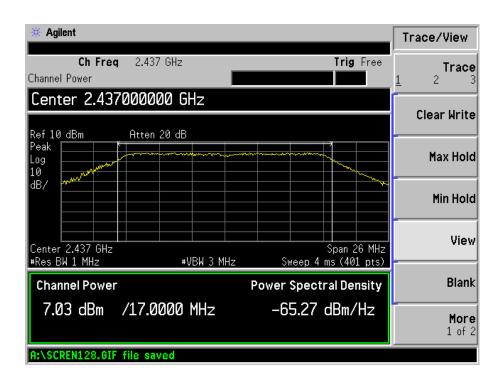
802.11b-11Mpbs-High Channel



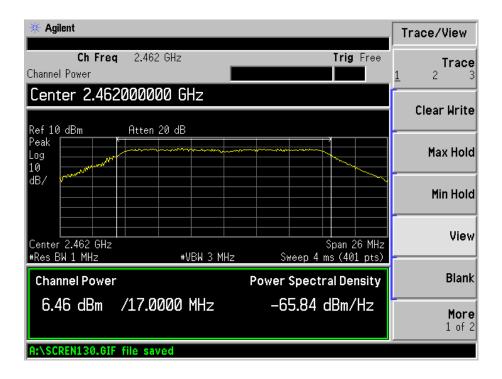
802.11g-6Mbps-Low Channel



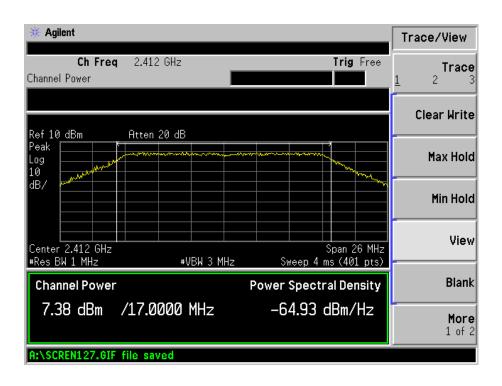
802.11g-6Mbps-Middle Channel



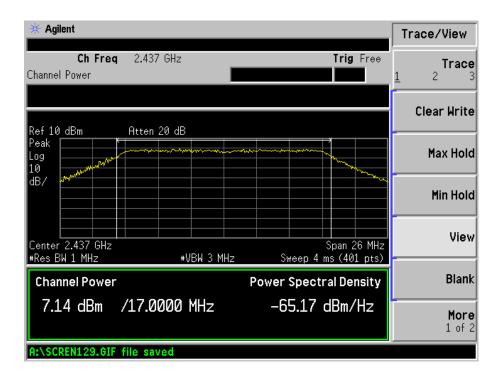
802.11g-6Mpbs-High Channel



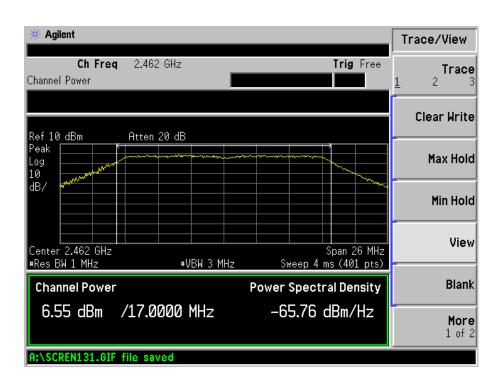
802.11g-54Mbps-Low Channel



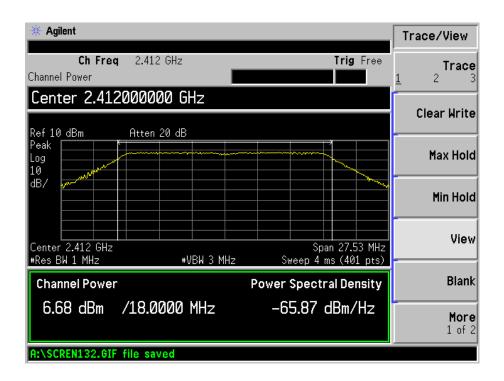
802.11g-54Mbps-Middle Channel



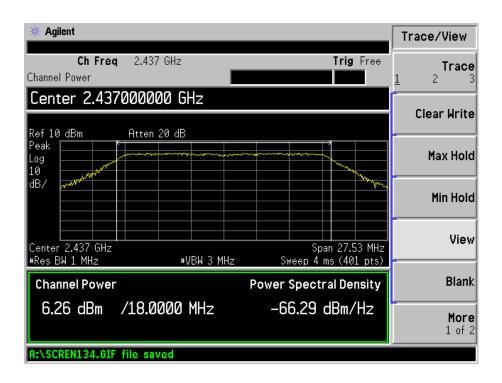
802.11g-54Mpbs-High Channel



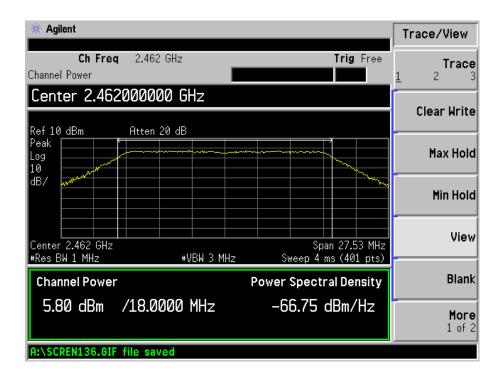
802.11n-HT20-MCS0-Low Channel



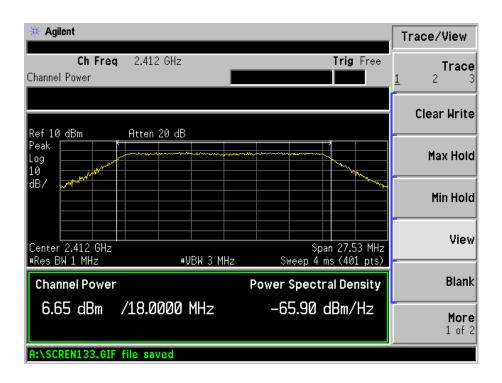
802.11n-HT20-MCS0-Middle Channel



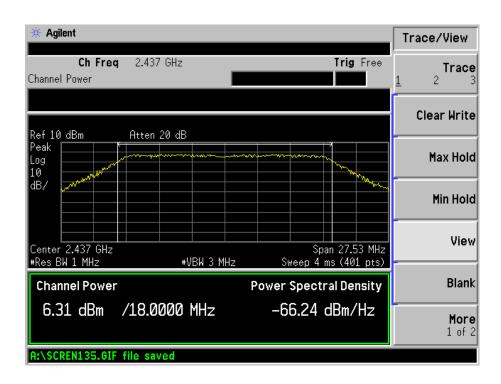
802.11n-HT20-MCS0-High Channel



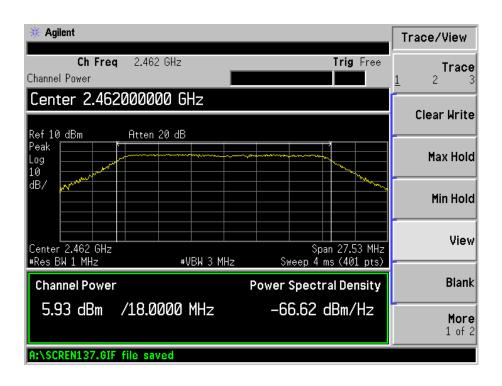
802.11n-HT20-MCS7-Low Channel



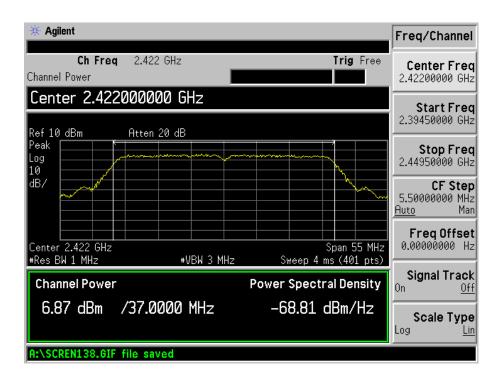
802.11n-HT20-MCS7-Middle Channel



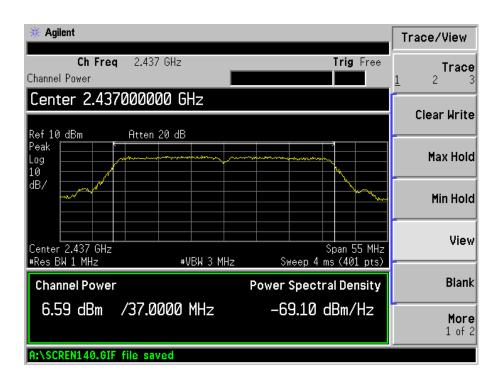
802.11n-HT20-MCS7-High Channel



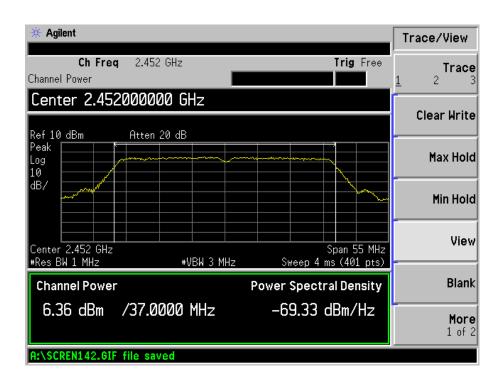
802.11n-HT40-MCS0-Low Channel



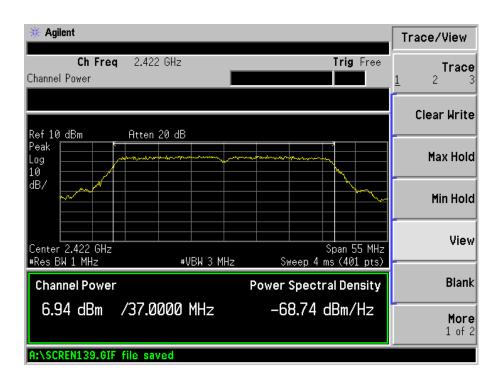
802.11n-HT40-MCS0-Middle Channel



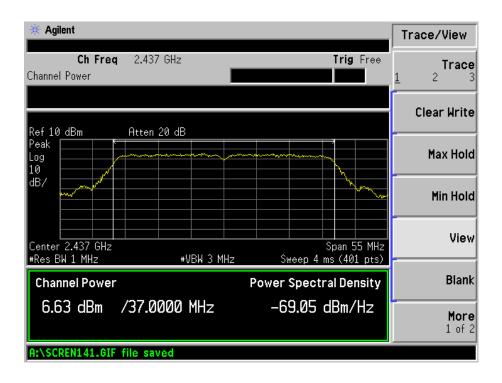
802.11n-HT40-MCS0-High Channel



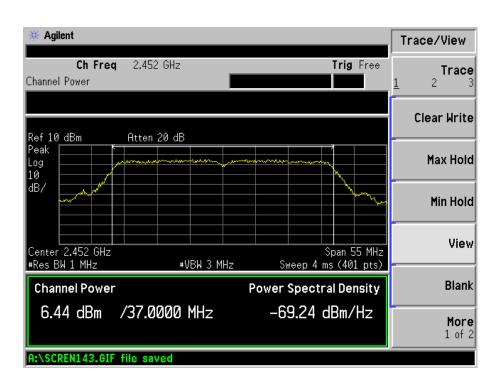
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel



7. Field Strength of Spurious Emissions

7.1 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.

7.2 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.

7.3 Test Equipment List and Details

