

FCC Part 15C Measurement and Test Report

For

ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED

No.161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong Guan City,
China

FCC ID: ZL9-SP6020

FCC Rule(s): FCC Part 15C

Product Description: <u>Tablet</u>

Tested Model: M66AYG-P

Report No.: <u>STR14108021I-4</u>

Tested Date: 2014-10-10 to 2014-10-17

Issued Date: <u>2014-10-17</u>

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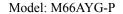
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.



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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY

LIMITED

Address of applicant: No. 161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong

Guan City, China

Manufacturer: ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY

LIMITED

Address of manufacturer: No. 161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong

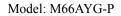
Guan City, China

General Description of	EUT
Product Name:	Tablet
Brand Name:	/
Model No.:	M66AYG-P
Adding Mode:	SP6020
Software Version:	MT83X2_MR601_MR6012H1CW1.2014090521
Hardware Version:	ELINK-MR601_V5
IMEI:	862703365741541/86552639560771
Rated Voltage:	DC 3.7V Battery
Battery:	2600mAh
Dowar Adaptor	YN12W-0500200HU
Power Adaptor:	Input 100-240V, 50/60Hz, Output DC 5V/2A
Device Category:	Portable Device

The EUT is GSM850/900/DCS1800/PCS1900, WCDMA Band I, Band II, Band V, Entertainment Tablet. the Entertainment Tablet is intended for speech and Multimedia Message Service (MMS) transmission. It is equipped with GPRS/EDGE class 12 for GSM850 and GSM1900 and Bluetooth, Wi-Fi, and camera functions. For more information see the following datasheet

The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model M66AYG-P, but the circuit and the electronic construction do not change, declared by the manufacturer.

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Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Fraguency Pango:	2412-2472MHz for 11b/g/n(HT20)
Frequency Range:	2422-2462MHz for 11n(HT40)
RF Output Power:	15.91dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	13 for 11b/g/n(HT20), 9 for 11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	Integral
Antenna Gain:	0dBi
Lowest Internal Frequency	26MHz

1.2 Test Standards

The following report is prepared on behalf of the ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED 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 D01 V03 for digital transmission systems shall be performed also.

1.4 Test Facility

• FCC – Registration No.: 934118

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

• Industry Canada (IC) Registration No.: 11464A

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

• CNAS Registration No.: L4062

Shenzhen SEM.Test Technology 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 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101)

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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, 2442MHz, 2472MHz			
TM2	802.11g	2412MHz, 2442MHz, 2472MHz			
TM3	802.11n-HT20	2412MHz, 2442MHz, 2472MHz			
TM4	802.11n-HT40	2422MHz, 2442MHz, 2462MHz			

EUT Cable List and Details					
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite		
USB Cable	1.0	Unshielded	Without Core		
Earphone Cable	1.1	Unshielded	Without Core		

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

Auxiliary Equipment List and Details						
Description Manufacturer Model Serial Number						
Notebook Computer	Lenovo	E10	LR-63C8R			

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2. SUMMARY OF TEST RESULTS

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

N/A: not applicable



3. RF Exposure

3.1 Standard Applicable

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

3.2 Test Result

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



4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4.2 Evaluation Information

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

5. RF Output Power

5.1 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.

5.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-28	2015-05-27
Attenuator	ATTEN	ATS100-4-20	/	2014-05-28	2015-05-27

5.3 Test Procedure

According to section 15.247(b)-power output of the KDB-558074 D01 V03r02, 9.2.2.2 (channel integration method) When this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times RBW$.
- d) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \ge 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

5.4 Environmental Conditions

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

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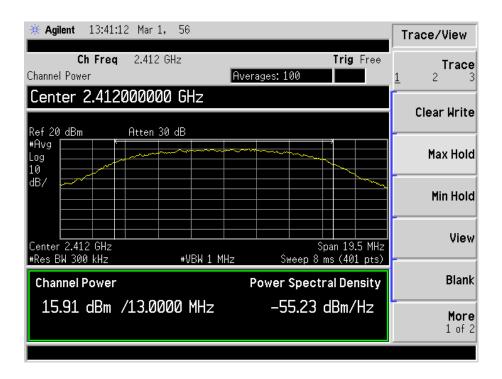
5.5 Summary of Test Results/Plots

Test Mode	Frequency	Reading	Output Power	Limit
Test Mode	MHz	dBm	mW	mW
	2412	15.91	38.99	1000
802.11b _ 11Mbps	2442	15.15	32.73	1000
	2472	14.74	29.79	1000
802.11g_54Mbps	2412	14.03	25.29	1000
	2442	12.54	17.95	1000
	2472	10.92	12.36	1000
802.11n HT20_MCS7	2412	14.50	28.18	1000
	2442	12.74	18.79	1000
	2472	11.17	13.09	1000
	2422	11.53	14.22	1000
802.11n HT40_MCS7	2442	10.55	11.35	1000
	2462	9.71	9.35	1000

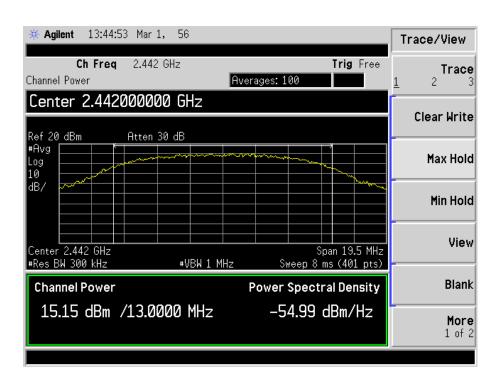
Please refer to the following test plots:



