

FCC Part 15C Measurement and Test Report

For

Amelia World Corporation dba LINSAY

16340 West Dixie Highway, North Miami Beach, Florida

FCC ID: 2AAC37HD4CORE

FCC Rules: FCC Part 15C

Product Description: Tablet PC

Tested Model: F-7HD4Core

Report No.: STR13058388I-1

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

Issued Date: 2013-06-25

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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-8HD4Core
Adding Model(s):	/
Rated Voltage:	DC 3.7V battery
Power Adapter Model:	ZFXPA02000050 (Input: AC 100-240V/0.5A; Output: DC 5V/2A)
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b/g/n
Frequency Range:	2412-2462MHz, 2422-2452MHz
RF Output Power:	7.91 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:	1.56 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:

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

4.4 Environmental Conditions

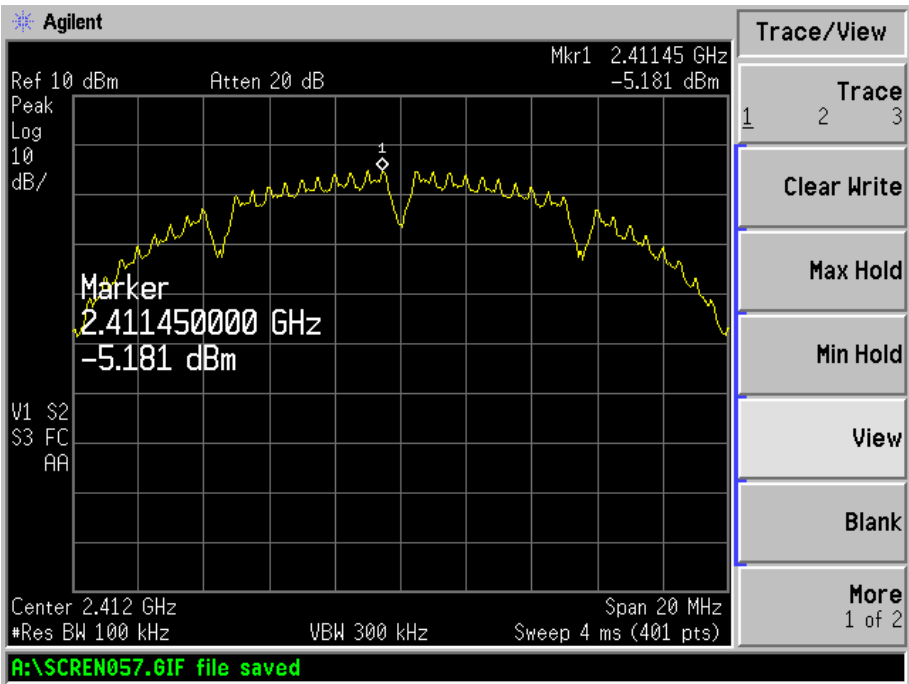
Temperature:	20° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

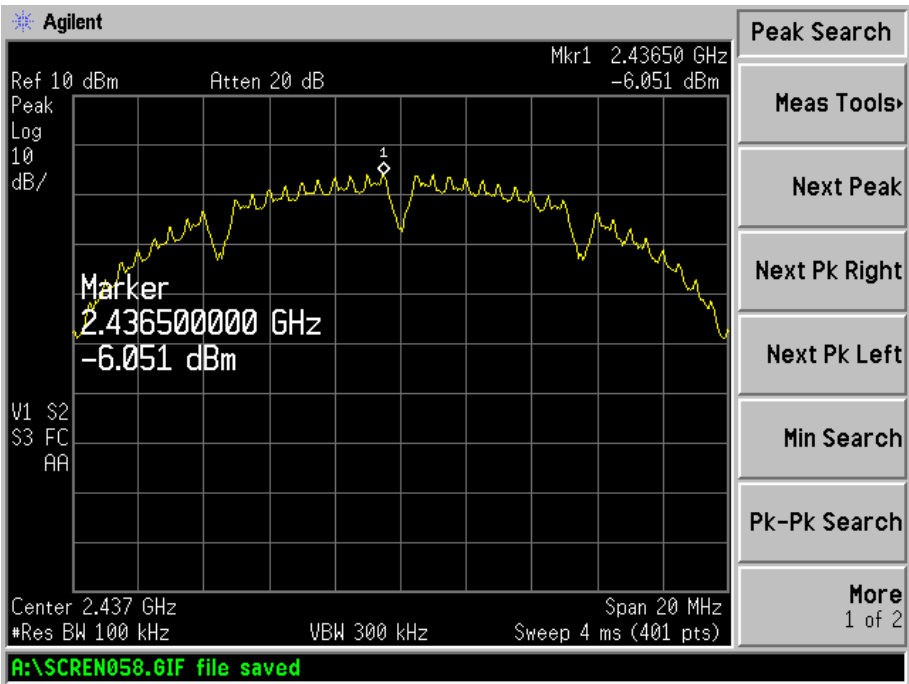
Test Mode	Test Channel MHz	Power Spectral Density dBm/100kHz	Limit dBm
802.11b	2412	-5.181	8
	2437	-6.051	8
	2462	-6.696	8
802.11g	2412	-9.487	8
	2437	-9.764	8
	2462	-10.250	8
802.11n HT20	2412	-10.240	8
	2437	-10.260	8
	2462	-11.240	8
802.11n HT40	2422	-12.880	8
	2437	-13.320	8
	2452	-13.880	8

Please refer to the following test plots:

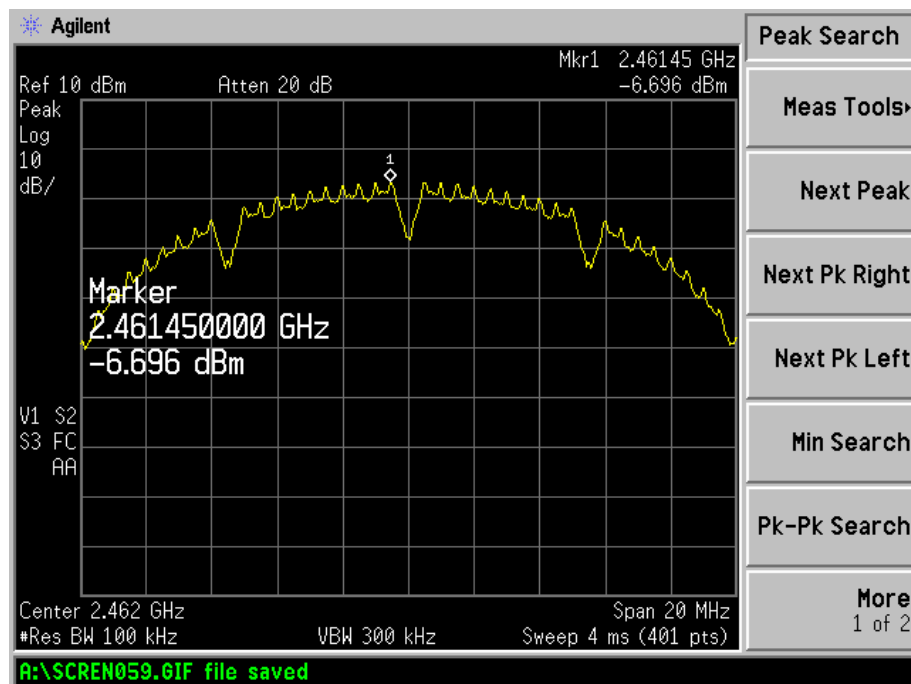
802.11b-Low Channel



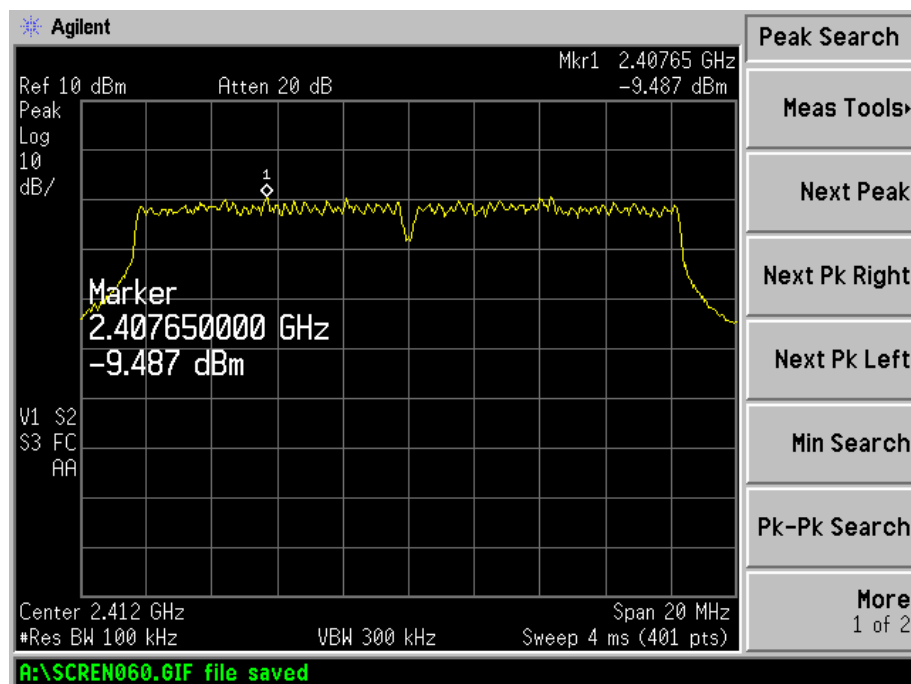
802.11b-Middle Channel



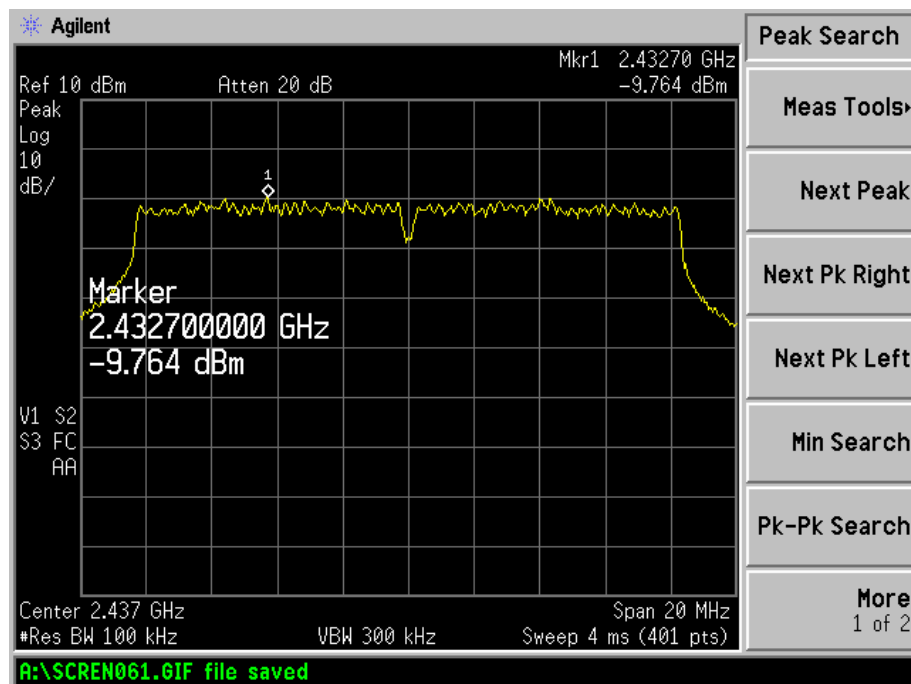
802.11b-High Channel



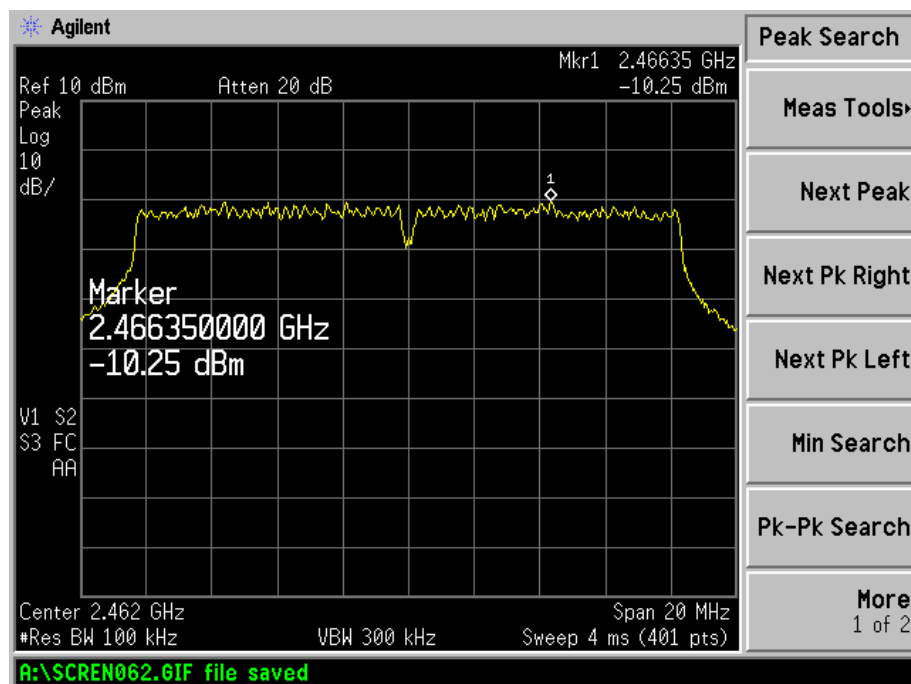
802.11g-Low Channel



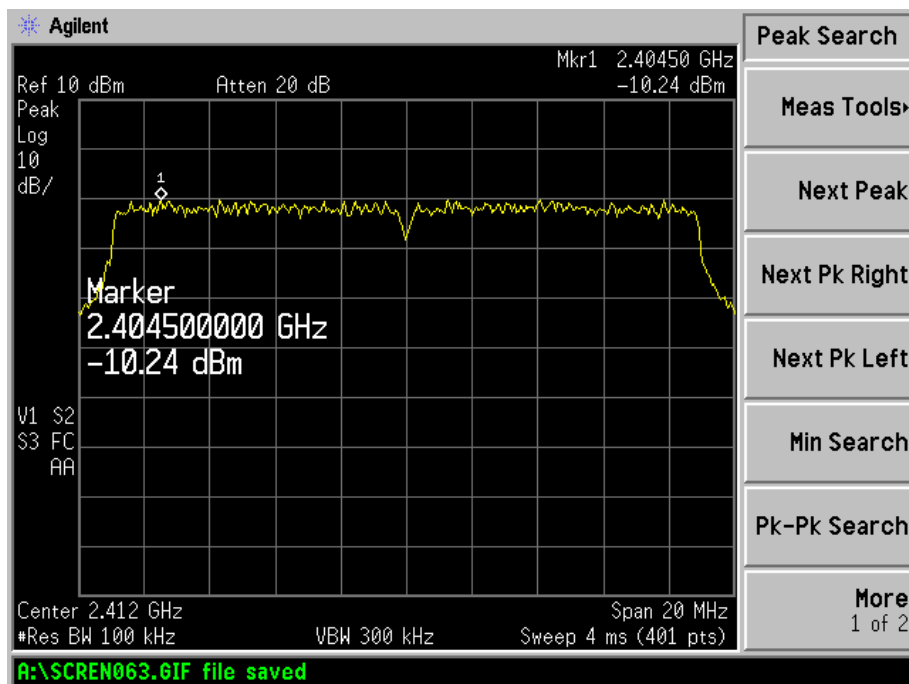
802.11g-Middle Channel



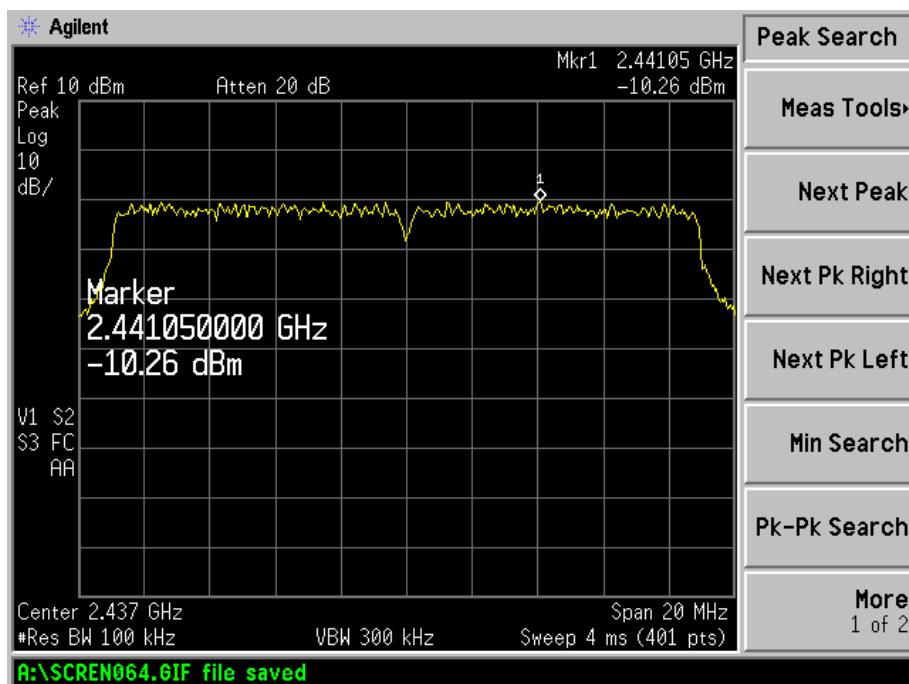
802.11g-High Channel



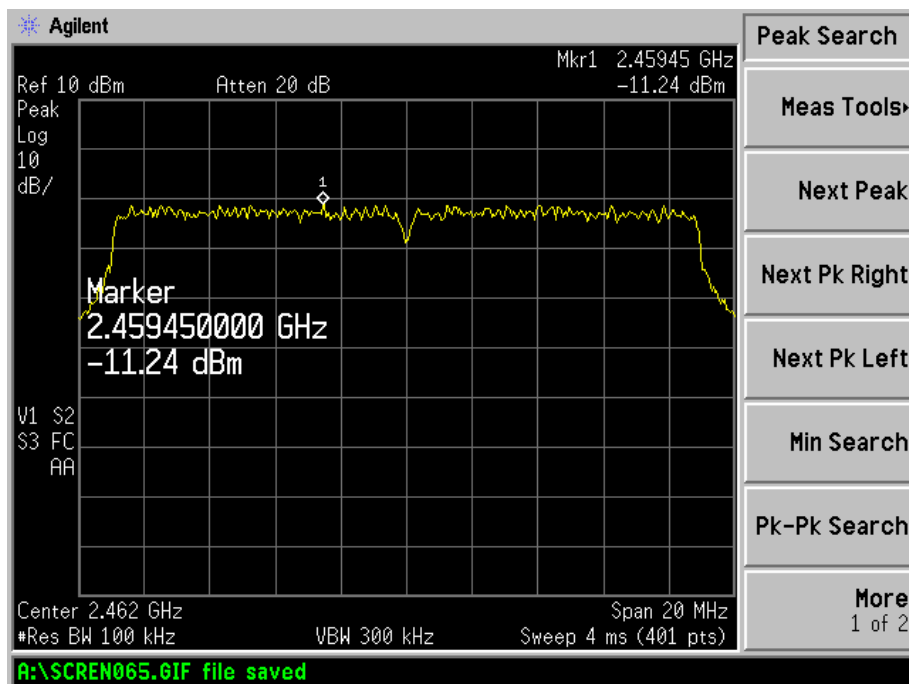
802.11n-HT20-Low Channel



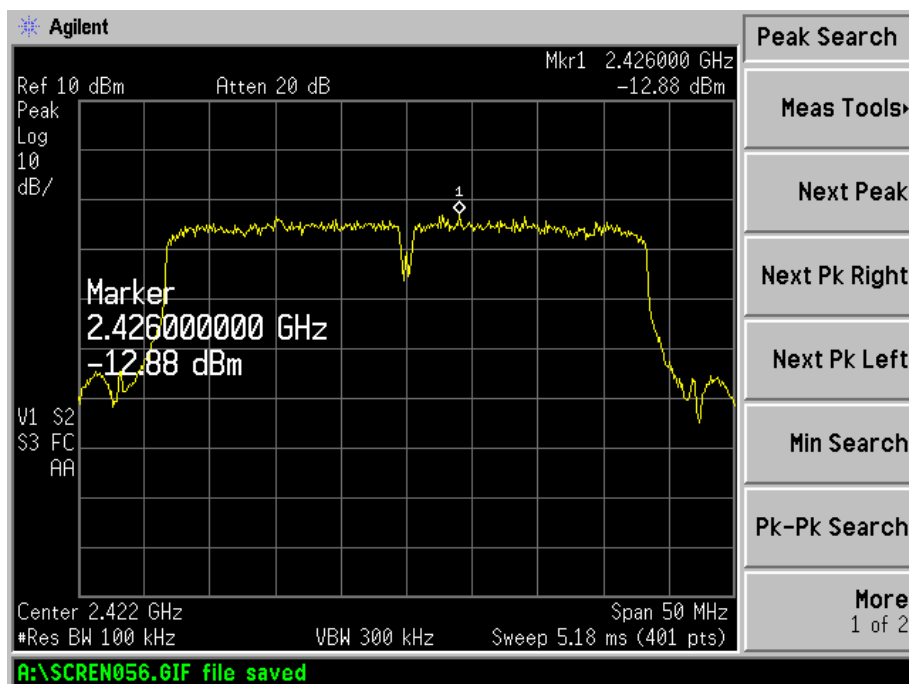
802.11n-HT20-Middle Channel



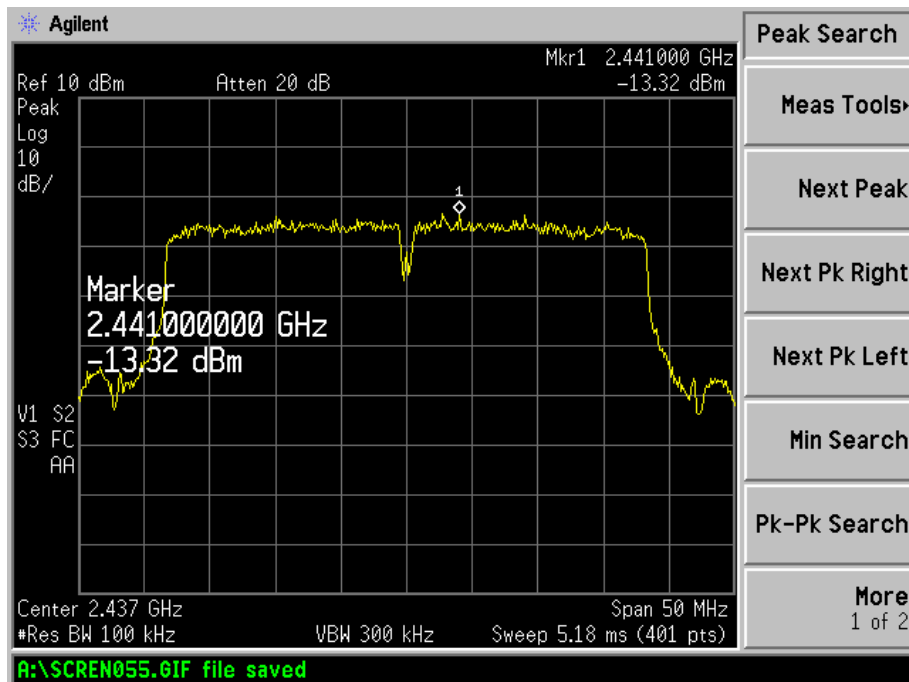
802.11n-HT20-High Channel



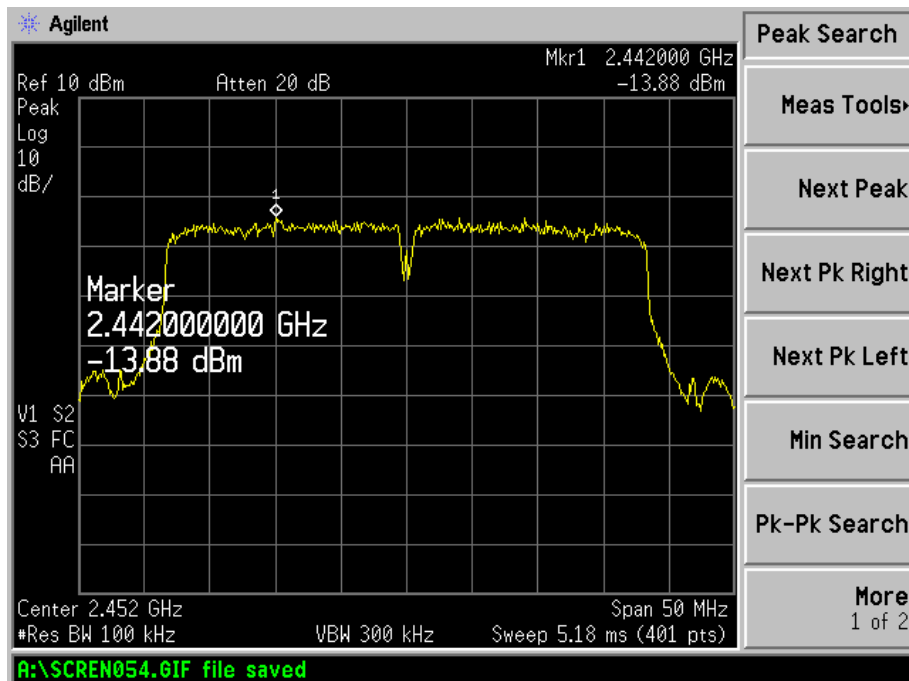
802.11n-HT40-Low Channel



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) $\geq 3 \times$ 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 frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Environmental Conditions

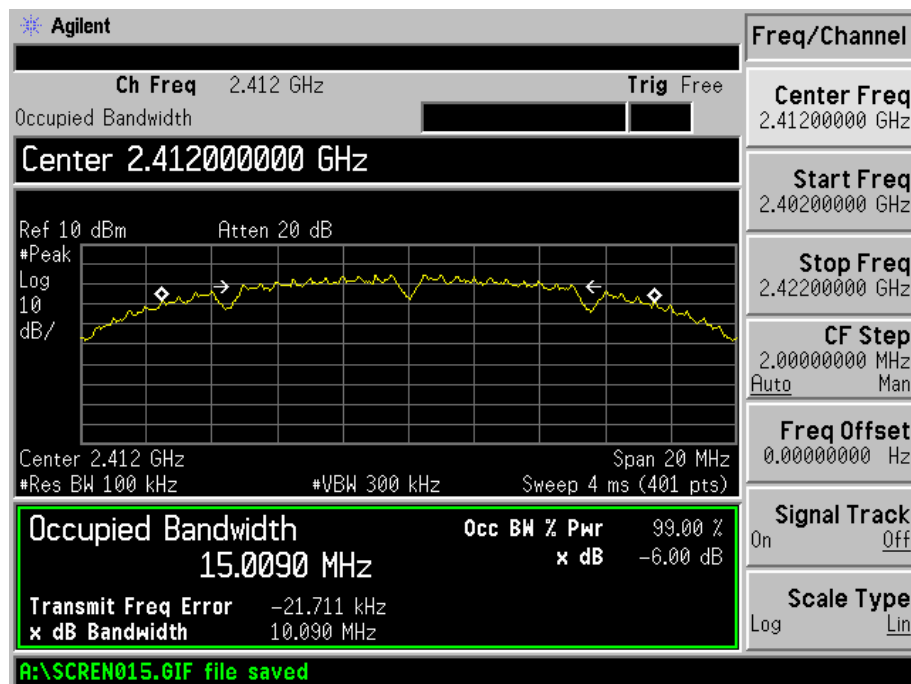
Temperature:	24° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