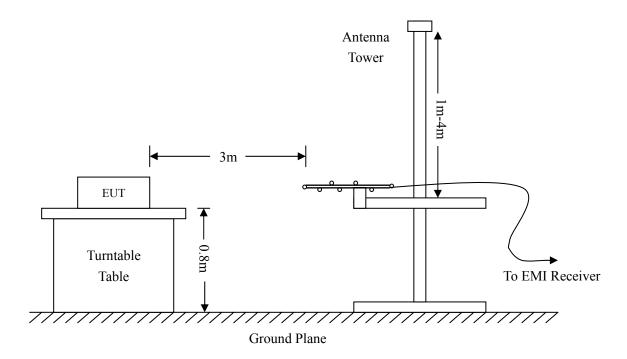
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07	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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7.4 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.

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.



7.5 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:

7.6 Environmental Conditions

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

7.7 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 margin of:

-1.56 dB at 30.0000 MHz in the Vertical polarization for 802.11b-Middle Channel, 9kHz to 25 GHz, 3 Meters

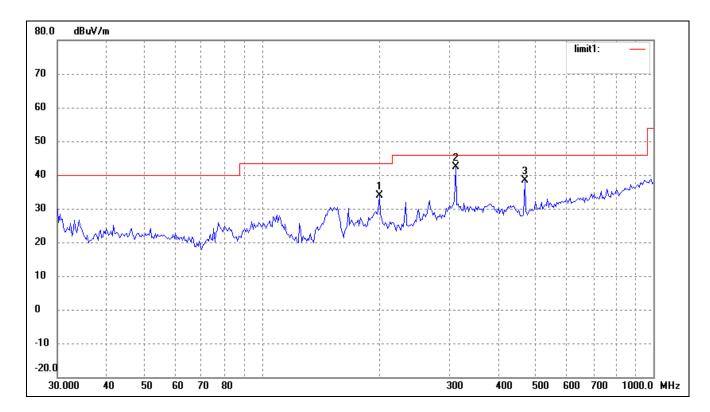
Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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

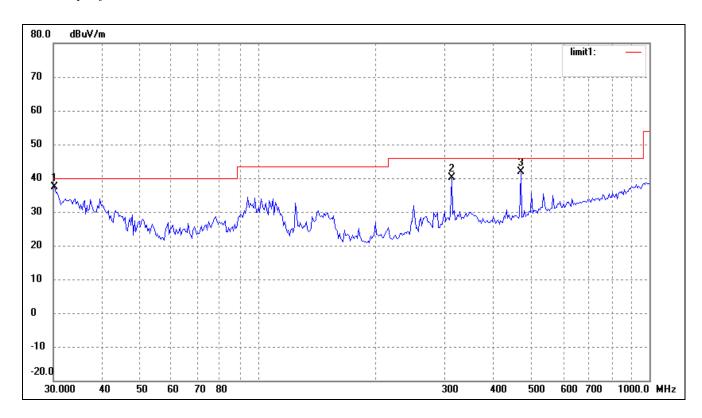
EUT: Tablet PC
Tested Model: F-10HD2Core

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

Comment: AC 120V/60Hz; USB 5V



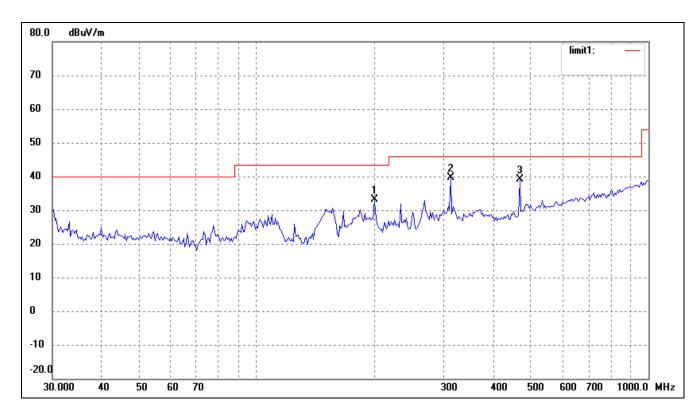
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	199.2855	27.29	6.58	33.87	43.50	-9.63	162	100	peak
2	312.1794	32.58	9.90	42.48	46.00	-3.52	200	100	peak
3	468.8762	26.20	12.06	38.26	46.00	-7.74	255	100	peak



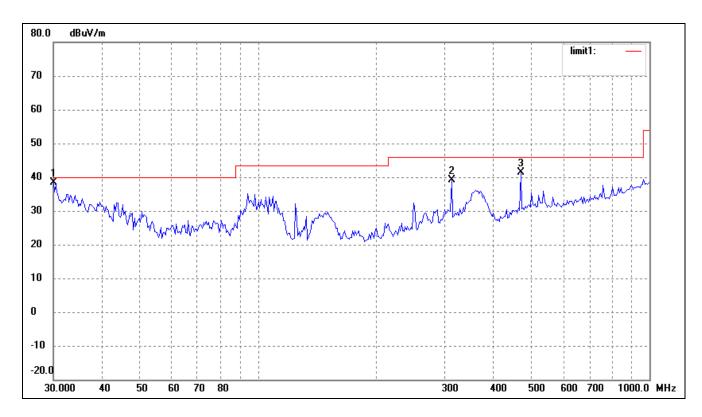
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	30.2111	30.58	6.77	37.35	40.00	-2.65	240	100	peak
2	312.1794	30.34	9.90	40.24	46.00	-5.76	187	100	peak
3	468.8762	29.71	12.06	41.77	46.00	-4.23	220	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