802.11b-Low Channel

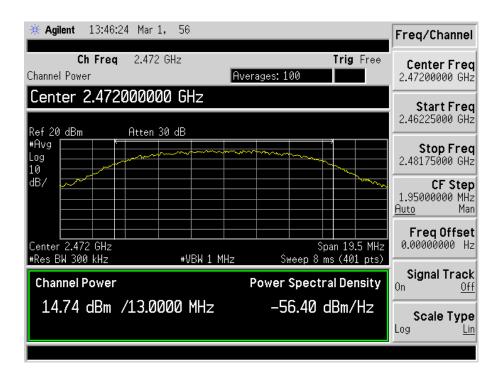


802.11b-Middle Channel

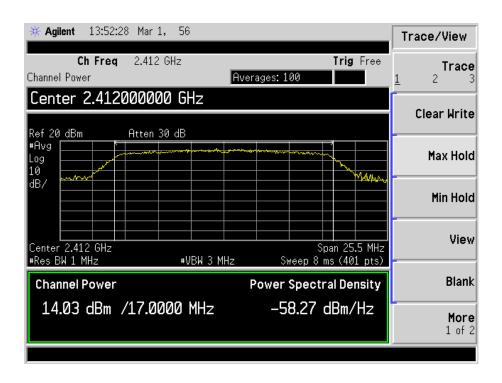




802.11b-High Channel

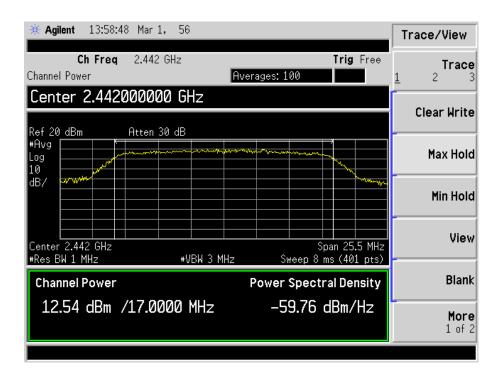


802.11g-Low Channel

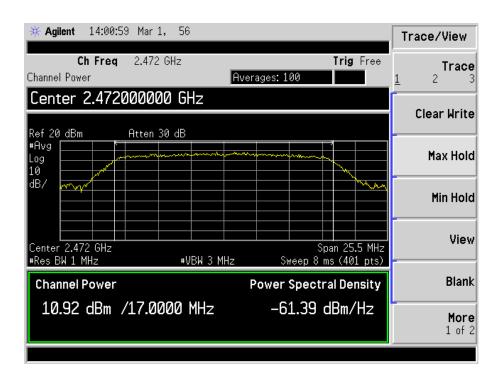




802.11g-Middle Channel

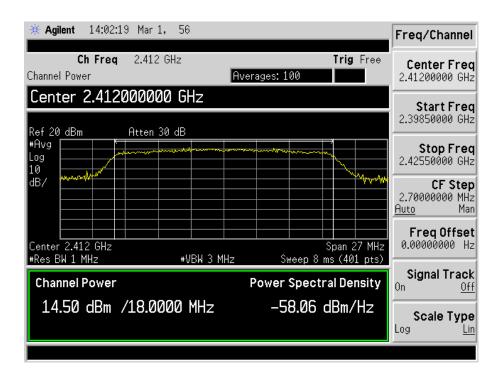


802.11g-High Channel

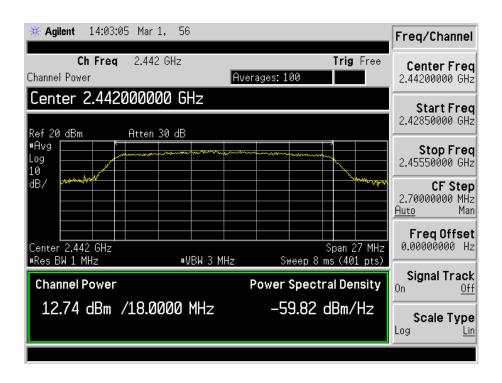




802.11n-HT20-Low Channel

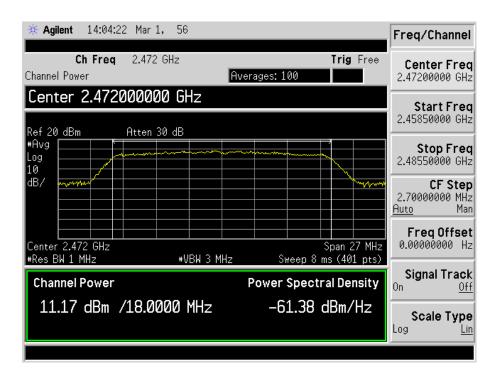


802.11n-HT20-Middle Channel

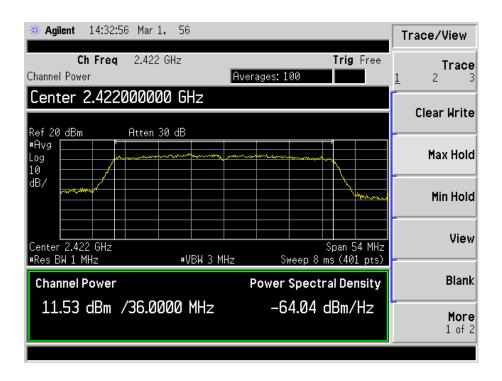




802.11n-HT20-High Channel

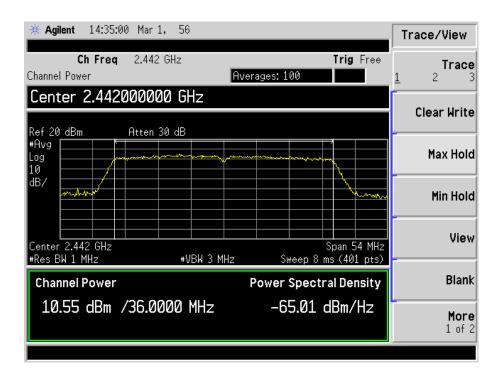


802.11n-HT40-Low Channel

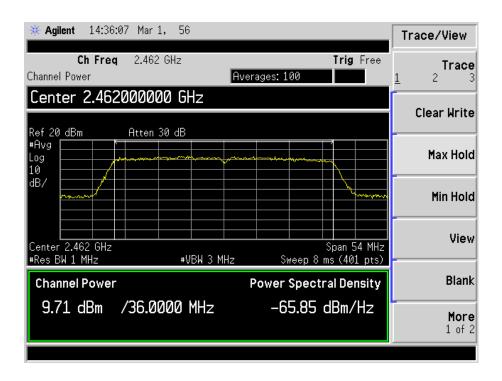




802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



6. Power Spectral Density

6.1 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.

6.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-28	2015-05-27
Attenuator	ATTEN	ATS100-4-20	/	2014-05-28	2015-05-27

6.3 Test Procedure

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

- et instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set VBW ≥ 3 x RBW.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \text{ x span/RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

6.4 Environmental Conditions

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

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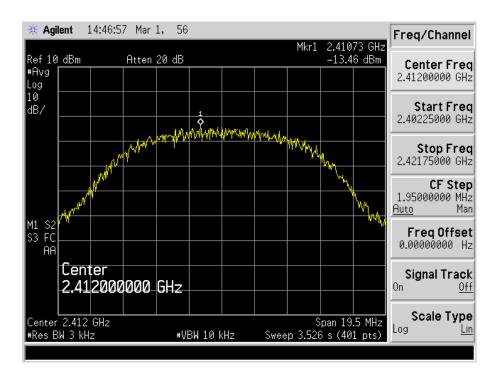
6.5 Summary of Test Results/Plots

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
	2412	-13.46	8
802.11b	2442	-14.85	8
	2472	-16.18	8
	2412	-19.97	8
802.11g	2442	-21.08	8
	2472	-22.64	8
	2412	-20.07	8
802.11n HT20	2442	-21.52	8
	2472	-22.90	8
	2422	-25.38	8
802.11n HT40	2442	-26.20	8
	2462	-27.38	8

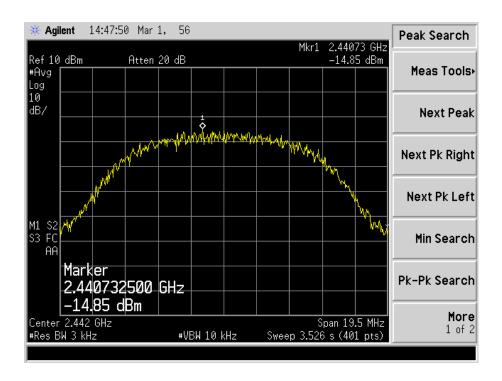
Please refer to the following test plots:



802.11b-Low Channel

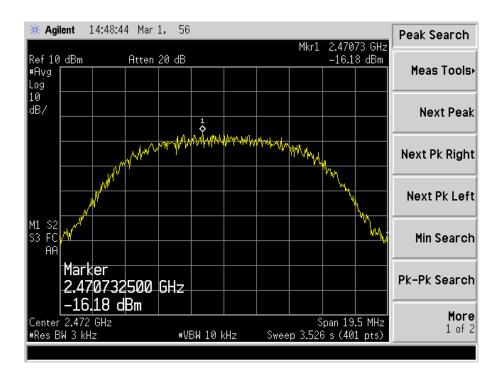


802.11b-Middle Channel

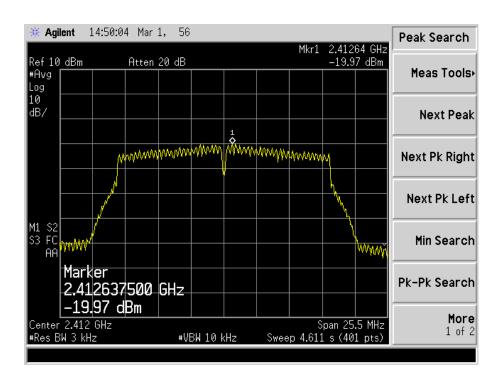




802.11b-High Channel

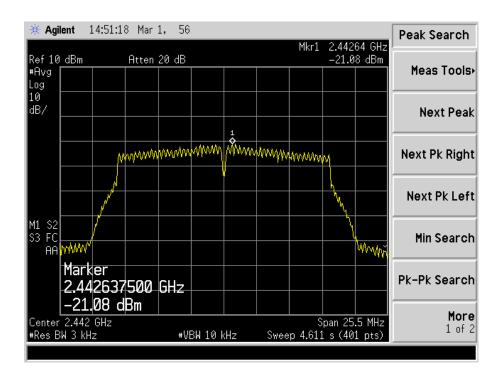


802.11g-Low Channel

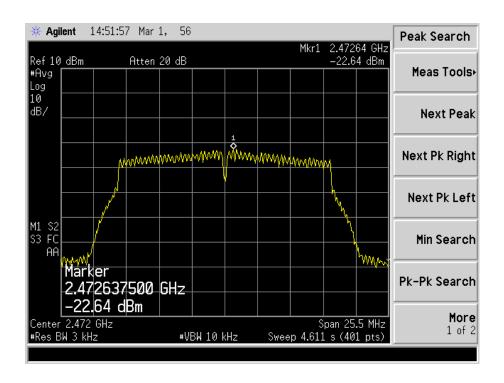




802.11g-Middle Channel

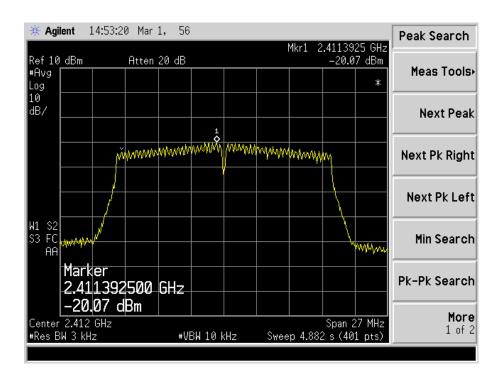


802.11g-High Channel

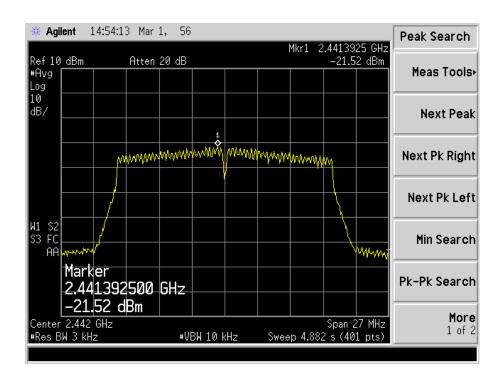




802.11n-HT20-Low Channel

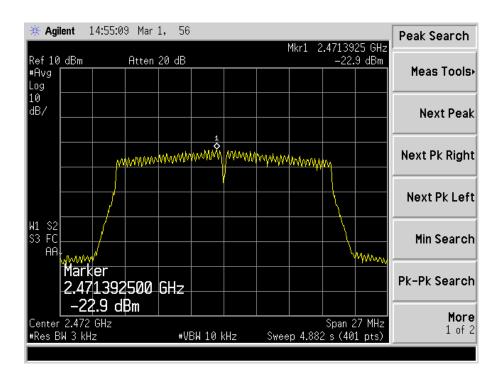


802.11n-HT20-Middle Channel

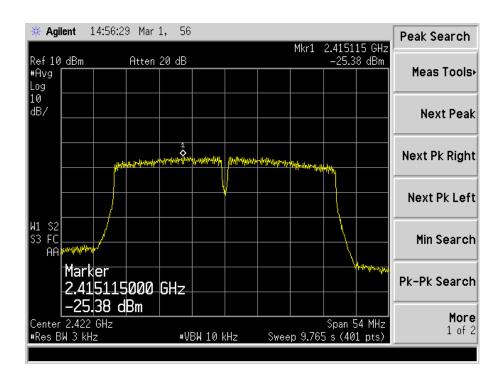




802.11n-HT20-High Channel

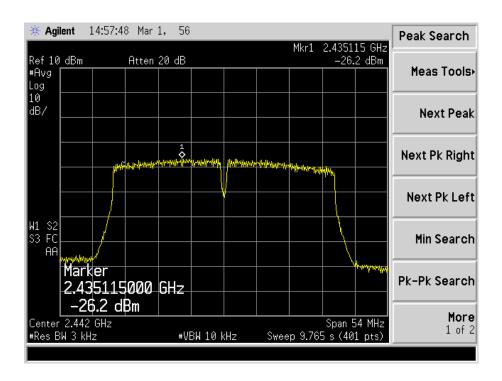


802.11n-HT40-Low Channel

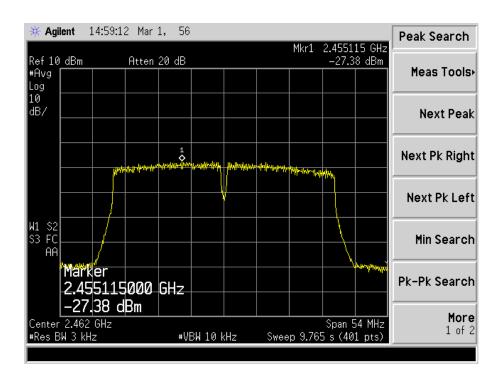




802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



7. 6dB Bandwidth

7.1 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.