5.5 Summary of Test Results/Plots

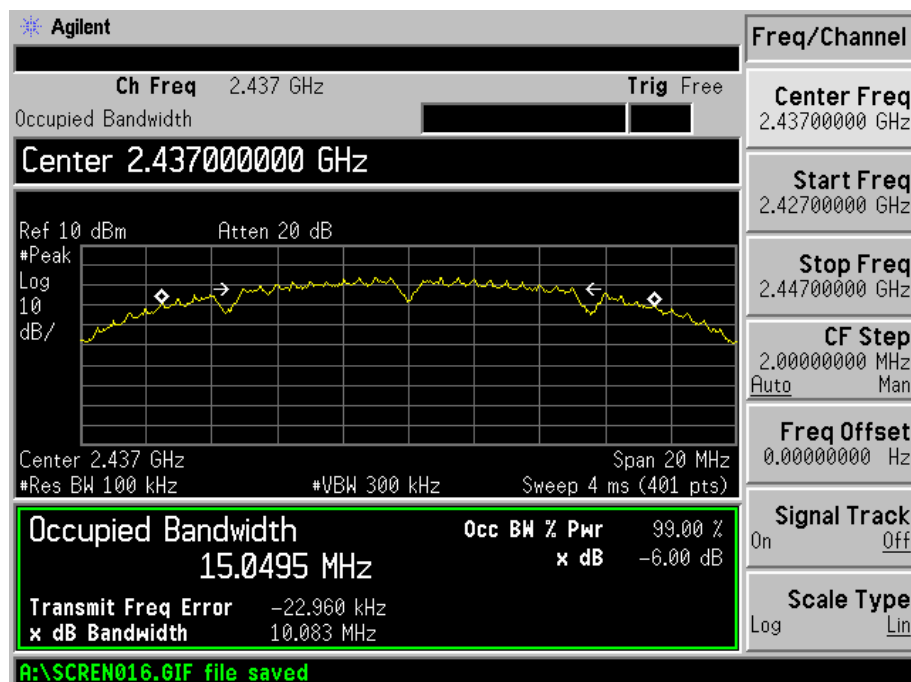
Test Mode	Test Channel MHz	6 dB Bandwidth kHz	Limit kHz
802.11b	2412	10090	500
	2437	10083	500
	2462	10081	500
802.11g	2412	16557	500
	2437	16562	500
	2462	16546	500
802.11n-HT20	2412	17804	500
	2437	17757	500
	2462	17760	500
802.11n-HT40	2422	36108	500
	2437	36380	500
	2452	36388	500

Please refer to the following test plots:

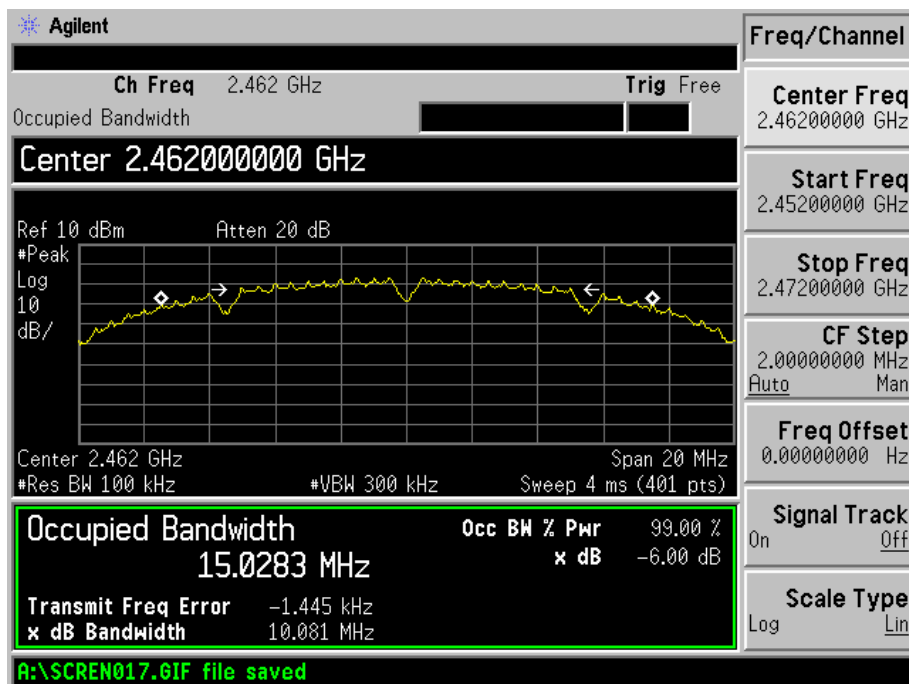
802.11b-Low Channel



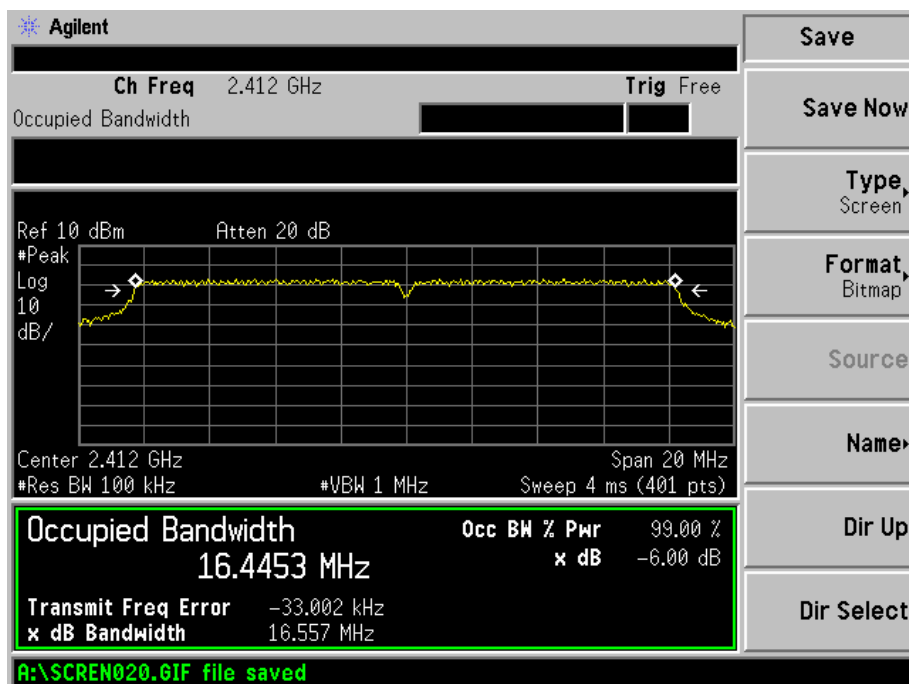
802.11b-Middle Channel



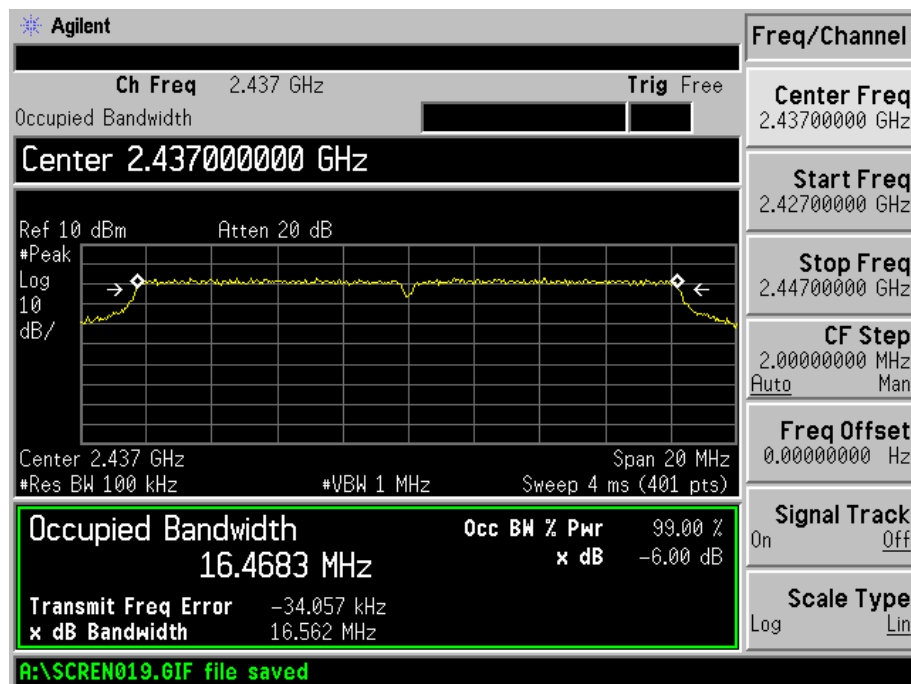
802.11b-High Channel



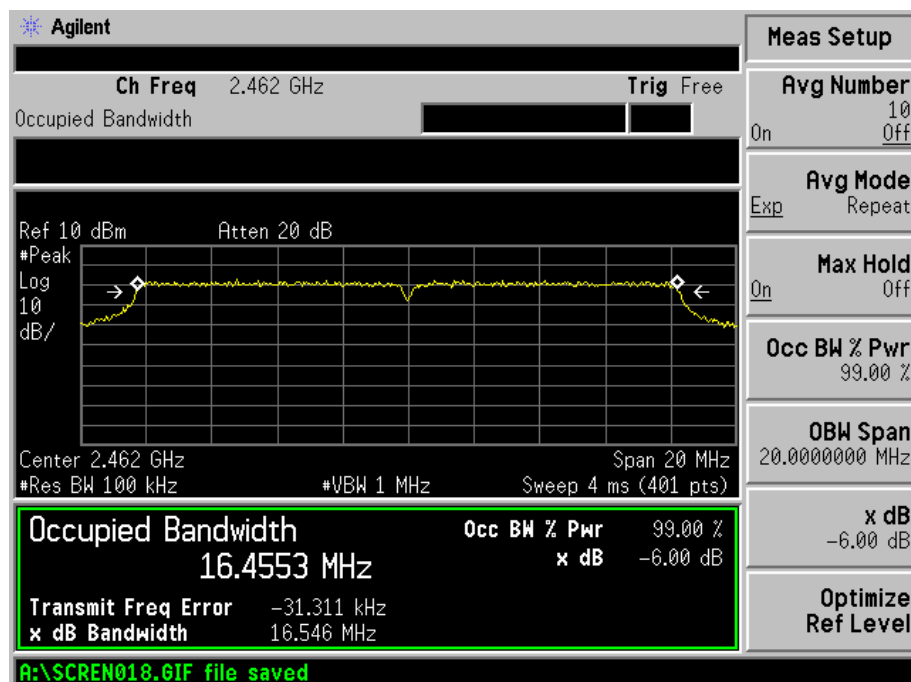
802.11g-Low Channel



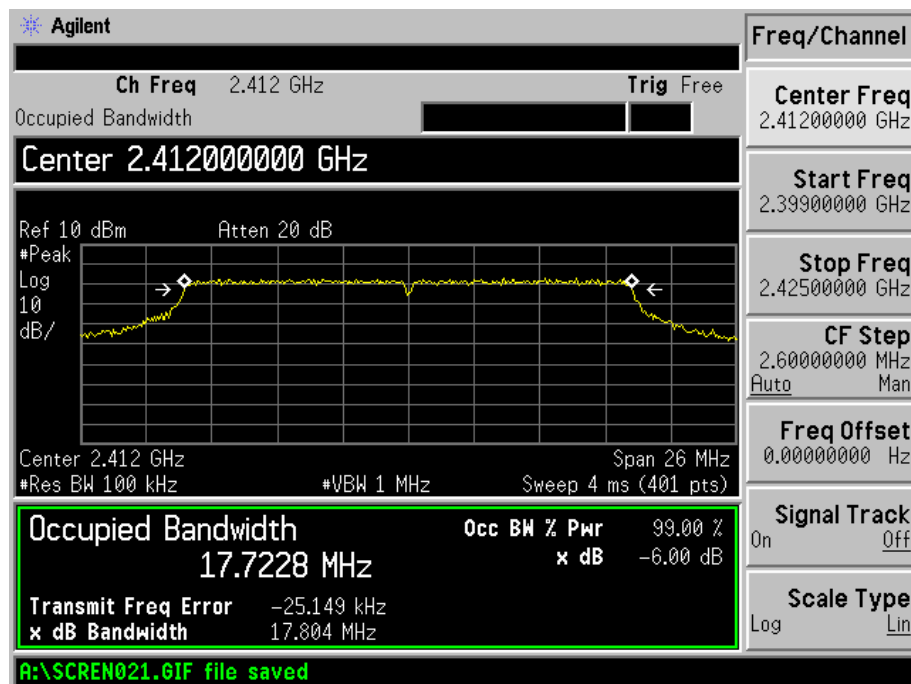
802.11g-Middle Channel



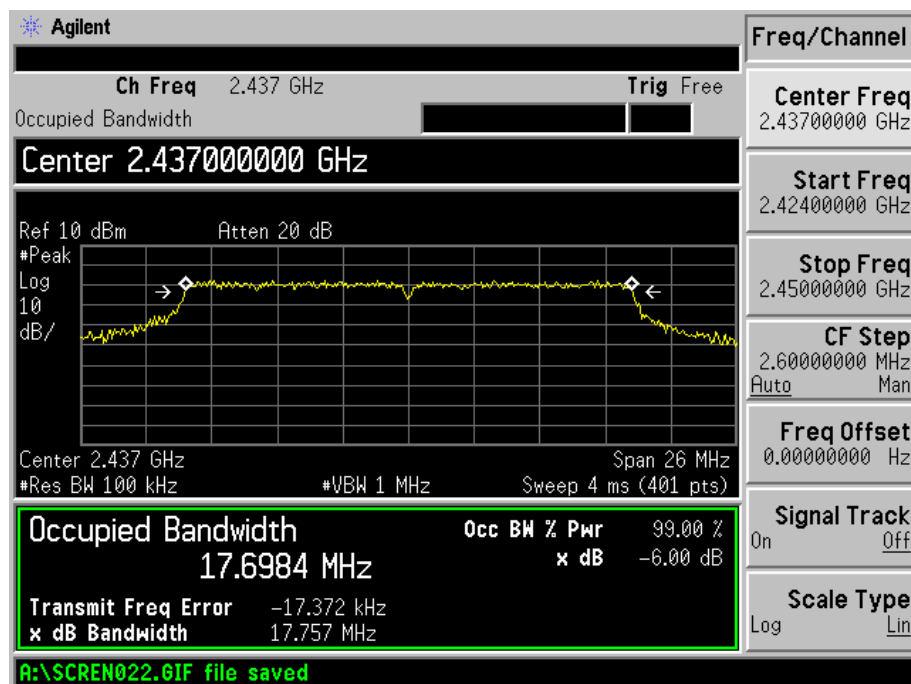
802.11g-High Channel



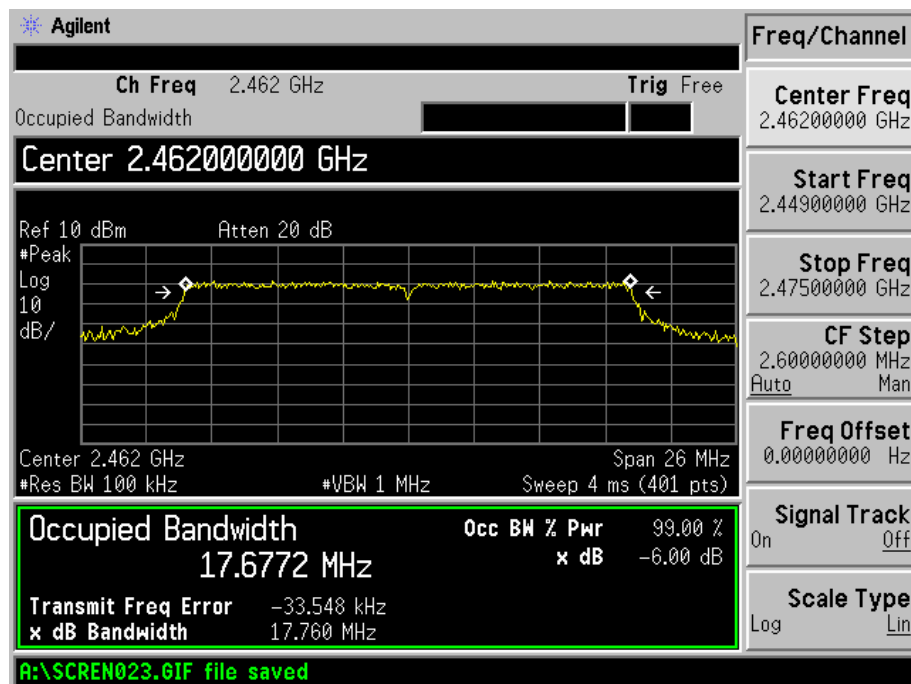
802.11n-HT20-Low Channel



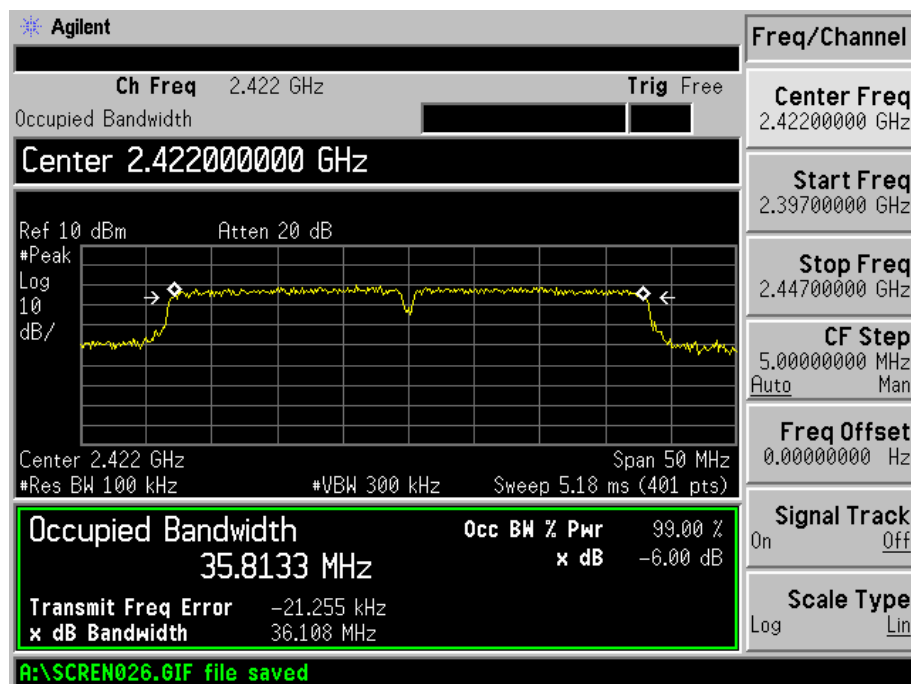
802.11n-HT20-Middle Channel



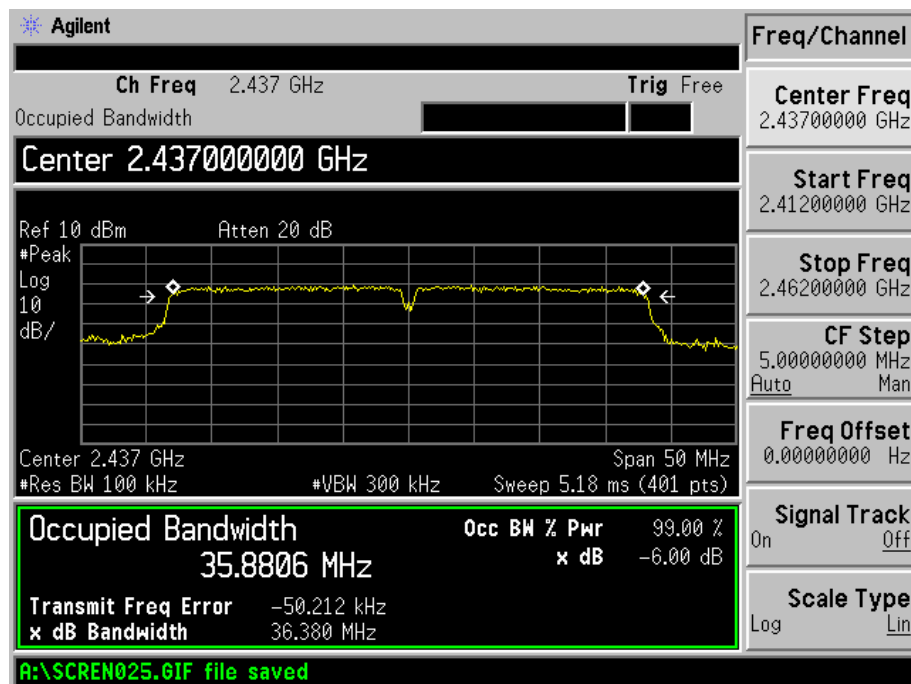
802.11n-HT20-High Channel



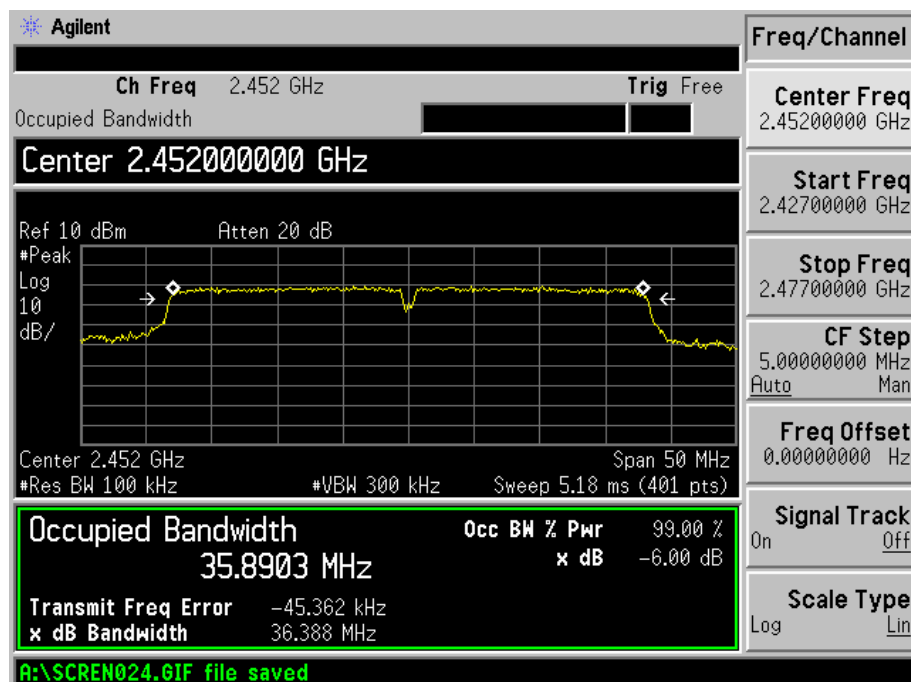
802.11n-HT40-Low Channel



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

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 x 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

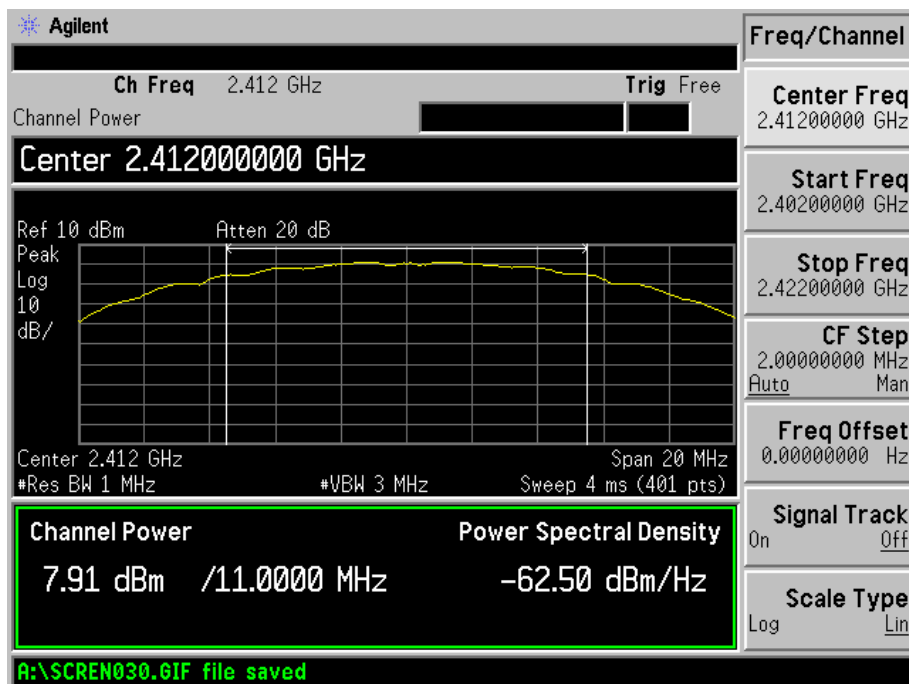
Temperature:	21° C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

6.5 Summary of Test Results/Plots

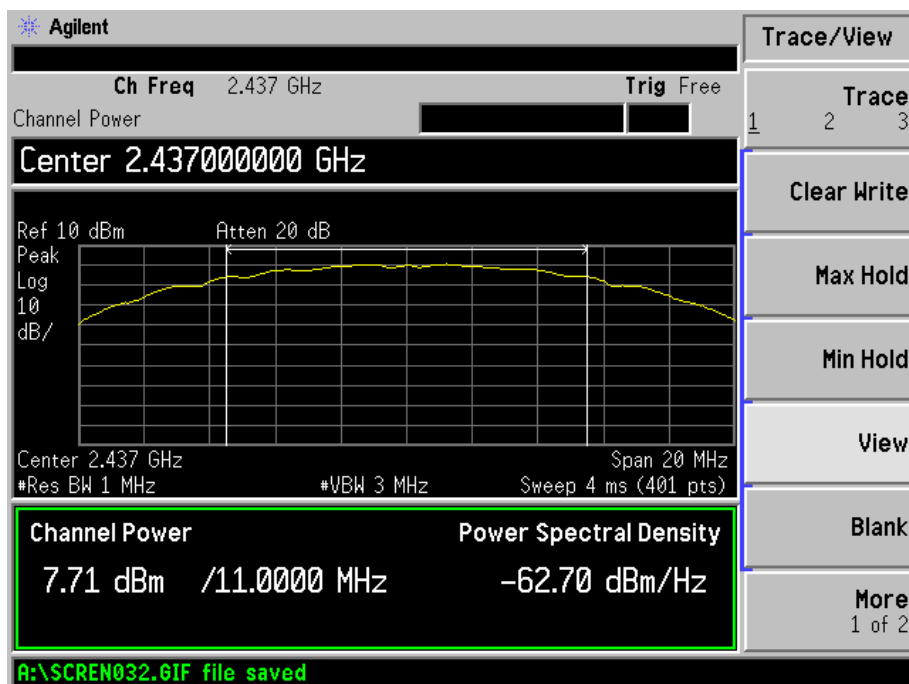
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_1Mbps	2412	7.91	6.1802	1000
	2437	7.71	5.9020	1000
	2462	7.47	5.5847	1000
802.11b_11Mbps	2412	7.87	6.1235	1000
	2437	7.61	5.7677	1000
	2462	7.35	5.4325	1000
802.11g_6Mbps	2412	6.94	4.9431	1000
	2437	6.70	4.6774	1000
	2462	6.31	4.2756	1000
802.11g_54Mbps	2412	7.48	5.5976	1000
	2437	7.02	5.0350	1000
	2462	6.59	4.5604	1000
802.11n HT20_MCS0	2412	7.27	5.3333	1000
	2437	6.97	4.9774	1000
	2462	6.64	4.6132	1000
802.11n HT20_MCS7	2412	7.39	5.4828	1000
	2437	7.18	5.2240	1000
	2462	6.71	4.6881	1000
802.11n HT40_MCS0	2422	6.41	4.3752	1000
	2437	6.35	4.3152	1000
	2452	6.05	4.0272	1000
802.11n HT40_MCS7	2422	6.93	4.9317	1000
	2437	6.65	4.6238	1000
	2452	6.93	4.9317	1000

Please refer to the following test plots:

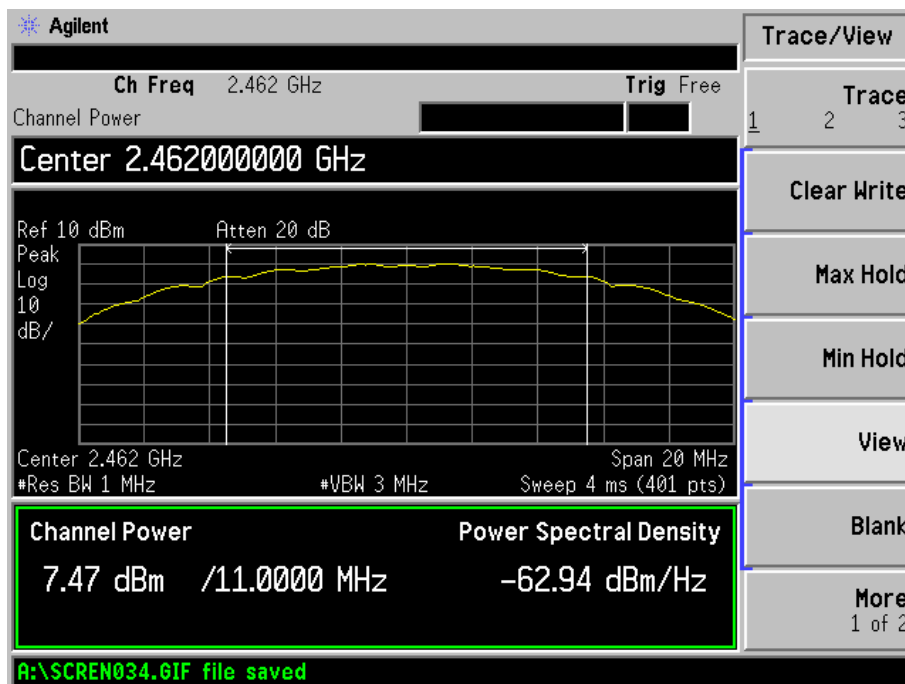
802.11b-1Mbps-Low Channel



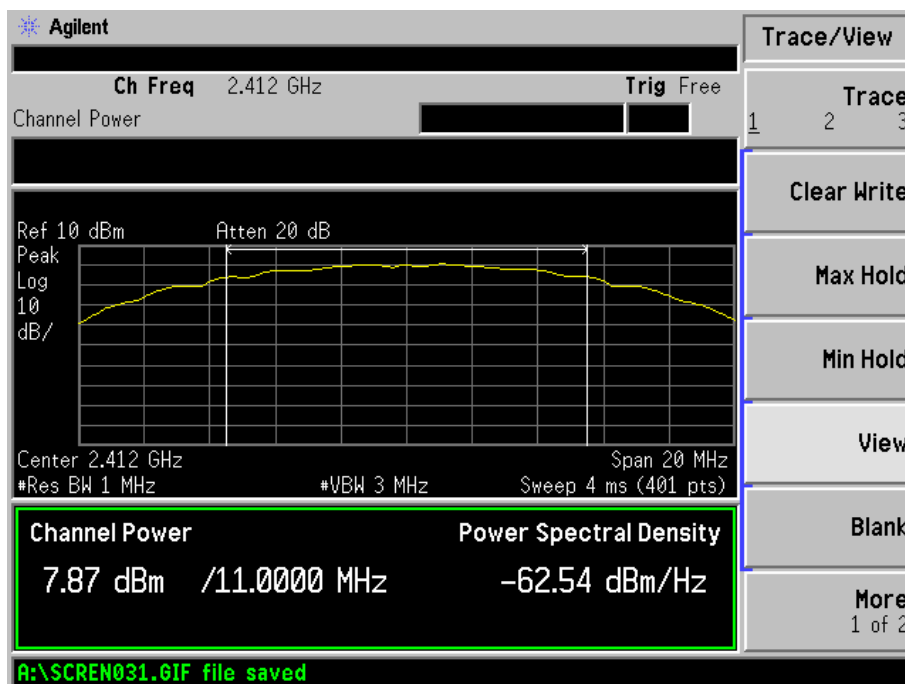
802.11b-1Mbps-Middle Channel



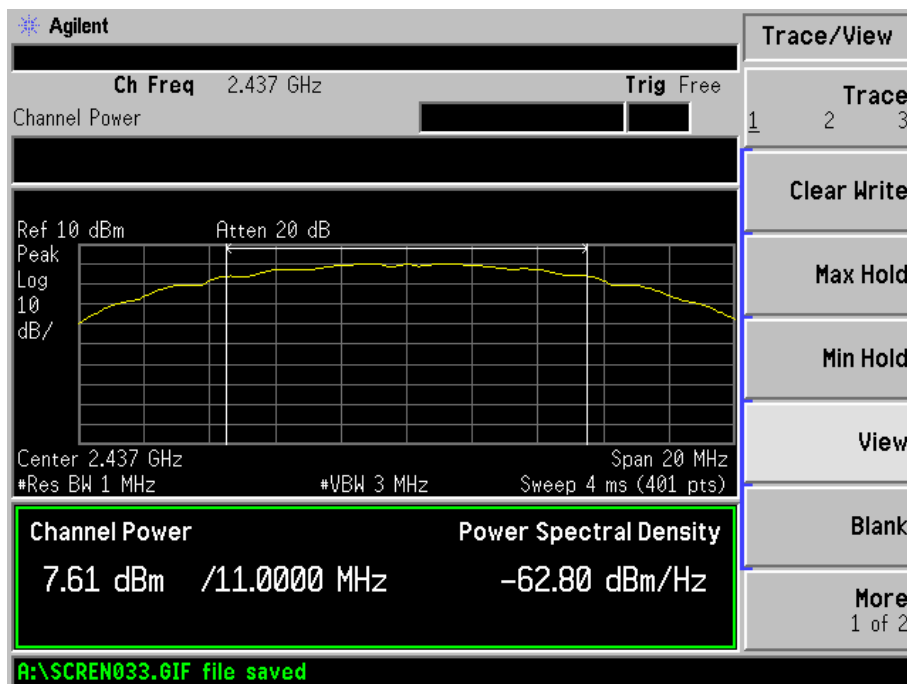
802.11b-1Mbps-High Channel



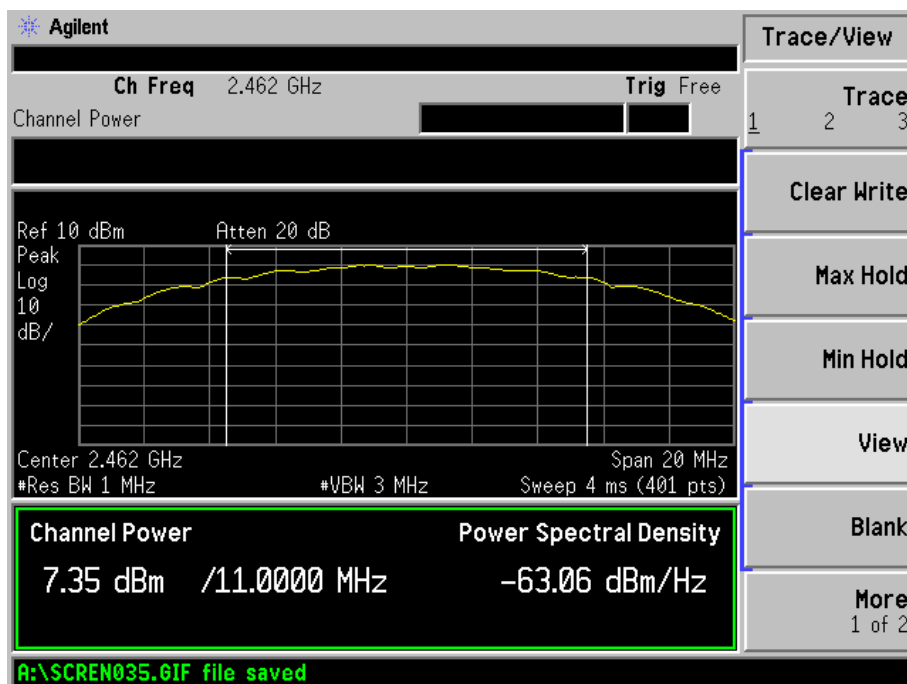
802.11b-11Mbps-Low Channel



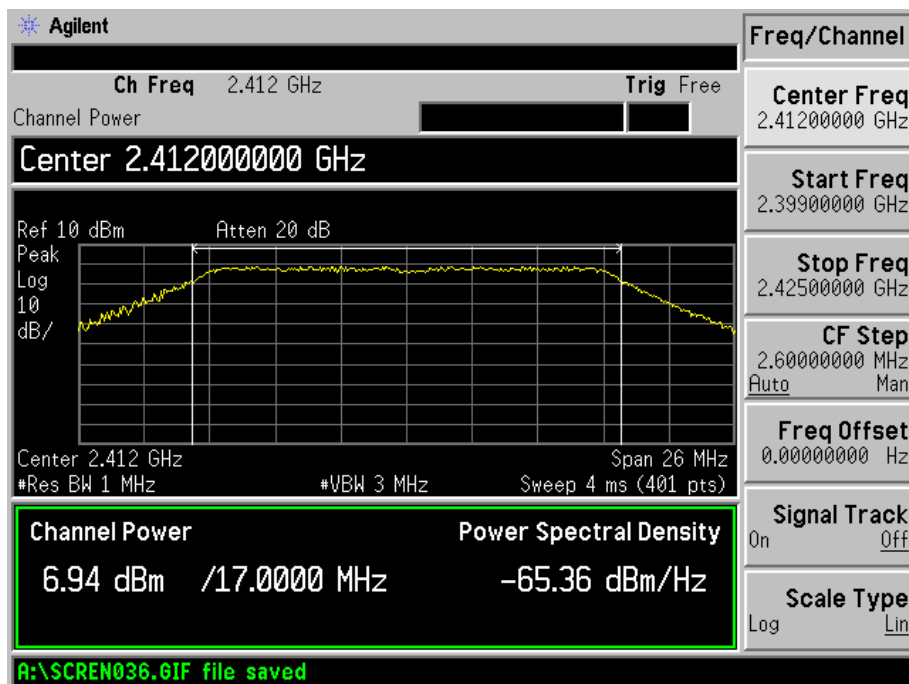
802.11b-11Mbps-Middle Channel



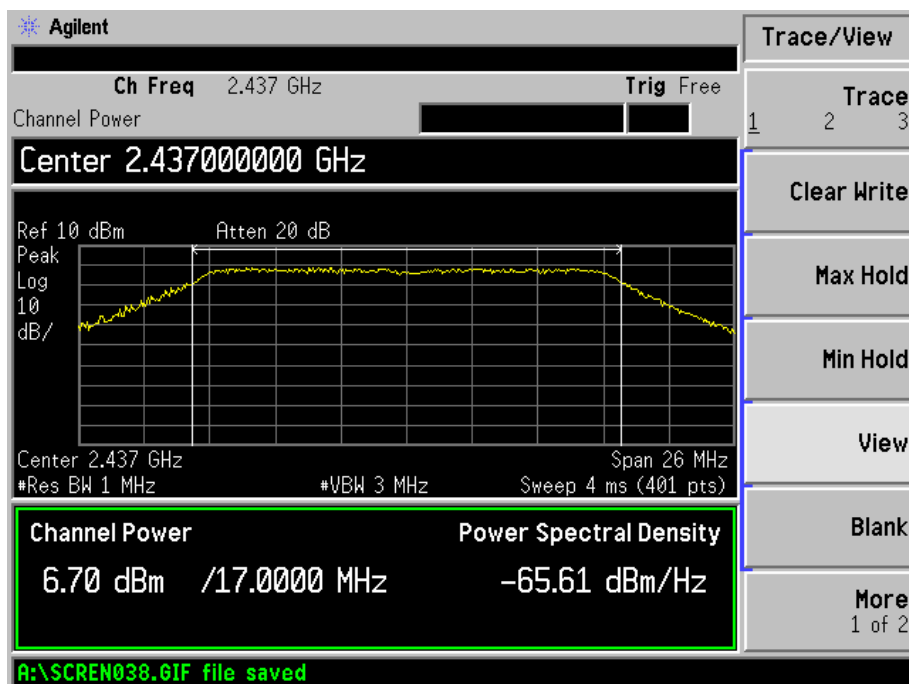
802.11b-11Mbps-High Channel



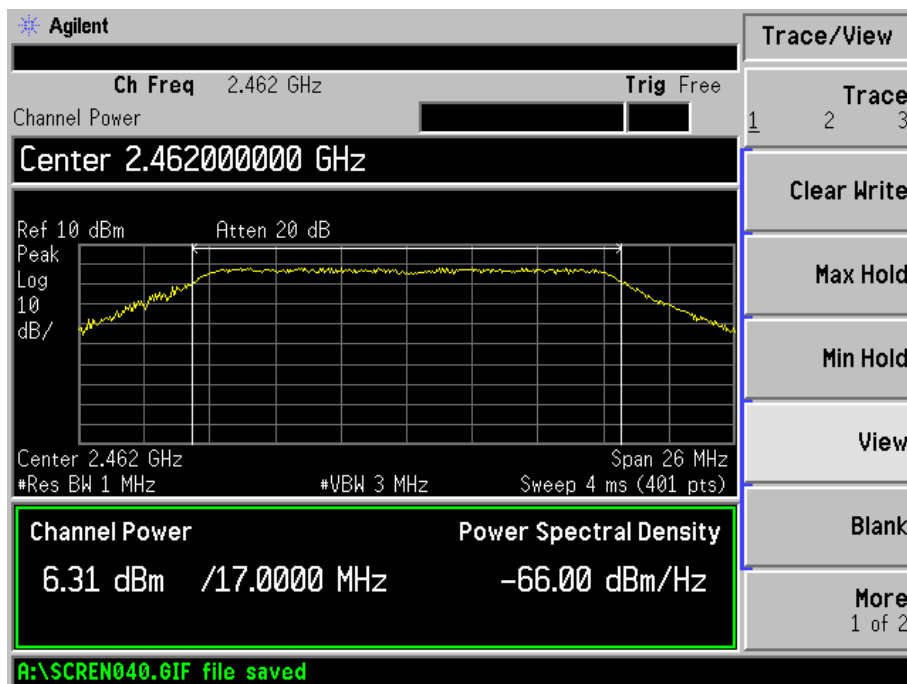
802.11g-6Mbps-Low Channel



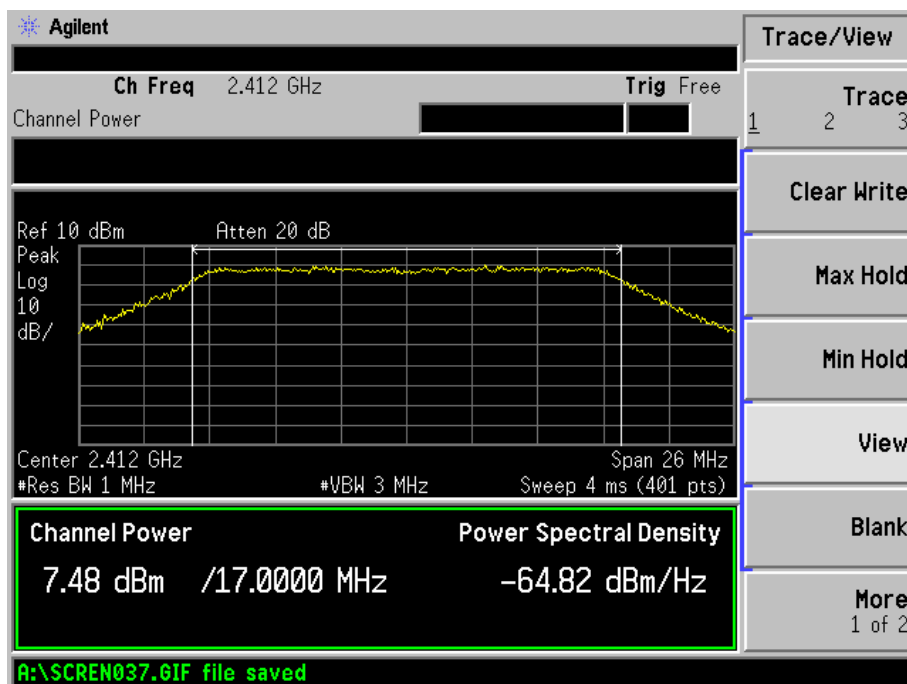
802.11g-6Mbps-Middle Channel



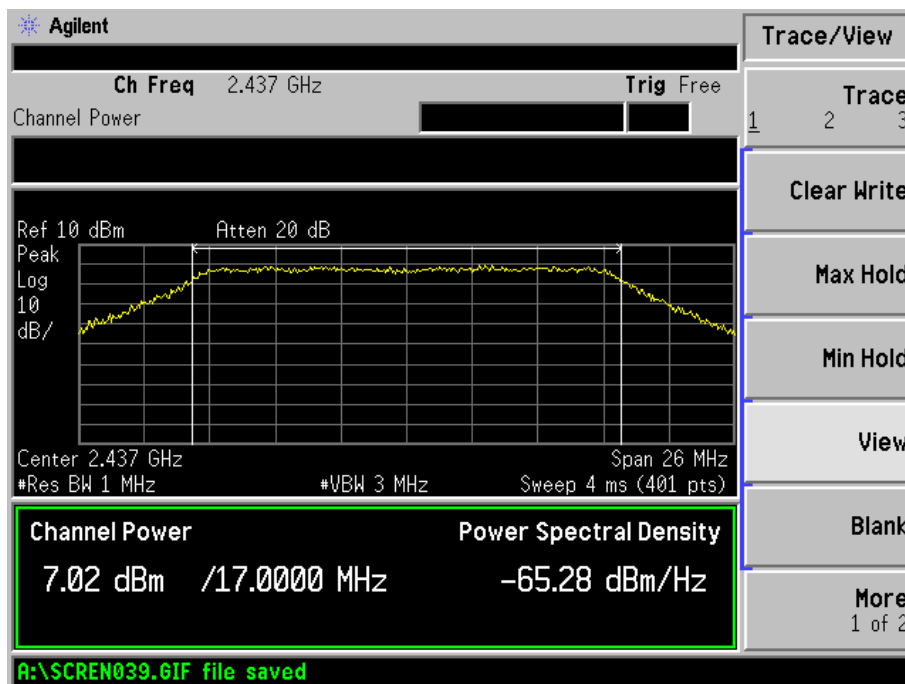
802.11g-6Mbps-High Channel



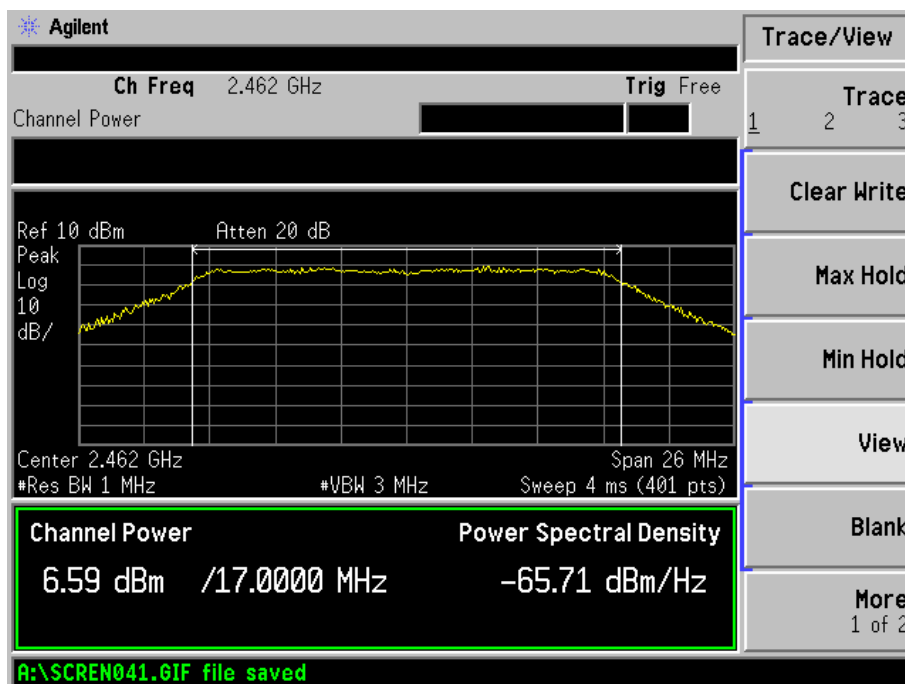
802.11g-54Mbps-Low Channel



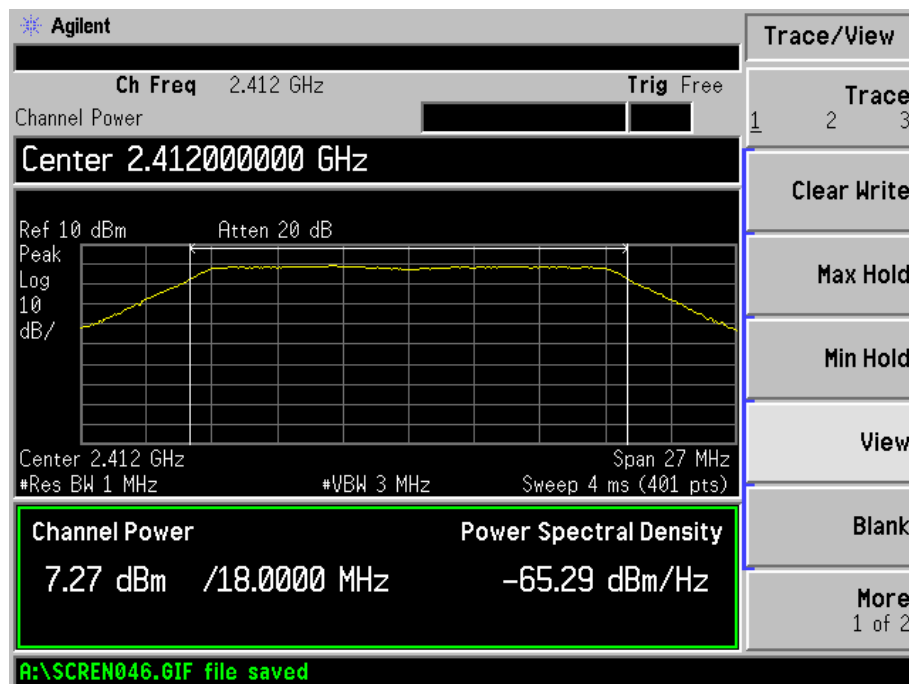
802.11g-54Mbps-Middle Channel



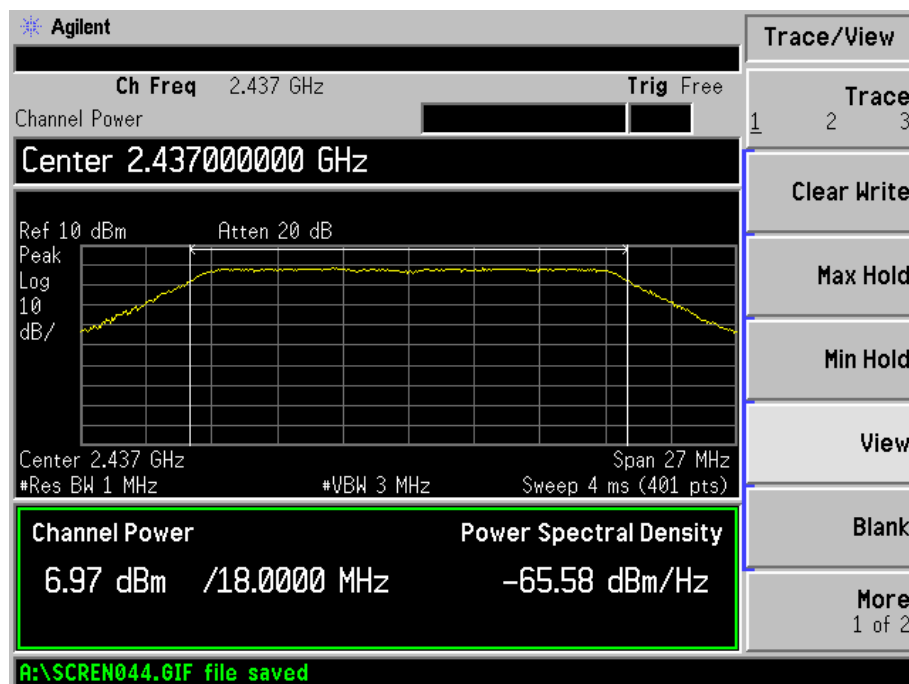
802.11g-54Mbps-High Channel



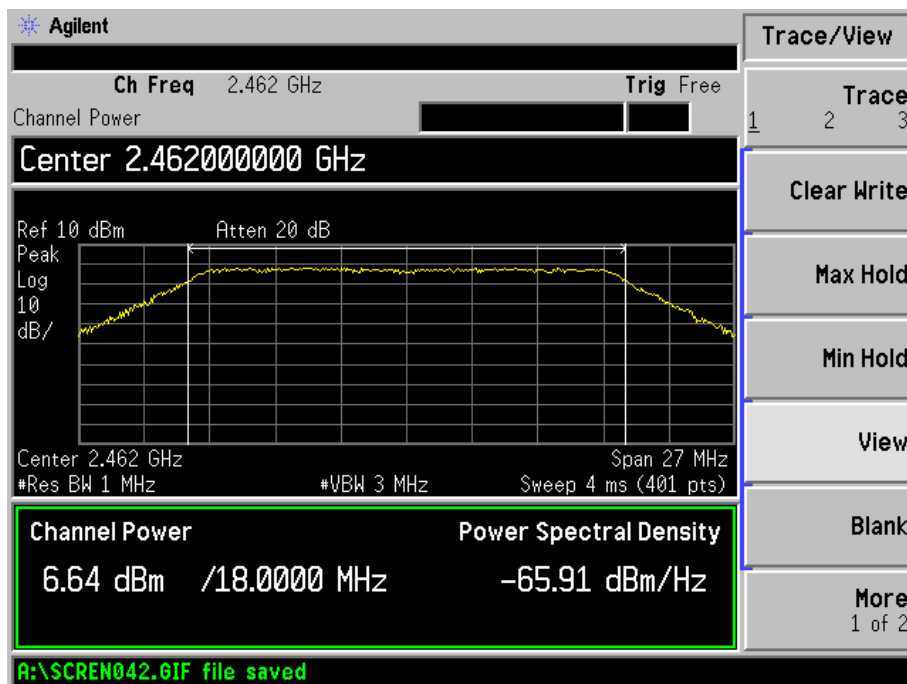
802.11n-HT20-MCS0-Low Channel



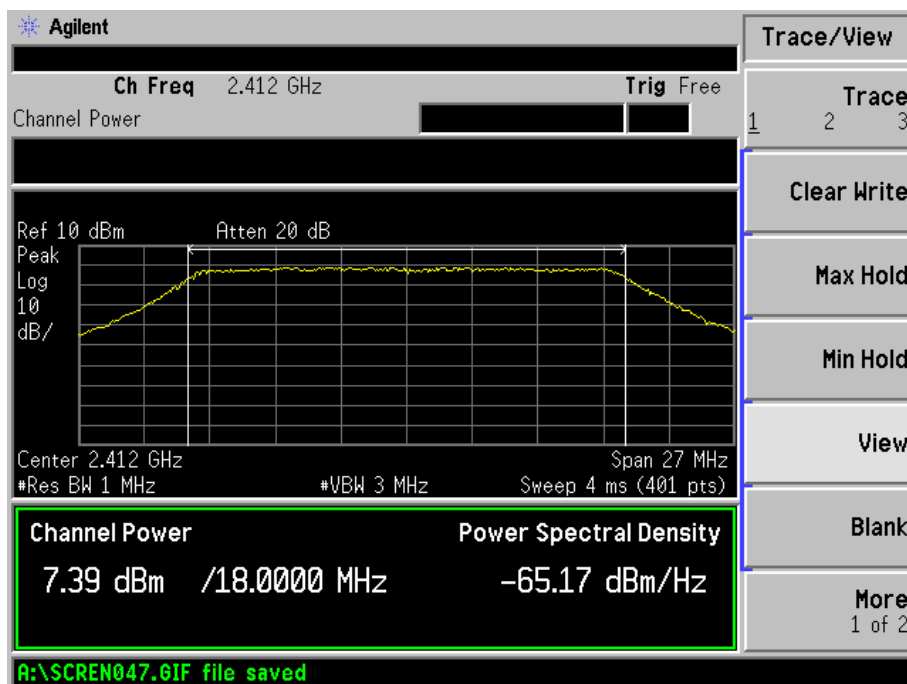
802.11n-HT20-MCS0-Middle Channel



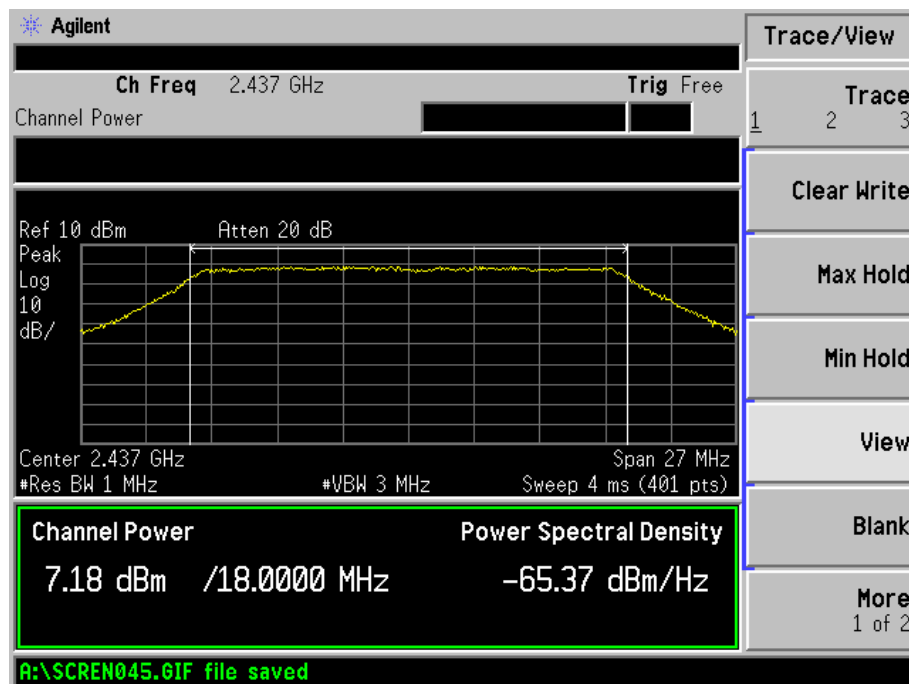
802.11n-HT20-MCS0-High Channel



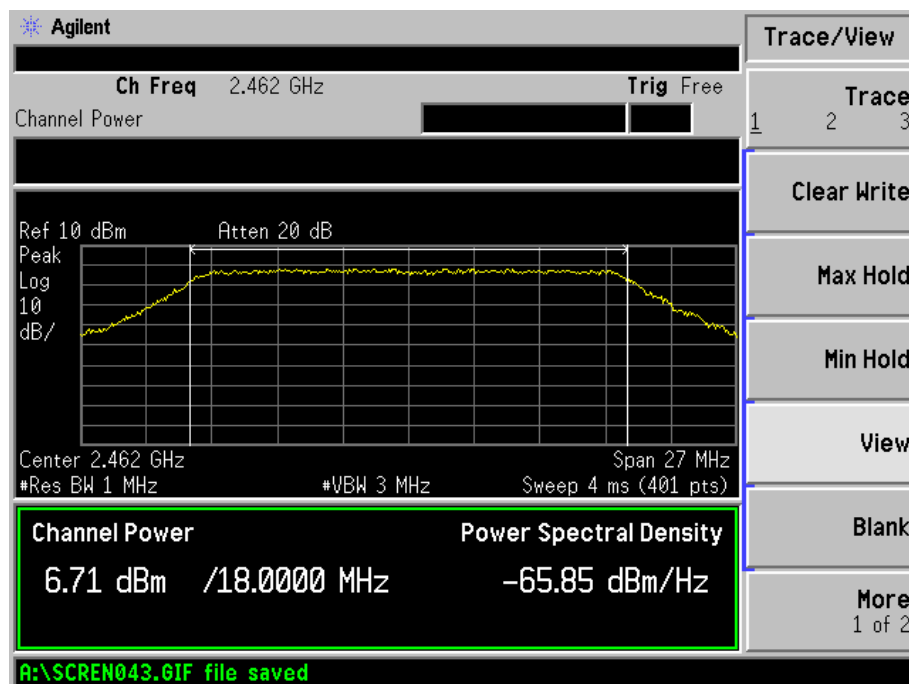
802.11n-HT20-MCS7-Low Channel



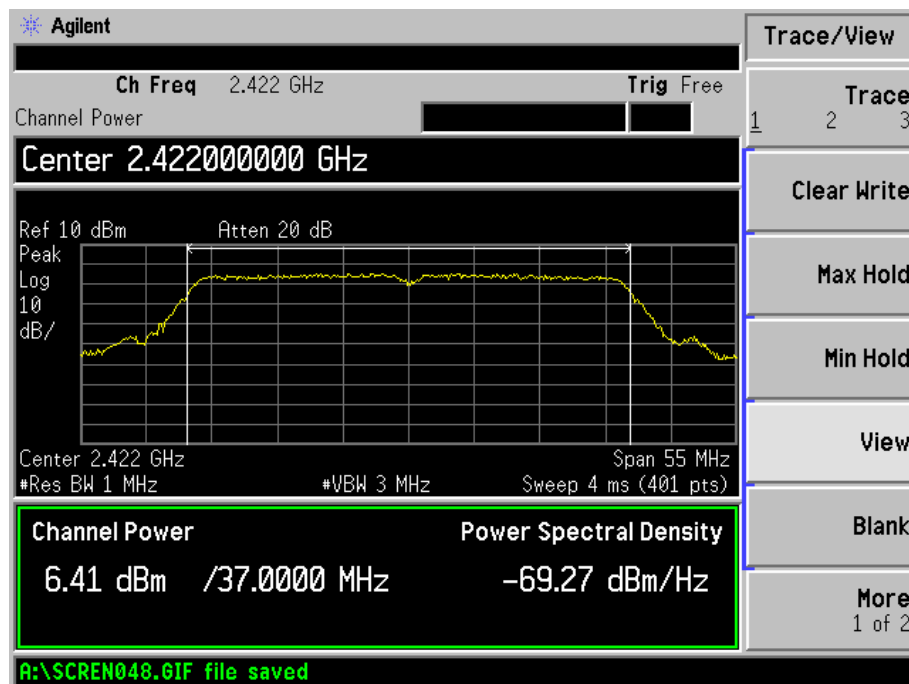
802.11n-HT20-MCS7-Middle Channel



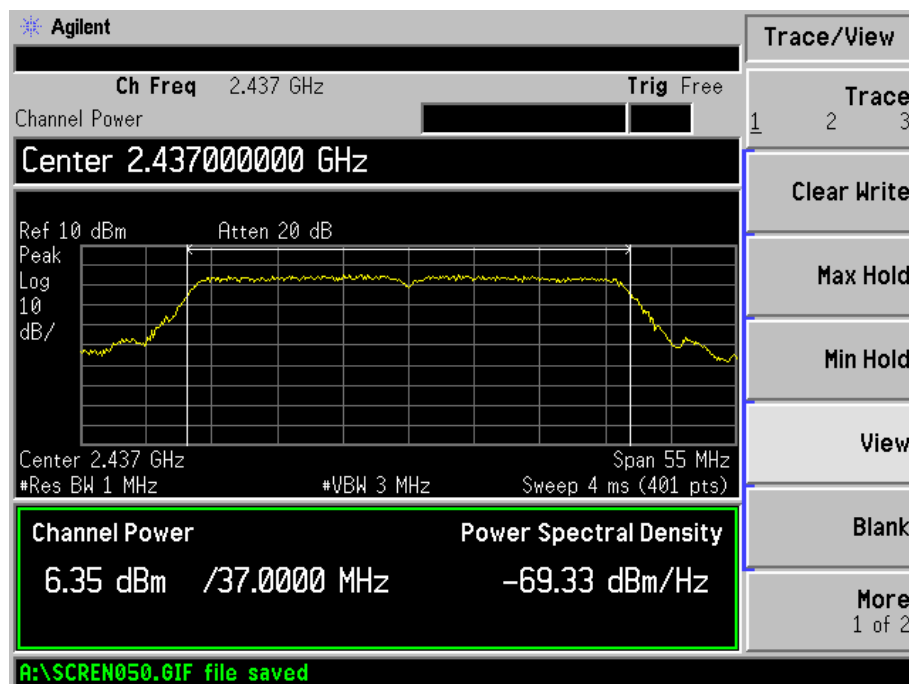
802.11n-HT20-MCS7-High Channel



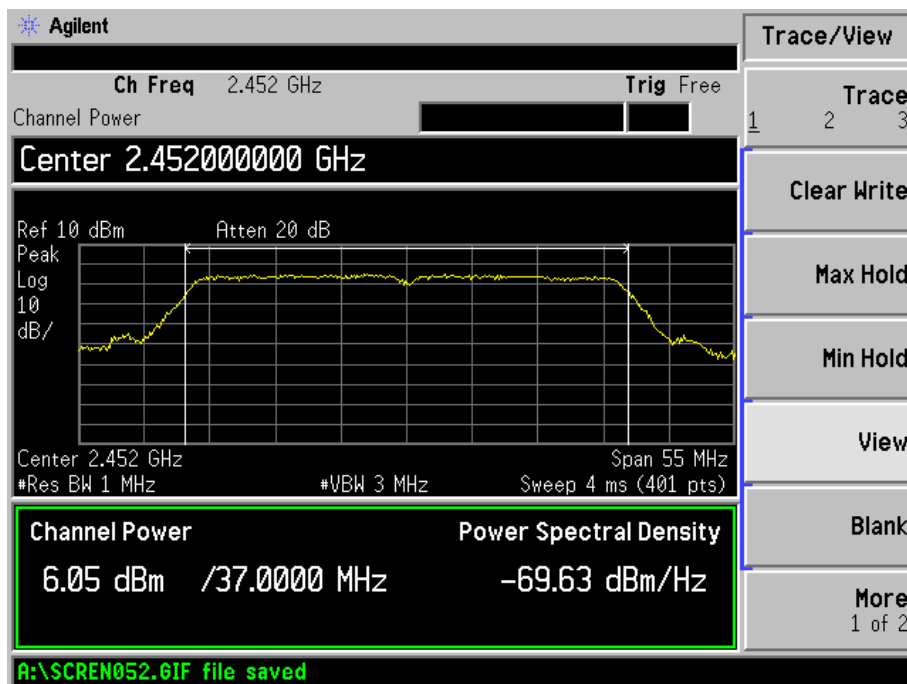
802.11n-HT40-MCS0-Low Channel



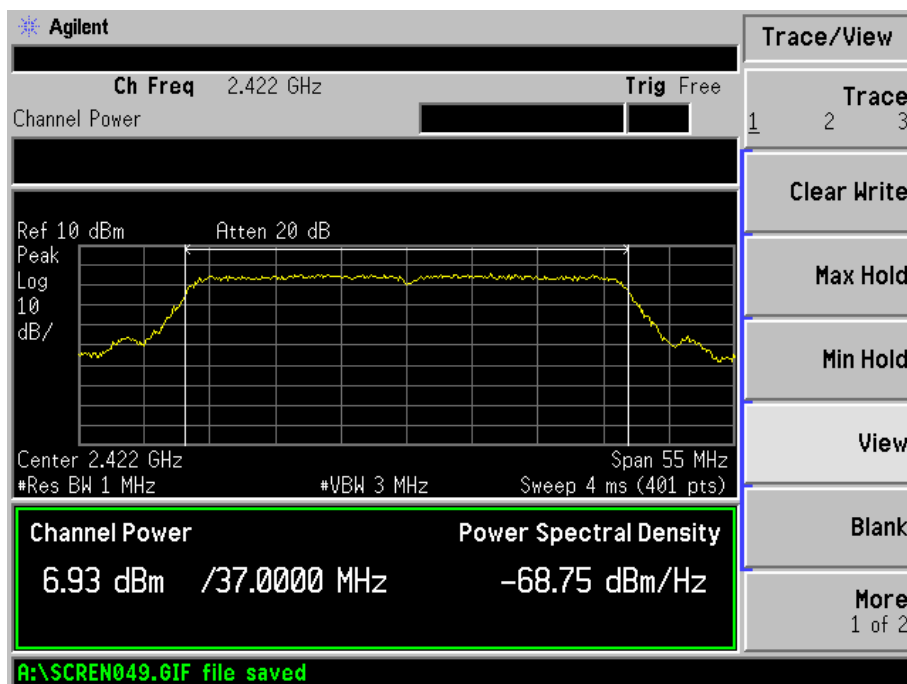
802.11n-HT40-MCS0-Middle Channel



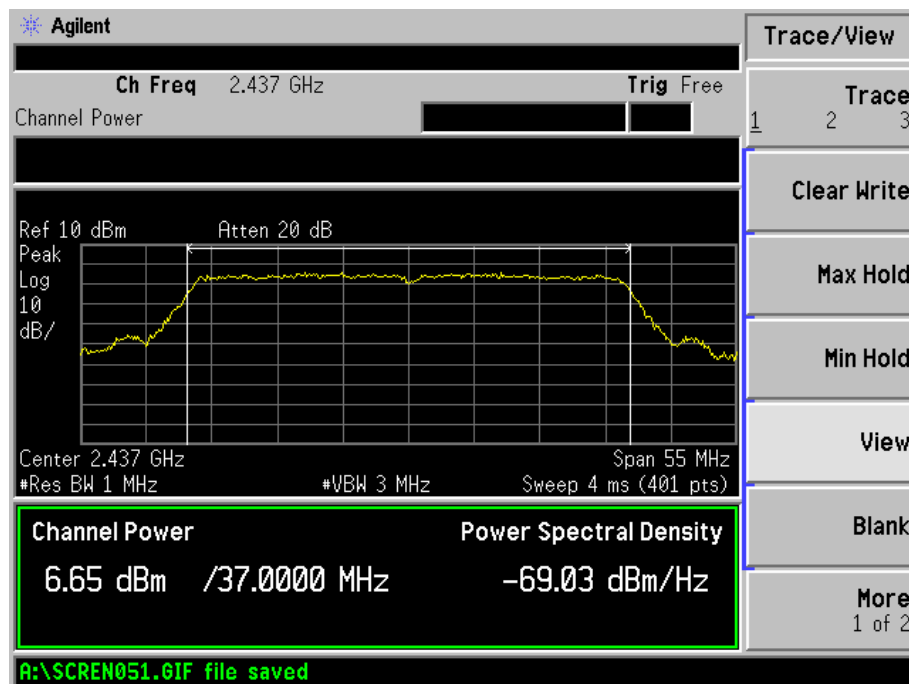
802.11n-HT40-MCS0-High Channel



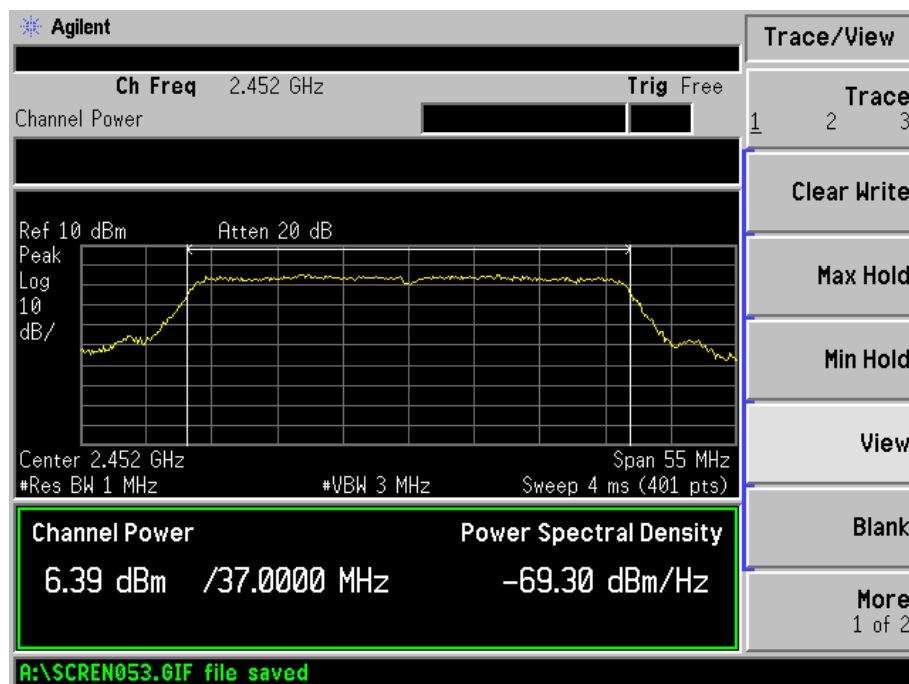
802.11n-HT40-MCS7-Low Channel