Comment: AC 120V/60Hz; USB 5V



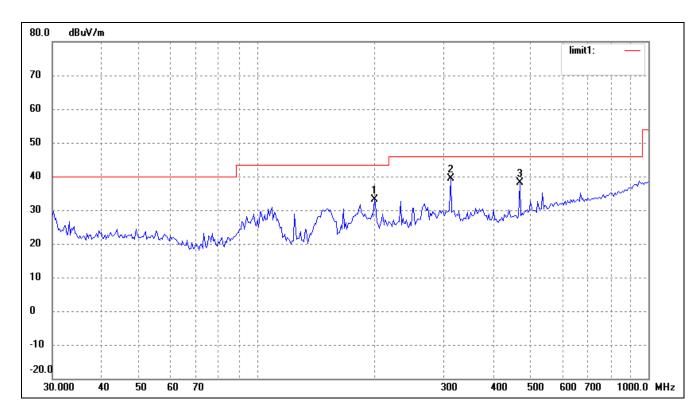
	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
Ī		(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
Ī	1	199.2855	26.49	6.58	33.07	43.50	-10.43	162	100	peak
Ī	2	312.1794	29.61	9.90	39.51	46.00	-6.49	200	100	peak
	3	468.8762	26.95	12.06	39.01	46.00	-6.99	360	100	peak



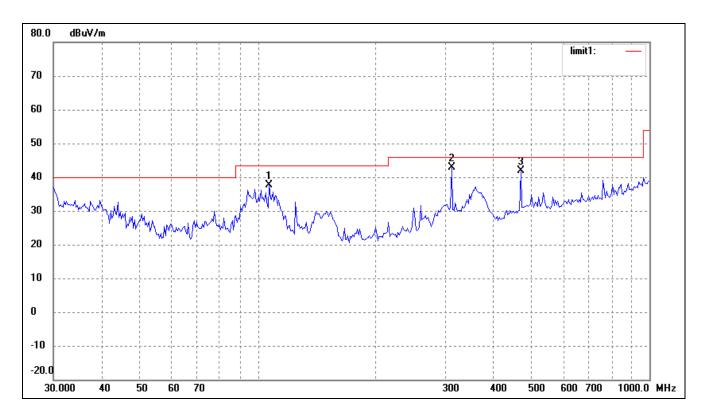
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	30.0000	31.67	6.77	38.44	40.00	-1.56	240	100	peak
2	312.1794	29.17	9.90	39.07	46.00	-6.93	187	100	peak
3	468.8762	29.40	12.06	41.46	46.00	-4.54	220	100	peak

Operating Condition: 802.11b Transmitting High Channel-2462MHz

Comment: AC 120V/60Hz; USB 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	199.2855	26.67	6.58	33.25	43.50	-10.25	251	100	peak
2	312.1794	29.59	9.90	39.49	46.00	-6.51	36	100	peak
3	468.8762	25.96	12.06	38.02	46.00	-7.98	15	100	peak



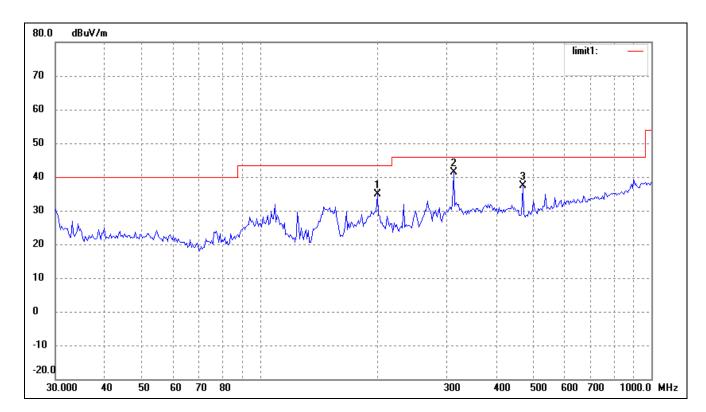
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	106.7587	29.80	7.86	37.66	43.50	-5.84	25	100	peak
2	312.1794	33.01	9.90	42.91	46.00	-3.09	139	100	peak
3	468.8762	29.73	12.06	41.79	46.00	-4.21	79	100	peak

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

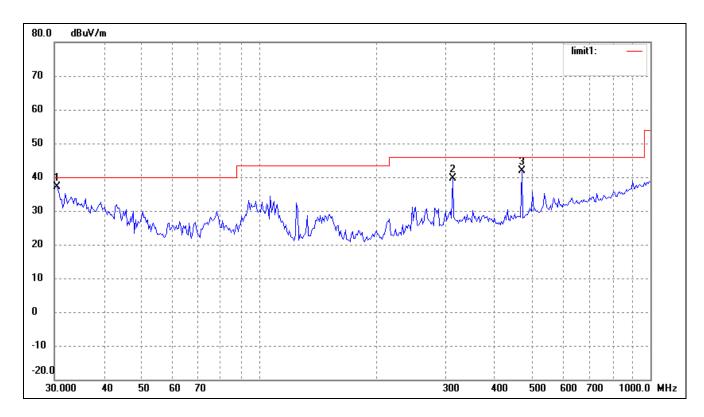
EUT: Tablet PC
Tested Model: F-10HD2Core

Operating Condition: 802.11g Transmitting Low Channel-2412MHz

Comment: AC 120V/60Hz; USB 5V



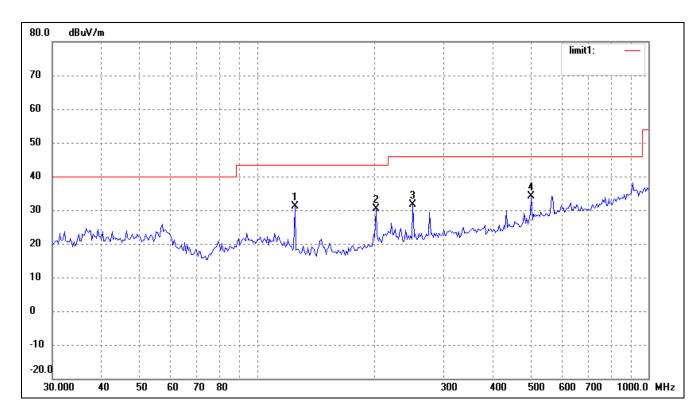
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	199.2855	28.40	6.58	34.98	43.50	-8.52	214	100	peak
2	312.1794	31.57	9.90	41.47	46.00	-4.53	76	100	peak
3	468.8762	25.29	12.06	37.35	46.00	-8.65	93	100	peak



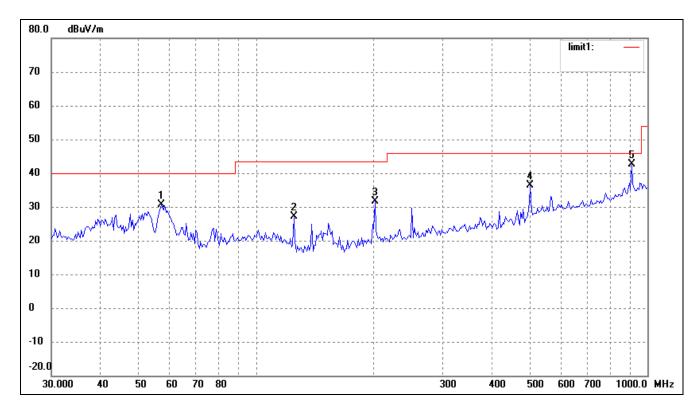
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	30.4238	30.25	6.77	37.02	40.00	-2.98	241	100	peak
2	312.1794	29.64	9.90	39.54	46.00	-6.46	36	100	peak
3	468.8762	29.75	12.06	41.81	46.00	-4.19	24	100	peak