7.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-28	2015-05-27
Attenuator	ATTEN	ATS100-4-20	/	2014-05-28	2015-05-27

7.3 Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 \times RBW.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.

7.4 Environmental Conditions

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

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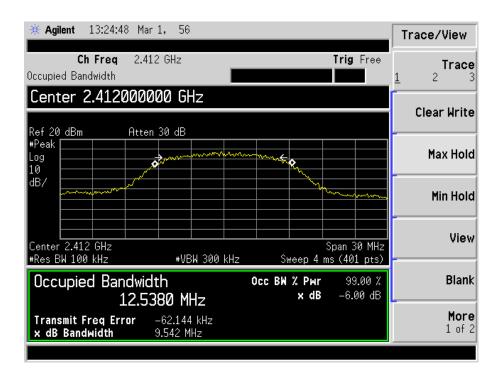
7.5 Summary of Test Results/Plots

Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz
	2412	9542	12538.0	500
802.11b	2442	9523	12451.2	500
	2472	9534	12380.0	500
	2412	16494	16374.8	500
802.11g	2442	16494	16373.6	500
	2472	16486	16368.6	500
	2412	17583	17529.3	500
802.11n-HT20	2442	17553	17533.7	500
	2472	17639	17538.3	500
	2422	36074	35810.7	500
802.11n-HT40	2442	36093	35828.3	500
	2462	36083	35854.3	500

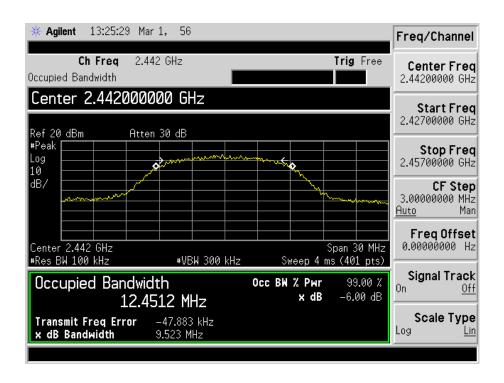
Please refer to the following test plots:



802.11b-Low Channel

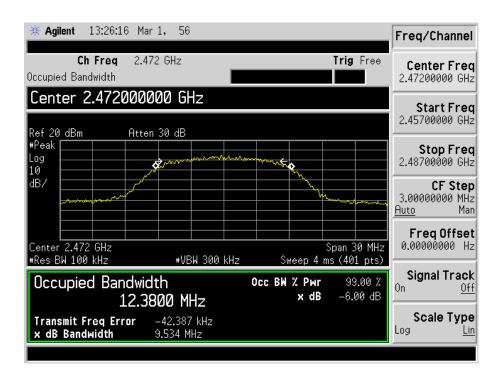


802.11b-Middle Channel

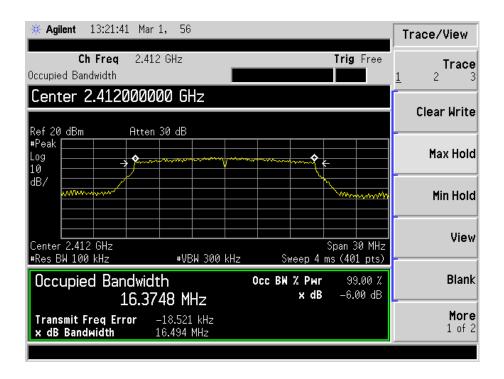




802.11b-High Channel

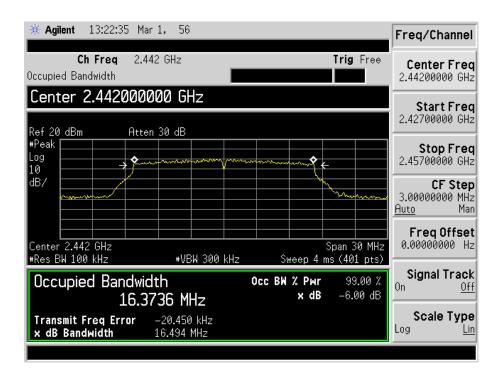


802.11g-Low Channel

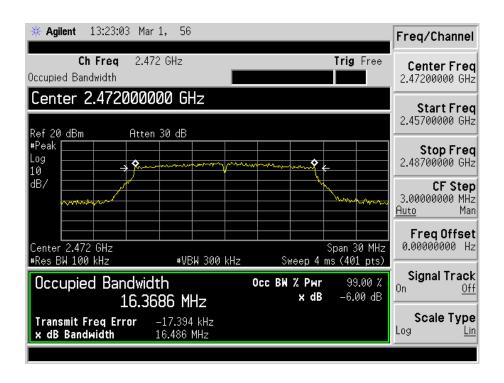




802.11g-Middle Channel

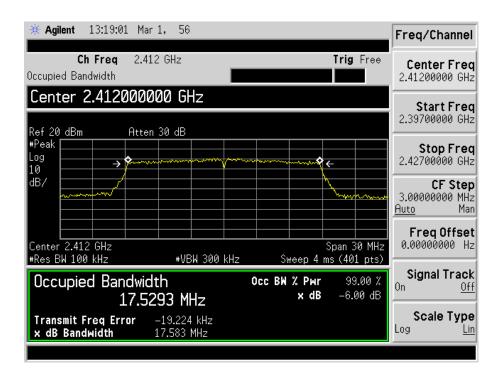


802.11g-High Channel

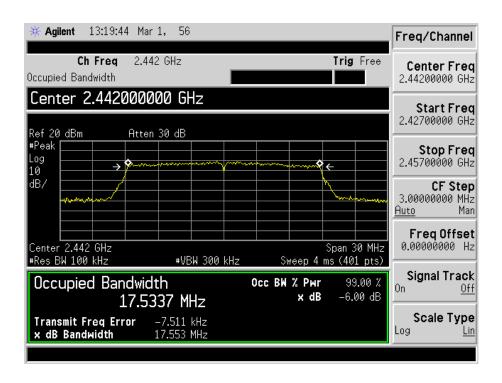




802.11n-HT20-Low Channel

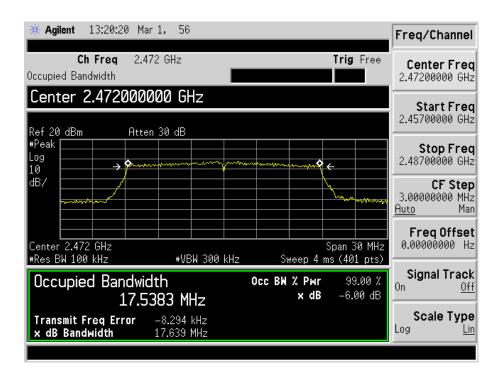


802.11n-HT20-Middle Channel

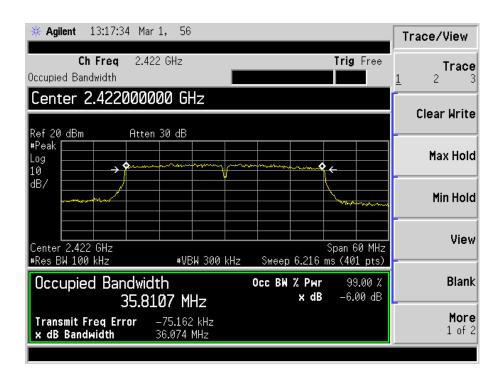




802.11n-HT20-High Channel

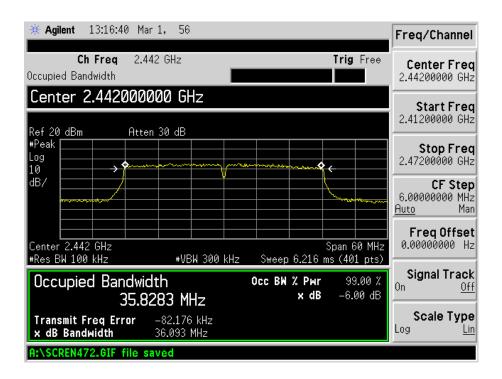


802.11n-HT40-Low Channel

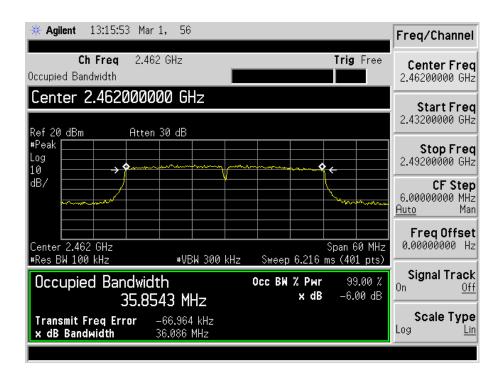




802.11n-HT40-Middle Channel



802.11n-HT40-High Channel





8. Field Strength of Spurious Emissions

8.1 Measurement Uncertainty

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

8.2 Standard Applicable

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

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

8.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	2015-05-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2014-05-24	2015-05-23
Horn Antenna	ETS	3117	00086197	2014-05-24	2015-05-23
Horn Antenna	ETS	3116B	00088203	2014-05-24	2015-05-23
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2014-05-24	2015-05-23

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8.4 Test Procedure

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

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



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

8.5 Corrected Amplitude & Margin Calculation

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

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss - Ampl. Gain

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

Margin = Corr. Ampl. – FCC Part 15 Limit

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8.6 Environmental Conditions