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

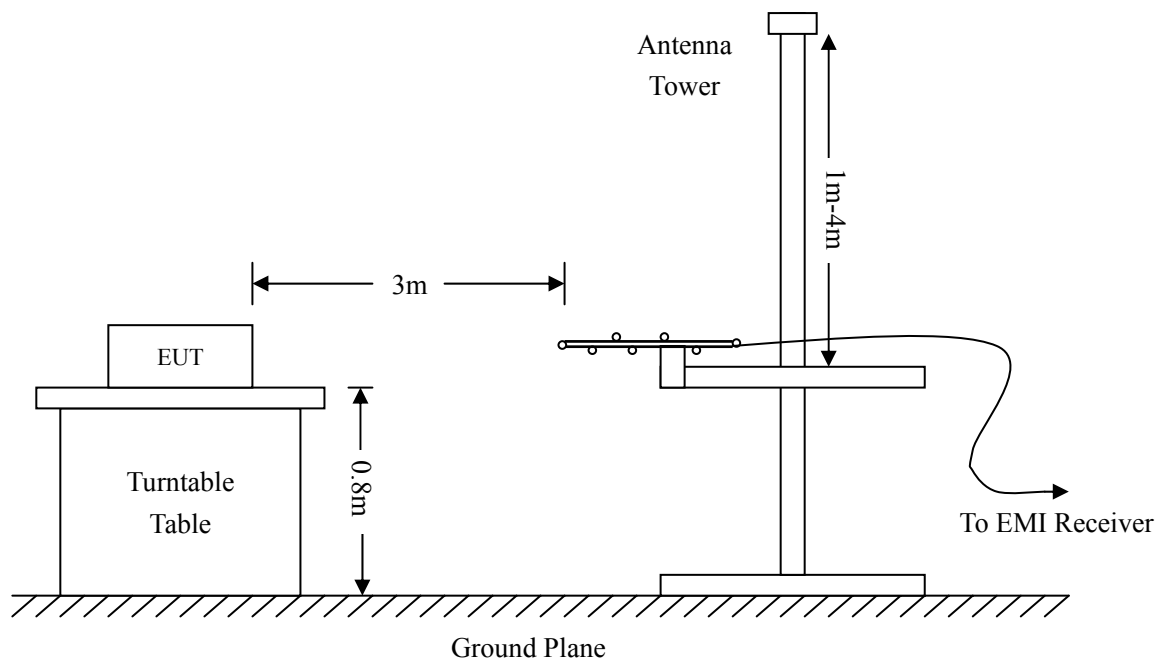
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07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

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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

7.6 Environmental Conditions

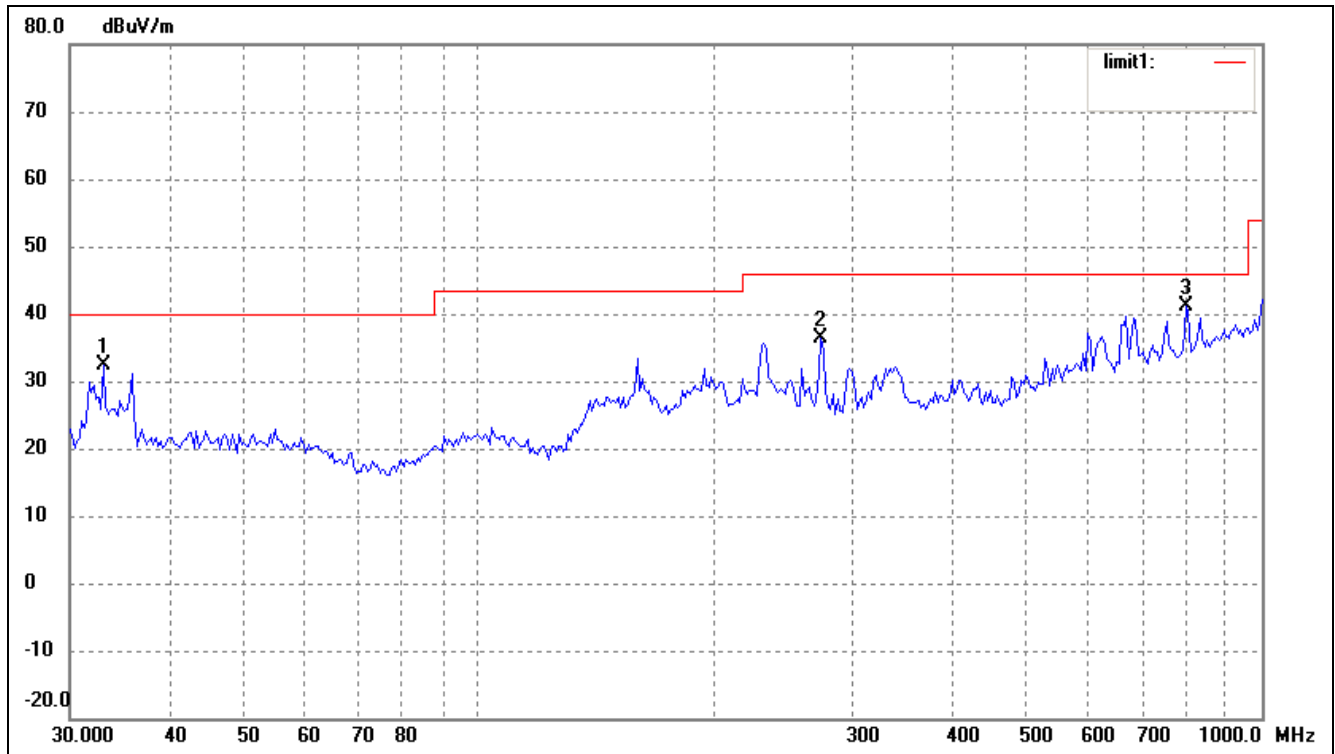
Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

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:

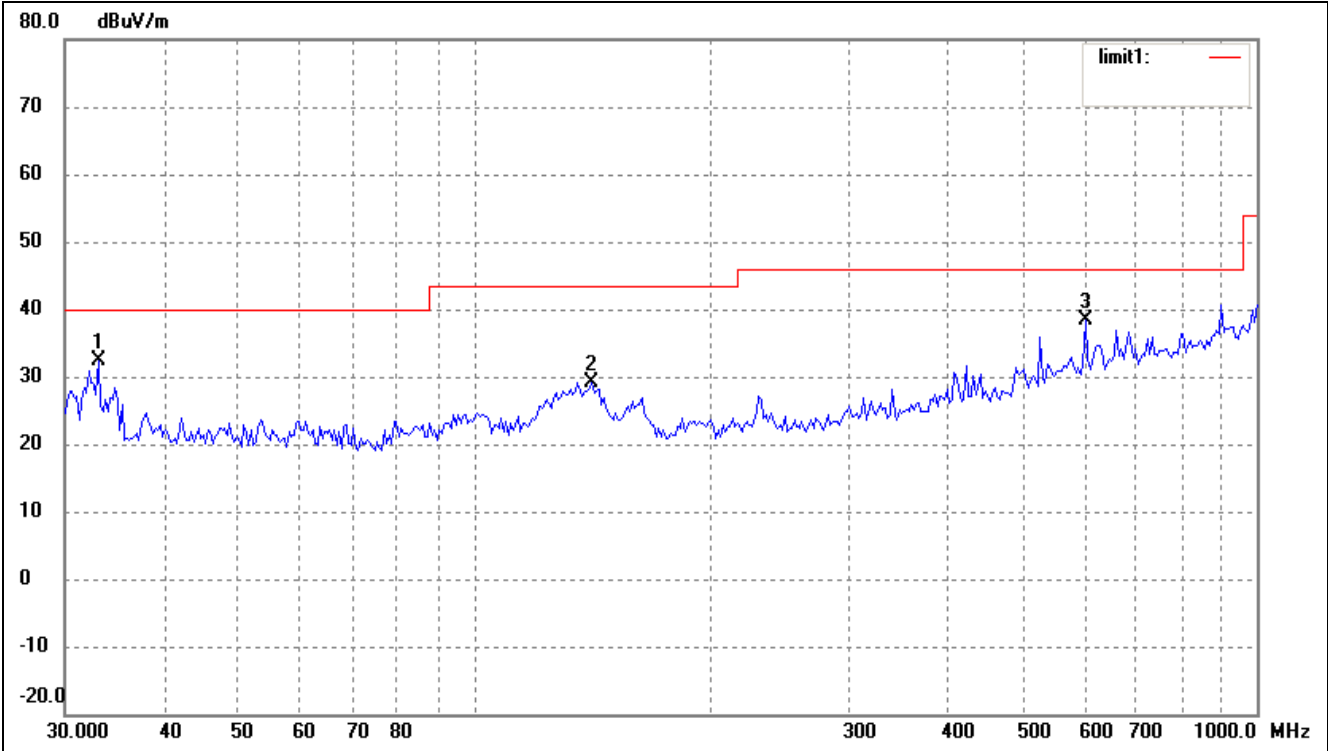
-4.14 dB at 689.5644 MHz in the Horizontal polarization for 802.11b-Middle Channel, 9 kHz to 25 GHz, 3 Meters

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-7HD4Core**Operating Condition: 802.11b Transmitting Low Channel-2412MHz**Comment: DC 3.7V**Test Specification: Horizontal*

No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	25.70	6.77	32.47	40.00	-7.53	240	100	peak
2	273.2341	26.96	9.33	36.29	46.00	-9.71	187	100	peak
3	798.9797	22.02	18.99	41.01	46.00	-4.99	220	100	peak

Test Specification: Vertical

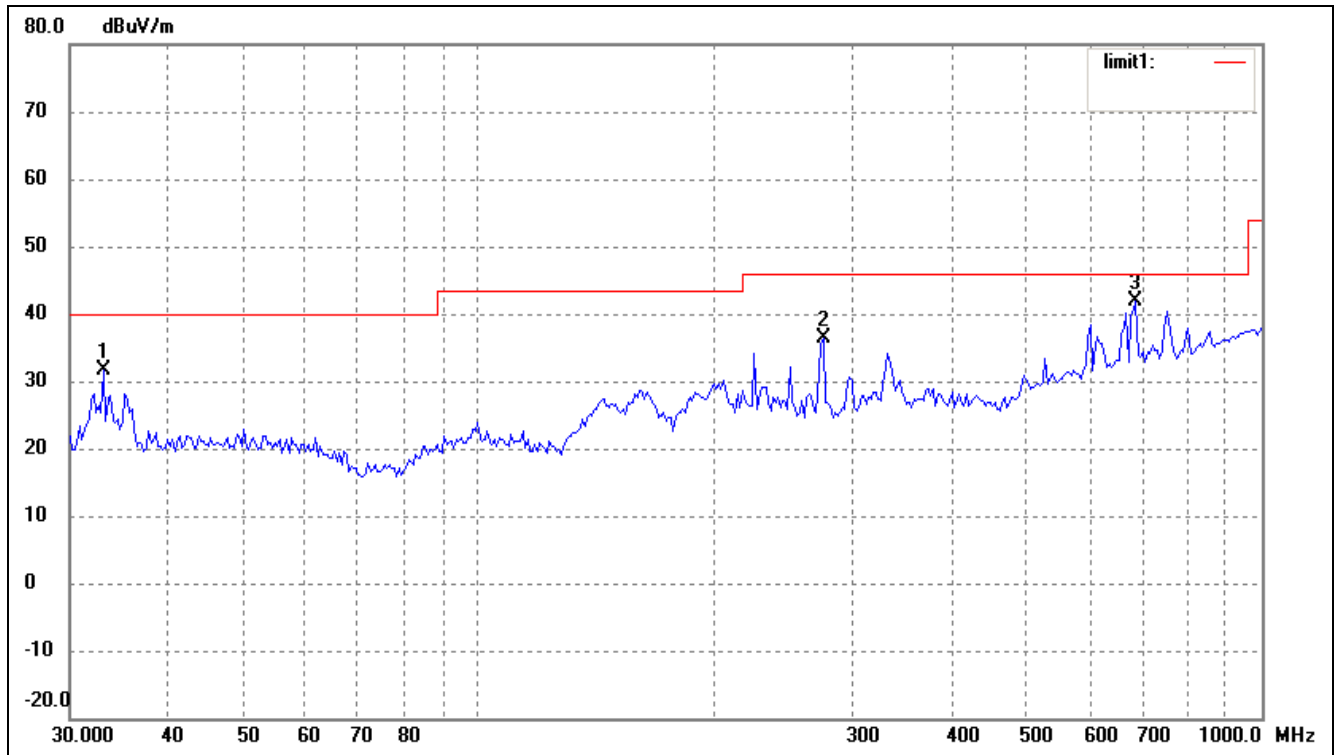


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	25.53	6.77	32.30	40.00	-7.70	162	100	peak
2	141.3298	25.23	3.97	29.20	43.50	-14.30	200	100	peak
3	603.5392	21.72	16.70	38.42	46.00	-7.58	360	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

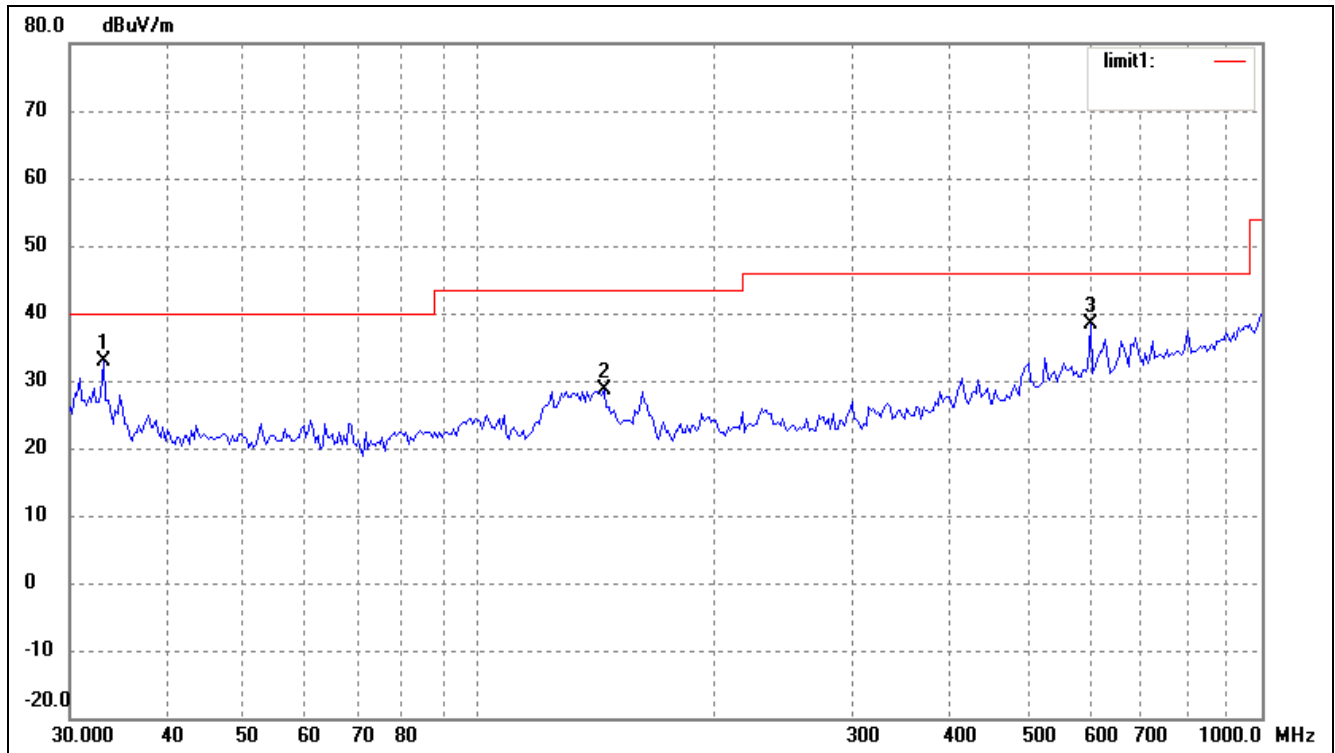
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	24.83	6.77	31.60	40.00	-8.40	240	100	peak
2	275.1570	27.05	9.38	36.43	46.00	-9.57	187	100	peak
3	689.5644	24.45	17.41	41.86	46.00	-4.14	220	100	peak