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

Comment: AC 120V/60Hz; USB 5V



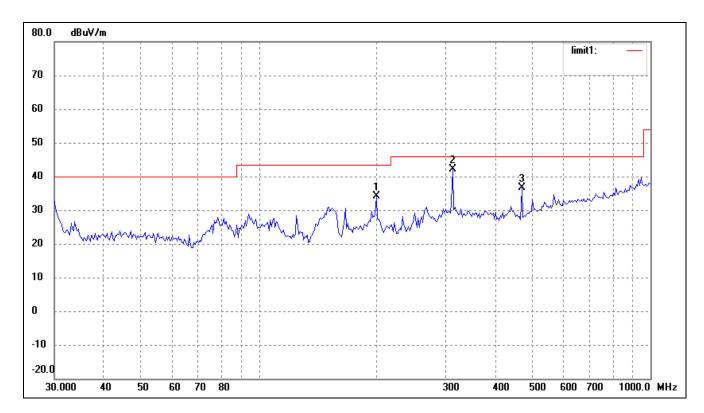
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	124.9249	26.53	4.57	31.10	43.50	-12.40	263	100	peak
2	201.4539	24.63	5.73	30.36	43.50	-13.14	14	100	peak
3	250.4859	23.82	7.69	31.51	46.00	-14.49	64	100	peak
4	502.2473	21.20	12.97	34.17	46.00	-11.83	25	100	peak



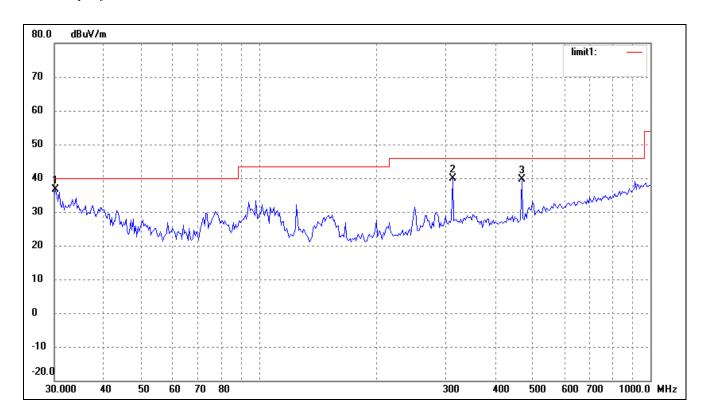
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	57.2654	23.23	7.34	30.57	40.00	-9.43	254	100	peak
2	124.9249	22.56	4.57	27.13	43.50	-16.37	68	100	peak
3	201.4539	25.83	5.73	31.56	43.50	-11.94	15	100	peak
4	502.2473	23.41	12.97	36.38	46.00	-9.62	47	100	peak
5	912.6953	23.61	19.02	42.63	46.00	-3.37	56	100	peak

Operating Condition: 802.11g Transmitting High Channel-2462MHz

Comment: AC 120V/60Hz; USB 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	199.2855	27.50	6.58	34.08	43.50	-9.42	336	100	peak
2	312.1794	32.27	9.90	42.17	46.00	-3.83	185	100	peak
3	468.8762	24.47	12.06	36.53	46.00	-9.47	41	100	peak



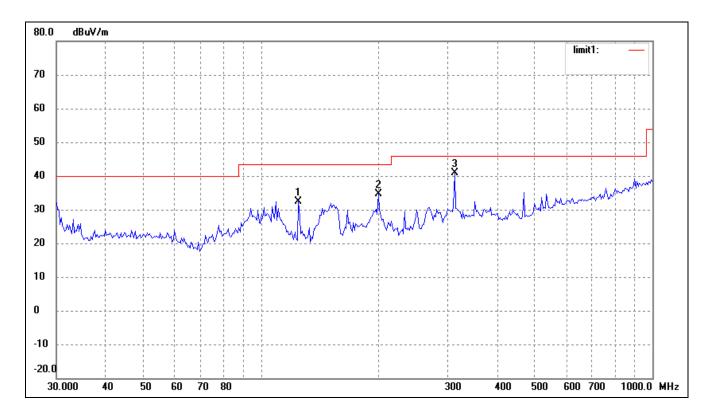
	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
ſ	1	30.2111	29.92	6.77	36.69	40.00	-3.31	254	100	peak
ſ	2	312.1794	29.95	9.90	39.85	46.00	-6.15	13	100	peak
	3	468.8762	27.68	12.06	39.74	46.00	-6.26	47	100	peak

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

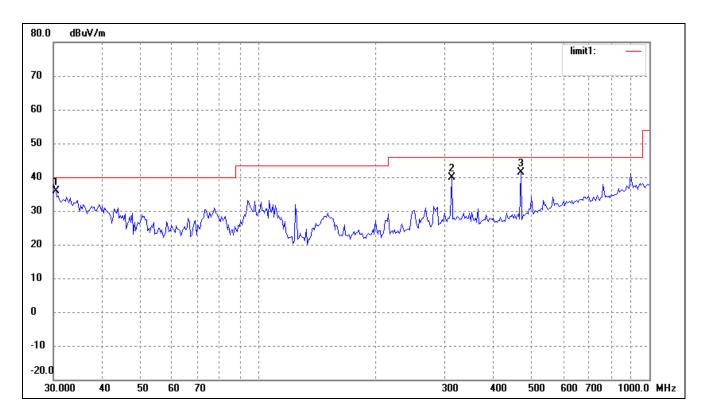
EUT: Tablet PC
Tested Model: F-10HD2Core

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

Comment: AC 120V/60Hz; USB 5V



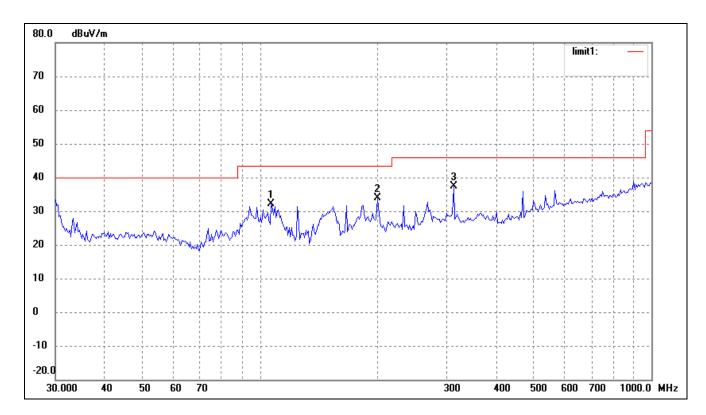
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	124.5690	27.11	5.32	32.43	43.50	-11.07	214	100	peak
2	199.2855	28.15	6.58	34.73	43.50	-8.77	31	100	peak
3	312.1794	30.98	9.90	40.88	46.00	-5.12	263	100	peak



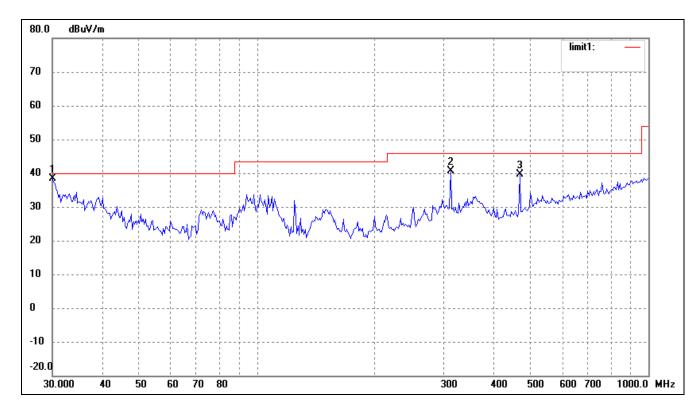
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	30.4238	29.09	6.77	35.86	40.00	-4.14	23	100	peak
2	312.1794	30.00	9.90	39.90	46.00	-6.10	64	100	peak
3	468.8762	29.44	12.06	41.50	46.00	-4.50	261	100	peak

Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2437MHz

Comment: AC 120V/60Hz; USB 5V



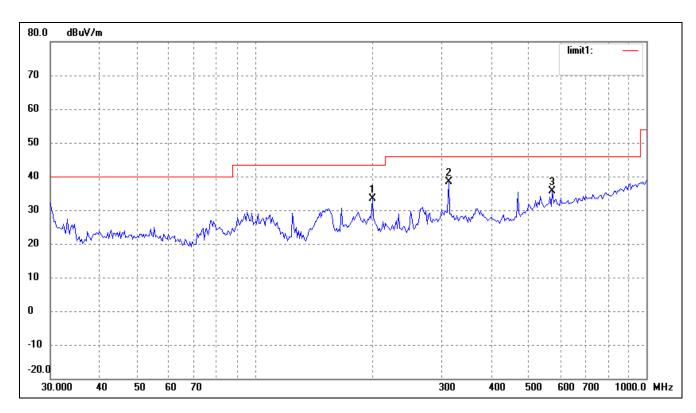
	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
Ī		(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
Ī	1	106.7587	24.20	7.86	32.06	43.50	-11.44	256	100	peak
Ī	2	199.2855	27.21	6.58	33.79	43.50	-9.71	34	100	peak
	3	312.1794	27.37	9.90	37.27	46.00	-8.73	47	100	peak