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

8.7 Summary of Test Results/Plots

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

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

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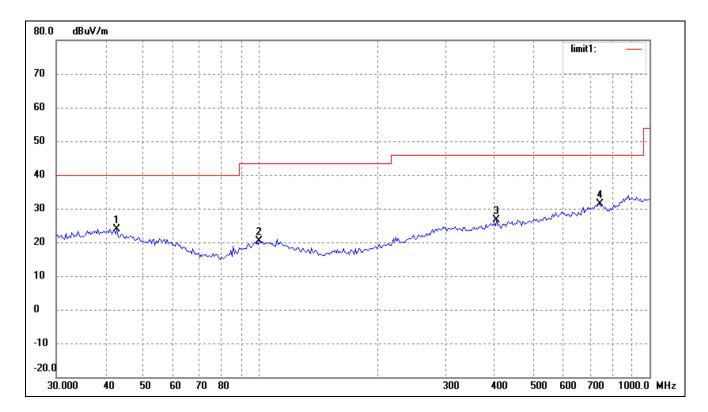


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Tablet
Tested Model: M66AYG-P

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

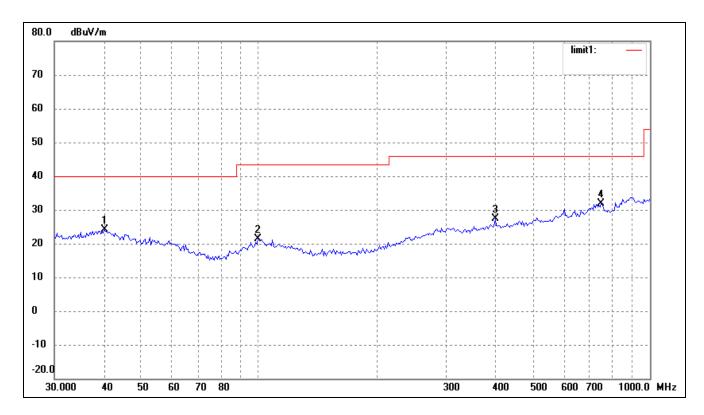
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	42.8998	15.54	8.38	23.92	40.00	-16.08	114	100	peak
2	99.5281	14.42	6.01	20.43	43.50	-23.07	270	100	peak
3	404.6665	16.56	9.96	26.52	46.00	-19.48	360	100	peak
4	744.8661	16.07	15.33	31.40	46.00	-14.60	116	100	peak





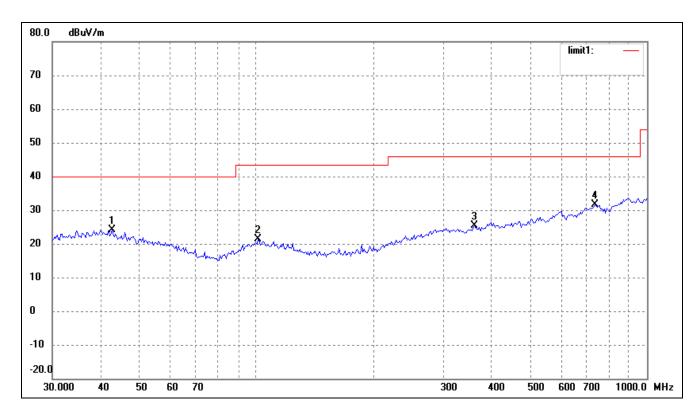


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	40.2757	14.85	9.17	24.02	40.00	-15.98	178	100	peak
2	99.5281	15.34	6.01	21.35	43.50	-22.15	224	100	peak
3	401.8385	17.34	10.06	27.40	46.00	-18.60	160	100	peak
4	750.1083	16.70	15.09	31.79	46.00	-14.21	290	100	peak



Operating Condition: 802.11b Transmitting Middle Channel-2442MHz

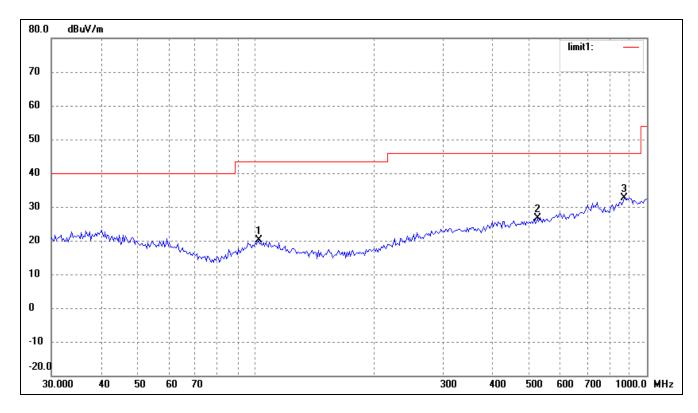
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	42.6000	15.76	8.47	24.23	40.00	-15.77	256	100	peak
2	100.9339	15.43	6.03	21.46	43.50	-22.04	360	100	peak
3	361.7139	16.18	9.24	25.42	46.00	-20.58	360	100	peak
4	734.4913	16.40	15.22	31.62	46.00	-14.38	360	100	peak





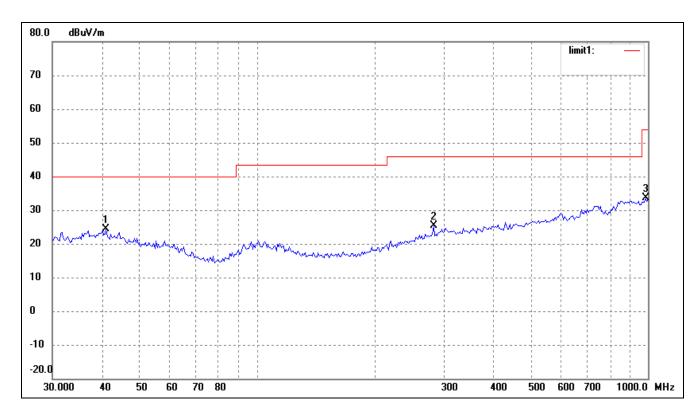


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	101.6443	14.15	5.95	20.10	43.50	-23.40	176	100	peak
2	524.5541	15.21	11.36	26.57	46.00	-19.43	255	100	peak
3	875.2470	16.03	16.70	32.73	46.00	-13.27	360	100	peak



Operating Condition: 802.11b Transmitting High Channel-2472MHz

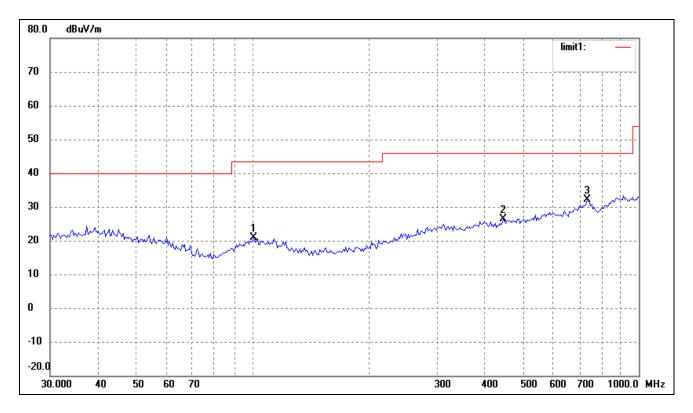
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	41.1320	15.58	8.91	24.49	40.00	-15.51	360	100	peak
2	282.9852	16.87	8.51	25.38	46.00	-20.62	225	100	peak
3	986.0717	16.79	16.90	33.69	54.00	-20.31	160	100	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	100.9340	14.78	6.03	20.81	43.50	-22.69	174	100	peak
2	446.4141	16.14	10.19	26.33	46.00	-19.67	160	100	peak
3	734.4913	16.85	15.22	32.07	46.00	-13.93	320	100	peak



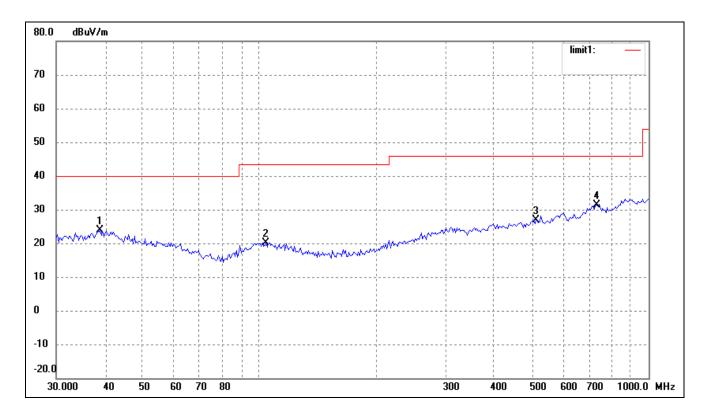


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

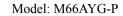
EUT: Tablet

Tested Model: M66AYG-P
Operating Condition: 802.11g Transmitting Low Channel-2412MHz

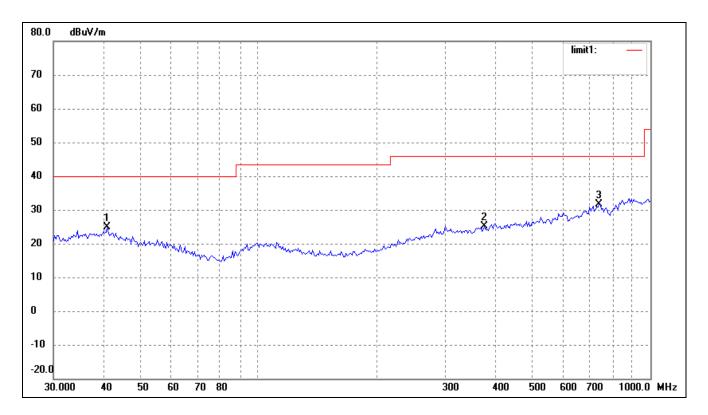
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	38.8879	14.75	9.06	23.81	40.00	-16.19	177	100	peak
2	103.8055	14.46	5.73	20.19	43.50	-23.31	90	100	peak
3	513.6331	15.58	11.21	26.79	46.00	-19.21	336	100	peak
4	734.4913	16.04	15.22	31.26	46.00	-14.74	360	100	peak