Test Specification: Vertical

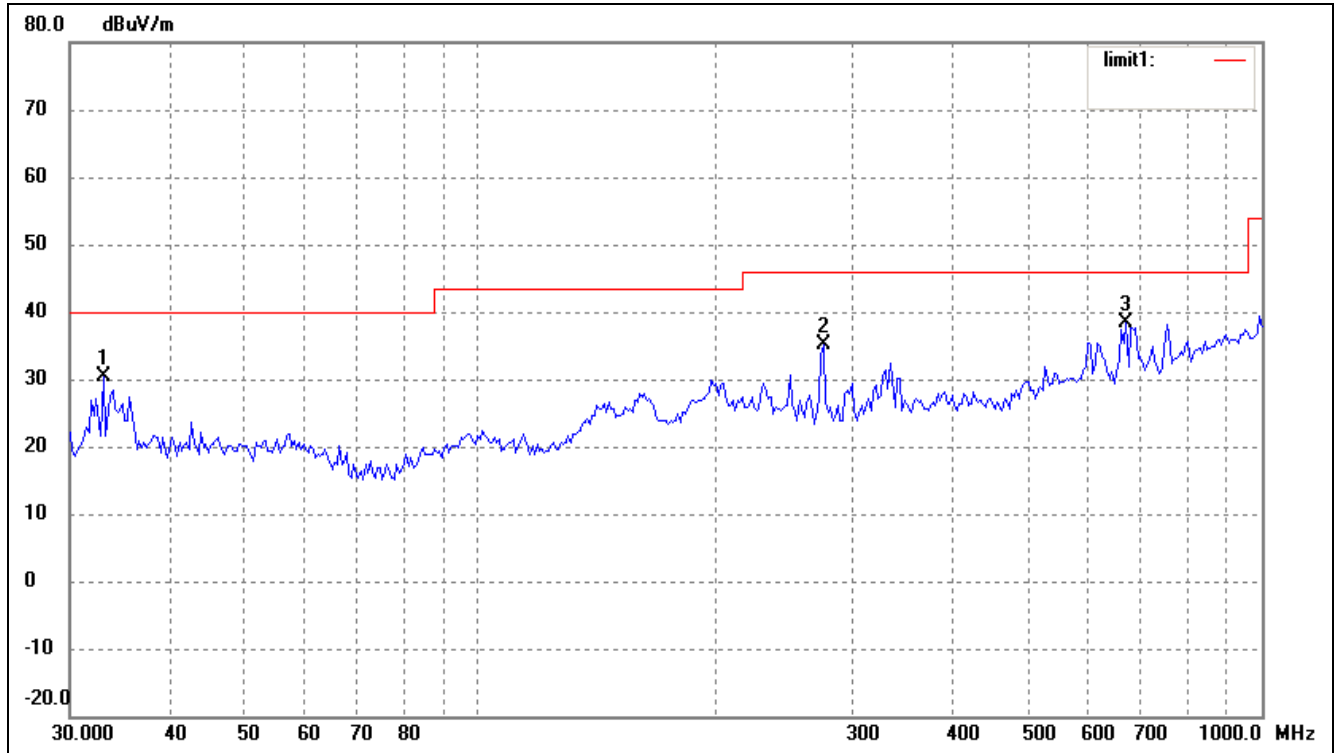


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	26.09	6.77	32.86	40.00	-7.14	251	100	peak
2	144.3348	24.72	4.01	28.73	43.50	-14.77	36	100	peak
3	603.5392	21.78	16.70	38.48	46.00	-7.52	15	100	peak

Operating Condition: 802.11b Transmitting High Channel-2462MHz

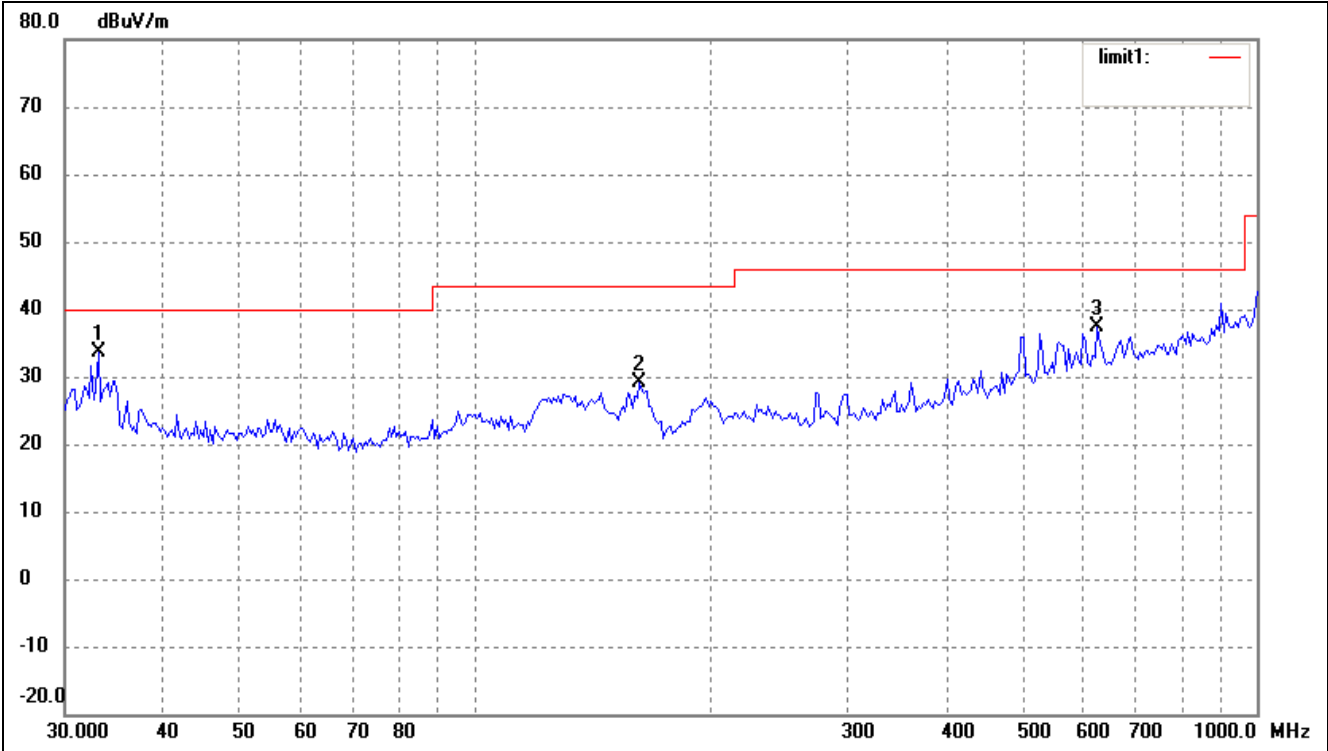
Comment: DC 3.7V

Test Specification: Horizontal

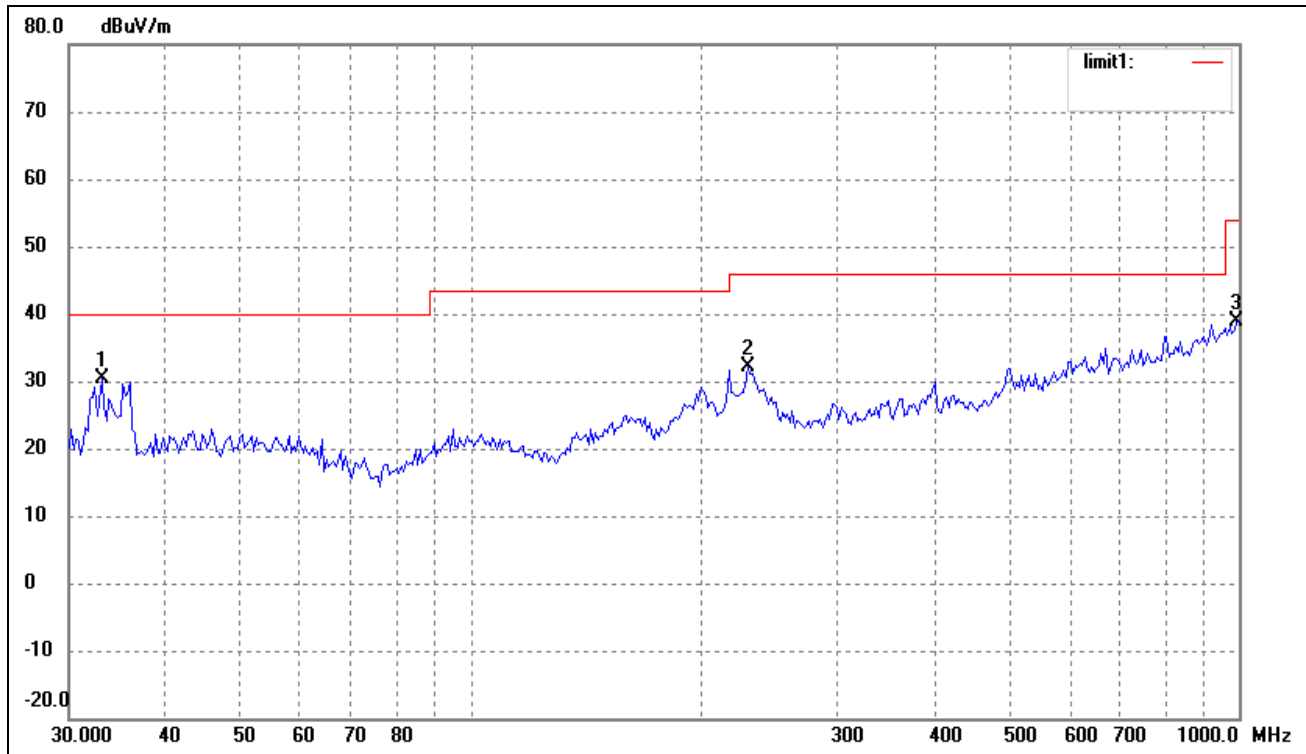


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	23.73	6.77	30.50	40.00	-9.50	25	100	peak
2	275.1570	25.64	9.38	35.02	46.00	-10.98	139	100	peak
3	670.4893	21.09	17.26	38.35	46.00	-7.65	79	100	peak

Test Specification: Vertical

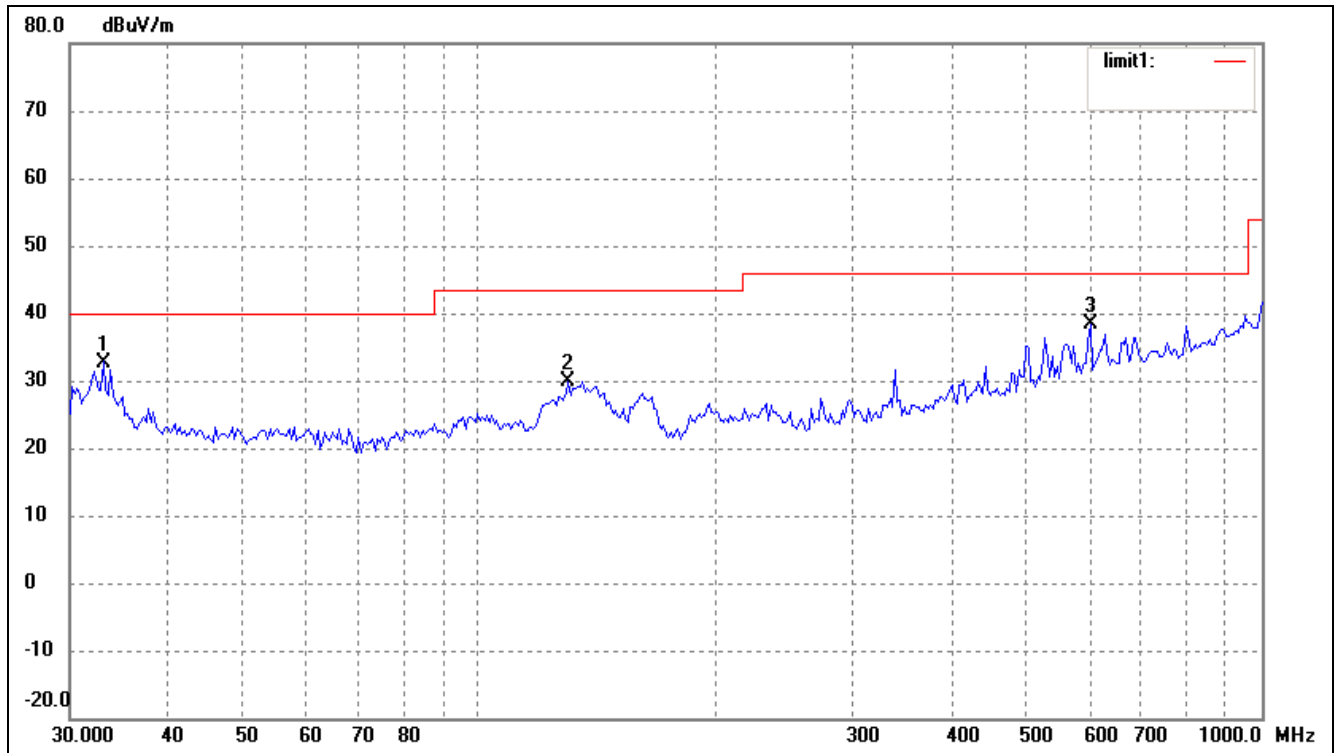


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	26.74	6.77	33.51	40.00	-6.49	214	100	peak
2	162.6106	24.46	4.63	29.09	43.50	-14.41	76	100	peak
3	625.0780	20.45	16.88	37.33	46.00	-8.67	93	100	peak

Plot of Radiated Emissions Test Data (30MHz to 1GHz)*EUT: Tablet PC**Tested Model: F-7HD4Core**Operating Condition: 802.11g Transmitting Low Channel-2412MHz**Comment: DC 3.7V**Test Specification: Horizontal*

No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	23.71	6.77	30.48	40.00	-9.52	241	100	peak
2	229.2931	24.40	7.82	32.22	46.00	-13.78	36	100	peak
3	993.0114	16.31	22.61	38.92	54.00	-15.08	24	100	peak

Test Specification: Vertical

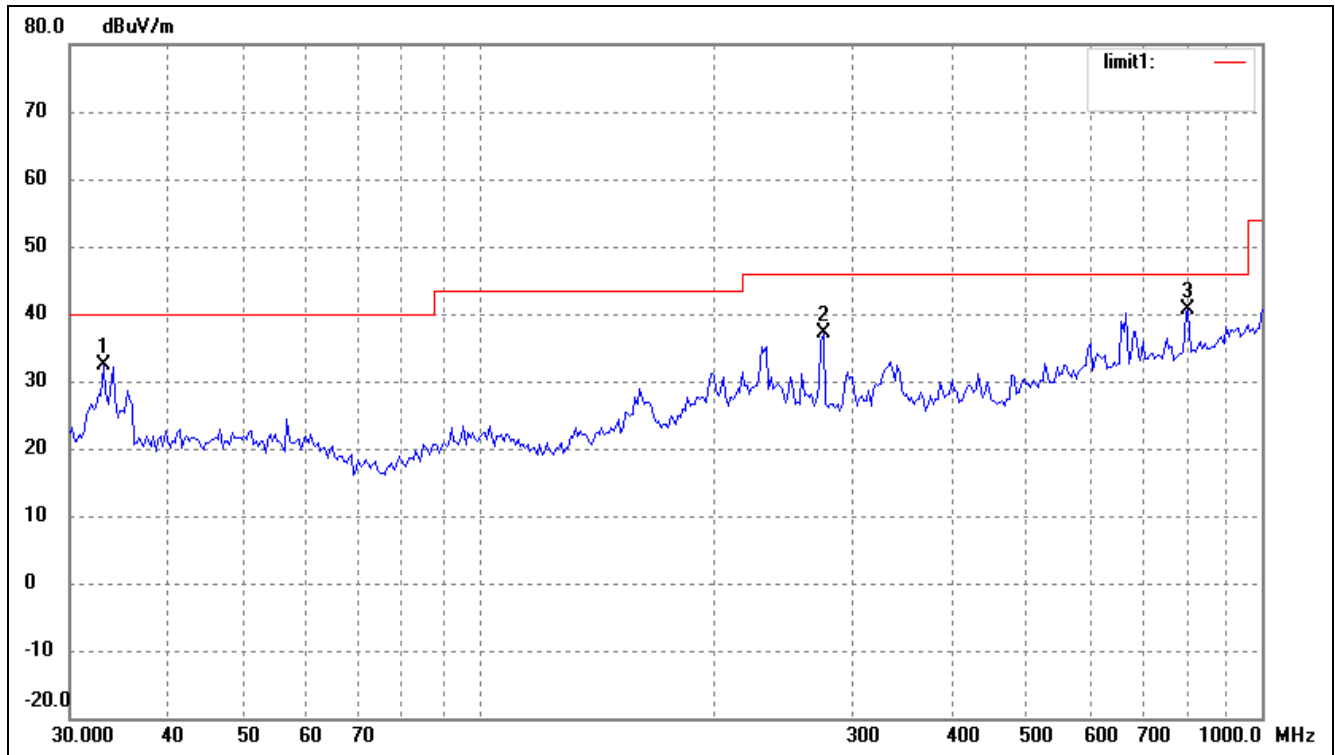


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	25.98	6.77	32.75	40.00	-7.25	263	100	peak
2	129.9226	25.35	4.57	29.92	43.50	-13.58	14	100	peak
3	603.5392	21.64	16.70	38.34	46.00	-7.66	64	100	peak

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

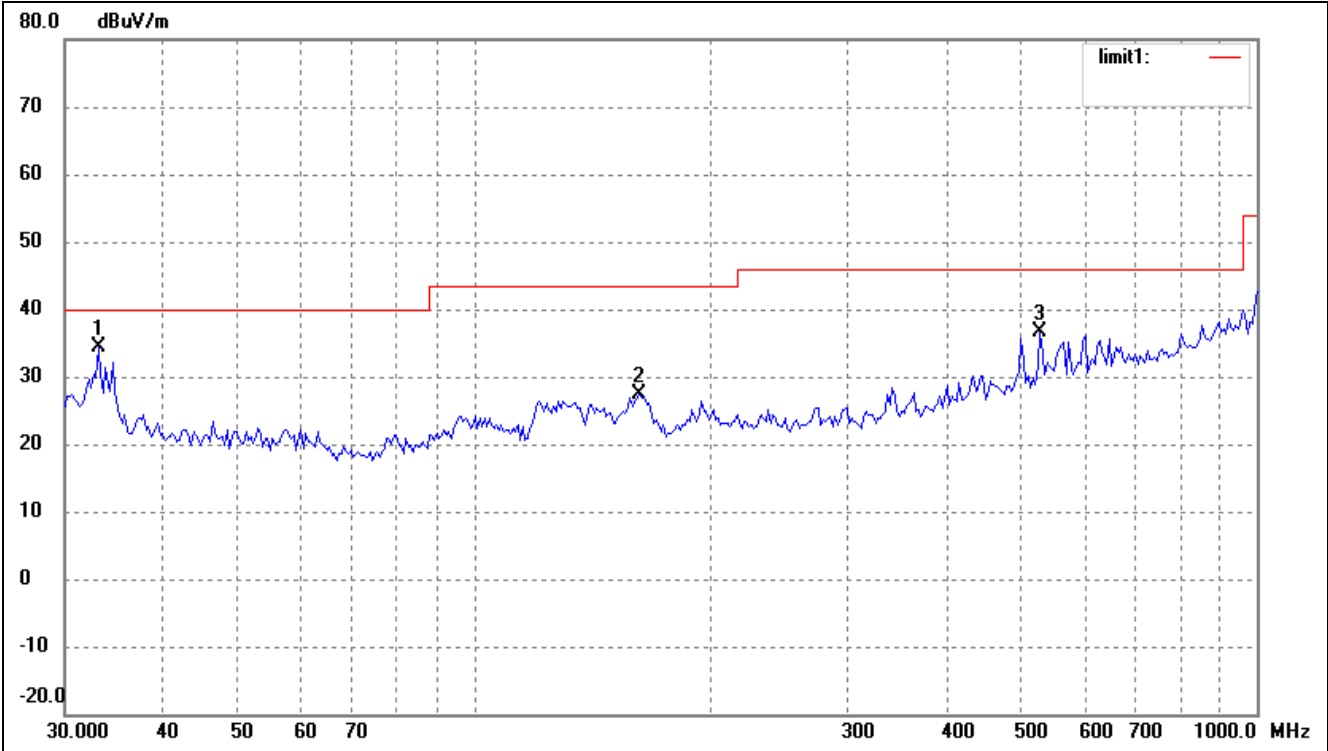
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	25.58	6.77	32.35	40.00	-7.65	254	100	peak
2	275.1570	27.80	9.38	37.18	46.00	-8.82	68	100	peak
3	804.6028	21.53	19.10	40.63	46.00	-5.37	15	100	peak

Test Specification: Vertical

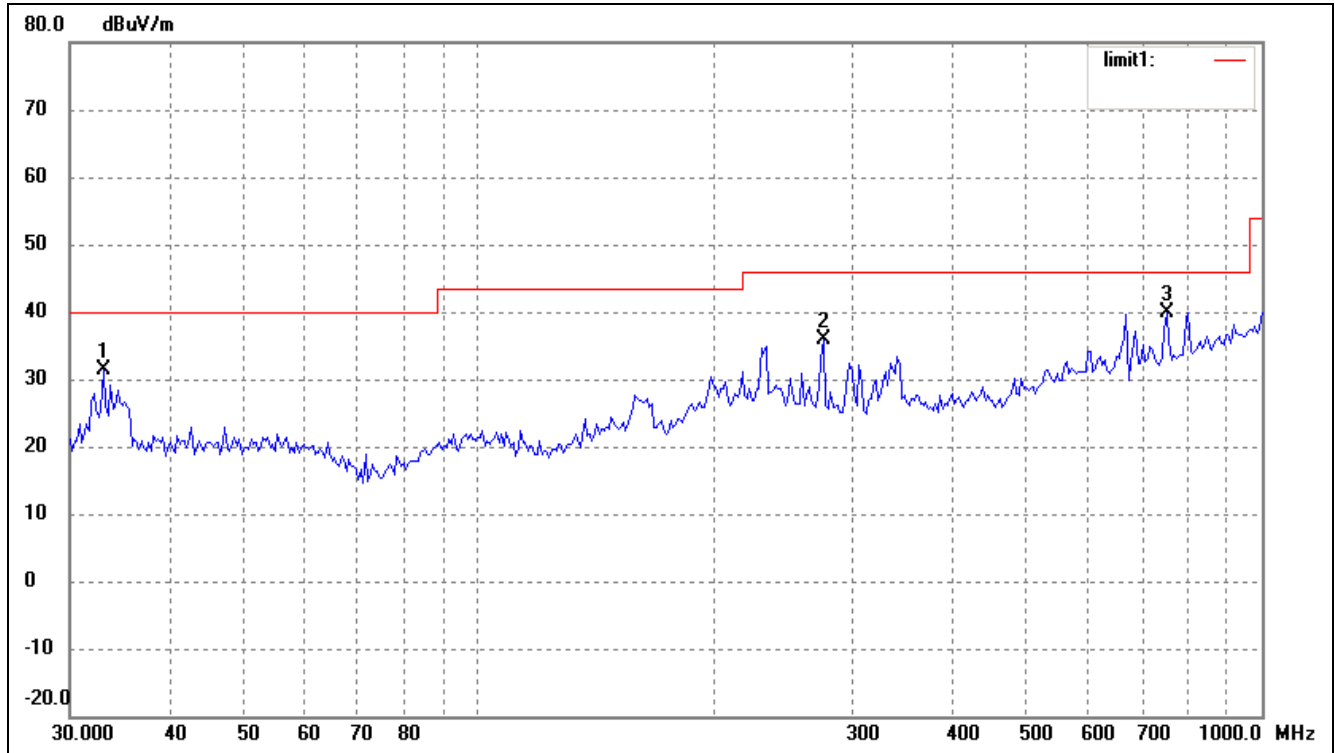


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	27.51	6.77	34.28	40.00	-5.72	336	100	peak
2	162.6106	22.72	4.63	27.35	43.50	-16.15	185	100	peak
3	528.2458	21.69	15.06	36.75	46.00	-9.25	41	100	peak

Operating Condition: 802.11g Transmitting High Channel-2462MHz

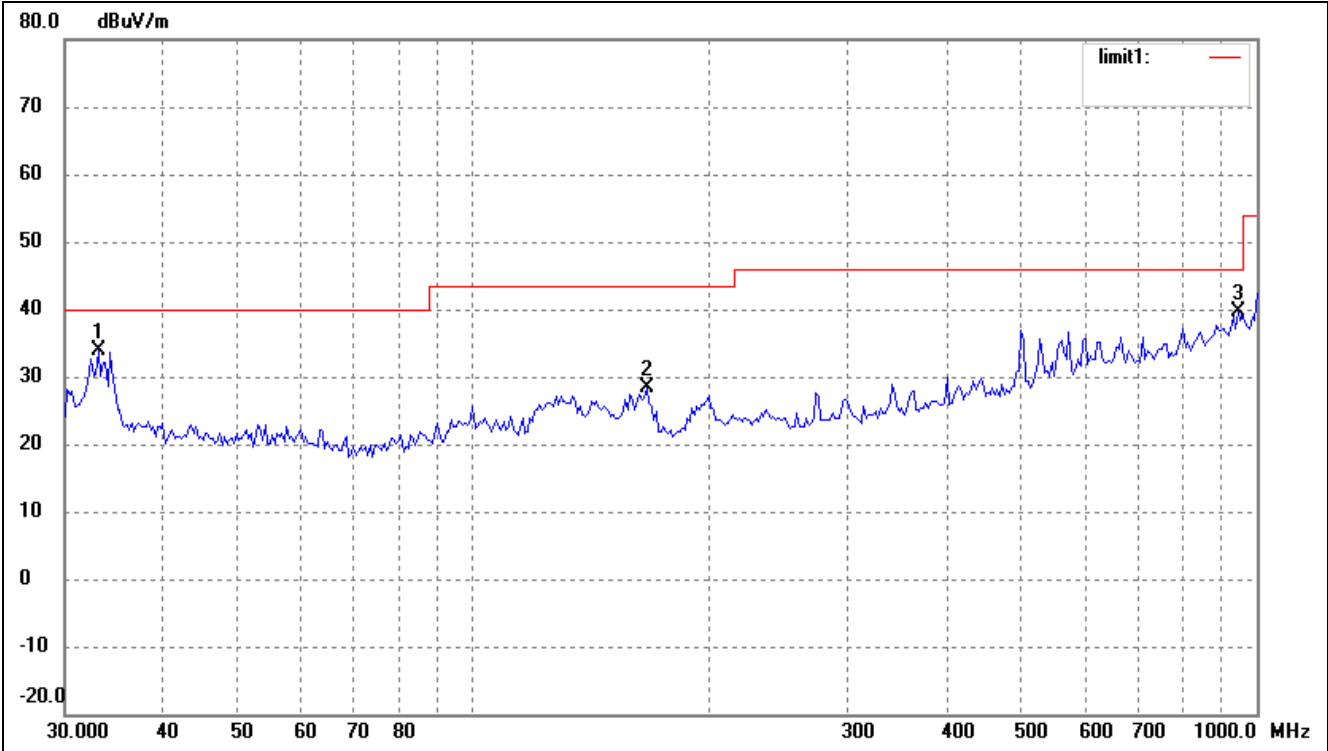
Comment: DC 3.7V

Test Specification: Horizontal

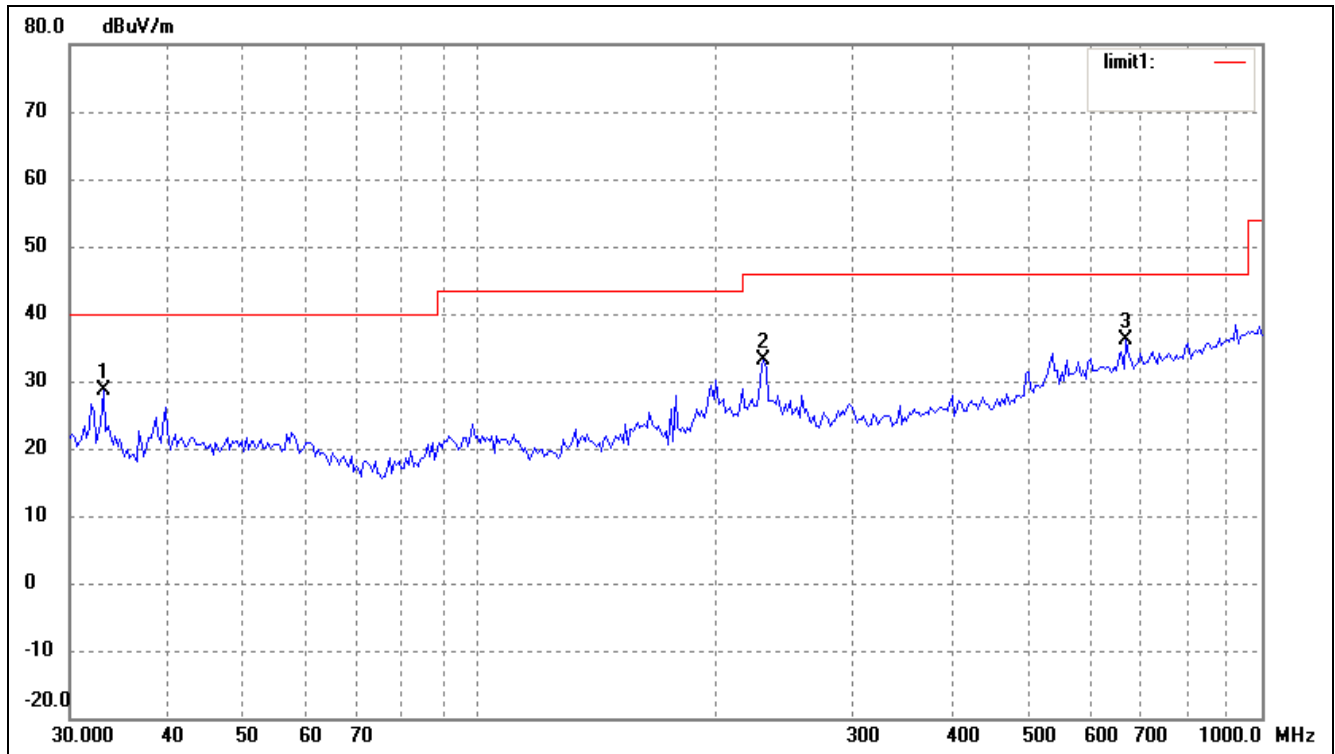


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	24.67	6.77	31.44	40.00	-8.56	254	100	peak
2	275.1570	26.47	9.38	35.85	46.00	-10.15	13	100	peak
3	755.3873	21.48	18.34	39.82	46.00	-6.18	47	100	peak