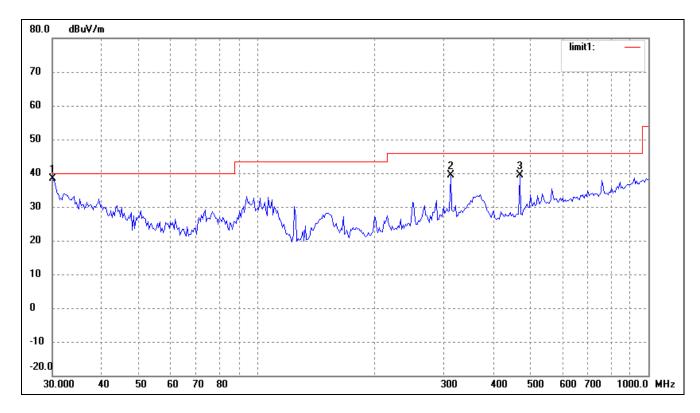
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	30.0000	31.62	6.77	38.39	40.00	-1.61	360	100	peak
2	312.1794	30.80	9.90	40.70	46.00	-5.30	24	100	peak
3	468.8762	27.59	12.06	39.65	46.00	-6.35	44	100	peak

Operating Condition: 802.11n-HT20 Transmitting High Channel-2462MHz

Comment: AC 120V/60Hz; USB 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	199.2855	26.72	6.58	33.30	43.50	-10.20	214	100	peak
2	312.1794	28.60	9.90	38.50	46.00	-7.50	334	100	peak
3	574.6258	19.46	16.10	35.56	46.00	-10.44	15	100	peak



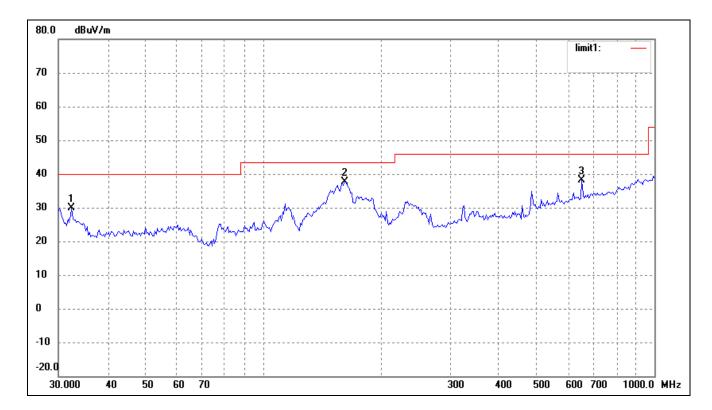
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	30.0000	31.58	6.77	38.35	40.00	-1.65	24	100	peak
2	312.1794	29.53	9.90	39.43	46.00	-6.57	35	100	peak
3	468.8762	27.25	12.06	39.31	46.00	-6.69	24	100	peak

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

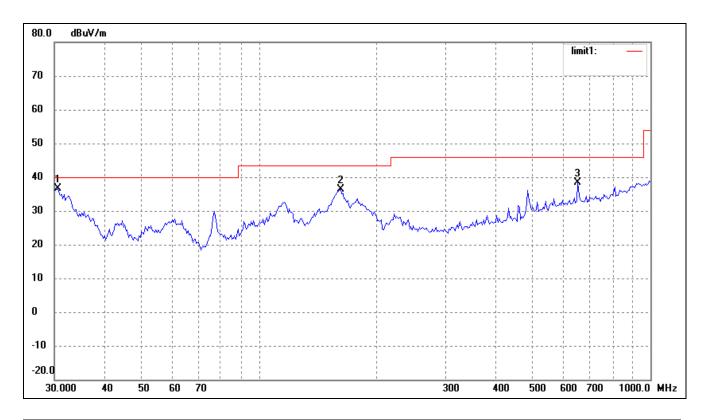
EUT: Tablet PC
Tested Model: F-10HD2Core

Operating Condition: 802.11n-HT40 Transmitting Low Channel-2422MHz

Comment: AC 120V/60Hz; USB 5V



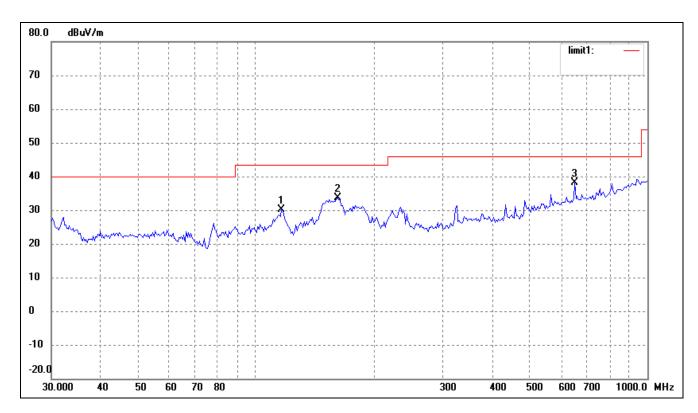
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	32.4059	23.15	6.77	29.92	40.00	-10.08	24	100	peak
2	161.4742	33.06	4.59	37.65	43.50	-5.85	341	100	peak
3	651.9417	20.90	17.11	38.01	46.00	-7.99	96	100	peak



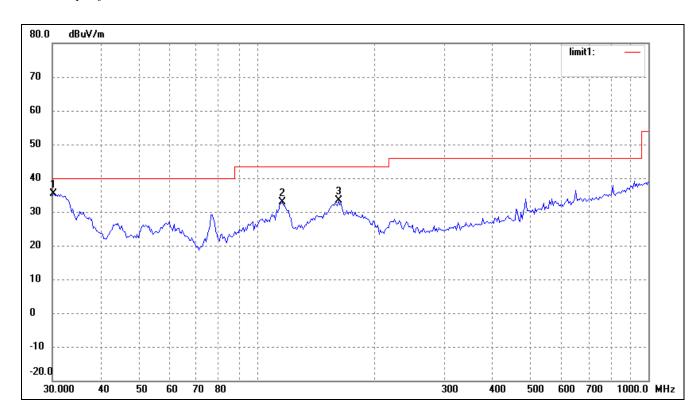
	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
ſ	1	30.6379	29.88	6.77	36.65	40.00	-3.35	321	100	peak
ſ	2	161.4742	31.87	4.59	36.46	43.50	-7.04	47	100	peak
	3	651.9417	21.15	17.11	38.26	46.00	-7.74	266	100	peak

Operating Condition: 802.11n-HT40 Transmitting Middle Channel-2437MHz

Comment: AC 120V/60Hz; USB 5V



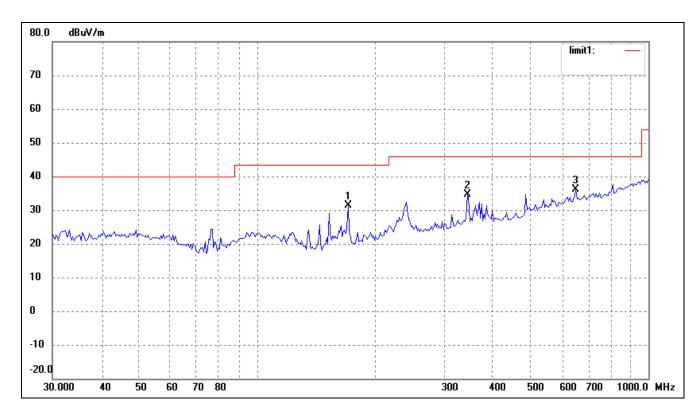
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	116.1321	23.62	6.58	30.20	43.50	-13.30	254	100	peak
2	161.4742	28.99	4.59	33.58	43.50	-9.92	27	100	peak
3	651.9417	21.00	17.11	38.11	46.00	-7.89	354	100	peak