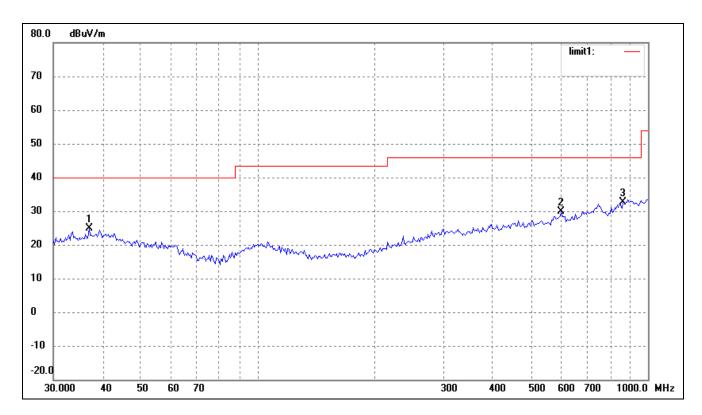


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	41.1320	15.91	8.91	24.82	40.00	-15.18	270	100	peak
2	377.2591	16.03	9.20	25.23	46.00	-20.77	164	100	peak
3	739.6605	16.06	15.53	31.59	46.00	-14.41	228	200	peak



Operating Condition: 802.11g Transmitting Middle Channel-2442MHz

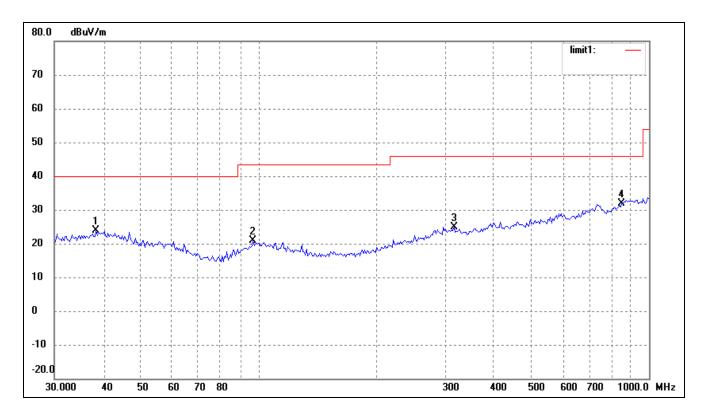
Comment: DC 3.7V



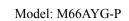
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.0249	16.07	8.74	24.81	40.00	-15.19	360	100	peak
2	599.3213	16.46	13.30	29.76	46.00	-16.24	255	100	peak
3	863.0562	16.29	16.38	32.67	46.00	-13.33	270	100	peak







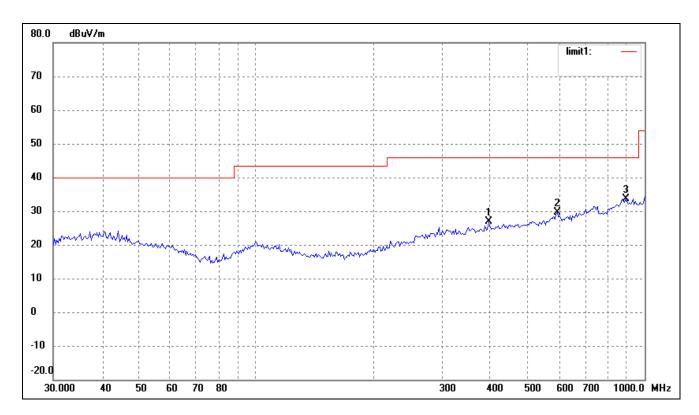
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	38.3462	14.80	8.97	23.77	40.00	-16.23	270	100	peak
2	96.7749	15.52	5.32	20.84	43.50	-22.66	51	200	peak
3	316.5890	15.66	9.28	24.94	46.00	-21.06	360	200	peak
4	851.0353	15.81	15.97	31.78	46.00	-14.22	360	100	peak



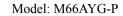


Operating Condition: 802.11g Transmitting High Channel-2472MHz

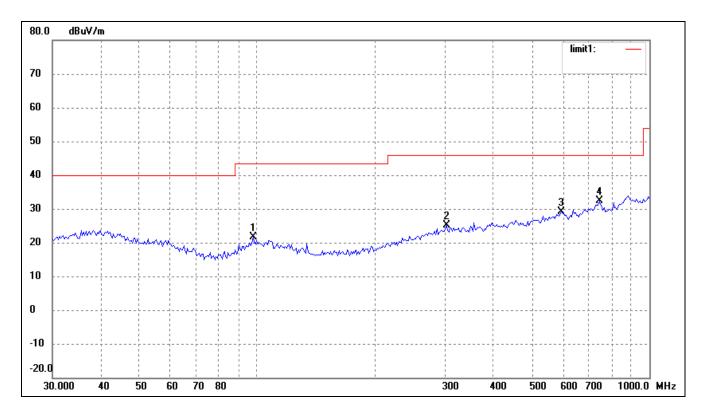
Comment: DC 3.7V



	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
ſ	1	396.2415	16.87	9.95	26.82	46.00	-19.18	360	100	peak
ſ	2	595.1329	16.45	13.14	29.59	46.00	-16.41	180	100	peak
	3	893.8567	16.88	16.85	33.73	46.00	-12.27	225	100	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	97.4560	16.14	5.49	21.63	43.50	-21.87	260	100	peak
2	303.5437	15.82	9.19	25.01	46.00	-20.99	131	200	peak
3	595.1329	15.93	13.14	29.07	46.00	-16.93	285	200	peak
4	744.8661	16.95	15.33	32.28	46.00	-13.72	224	100	peak



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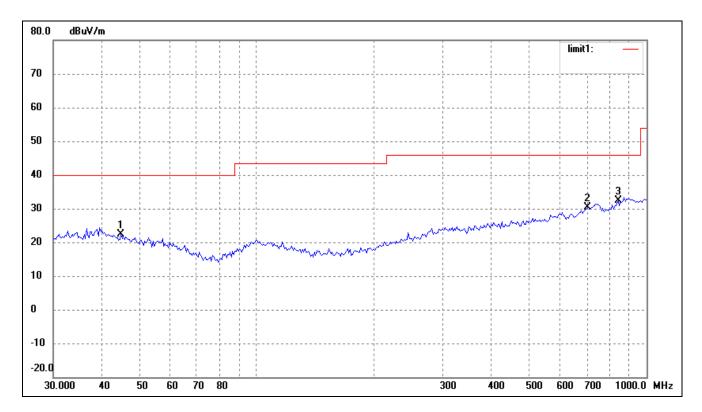


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Tablet
Tested Model: M66AYG-P

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

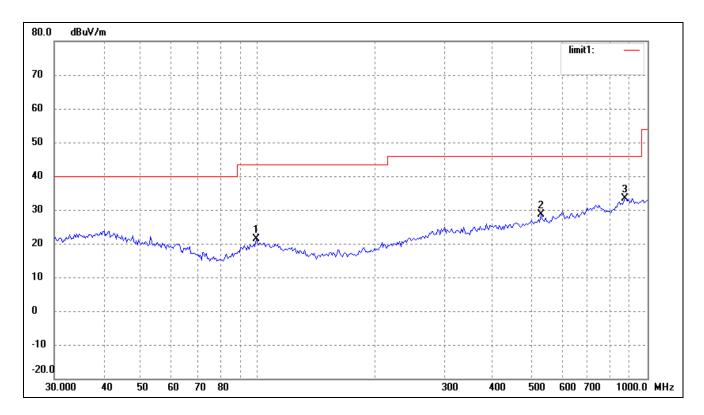
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	44.7434	14.58	7.84	22.42	40.00	-17.58	155	100	peak
2	704.2261	16.46	13.91	30.37	46.00	-15.63	197	100	peak
3	845.0878	16.51	15.75	32.26	46.00	-13.74	310	100	peak





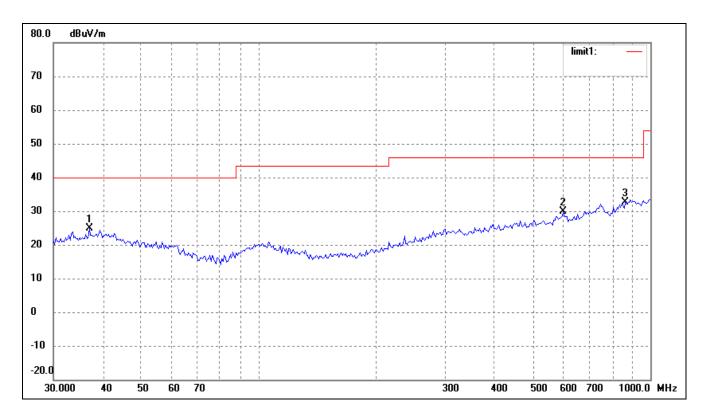


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	98.8326	15.53	5.84	21.37	43.50	-22.13	274	100	peak
2	531.9635	17.31	11.32	28.63	46.00	-17.37	116	100	peak
3	875.2470	16.71	16.70	33.41	46.00	-12.59	82	100	peak



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

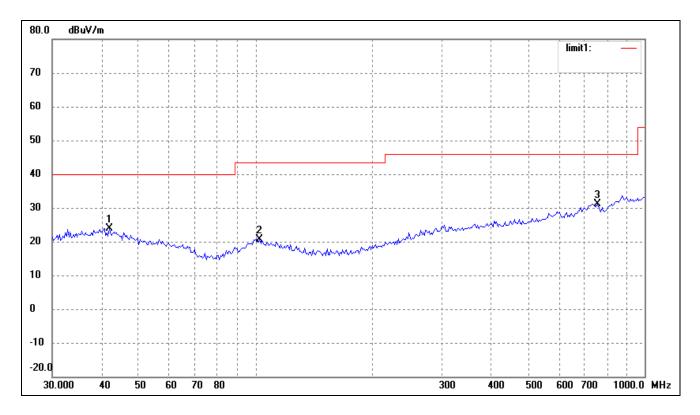
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.0249	16.07	8.74	24.81	40.00	-15.19	264	100	peak
2	599.3213	16.46	13.30	29.76	46.00	-16.24	110	100	peak
3	863.0562	16.29	16.38	32.67	46.00	-13.33	136	100	peak