Test Specification: Vertical

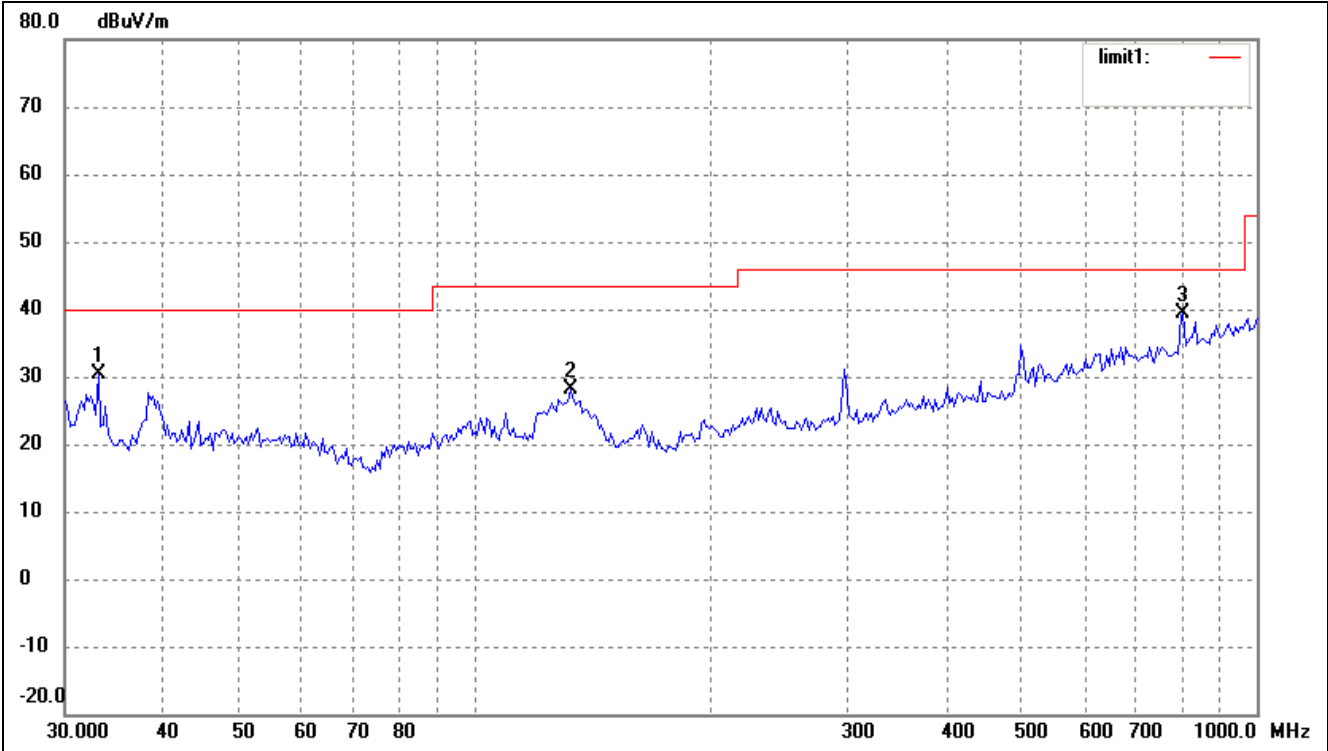


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	27.01	6.77	33.78	40.00	-6.22	214	100	peak
2	166.0680	23.56	4.75	28.31	43.50	-15.19	31	100	peak
3	945.4399	17.92	21.73	39.65	46.00	-6.35	263	100	peak

Plot of Radiated Emissions Test Data (30MHz to 1GHz)*EUT:* Tablet PC*Tested Model:* F-7HD4Core*Operating Condition:* 802.11n-HT20 Transmitting Low Channel-2412MHz*Comment:* DC 3.7V*Test Specification:* Horizontal

No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	21.88	6.77	28.65	40.00	-11.35	23	100	peak
2	230.9068	25.11	7.91	33.02	46.00	-12.98	64	100	peak
3	670.4893	18.82	17.26	36.08	46.00	-9.92	261	100	peak

Test Specification: Vertical

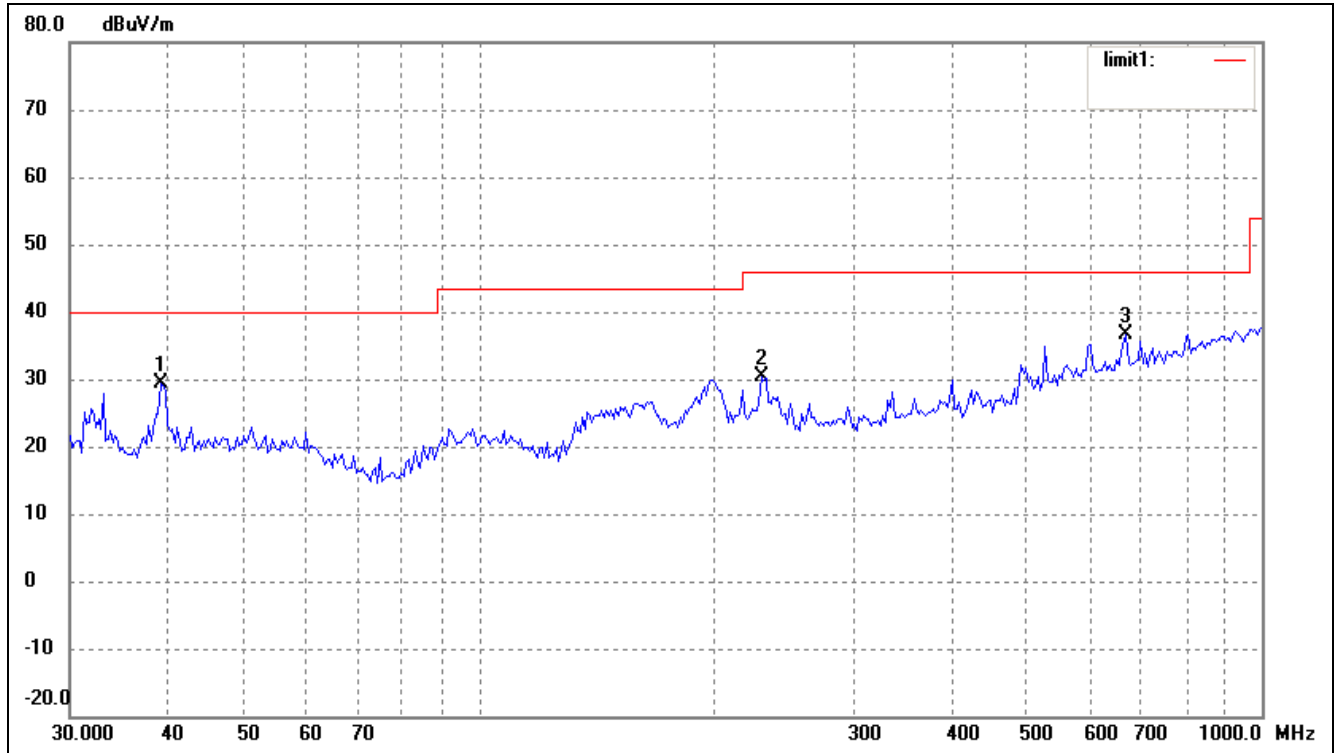


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	23.64	6.77	30.41	40.00	-9.59	256	100	peak
2	132.6850	23.65	4.40	28.05	43.50	-15.45	34	100	peak
3	804.6028	20.16	19.10	39.26	46.00	-6.74	47	100	peak

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

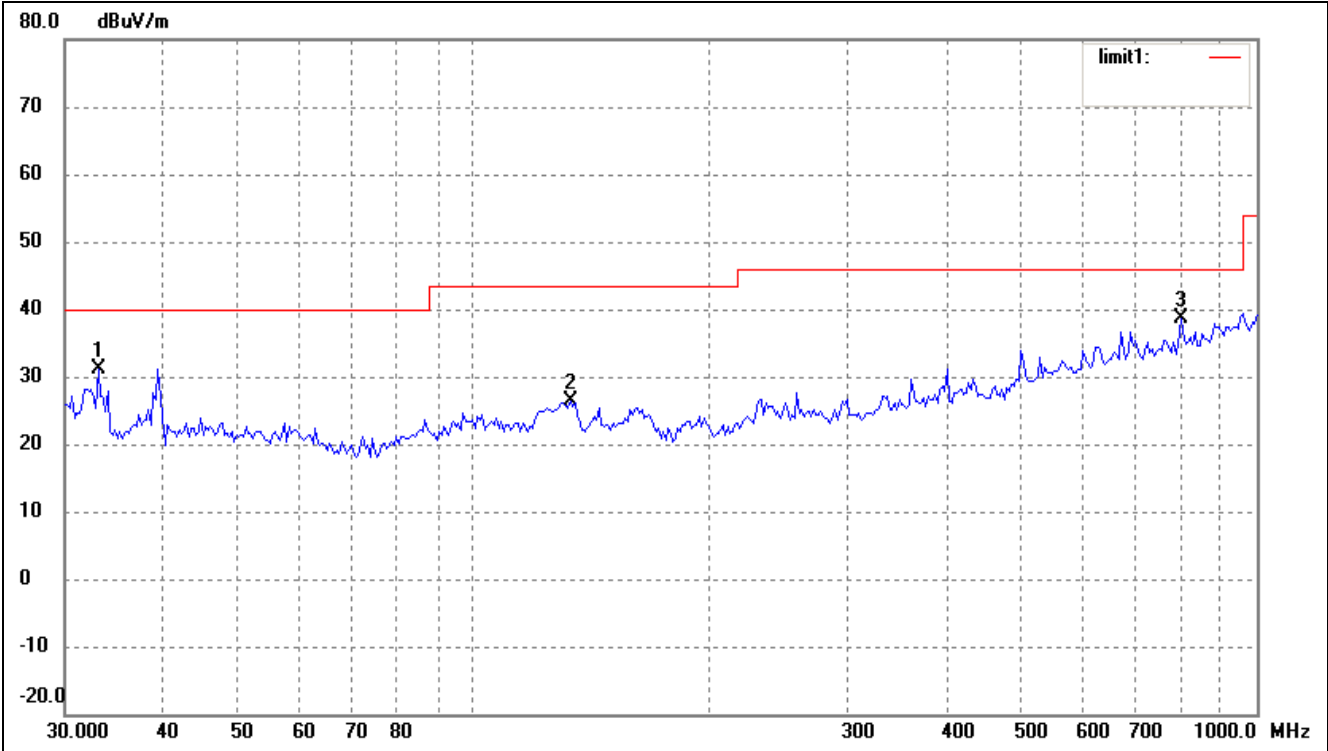
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.1616	21.35	7.91	29.26	40.00	-10.74	360	100	peak
2	229.2931	22.65	7.82	30.47	46.00	-15.53	24	100	peak
3	670.4893	19.45	17.26	36.71	46.00	-9.29	44	100	peak

Test Specification: Vertical

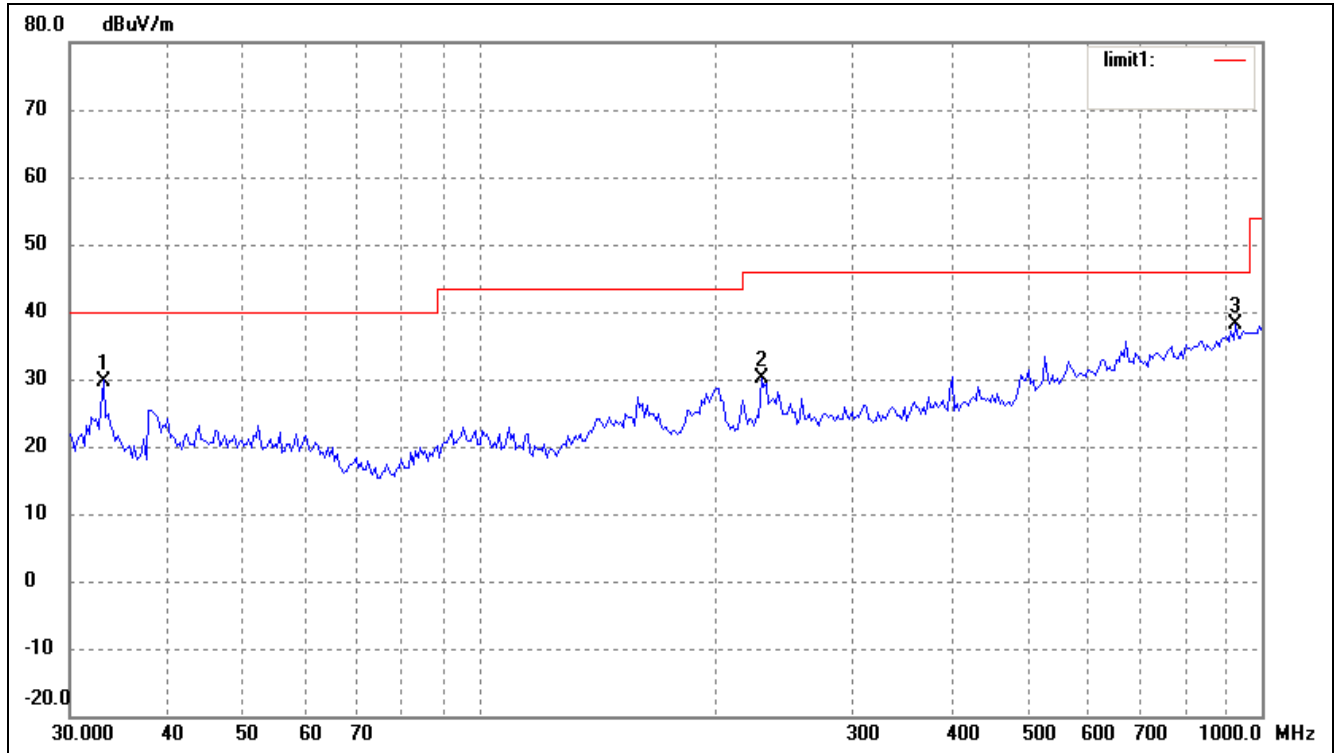


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	24.43	6.77	31.20	40.00	-8.80	214	100	peak
2	132.6850	21.93	4.40	26.33	43.50	-17.17	334	100	peak
3	798.9797	19.54	18.99	38.53	46.00	-7.47	15	100	peak

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

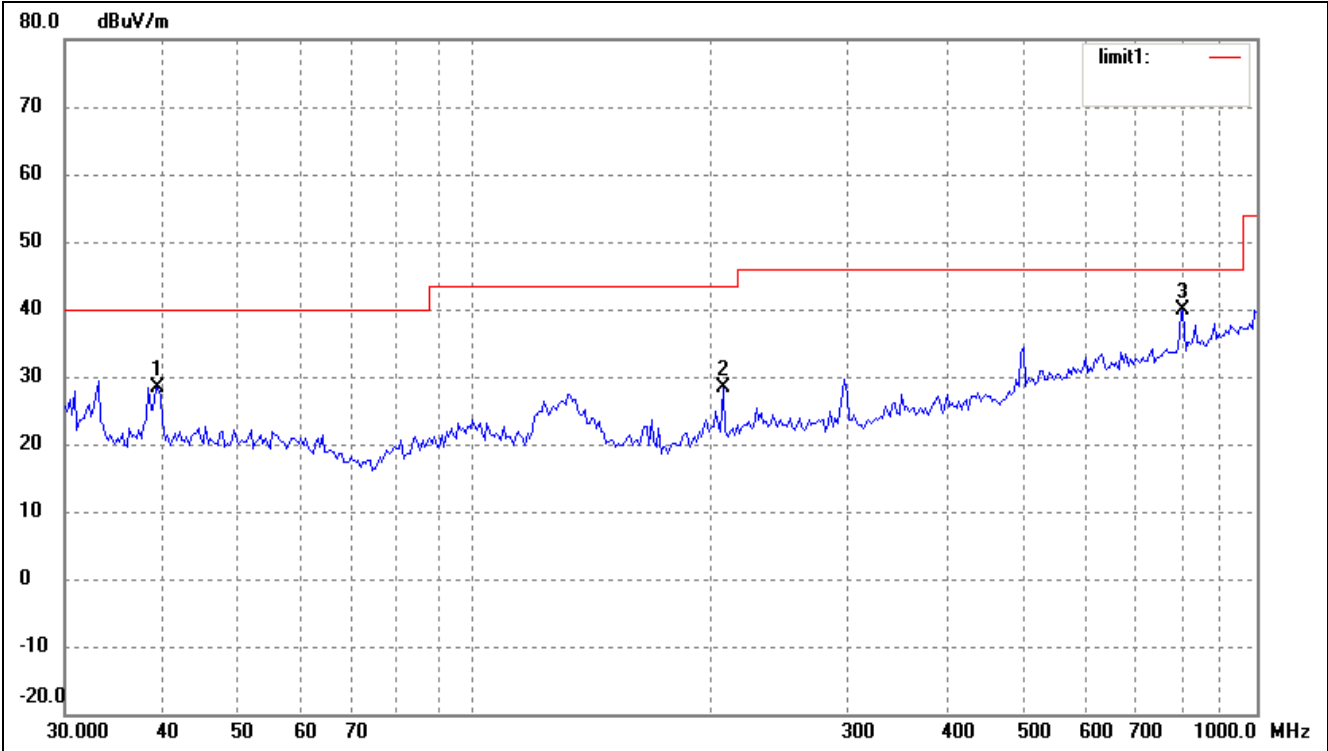
Comment: DC 3.7V

Test Specification: Horizontal

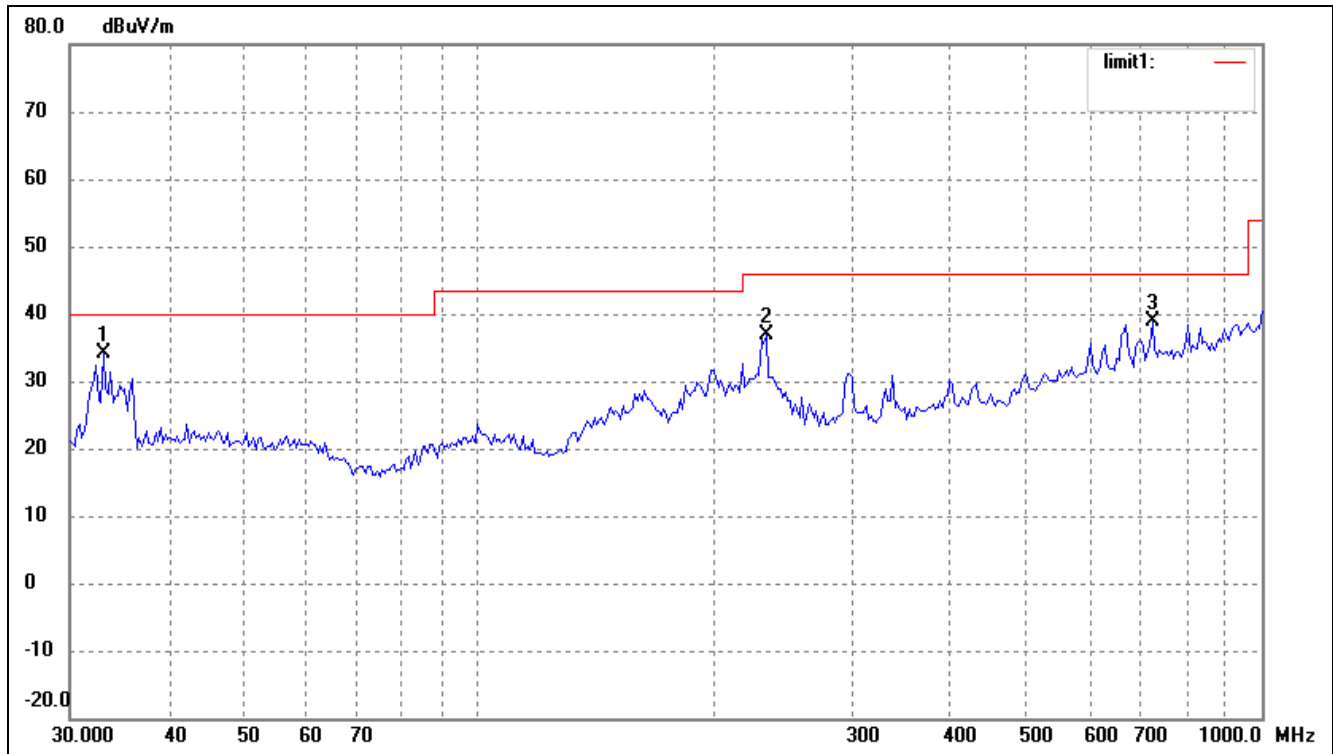


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	22.98	6.77	29.75	40.00	-10.25	24	100	peak
2	229.2931	22.38	7.82	30.20	46.00	-15.80	35	100	peak
3	925.7563	16.63	21.38	38.01	46.00	-7.99	24	100	peak

Test Specification: Vertical

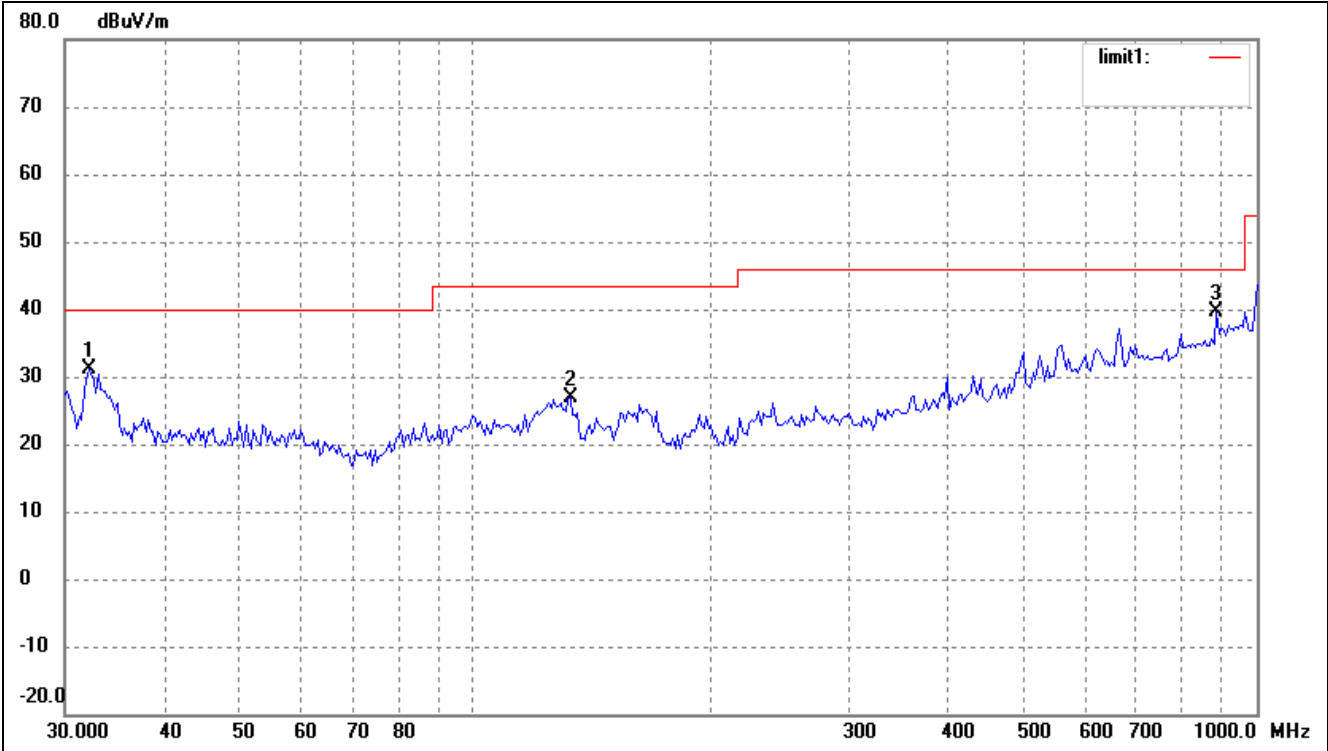


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	39.4372	20.45	7.99	28.44	40.00	-11.56	24	100	peak
2	207.8501	21.48	6.86	28.34	43.50	-15.16	341	100	peak
3	804.6028	20.83	19.10	39.93	46.00	-6.07	96	100	peak

Plot of Radiated Emissions Test Data (30MHz to 1GHz)*EUT: Tablet PC**Tested Model: F-7HD4Core**Operating Condition: 802.11n-HT40 Transmitting Low Channel-2422MHz**Comment: DC 3.7V**Test Specification: Horizontal*

No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	27.31	6.77	34.08	40.00	-5.92	321	100	peak
2	232.5318	28.75	8.01	36.76	46.00	-9.24	47	100	peak
3	724.2611	21.00	17.86	38.86	46.00	-7.14	266	100	peak