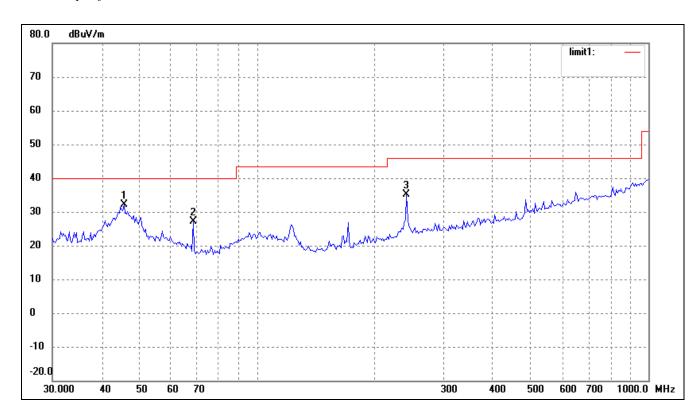
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	30.2111	28.51	6.77	35.28	40.00	-4.72	354	100	peak
2	116.1321	26.29	6.58	32.87	43.50	-10.63	12	100	peak
3	161.4742	28.71	4.59	33.30	43.50	-10.20	27	100	peak

Operating Condition: 802.11n-HT40 Transmitting High Channel-2452MHz

Comment: AC 120V/60Hz; USB 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	170.7926	26.42	4.95	31.37	43.50	-12.13	257	100	peak
2	344.3855	24.13	10.53	34.66	46.00	-11.34	34	100	peak
3	651.9417	18.93	17.11	36.04	46.00	-9.96	57	100	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	45.6948	23.91	8.20	32.11	40.00	-7.89	241	100	peak
2	68.6310	23.07	4.15	27.22	40.00	-12.78	65	100	peak
3	240.8304	26.74	8.45	35.19	46.00	-10.81	26	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	48.21	0.57	48.78	74.00	-25.22	Н	PK	
4824	34.82	0.57	35.39	54.00	-18.61	Н	AV	
7236	42.32	3.69	46.01	74.00	-27.99	Н	PK	
7236	30.93	3.69	34.62	54.00	-19.38	Н	AV	
4824	54.82	0.57	55.39	74.00	-18.61	V	PK	
4824	38.67	0.57	39.24	54.00	-14.76	V	AV	
7236	42.89	3.69	46.58	74.00	-27.42	V	PK	
7236	31.07	3.69	34.76	54.00	-19.24	V	AV	
Middle Channel-2437MHz								
4874	50.78	0.64	51.42	74.00	-22.58	Н	PK	
4874	38.70	0.64	39.34	54.00	-14.66	Н	AV	
7311	43.12	3.75	46.87	74.00	-27.13	Н	PK	
7311	31.58	3.75	35.33	54.00	-18.67	Н	AV	
4874	53.27	0.64	53.91	74.00	-20.09	V	PK	
4874	39.84	0.64	40.48	54.00	-13.52	V	AV	
7311	42.73	3.75	46.48	74.00	-27.52	V	PK	
7311	31.57	3.75	35.32	54.00	-18.68	V	AV	
			High Chann	el-2462MHz				
4924	50.19	0.72	50.91	74.00	-23.09	Н	PK	
4924	37.84	0.72	38.56	54.00	-15.44	Н	AV	
7386	43.91	3.81	47.72	74.00	-26.28	Н	PK	
7386	31.84	3.81	35.65	54.00	-18.35	Н	AV	
4924	50.75	0.72	51.47	74.00	-22.53	V	PK	
4924	37.63	0.72	38.35	54.00	-15.65	V	AV	
7386	43.63	3.81	47.44	74.00	-26.56	V	PK	
7386	31.88	3.81	35.69	54.00	-18.31	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	52.99	0.57	53.56	74.00	-20.44	Н	PK
4824	36.31	0.57	36.88	54.00	-17.12	Н	AV
7236	42.62	3.69	46.31	74.00	-27.69	Н	PK
7236	31.73	3.69	35.42	54.00	-18.58	Н	AV
4824	52.16	0.57	52.73	74.00	-21.27	V	PK
4824	37.44	0.57	38.01	54.00	-15.99	V	AV
7236	42.61	3.69	46.30	74.00	-27.70	V	PK
7236	30.71	3.69	34.40	54.00	-19.60	V	AV
			Middle Chan	nel-2437MHz			
4874	56.16	0.64	56.80	74.00	-17.20	Н	PK
4874	43.67	0.64	44.31	54.00	-9.69	Н	AV
7311	43.62	3.75	47.37	74.00	-26.63	Н	PK
7311	32.05	3.75	35.80	54.00	-18.20	Н	AV
4874	50.88	0.64	51.52	74.00	-22.48	V	PK
4874	39.19	0.64	39.83	54.00	-14.17	V	AV
7311	42.61	3.75	46.36	74.00	-27.64	V	PK
7311	31.39	3.75	35.14	54.00	-18.86	V	AV
			High Chann	el-2462MHz			
4924	54.68	0.72	55.50	74.00	-18.50	Н	PK
4924	41.03	0.72	41.75	54.00	-12.25	Н	AV
7386	44.54	3.81	48.35	74.00	-25.65	Н	PK
7386	31.40	3.81	35.21	54.00	-18.79	Н	AV
4924	48.67	0.72	49.39	74.00	-24.61	V	PK
4924	36.27	0.72	36.99	54.00	-17.01	V	AV
7386	43.42	3.81	47.23	74.00	-26.77	V	PK
7386	31.37	3.81	35.18	54.00	-18.82	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 Channe	el-2412MHz			
4824	49.63	0.57	50.20	74.00	-23.80	Н	PK
4824	35.80	0.57	36.37	54.00	-17.63	Н	AV
7236	41.69	3.69	45.38	74.00	-28.62	Н	PK
7236	30.76	3.69	34.45	54.00	-19.55	Н	AV
4824	52.45	0.57	53.02	74.00	-20.98	V	PK
4824	37.40	0.57	37.97	54.00	-16.03	V	AV
7236	41.86	3.69	45.55	74.00	-28.45	V	PK
7236	30.75	3.69	34.44	54.00	-19.56	V	AV
			Middle Chan	nel-2437MHz			
4874	55.44	0.64	56.08	74.00	-17.92	Н	PK
4874	42.71	0.64	43.35	54.00	-10.65	Н	AV
7311	43.38	3.75	47.13	74.00	-26.87	Н	PK
7311	31.88	3.75	35.63	54.00	-18.37	Н	AV
4874	50.87	0.64	51.51	74.00	-22.49	V	PK
4874	38.98	0.64	39.62	54.00	-14.38	V	AV
7311	43.40	3.75	47.15	74.00	-26.85	V	PK
7311	31.37	3.75	35.12	54.00	-18.88	V	AV
			High Chann	el-2462MHz			
4924	45.12	0.72	45.84	74.00	-28.16	Н	PK
4924	33.29	0.72	34.01	54.00	-19.99	Н	AV
7386	42.83	3.81	46.64	74.00	-27.36	Н	PK
7386	31.53	3.81	35.34	54.00	-18.66	Н	AV
4924	52.45	0.72	53.17	74.00	-20.83	V	PK
4924	40.15	0.72	40.87	54.00	-13.13	V	AV
7386	43.28	3.81	47.09	74.00	-26.91	V	PK
7386	31.47	3.81	35.28	54.00	-18.72	V	AV

Test Mode: 802.11n-HT40

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Chann	el-2422MHz			
4844	43.40	0.60	44.00	74.00	-30.00	Н	PK
4844	32.53	0.60	33.13	54.00	-20.87	Н	AV
7266	42.54	3.72	46.26	74.00	-27.74	Н	PK
7266	30.92	3.72	34.64	54.00	-19.36	Н	AV
4844	51.04	0.60	51.64	74.00	-22.36	V	PK
4844	36.28	0.60	36.88	54.00	-17.12	V	AV
7266	42.09	3.72	45.81	74.00	-28.19	V	PK
7266	31.06	3.72	34.78	54.00	-19.22	V	AV
			Middle Chan	nel-2437MHz			
4874	45.08	0.64	45.72	74.00	-28.28	Н	PK
4874	33.56	0.64	34.20	54.00	-19.80	Н	AV
7311	42.85	3.75	46.60	74.00	-27.40	Н	PK
7311	31.54	3.75	35.29	54.00	-18.71	Н	AV
4874	52.02	0.64	52.66	74.00	-21.34	V	PK
4874	40.06	0.64	40.70	54.00	-13.30	V	AV
7311	44.62	3.75	48.37	74.00	-25.63	V	PK
7311	31.40	3.75	35.15	54.00	-18.85	V	AV
			High Chann	el-2452MHz			
4904	44.56	0.68	45.24	74.00	-28.76	Н	PK
4904	32.42	0.68	33.10	54.00	-20.90	Н	AV
7356	42.94	3.79	46.73	74.00	-27.27	Н	PK
7356	31.42	3.79	35.21	54.00	-18.79	Н	AV
4904	50.68	0.68	51.36	74.00	-22.64	V	PK
4904	39.66	0.68	40.34	54.00	-13.66	V	AV
7356	42.34	3.79	46.13	74.00	-27.87	V	PK
7356	31.45	3.79	35.24	54.00	-18.76	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.