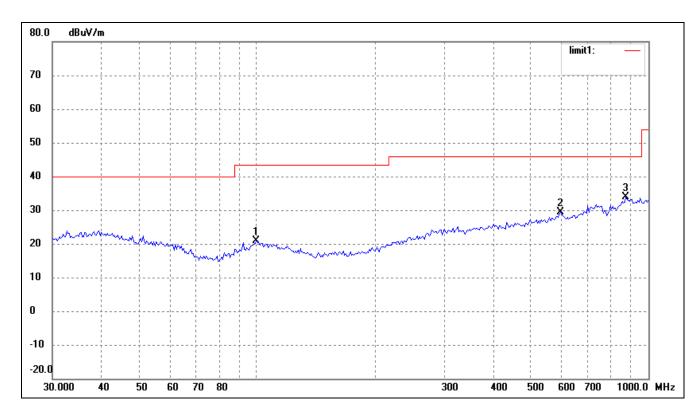


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	42.0066	15.29	8.65	23.94	40.00	-16.06	360	100	peak
2	102.3597	14.80	5.88	20.68	43.50	-22.82	112	100	peak
3	755.3873	16.28	14.86	31.14	46.00	-14.86	180	200	peak



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

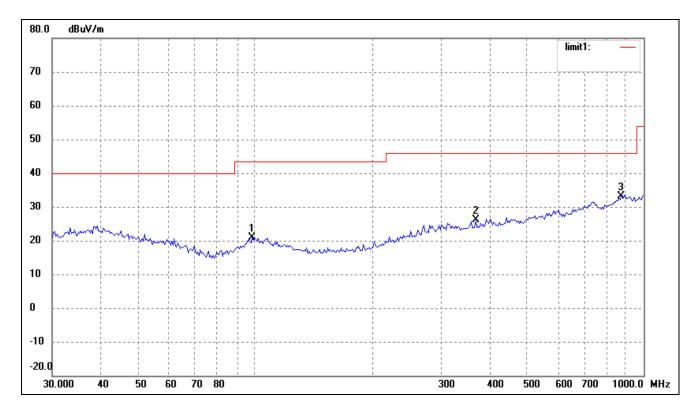
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	99.5281	14.85	6.01	20.86	43.50	-22.64	267	100	peak
2	595.1329	16.28	13.14	29.42	46.00	-16.58	116	100	peak
3	875.2470	17.12	16.70	33.82	46.00	-12.18	360	100	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	98.1419	15.19	5.67	20.86	43.50	-22.64	267	100	peak
2	369.4047	16.92	9.23	26.15	46.00	-19.85	114	200	peak
3	875.2470	16.54	16.70	33.24	46.00	-12.76	35	200	peak



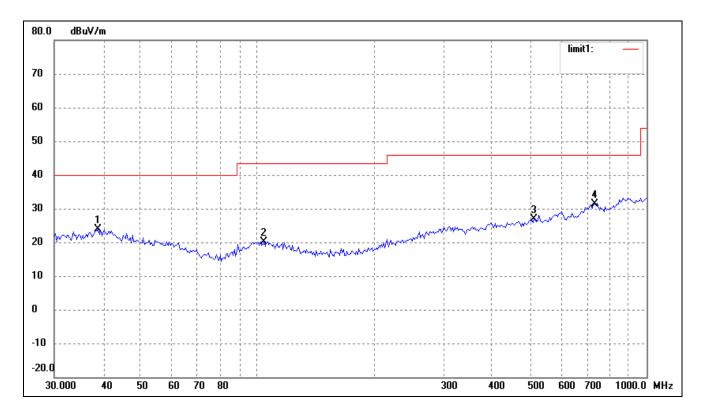


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Tablet
Tested Model: M66AYG-P

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

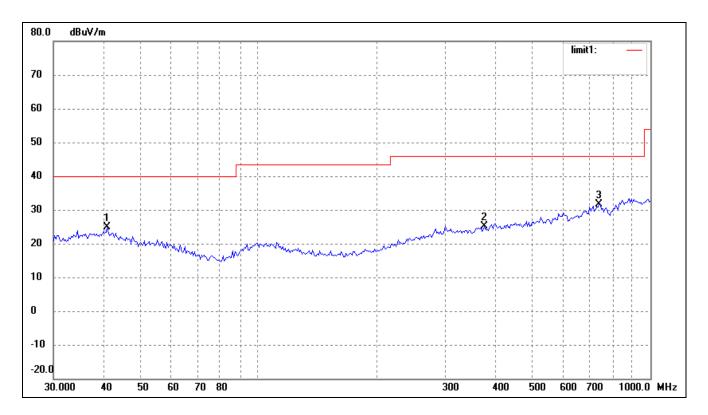
Comment: DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	38.8879	14.75	9.06	23.81	40.00	-16.19	177	100	peak
2	103.8055	14.46	5.73	20.19	43.50	-23.31	90	100	peak
3	513.6331	15.58	11.21	26.79	46.00	-19.21	336	100	peak
4	734.4913	16.04	15.22	31.26	46.00	-14.74	360	100	peak





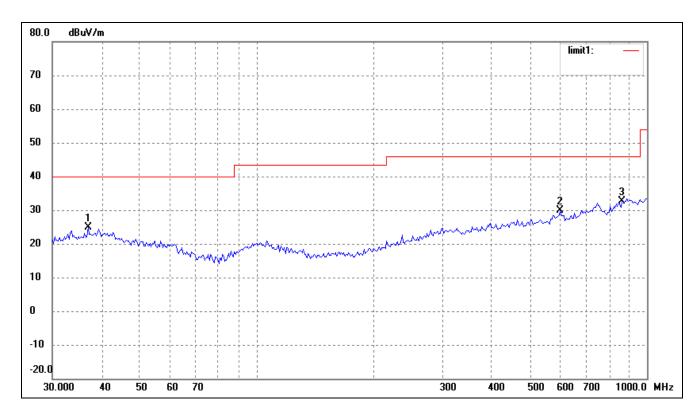


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	41.1320	15.91	8.91	24.82	40.00	-15.18	270	100	peak
2	377.2591	16.03	9.20	25.23	46.00	-20.77	164	100	peak
3	739.6605	16.06	15.53	31.59	46.00	-14.41	228	200	peak



Operating Condition: 802.11n-HT40 Transmitting Middle Channel-2442MHz

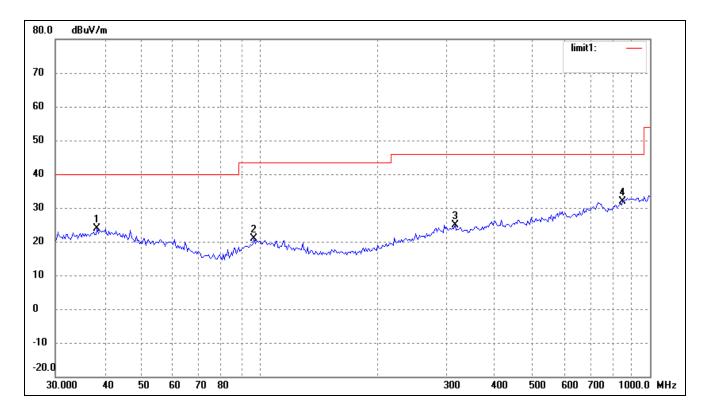
Comment: DC 3.7V



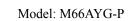
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.0249	16.07	8.74	24.81	40.00	-15.19	360	100	peak
2	599.3213	16.46	13.30	29.76	46.00	-16.24	255	100	peak
3	863.0562	16.29	16.38	32.67	46.00	-13.33	270	100	peak







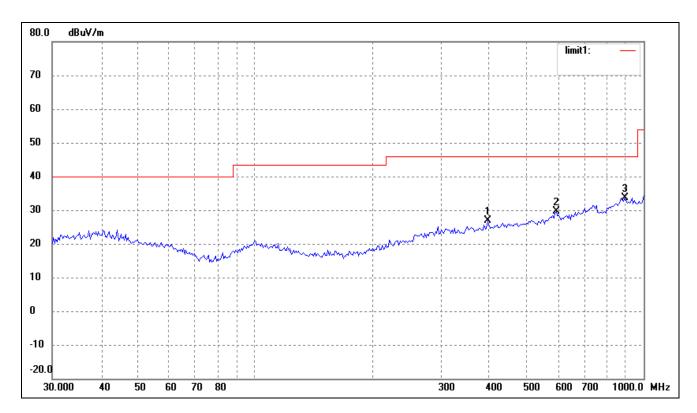
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	38.3462	14.80	8.97	23.77	40.00	-16.23	270	100	peak
2	96.7749	15.52	5.32	20.84	43.50	-22.66	51	200	peak
3	316.5890	15.66	9.28	24.94	46.00	-21.06	360	200	peak
4	851.0353	15.81	15.97	31.78	46.00	-14.22	360	100	peak





Operating Condition: 802.11n-HT40 Transmitting High Channel-2462MHz

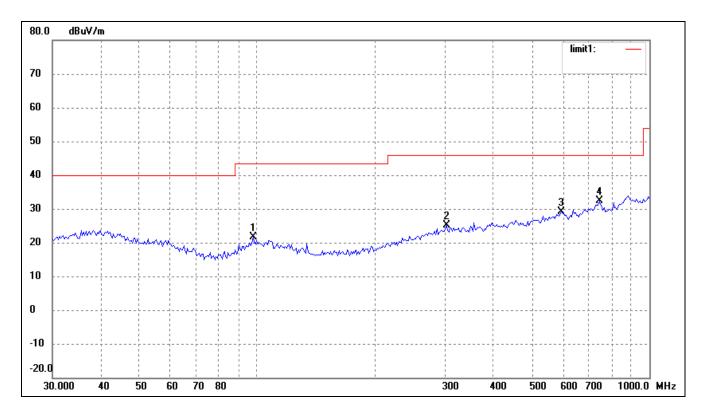
Comment: DC 3.7V



	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
Ī		(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
ſ	1	396.2415	16.87	9.95	26.82	46.00	-19.18	360	100	peak
ſ	2	595.1329	16.45	13.14	29.59	46.00	-16.41	180	100	peak
	3	893.8567	16.88	16.85	33.73	46.00	-12.27	225	100	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	97.4560	16.14	5.49	21.63	43.50	-21.87	260	100	peak
2	303.5437	15.82	9.19	25.01	46.00	-20.99	131	200	peak
3	595.1329	15.93	13.14	29.07	46.00	-16.93	285	200	peak
4	744.8661	16.95	15.33	32.28	46.00	-13.72	224	100	peak