Test Specification: Vertical

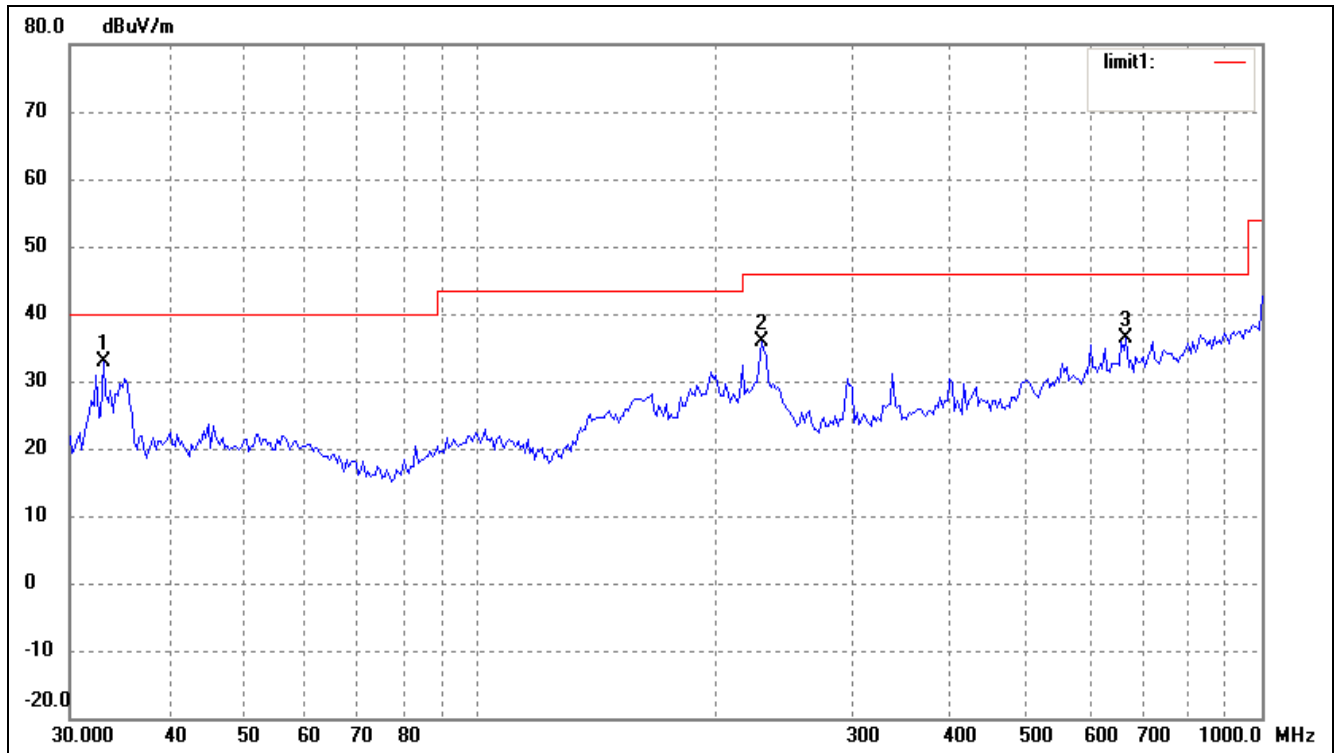


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.1795	24.38	6.77	31.15	40.00	-8.85	254	100	peak
2	132.6850	22.48	4.40	26.88	43.50	-16.62	27	100	peak
3	887.6099	18.93	20.67	39.60	46.00	-6.40	354	100	peak

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

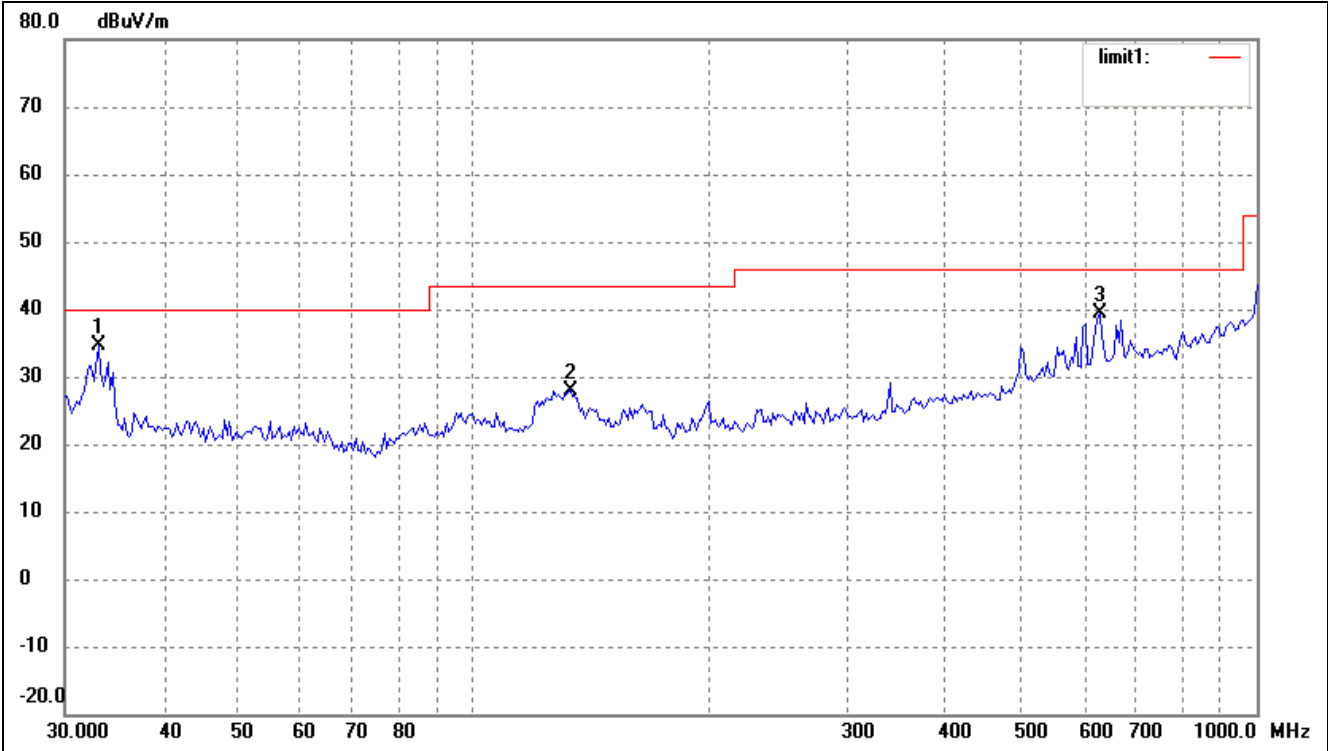
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	26.05	6.77	32.82	40.00	-7.18	354	100	peak
2	229.2931	28.03	7.82	35.85	46.00	-10.15	12	100	peak
3	670.4893	19.01	17.26	36.27	46.00	-9.73	27	100	peak

Test Specification: Vertical

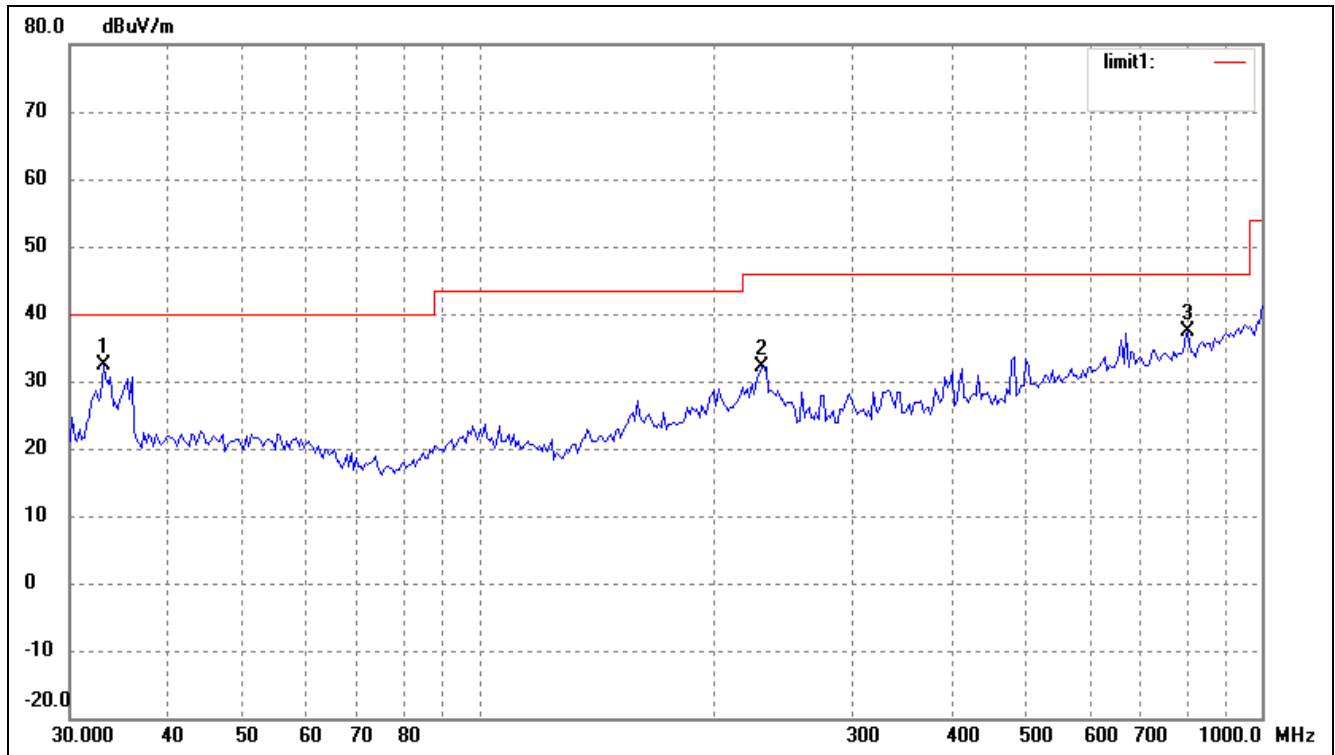


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	27.78	6.77	34.55	40.00	-5.45	257	100	peak
2	132.6850	23.60	4.40	28.00	43.50	-15.50	34	100	peak
3	629.4772	22.58	16.91	39.49	46.00	-6.51	57	100	peak

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

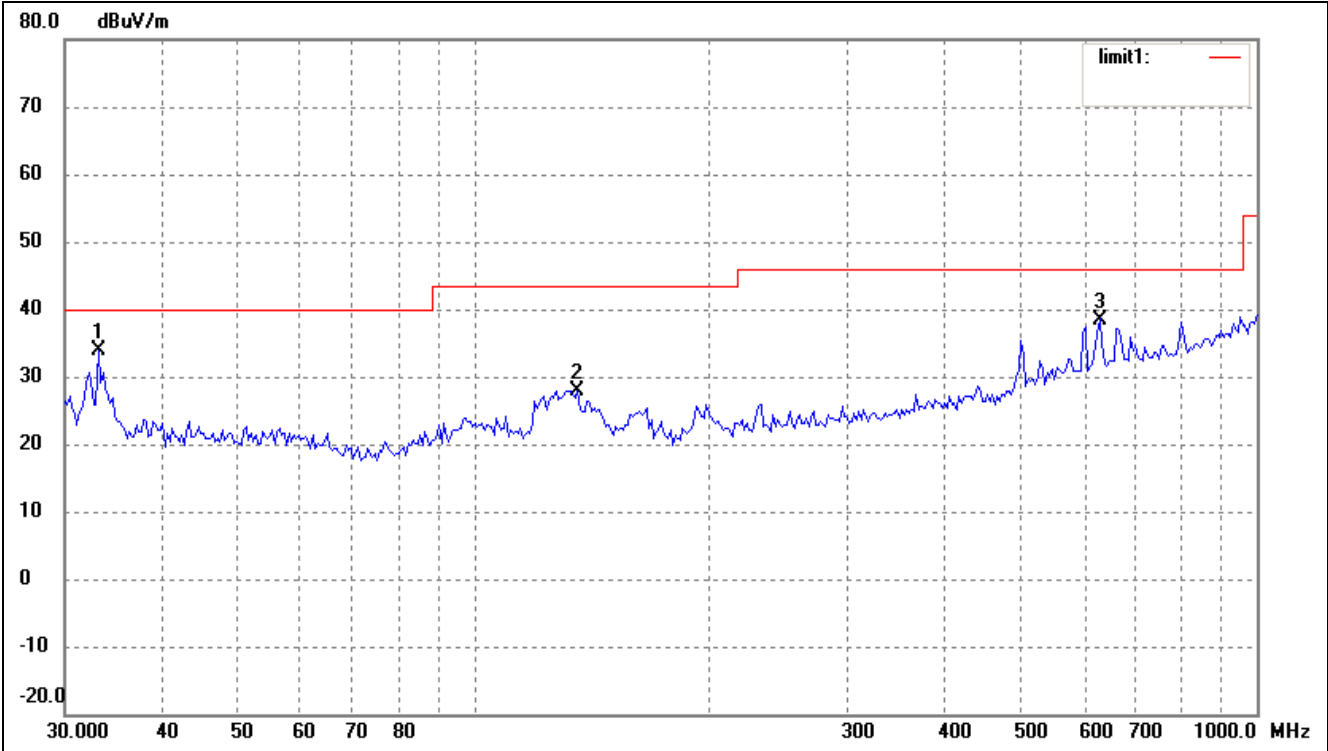
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	25.53	6.77	32.30	40.00	-7.70	241	100	peak
2	229.2931	24.39	7.82	32.21	46.00	-13.79	65	100	peak
3	804.6028	18.24	19.10	37.34	46.00	-8.66	26	100	peak

Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	27.10	6.77	33.87	40.00	-6.13	257	100	peak
2	135.5062	23.76	4.24	28.00	43.50	-15.50	64	100	peak
3	629.4772	21.59	16.91	38.50	46.00	-7.50	221	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 Channel-2412MHz							
4824	64.06	0.57	64.63	74.00	-9.37	H	PK
4824	48.95	0.57	49.52	54.00	-4.48	H	AV
7236	42.11	3.69	45.80	74.00	-28.10	H	PK
7236	31.92	3.69	35.61	54.00	-18.39	H	AV
4824	58.73	0.57	59.30	74.00	-14.70	V	PK
4824	42.03	0.57	42.60	54.00	-11.40	V	AV
7236	42.42	3.69	46.11	74.00	-27.89	V	PK
7236	31.76	3.69	35.45	54.00	-18.55	V	AV
Middle Channel-2437MHz							
4874	62.41	0.64	63.05	74.00	-10.95	H	PK
4874	47.57	0.64	48.21	54.00	-5.79	H	AV
7311	45.73	3.75	49.48	74.00	-24.52	H	PK
7311	33.63	3.75	37.38	54.00	-16.62	H	AV
4874	55.72	0.64	56.36	74.00	-17.64	V	PK
4874	41.31	0.64	41.95	54.00	-12.05	V	AV
7311	43.57	3.75	47.32	74.00	-26.68	V	PK
7311	31.45	3.75	35.20	54.00	-18.80	V	AV
High Channel-2462MHz							
4924	60.13	0.72	60.85	74.00	-13.15	H	PK
4924	46.42	0.72	47.14	54.00	-6.86	H	AV
7386	44.74	3.81	48.55	74.00	-25.45	H	PK
7386	31.33	3.81	35.14	54.00	-18.86	H	AV
4924	55.29	0.72	56.01	74.00	-17.99	V	PK
4924	41.58	0.72	42.30	54.00	-11.70	V	AV
7386	42.36	3.81	46.17	74.00	-27.83	V	PK
7386	31.31	3.81	35.12	54.00	-18.88	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 Channel-2412MHz							
4824	44.16	0.57	44.73	74.00	-29.27	H	PK
4824	33.21	0.57	33.78	54.00	-20.22	H	AV
7236	42.47	3.69	46.16	74.00	-27.84	H	PK
7236	31.06	3.69	34.75	54.00	-19.25	H	AV
4824	50.45	0.57	51.02	74.00	-22.98	V	PK
4824	35.95	0.57	36.52	54.00	-17.48	V	AV
7236	42.93	3.69	46.62	74.00	-27.38	V	PK
7236	31.22	3.69	34.91	54.00	-19.09	V	AV
Middle Channel-2437MHz							
4874	45.23	0.64	45.87	74.00	-28.13	H	PK
4874	34.02	0.64	34.66	54.00	-19.34	H	AV
7311	42.52	3.75	46.27	74.00	-27.73	H	PK
7311	31.55	3.75	35.30	54.00	-18.70	H	AV
4874	57.02	0.64	57.66	74.00	-16.34	V	PK
4874	42.33	0.64	42.97	54.00	-11.03	V	AV
7311	45.59	3.75	49.34	74.00	-24.66	V	PK
7311	31.31	3.75	35.06	54.00	-18.94	V	AV
High Channel-2462MHz							
4924	45.12	0.72	45.84	74.00	-28.16	H	PK
4924	33.29	0.72	34.01	54.00	-19.99	H	AV
7386	42.83	3.81	46.64	74.00	-27.36	H	PK
7386	31.53	3.81	35.34	54.00	-18.66	H	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-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824	44.05	0.57	44.62	74.00	-29.38	H	PK
4824	32.53	0.57	33.10	54.00	-20.90	H	AV
7236	42.07	3.69	45.76	74.00	-28.24	H	PK
7236	30.98	3.69	34.67	54.00	-19.33	H	AV
4824	49.67	0.57	50.24	74.00	-23.76	V	PK
4824	36.05	0.57	36.62	54.00	-17.38	V	AV
7236	42.16	3.69	45.85	74.00	-28.15	V	PK
7236	31.08	3.69	34.77	54.00	-19.23	V	AV
Middle Channel-2437MHz							
4874	45.90	0.64	46.54	74.00	-27.46	H	PK
4874	34.07	0.64	34.71	54.00	-19.29	H	AV
7311	43.55	3.75	47.30	74.00	-26.70	H	PK
7311	31.47	3.75	35.22	54.00	-18.78	H	AV
4874	55.12	0.64	55.76	74.00	-18.24	V	PK
4874	42.49	0.64	43.13	54.00	-10.87	V	AV
7311	43.42	3.75	47.17	74.00	-26.83	V	PK
7311	31.50	3.75	35.25	54.00	-18.75	V	AV
High Channel-2462MHz							
4924	52.19	0.72	52.91	74.00	-21.09	H	PK
4924	38.64	0.72	39.36	54.00	-14.64	H	AV
7386	44.28	3.81	48.09	74.00	-25.91	H	PK
7386	31.50	3.81	35.31	54.00	-18.69	H	AV
4924	48.76	0.72	49.48	74.00	-24.52	V	PK
4924	36.13	0.72	36.85	54.00	-17.15	V	AV
7386	43.13	3.81	46.94	74.00	-27.06	V	PK
7386	31.33	3.81	35.14	54.00	-18.86	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 Channel-2422MHz							
4844	48.91	0.60	49.51	74.00	-24.49	H	PK
4844	37.30	0.60	37.90	54.00	-16.10	H	AV
7266	41.70	3.72	45.42	74.00	-28.58	H	PK
7266	30.78	3.72	34.50	54.00	-19.50	H	AV
4844	48.66	0.60	49.26	74.00	-24.74	V	PK
4844	37.54	0.60	38.14	54.00	-15.86	V	AV
7266	42.62	3.72	46.34	74.00	-27.66	V	PK
7266	30.93	3.72	34.65	54.00	-19.35	V	AV
Middle Channel-2437MHz							
4874	51.18	0.64	51.82	74.00	-22.18	H	PK
4874	41.02	0.64	41.66	54.00	-12.34	H	AV
7311	42.88	3.75	46.63	74.00	-27.37	H	PK
7311	31.48	3.75	35.23	54.00	-18.77	H	AV
4874	48.16	0.64	48.80	74.00	-25.20	V	PK
4874	36.70	0.64	37.34	54.00	-16.66	V	AV
7311	42.50	3.75	46.25	74.00	-27.75	V	PK
7311	31.37	3.75	35.12	54.00	-18.88	V	AV
High Channel-2452MHz							
4904	55.77	0.68	56.45	74.00	-17.55	H	PK
4904	45.77	0.68	46.45	54.00	-7.55	H	AV
7356	45.15	3.79	48.94	74.00	-25.06	H	PK
7356	33.13	3.79	36.92	54.00	-17.08	H	AV
4904	51.44	0.68	52.12	74.00	-21.88	V	PK
4904	41.09	0.68	41.77	54.00	-12.23	V	AV
7356	43.03	3.79	46.82	74.00	-27.18	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 3th 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, 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.

8.4 Environmental Conditions

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

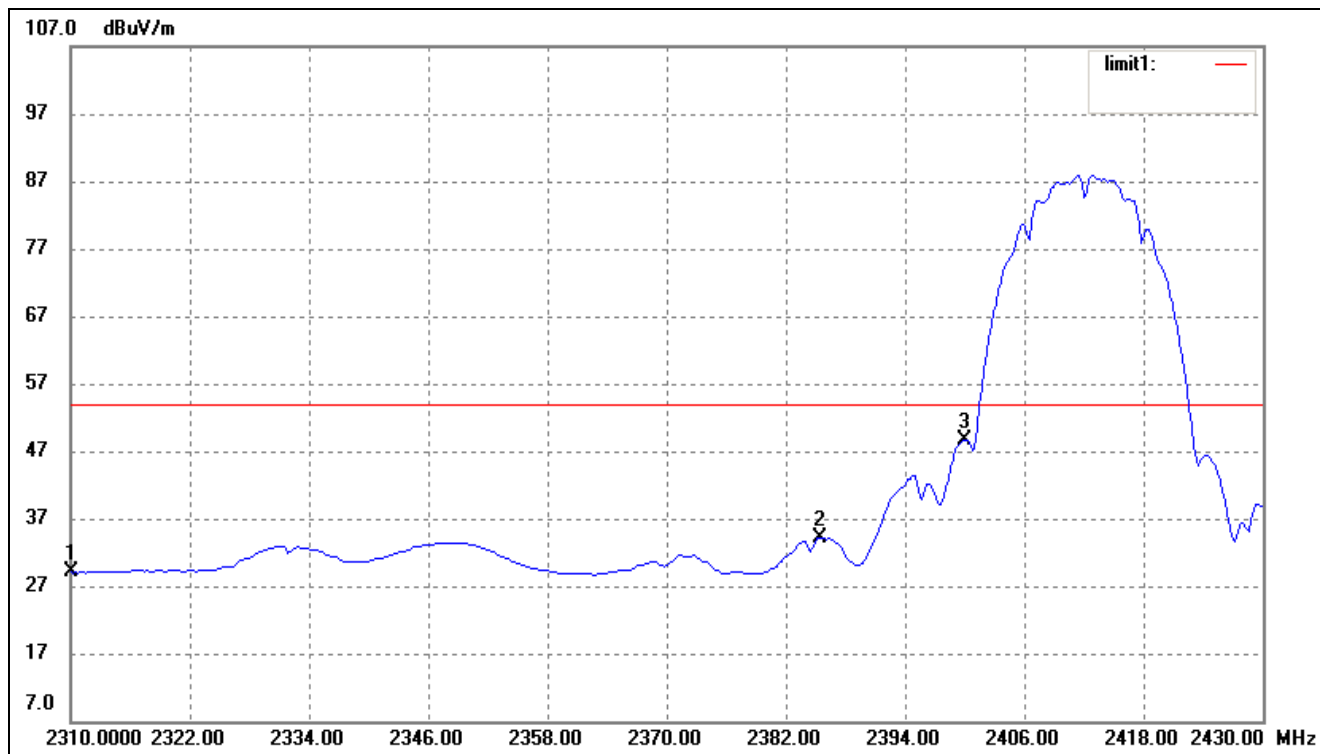
8.5 Summary of Test Results/Plots

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

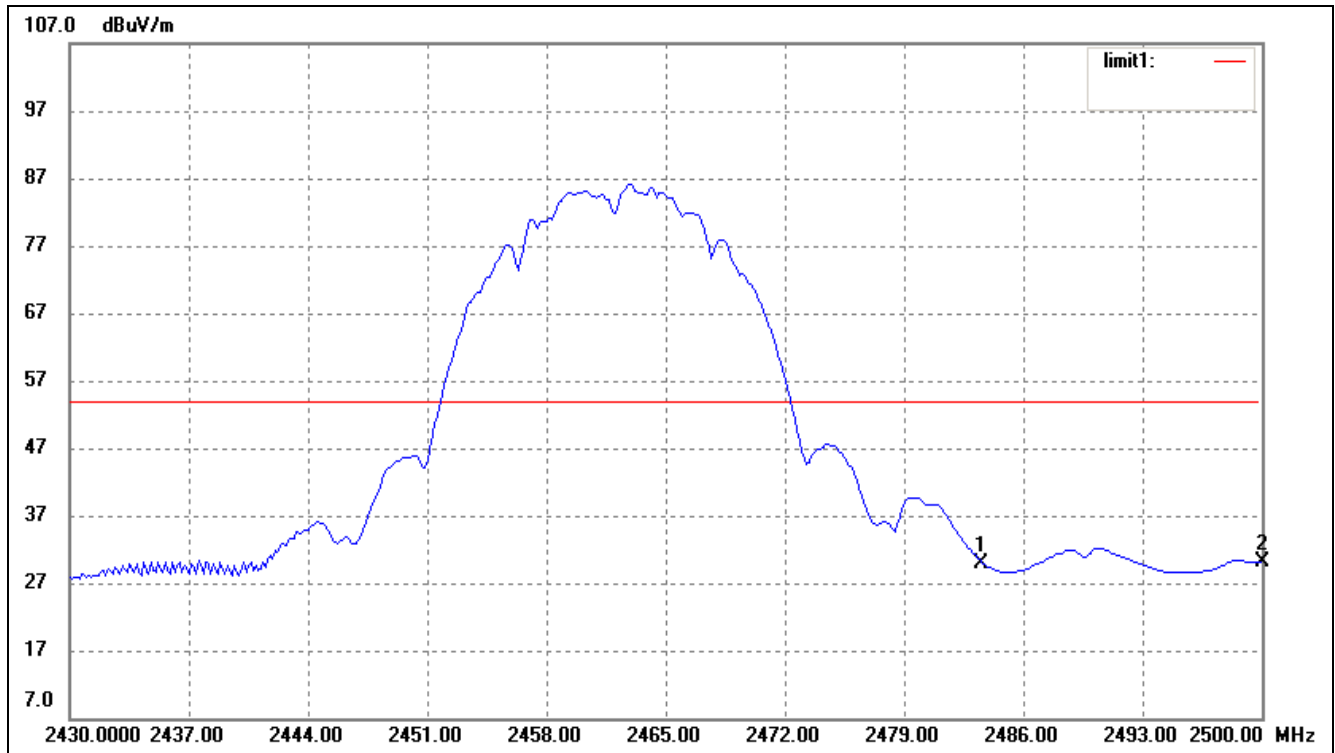
Please refer to the test plots as below.