8. Out of Band Emissions

8.1 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).

8.2 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

8.3 Test Procedure

According to the KDB 558074 D01 V02, 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 porduct 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.

8.4 Environmental Conditions

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

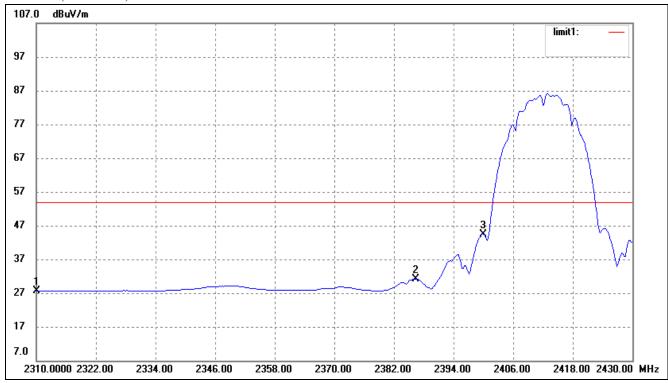
8.5 Summary of Test Results/Plots

Test Mode	Test Frequency MHz	Limit dBuV / dBc	Result
	2390.00	<54 dBuV	Pass
802.11b	2400.00	>20 dBc	Pass
	2483.50	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
802.11g	2400.00	>20 dBc	Pass
	2483.50	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
802.11n-HT20	2400.00	>20 dBc	Pass
	2483.50	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
802.11n-HT40	2400.00	>20 dBc	Pass
	2483.50	<54 dBuV	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.247(d) requirements.

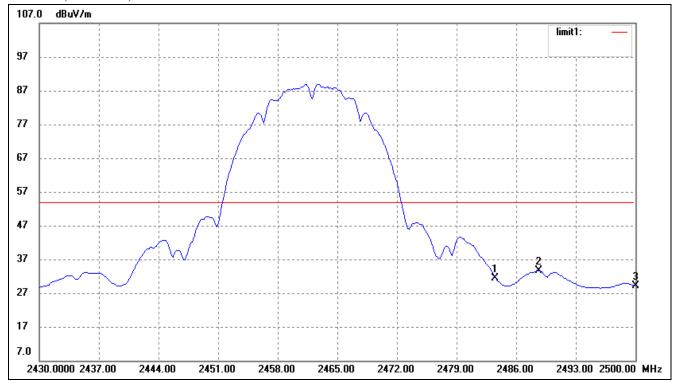
Please refer to the test plots as below.

802.11b-Lowest Bandedge



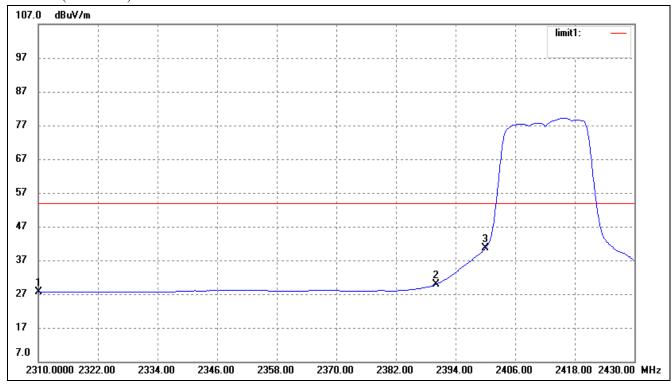
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	32.30	-4.65	27.65	54.00	-26.35	AV Detector
	2310.000	45.81	-4.65	41.16	74.00	-32.84	Peak Detector
2	2386.320	35.63	-4.46	31.17	54.00	-22.83	AV Detector
	2386.320	49.05	-4.46	44.59	74.00	-29.41	Peak Detector
3	2400.000	48.84	-4.43	44.41	54.00	-9.59	AV Detector
	2400.000	56.76	-4.43	52.33	74.00	-21.67	Peak Detector

802.11b-Highest Bandedge



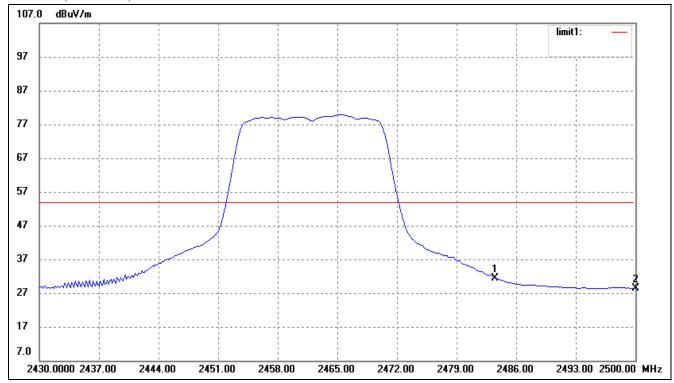
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	35.65	-4.23	31.42	54.00	-22.58	AV Detector
	2483.500	48.99	-4.23	44.76	74.00	-29.24	Peak Detector
2	2488.660	37.87	-4.21	33.66	54.00	-20.34	AV Detector
	2488.660	50.17	-4.21	45.96	74.00	-28.04	Peak Detector
3	2500.000	33.35	-4.18	29.17	54.00	-24.83	AV Detector
	2500.000	38.34	-4.18	34.16	74.00	-39.84	Peak Detector

802.11g-Lowest Bandedge



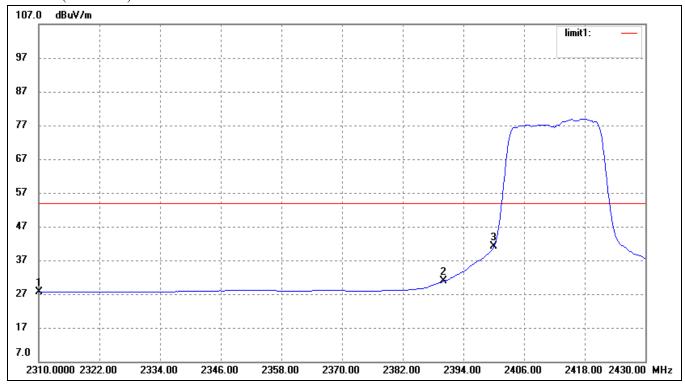
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	32.33	-4.65	27.68	54.00	-26.32	AV Detector
	2310.000	55.11	-4.65	50.46	74.00	-23.54	Peak Detector
2	2390.000	34.40	-4.46	29.94	54.00	-24.06	AV Detector
	2390.000	47.99	-4.46	43.53	74.00	-30.47	Peak Detector
3	2400.000	45.07	-4.43	40.64	54.00	-13.36	AV Detector
	2400.000	55.99	-4.43	51.56	74.00	-22.44	Peak Detector

802.11g-Highest Bandedge



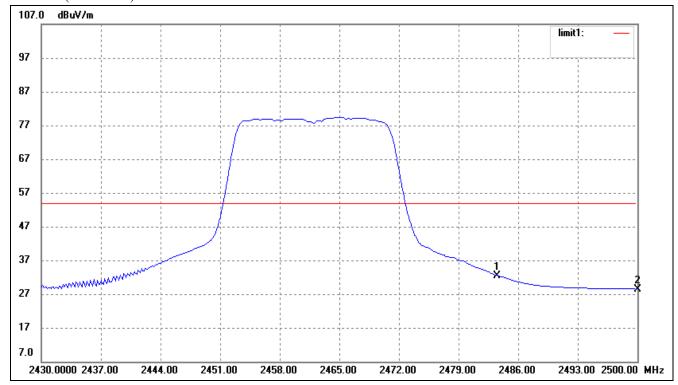
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	35.52	-4.23	31.29	54.00	-22.71	AV Detector
	2483.500	49.24	-4.23	45.01	74.00	-28.99	Peak Detector
2	2500.000	32.63	-4.18	28.45	54.00	-25.55	AV Detector
	2500.000	46.04	-4.18	41.86	74.00	-32.14	Peak Detector