Note: Margin= (Reading+ Correct)- Limit



Spurious Emissions Above 1GHz

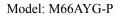
Test Mode: 802.11b

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	54.09	0.57	54.66	74.00	-19.34	Н	PK			
4824	38.84	0.57	39.41	54.00	-14.59	Н	AV			
7236	46.30	3.69	49.99	74.00	-24.01	Н	PK			
7236	34.98	3.69	38.67	54.00	-15.33	Н	AV			
4824	57.31	0.57	57.88	74.00	-16.12	V	PK			
4824	40.50	0.57	41.07	54.00	-12.93	V	AV			
7236	49.11	3.69	52.80	74.00	-21.20	V	PK			
7236	37.44	3.69	41.13	54.00	-12.87	V	AV			
	Middle Channel-2442MHz									
4884	54.74	0.66	55.40	74.00	-18.60	Н	PK			
4884	39.99	0.66	40.65	54.00	-13.35	Н	AV			
7326	47.77	3.76	51.53	74.00	-22.47	Н	PK			
7326	33.10	3.76	36.86	54.00	-17.14	Н	AV			
4884	53.97	0.66	54.63	74.00	-19.37	V	PK			
4884	40.89	0.66	41.55	54.00	-12.45	V	AV			
7326	47.98	3.76	51.74	74.00	-22.26	V	PK			
7326	34.08	3.76	37.84	54.00	-16.16	V	AV			
			High Chann	el-2472MHz						
4944	55.82	0.74	56.56	74.00	-17.44	Н	PK			
4944	41.76	0.74	42.50	54.00	-11.50	Н	AV			
7416	46.38	3.83	50.21	74.00	-23.79	Н	PK			
7416	34.83	3.83	38.66	54.00	-15.34	Н	AV			
4944	54.94	0.74	55.68	74.00	-18.32	V	PK			
4944	42.04	0.74	42.78	54.00	-11.22	V	AV			
7416	47.99	3.83	51.82	74.00	-22.18	V	PK			
7416	35.18	3.83	39.01	54.00	-14.99	V	AV			



Test Mode: 802.11g

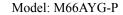
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector			
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V				
			Low Chann	el-2412MHz						
4824	55.50	0.57	56.07	74.00	-17.93	Н	PK			
4824	42.23	0.57	42.80	54.00	-11.20	Н	AV			
7236	48.42	3.69	52.11	74.00	-21.89	Н	PK			
7236	34.40	3.69	38.09	54.00	-15.91	Н	AV			
4824	55.99	0.57	56.56	74.00	-17.44	V	PK			
4824	42.65	0.57	43.22	54.00	-10.78	V	AV			
7236	49.22	3.69	52.91	74.00	-21.09	V	PK			
7236	35.54	3.69	39.23	54.00	-14.77	V	AV			
	Middle Channel-2442MHz									
4884	55.10	0.66	55.76	74.00	-18.24	Н	PK			
4884	43.28	0.66	43.94	54.00	-10.06	Н	AV			
7326	47.38	3.76	51.14	74.00	-22.86	Н	PK			
7326	35.27	3.76	39.03	54.00	-14.97	Н	AV			
4884	57.07	0.66	57.73	74.00	-16.27	V	PK			
4884	43.86	0.66	44.52	54.00	-9.48	V	AV			
7326	48.40	3.76	52.16	74.00	-21.84	V	PK			
7326	35.33	3.76	39.09	54.00	-14.91	V	AV			
			High Chann	el-2472MHz						
4944	54.00	0.74	54.74	74.00	-19.26	Н	PK			
4944	40.75	0.74	41.49	54.00	-12.51	Н	AV			
7416	47.18	3.83	51.01	74.00	-22.99	Н	PK			
7416	34.73	3.83	38.56	54.00	-15.44	Н	AV			
4944	56.11	0.74	56.85	74.00	-17.15	V	PK			
4944	42.69	0.74	43.43	54.00	-10.57	V	AV			
7416	48.58	3.83	52.41	74.00	-21.59	V	PK			
7416	35.95	3.83	39.78	54.00	-14.22	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	55.60	0.57	56.17	74.00	-17.83	Н	PK			
4824	40.54	0.57	41.11	54.00	-12.89	Н	AV			
7236	47.26	3.69	50.95	74.00	-23.05	Н	PK			
7236	34.44	3.69	38.13	54.00	-15.87	Н	AV			
4824	56.71	0.57	57.28	74.00	-16.72	V	PK			
4824	43.18	0.57	43.75	54.00	-10.25	V	AV			
7236	49.21	3.69	52.90	74.00	-21.10	V	PK			
7236	35.77	3.69	39.46	54.00	-14.54	V	AV			
Middle Channel-2442MHz										
4884	54.16	0.66	54.82	74.00	-19.18	Н	PK			
4884	42.48	0.66	43.14	54.00	-10.86	Н	AV			
7326	48.74	3.76	52.50	74.00	-21.50	Н	PK			
7326	33.10	3.76	36.86	54.00	-17.14	Н	AV			
4884	54.92	0.66	55.58	74.00	-18.42	V	PK			
4884	42.62	0.66	43.28	54.00	-10.72	V	AV			
7326	48.49	3.76	52.25	74.00	-21.75	V	PK			
7326	35.20	3.76	38.96	54.00	-15.04	V	AV			
			High Chann	el-2472MHz						
4944	53.90	0.74	54.64	74.00	-19.36	Н	PK			
4944	43.23	0.74	43.97	54.00	-10.03	Н	AV			
7416	48.31	3.83	52.14	74.00	-21.86	Н	PK			
7416	36.10	3.83	39.93	54.00	-14.07	Н	AV			
4944	55.70	0.74	56.44	74.00	-17.56	V	PK			
4944	41.48	0.74	42.22	54.00	-11.78	V	AV			
7416	48.55	3.83	52.38	74.00	-21.62	V	PK			
7416	35.36	3.83	39.19	54.00	-14.81	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	53.25	0.60	53.85	74.00	-20.15	Н	PK				
4844	38.25	0.60	38.85	54.00	-15.15	Н	AV				
7266	46.48	3.72	50.20	74.00	-23.80	Н	PK				
7266	32.56	3.72	36.28	54.00	-17.72	Н	AV				
4844	54.22	0.60	54.82	74.00	-19.18	V	PK				
4844	39.42	0.60	40.02	54.00	-13.98	V	AV				
7266	48.81	3.72	52.53	74.00	-21.47	V	PK				
7266	34.78	3.72	38.50	54.00	-15.50	V	AV				
	Middle Channel-2442MHz										
4884	52.53	0.66	53.19	74.00	-20.81	Н	PK				
4884	37.88	0.66	38.54	54.00	-15.46	Н	AV				
7326	44.88	3.76	48.64	74.00	-25.36	Н	PK				
7326	32.03	3.76	35.79	54.00	-18.21	Н	AV				
4884	53.74	0.66	54.40	74.00	-19.60	V	PK				
4884	39.95	0.66	40.61	54.00	-13.39	V	AV				
7326	45.78	3.76	49.54	74.00	-24.46	V	PK				
7326	34.00	3.76	37.76	54.00	-16.24	V	AV				
			High Chann	el-2462MHz							
4924	52.65	0.72	53.37	74.00	-20.63	Н	PK				
4924	39.37	0.72	40.09	54.00	-13.91	Н	AV				
7386	45.63	3.81	49.44	74.00	-24.56	Н	PK				
7386	30.73	3.81	34.54	54.00	-19.46	Н	AV				
4924	54.84	0.72	55.56	74.00	-18.44	V	PK				
4924	40.83	0.72	41.55	54.00	-12.45	V	AV				
7386	48.18	3.81	51.99	74.00	-22.01	V	PK				
7386	35.12	3.81	38.93	54.00	-15.07	V	AV				

Note: Margin= (Reading+ Correct)- Limit

Testing is carried out with frequency rang 9kHz to the 25GHz, 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, so the data is not display.



9. Out of Band Emissions

9.1 Standard Applicable

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

9.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	2015-05-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2014-05-24	2015-05-23
Horn Antenna	ETS	3117	00086197	2014-05-24	2015-05-23

9.3 Test Procedure

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

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

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

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

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

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

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

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

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

9.4 Environmental Conditions

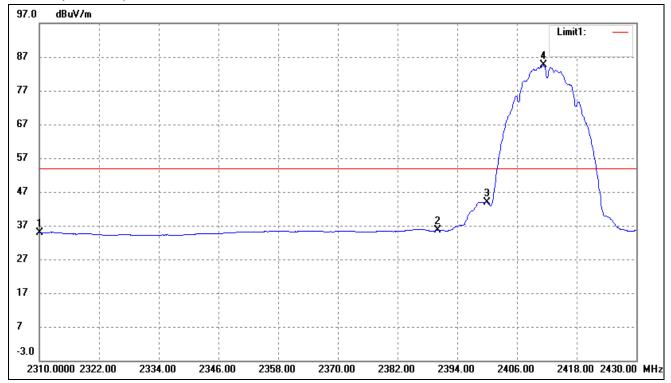
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.5 Summary of Test Results/Plots

Please refer to the test plots as below.