802.11b-Lowest Bandedge



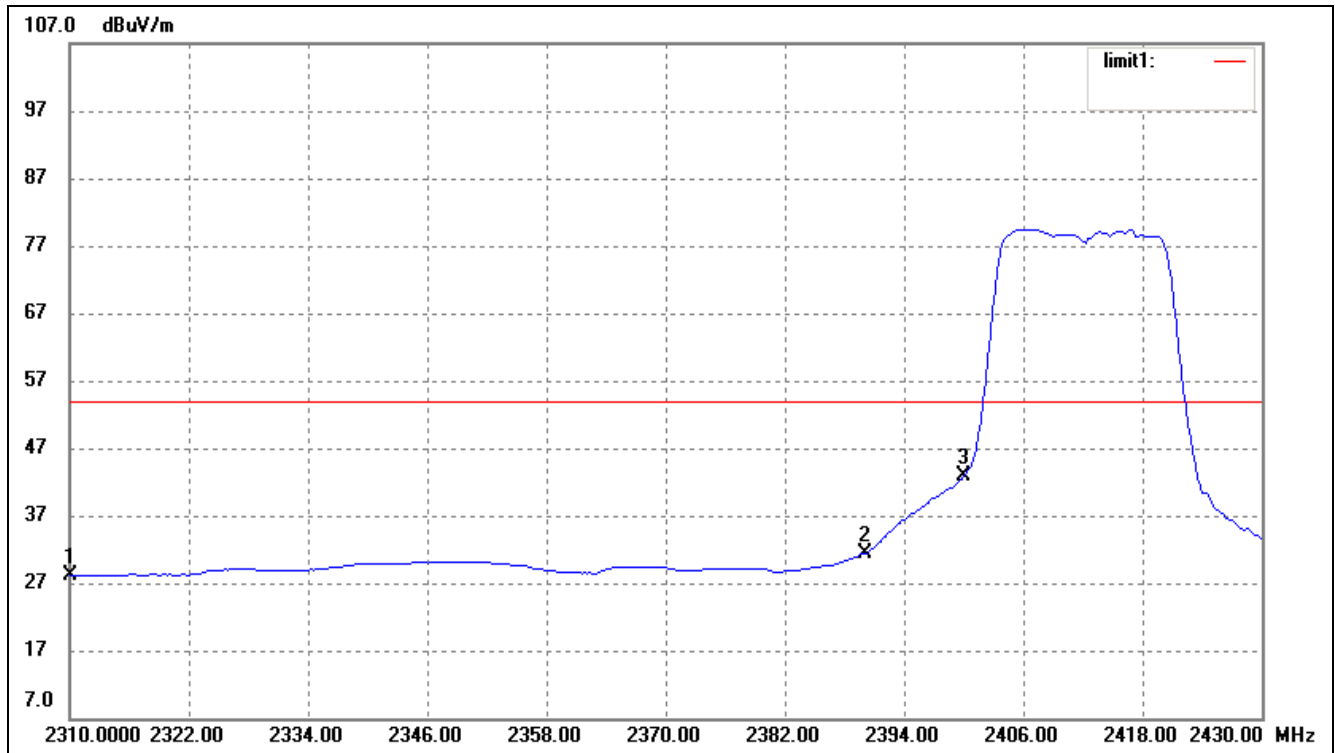
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	33.67	-4.65	29.02	54.00	-24.98	AV Detector
	2310.000	47.23	-4.65	42.58	74.00	-31.42	Peak Detector
2	2385.360	38.65	-4.46	34.19	54.00	-19.81	AV Detector
	2385.360	52.60	-4.46	48.14	74.00	-25.86	Peak Detector
3	2400.000	52.98	-4.43	48.55	54.00	-5.45	AV Detector
	2400.000	64.86	-4.43	60.43	74.00	-13.57	Peak Detector

802.11b-Highest Bandedge



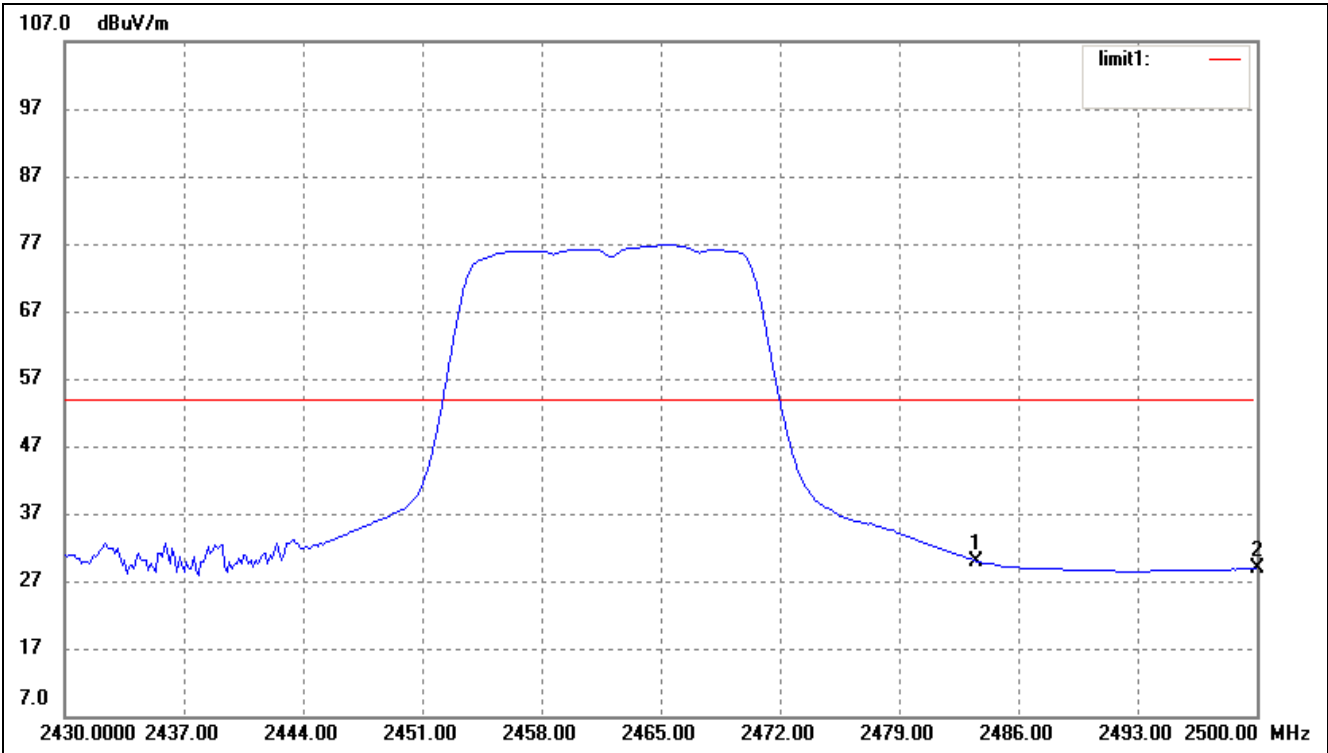
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	34.19	-4.23	29.96	54.00	-24.04	AV Detector
	2483.500	47.60	-4.23	43.37	74.00	-30.63	Peak Detector
2	2500.000	34.43	-4.18	30.25	54.00	-23.75	AV Detector
	2500.000	47.97	-4.18	43.79	74.00	-30.21	Peak Detector

802.11g-Lowest Bandedge



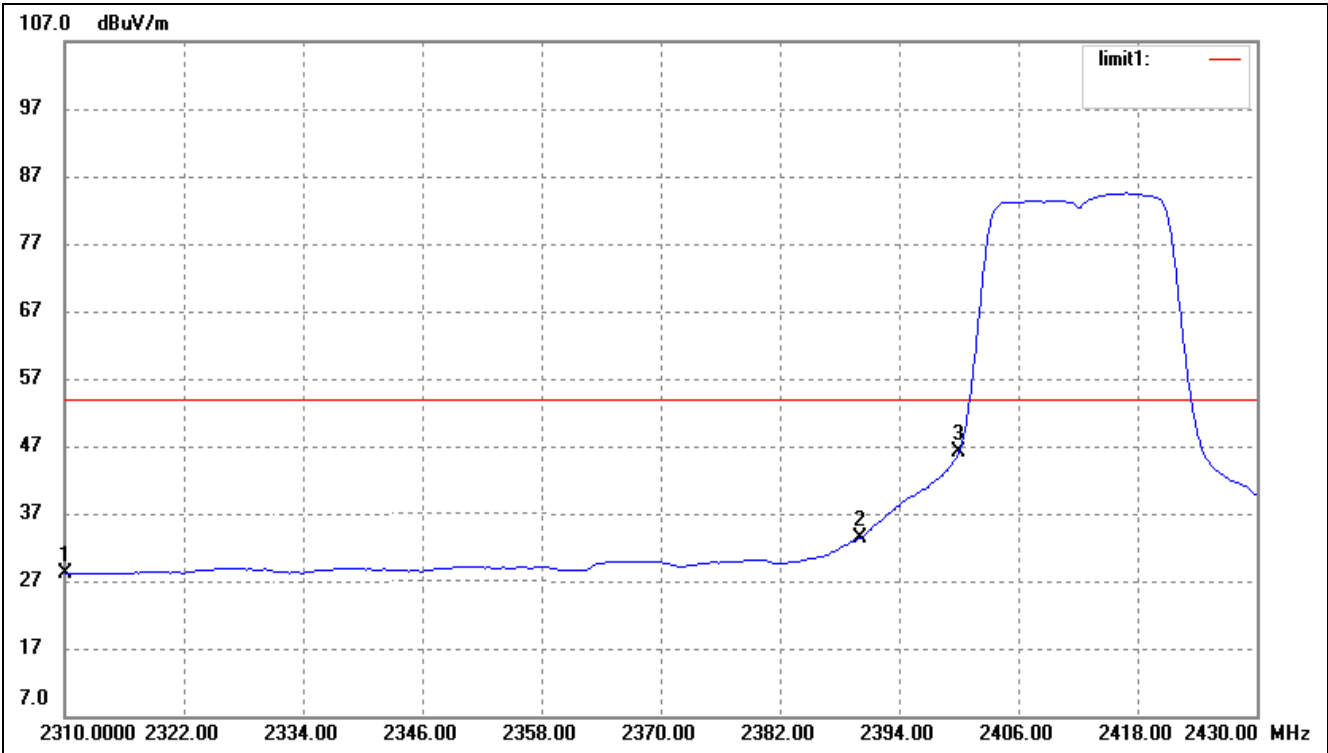
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	32.81	-4.65	28.16	54.00	-25.84	AV Detector
	2310.000	46.32	-4.65	41.67	74.00	-32.33	Peak Detector
2	2390.000	35.96	-4.46	31.50	54.00	-22.50	AV Detector
	2390.000	49.29	-4.46	44.83	74.00	-29.17	Peak Detector
3	2400.000	47.28	-4.43	42.85	54.00	-11.15	AV Detector
	2400.000	58.11	-4.43	53.68	74.00	-20.32	Peak Detector

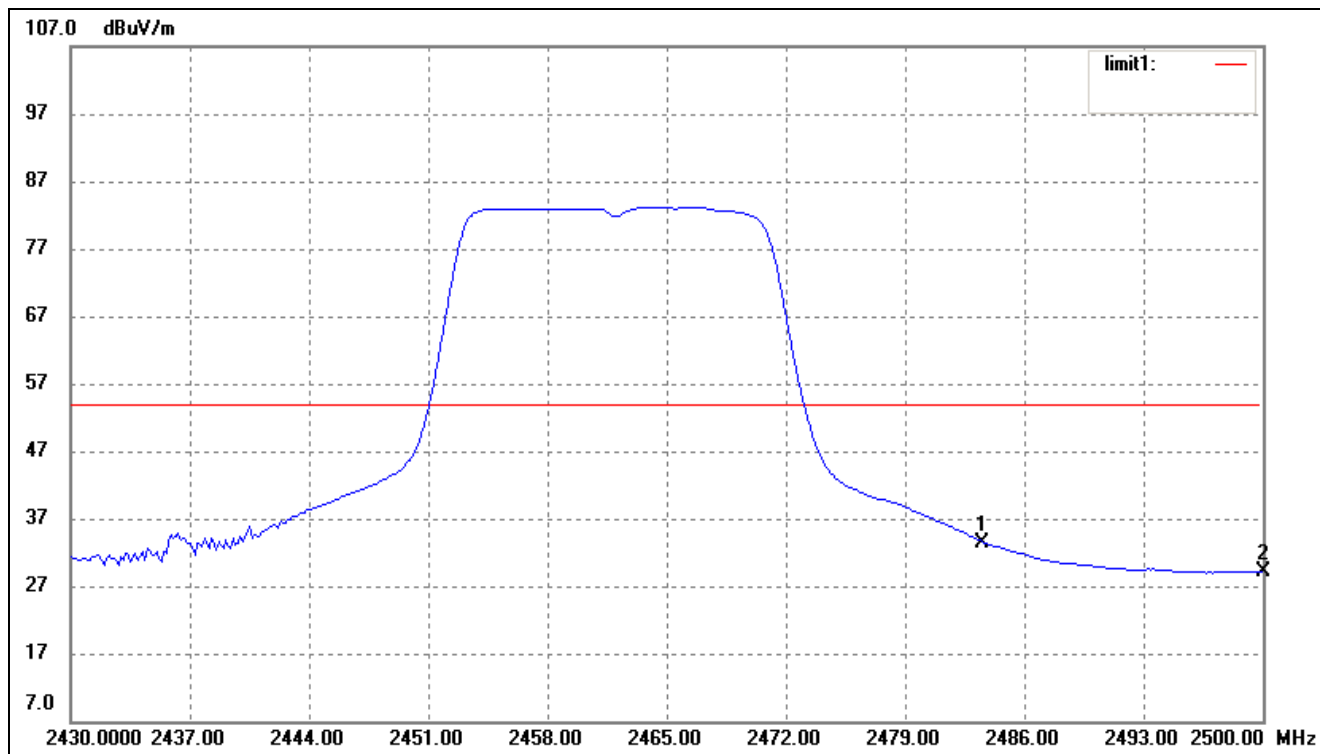
802.11g-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	34.09	-4.23	29.86	54.00	-24.14	AV Detector
	2483.500	47.74	-4.23	43.51	74.00	-30.49	Peak Detector
2	2500.000	33.05	-4.18	28.87	54.00	-25.13	AV Detector
	2500.000	47.28	-4.18	43.10	74.00	-30.09	Peak Detector

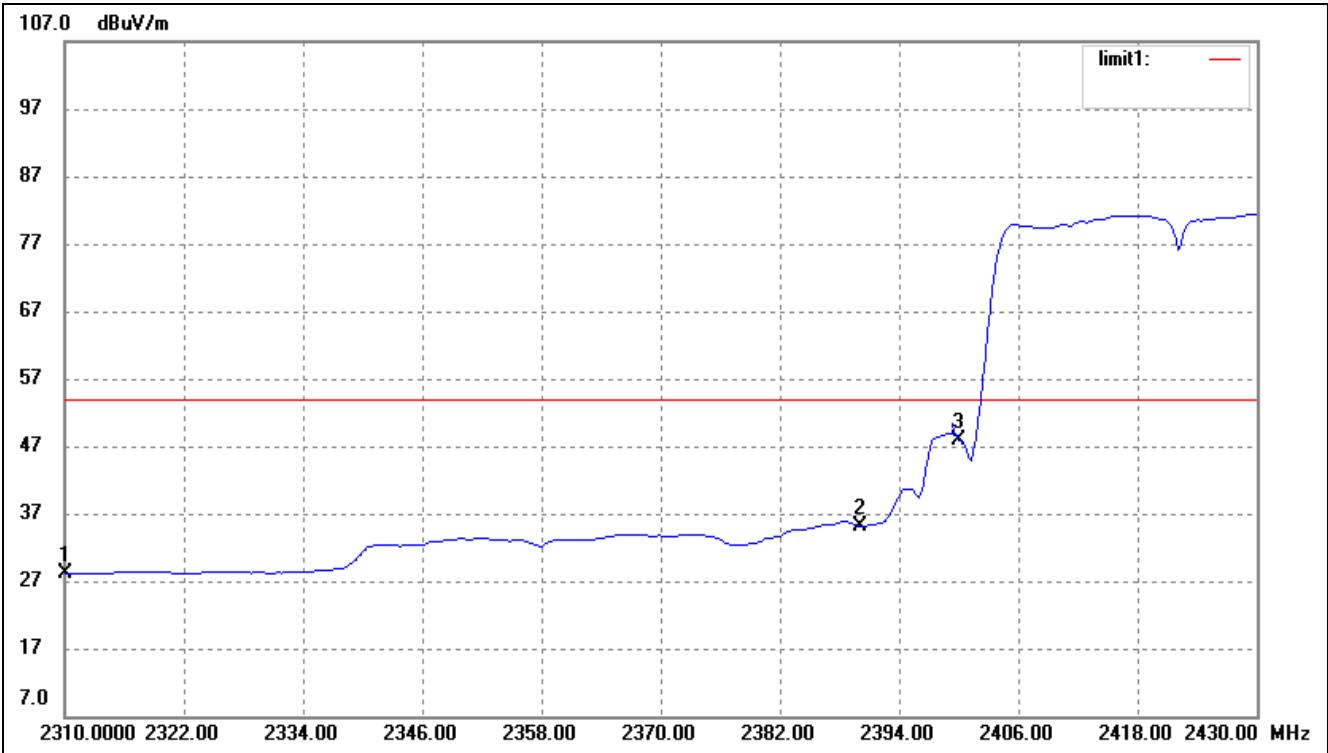
802.11n-HT20-Lowest Bandedge



802.11n-HT20-Highest Bandedge

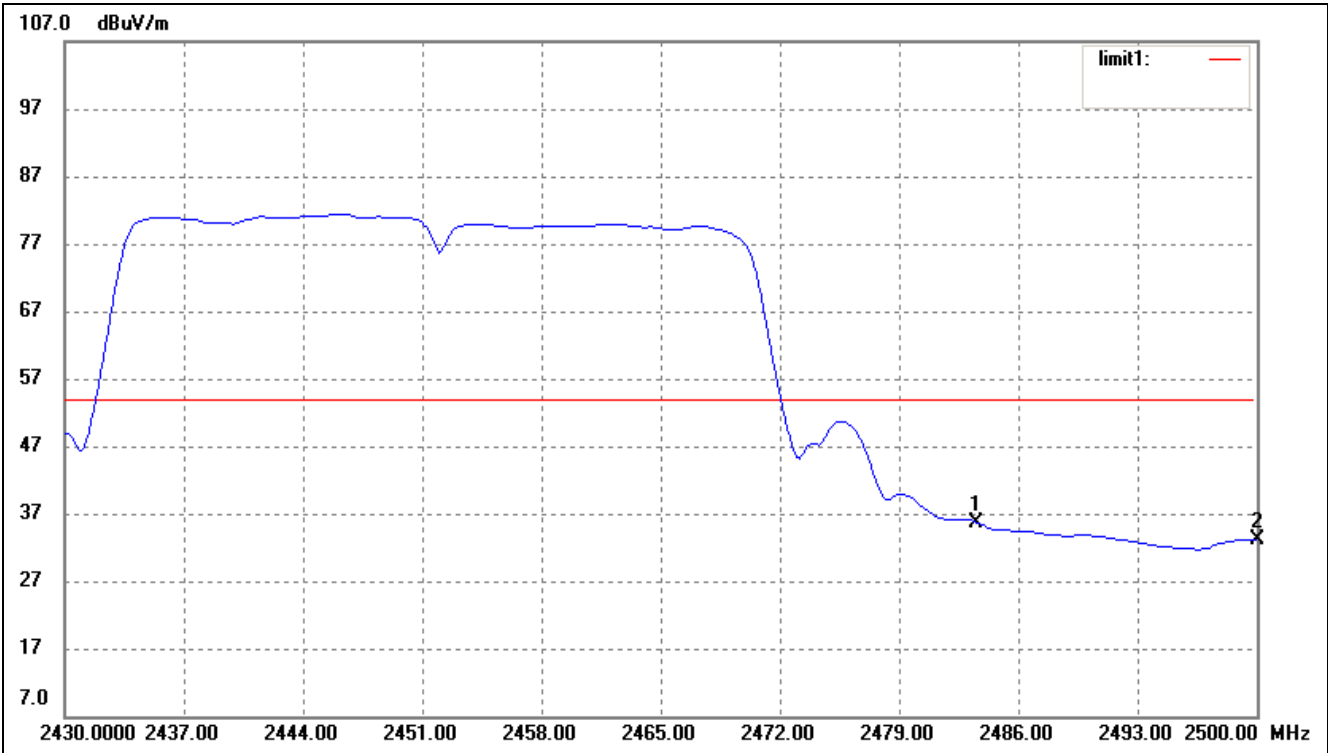
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.71	-4.23	33.48	54.00	-20.52	AV Detector
	2483.500	51.00	-4.23	46.87	74.00	-27.13	Peak Detector
2	2500.000	33.30	-4.18	29.12	54.00	-24.88	AV Detector
	2500.000	46.77	-4.18	42.59	74.00	-31.41	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	32.88	-4.65	28.23	54.00	-25.77	AV Detector
	2310.000	46.29	-4.65	41.64	74.00	-32.36	Peak Detector
2	2390.000	39.49	-4.46	35.03	54.00	-18.97	AV Detector
	2390.000	53.09	-4.46	48.63	74.00	-25.37	Peak Detector
3	2400.000	52.26	-4.43	47.83	54.00	-6.17	AV Detector
	2400.000	64.55	-4.43	60.12	54.00	-13.88	Peak 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	39.81	-4.23	35.58	54.00	-18.42	AV Detector
	2483.500	53.00	-4.23	48.87	74.00	-25.13	Peak Detector
2	2500.000	37.37	-4.18	33.19	54.00	-20.81	AV Detector
	2500.000	50.77	-4.18	46.59	74.00	-27.41	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

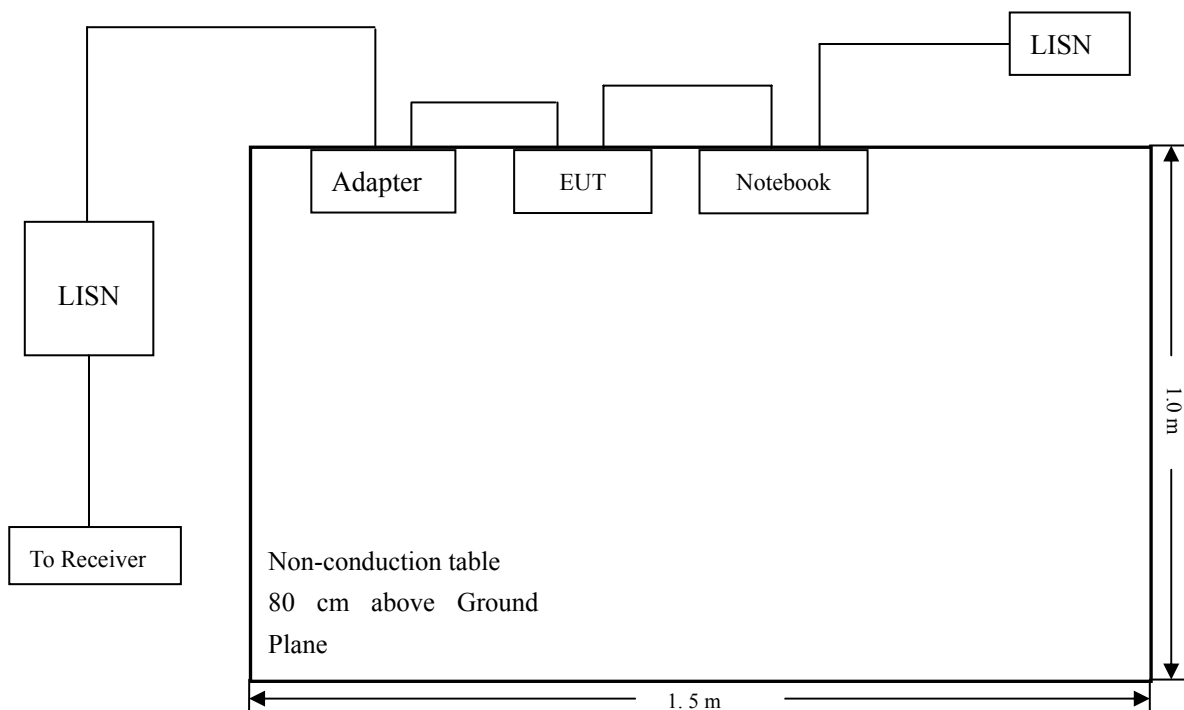
9.3 Test Procedure

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 Auto
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 3.8, the EUT complied with the FCC Part 15.207 Conducted margin for a Class B device, with the *worst* margin reading of:

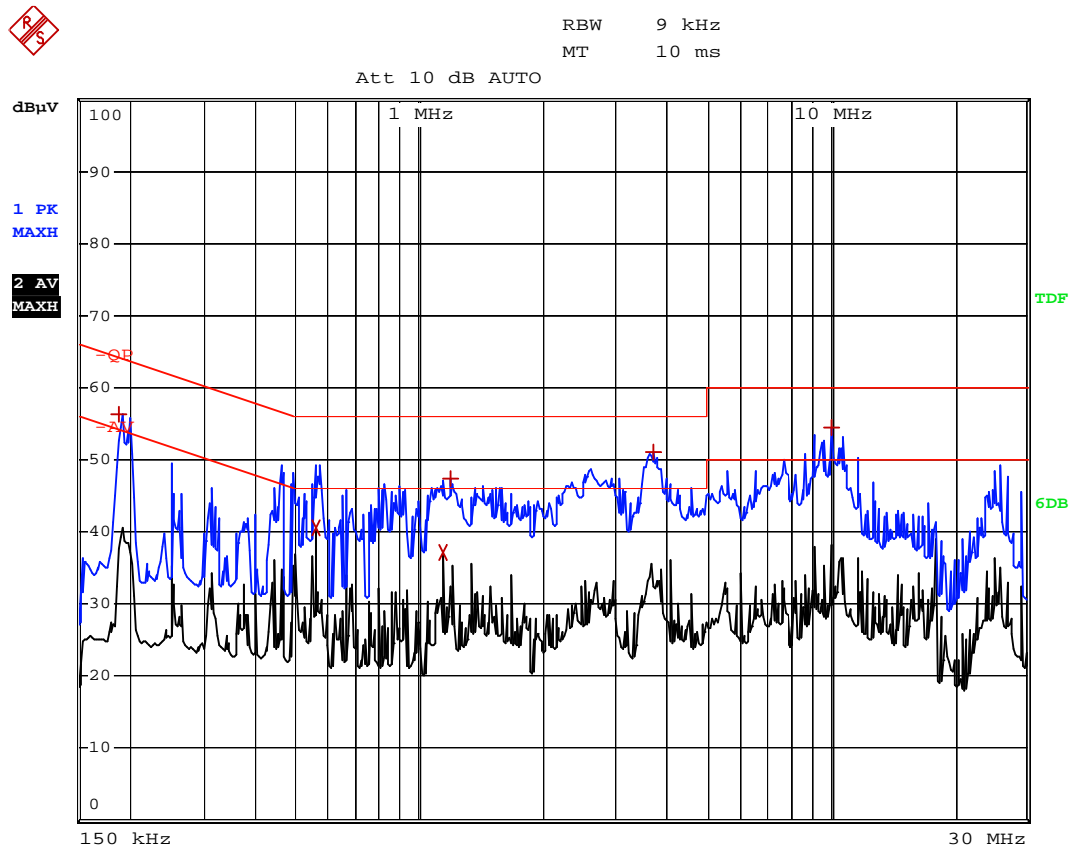
-4.82 dB at 3.698 MHz in the Neutral mode, QP detector, 0.15-30MHz

9.8 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

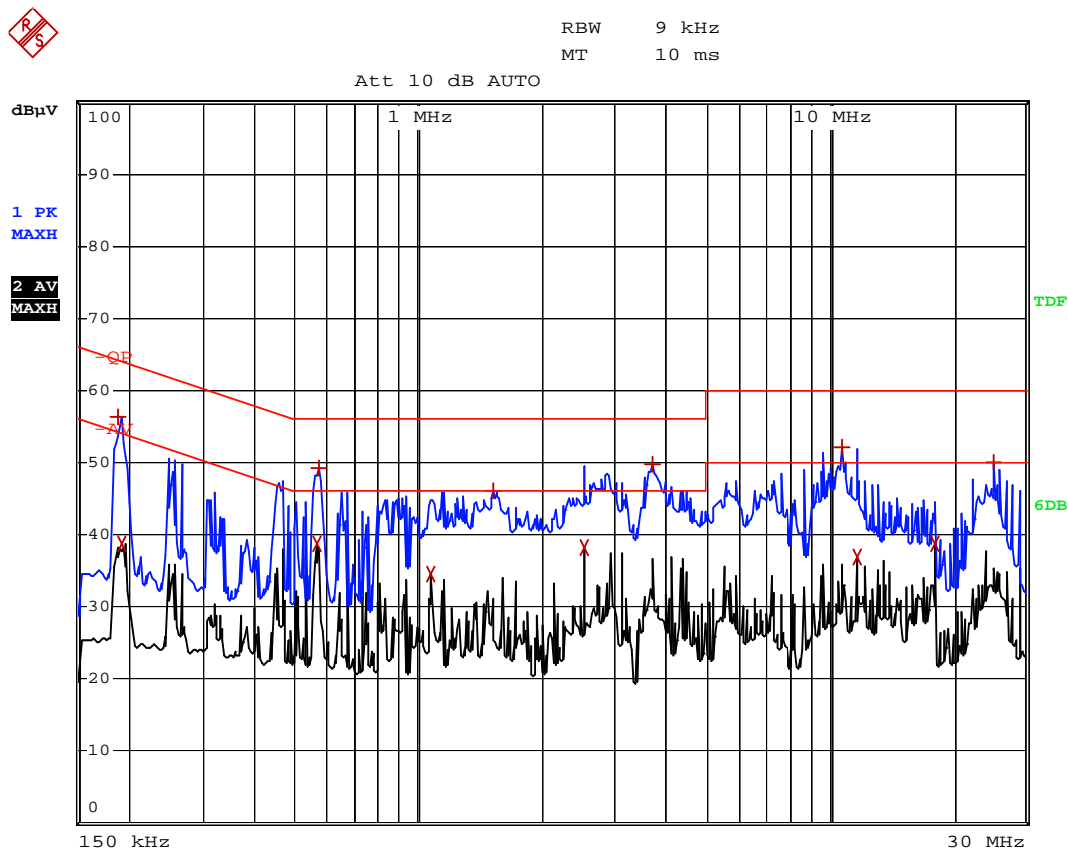
EUT: Tablet PC
Tested Model: F-7HD4Core
Operating Condition: Wireless Transmitting
Comment: AC 120V/60Hz; Adapter DC 5V

Test Specification: Neutral



EDIT PEAK LIST (Prescan Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Max Peak	190 kHz	56.31	-7.71
2 Average	562 kHz	40.47	-5.52
2 Average	1.138 MHz	37.15	-8.85
1 Max Peak	1.194 MHz	47.28	-8.71
1 Max Peak	3.698 MHz	51.17	-4.82
1 Max Peak	10.046 MHz	54.44	-5.56

Test Specification: Line



EDIT PEAK LIST (Prescan Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Max Peak	190 kHz	56.29	-7.73
2 Average	194 kHz	38.69	-15.16
2 Average	566 kHz	38.66	-7.33
1 Max Peak	570 kHz	49.23	-6.76
2 Average	1.07 MHz	34.48	-11.51
1 Max Peak	1.526 MHz	46.00	-10.00
2 Average	2.542 MHz	38.30	-7.69
1 Max Peak	3.706 MHz	49.79	-6.20
1 Max Peak	10.686 MHz	52.21	-7.78
2 Average	11.702 MHz	36.84	-13.16
2 Average	17.982 MHz	38.82	-11.17
1 Max Peak	24.934 MHz	49.91	-10.08

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