802.11n-HT20-Lowest Bandedge



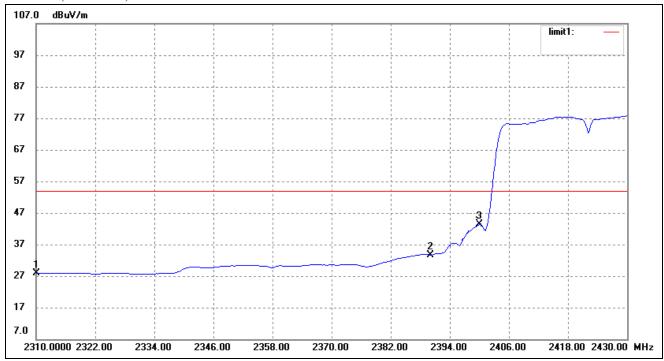
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	32.32	-4.65	27.67	54.00	-26.33	AV Detector
	2310.000	45.84	-4.65	41.19	74.00	-32.81	Peak Detector
2	2390.000	35.37	-4.46	30.91	54.00	-23.09	AV Detector
	2390.000	48.99	-4.46	44.53	74.00	-29.47	Peak Detector
3	2400.000	45.44	-4.43	41.01	54.00	-12.99	AV Detector
	2400.000	54.21	-4.43	49.78	74.00	-24.22	Peak Detector

802.11n-HT20-Highest Bandedge



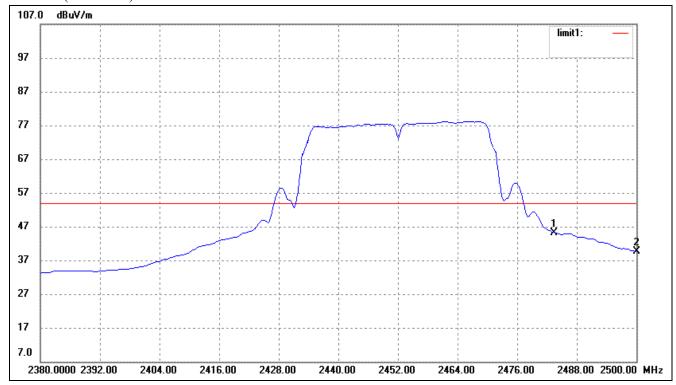
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.65	-4.23	32.42	54.00	-21.58	AV Detector
	2483.500	49.99	-4.23	45.76	74.00	-28.24	Peak Detector
2	2500.000	32.67	-4.18	28.49	54.00	-25.51	AV Detector
	2500.000	46.49	-4.18	42.31	74.00	-31.69	Peak Detector

802.11n-HT40-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	32.54	-4.65	27.89	54.00	-26.11	AV Detector
	2310.000	45.91	-4.65	41.26	74.00	-32.74	Peak Detector
2	2390.000	38.12	-4.46	33.66	54.00	-20.34	AV Detector
	2390.000	51.33	-4.46	46.87	74.00	-27.13	Peak Detector
3	2400.000	47.83	-4.43	43.40	54.00	-10.60	AV Detector
	2400.000	59.79	-4.43	55.36	74.00	-8.64	AV Detector

802.11n-HT40-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	49.45	-4.23	45.22	54.00	-8.78	AV Detector
	2483.500	62.86	-4.23	58.63	74.00	-15.37	Peak Detector
2	2500.000	43.78	-4.18	39.60	54.00	-14.40	AV Detector
	2500.000	56.94	-4.18	52.76	74.00	-21.24	Peak Detector

9. Conducted Emissions

9.1 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.

9.2 Test Equipment List and Details

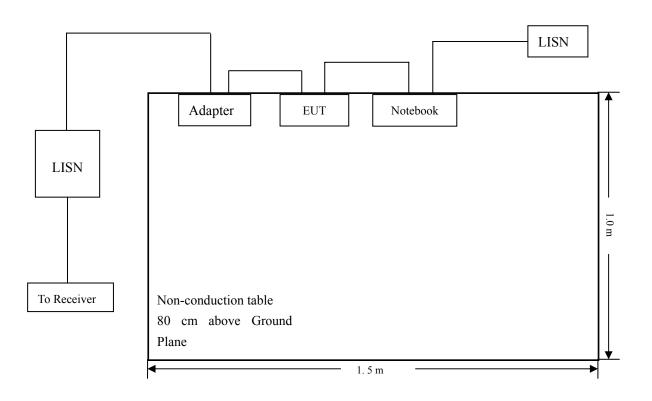
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2013-05-07	2014-05-06
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2013-05-07	2014-05-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2013-05-07	2014-05-06

9.3 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.

9.4 Basic Test Setup Block Diagram



9.5 Environmental Conditions

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

9.6 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	
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

9.7 Summary of Test Results/Plots

According to the data in section 9.8, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-1.87 dB at 0.514 MHz in the Neutral mode, Ave detector, 0.15-30MHz

9.8 Conducted Emissions Test Data

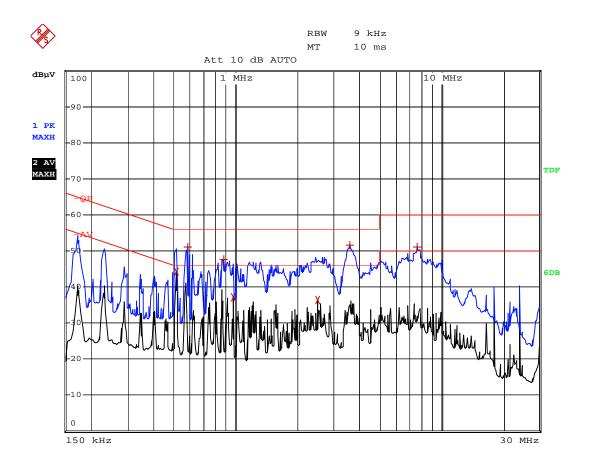
Plot of Conducted Emissions Test Data

EUT: Tablet PC
Tested Model: F-10HD2Core

Operating Condition: Wireless Transmitting

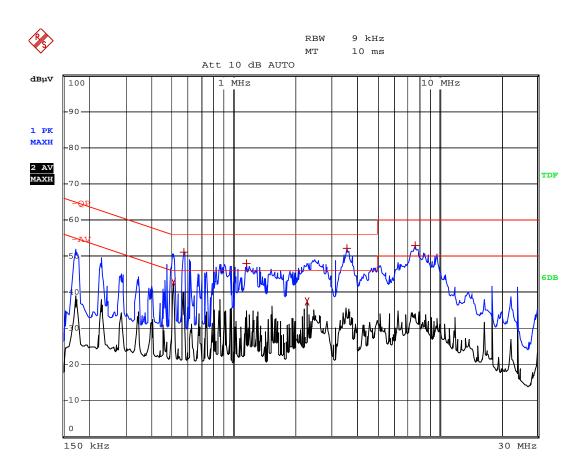
Comment: AC 120V/60Hz; Adapter DC 5V

Test Specification: Neutral



	DDIM DDAW LIGHT	D						
EDIT PEAK LIST (Prescan Results)								
Trace1: -QP								
Trace2: -AV								
Trace3:								
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB					
2 Average	514 kHz	44.12	-1.87					
1 Max Peak	582 kHz	51.03	-4.96					
1 Max Peak	878 kHz	47.63	-8.36					
2 Average	970 kHz	37.13	-8.86					
2 Average	2.518 MHz	36.32	-9.67					
1 Max Peak	3.594 MHz	51.44	-4.55					
1 Max Peak	7.674 MHz	51.03	-8.96					

Test Specification: Line



	EDIT PEAK LIST (Prescan Results)							
Trace1:	-QP							
Trace2:	-AV							
Trace3:								
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB					
2 Average	510 kHz	42.69	-3.30					
1 Max Peak	574 kHz	51.05	-4.94					
1 Max Peak	1.154 MHz	48.01	-7.98					
2 Average	2.29 MHz	37.46	-8.53					
1 Max Peak	3.57 MHz	51.98	-4.01					
1 Max Peak	7.674 MHz	52.76	-7.23					

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