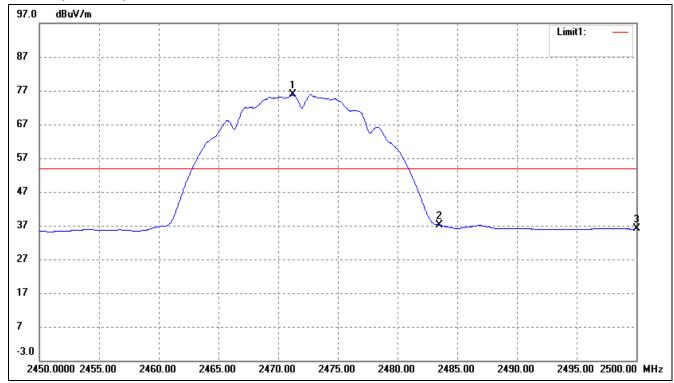
802.11b-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	18.59	16.34	34.93	54.00	-19.07	Average Detector
	2310.000	31.16	16.34	47.50	74.00	-26.50	Peak Detector
2	2390.000	18.55	17.03	35.58	54.00	-18.42	Average Detector
	2390.000	30.92	17.03	47.95	74.00	-26.05	Peak Detector
3	2400.000	26.76	17.11	43.87	Delta=40.64dBc		Average Detector
	2411.280	67.32	17.19	84.51			Peak Detector



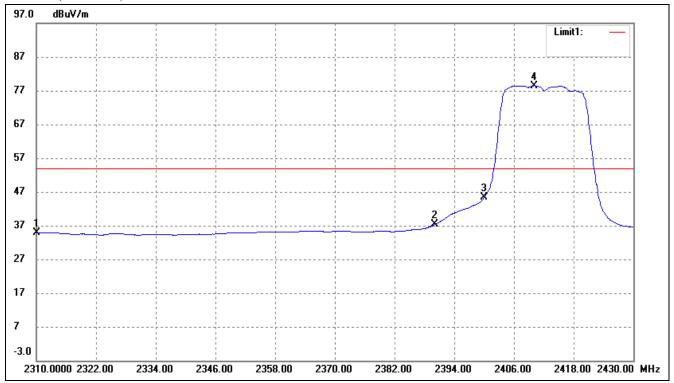
802.11b-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2471.200	58.14	17.65	75.79	/	/	Average Detector
	2471.200	67.23	17.65	84.88	/	/	Peak Detector
2	2483.500	Delta = 4	5 50dDa	30.20	54.00	-23.80	Average Detector
	2483.500	Della – 4	3.39UDC	39.29	74.00	-34.71	Peak Detector
3	2500.000	18.16	17.86	36.02	54.00	-17.98	Average Detector
	2500.000	30.95	17.86	48.81	74.00	-25.19	Peak Detector



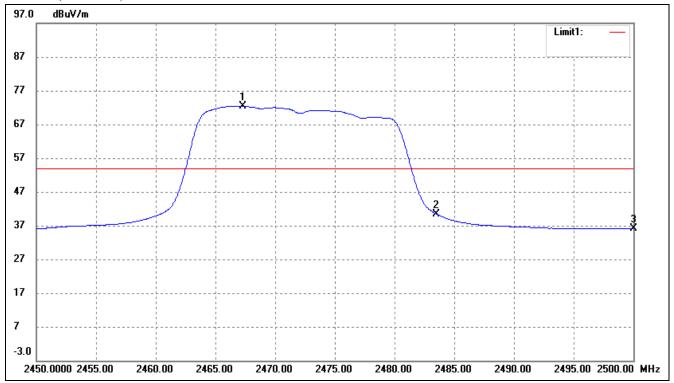
802.11g-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	18.52	16.34	34.86	54.00	-19.14	Average Detector
	2310.000	30.35	16.34	46.69	74.00	-27.31	Peak Detector
2	2390.000	20.24	17.03	37.27	54.00	-16.73	Average Detector
	2390.000	35.23	17.03	52.26	74.00	-21.74	Peak Detector
3	2400.000	28.24	17.11	45.35	Delta=33.15dBc		Average Detector
	2410.080	61.31	17.19	78.50			Peak Detector

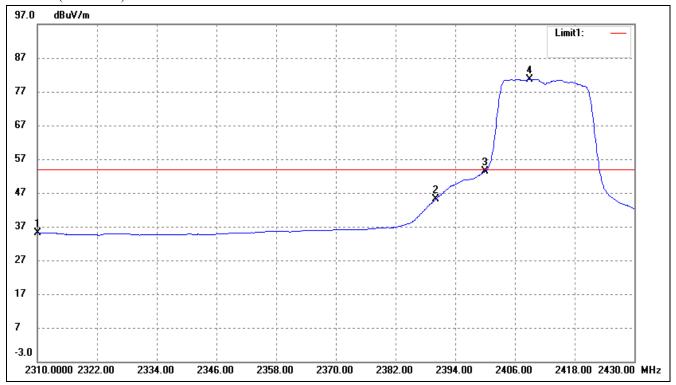


802.11g-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
2	2467.300	54.80	17.60	72.40	/	/	Average Detector
	2467.300	67.46	17.60	85.06	/	/	Peak Detector
1	2483.500	Delta = 4	4 40 dD a	27.92	54.00	-26.08	Average Detector
	2483.500	Della – 4	4.48UDC	40.58	74.00	-33.42	Peak Detector
3	2500.000	18.19	17.86	36.05	54.00	-17.95	Average Detector
	2500.000	43.83	-3.28	40.55	74.00	-33.45	Peak Detector

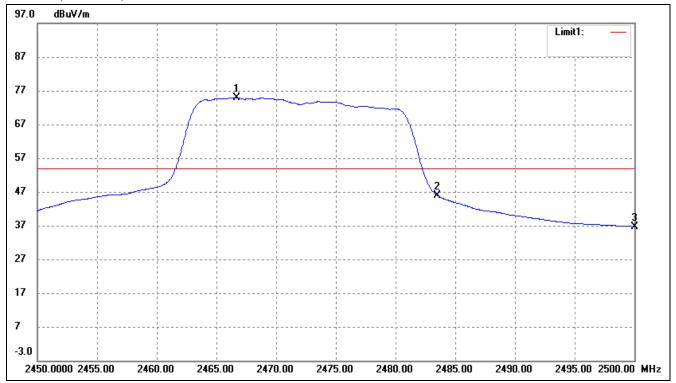
802.11n-HT20-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	18.67	16.34	35.01	54.00	-18.99	Average Detector
	2310.000	30.12	16.34	46.46	74.00	-27.54	Peak Detector
2	2390.000	28.06	17.03	45.09	54.00	-8.91	Average Detector
	2390.000	51.71	17.03	68.74	74.00	-5.26	Peak Detector
3	2400.000	36.32	17.11	53.43	Delta=27.31dBc		Average Detector
	2408.880	63.57	17.17	80.74			Peak Detector

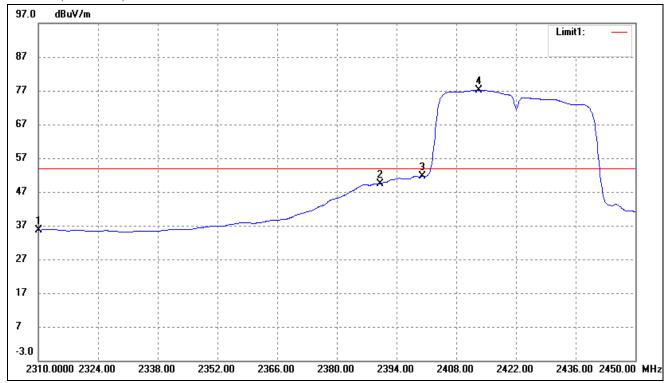


802.11n-HT20-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2466.700	57.32	17.60	74.92	/	/	Average Detector
	2466.250	68.36	17.60	85.96	/	/	Peak Detector
2	2483.500	Dolto - 4	Delta = 45.09dBc		54.00	-24.17	Average Detector
	2483.500	Della – 4	3.09 ubc	40.87	74.00	-33.13	Peak Detector
3	2500.000	18.81	17.86	36.67	54.00	-17.33	Average Detector
	2500.000	30.86	17.86	48.72	74.00	-25.28	Peak Detector

802.11n-HT40-Lowest Bandedge

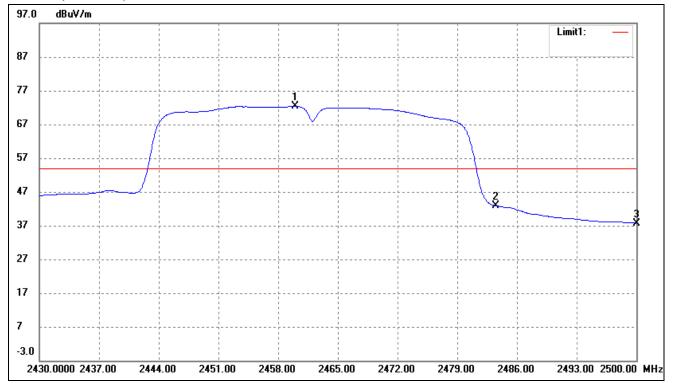


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	19.39	16.34	35.73	54.00	-18.27	Average Detector
	2310.000	31.78	16.34	48.12	74.00	-25.88	Peak Detector
2	2390.000	32.35	17.03	49.38	54.00	-4.62	Average Detector
	2390.000	47.86	17.03	64.89	74.00	-9.11	Peak Detector
3	2400.000	34.47	17.11	51.58	Delta=25.55dBc		Average Detector
	2413.320	59.92	17.21	77.13			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	2460.030	54.79	17.56	72.35	/	/	Average Detector
	2459.610	65.70	17.55	83.25	/	/	Peak Detector
2	2483.500	Delta = 46.21dBc		26.14	54.00	-27.86	Average Detector
	2483.500			37.04	74.00	-36.96	Peak Detector
3	2500.000	19.80	17.86	37.66	54.00	-16.34	Average Detector
	2500.000	33.96	17.86	51.82	74.00	-22.18	Peak Detector



10. Conducted Emissions

10.1 Measurement Uncertainty

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

10.2 Test Equipment List and Details

Description Manufacturer		Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2014-05-28	2015-05-27
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2014-05-28	2015-05-27
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2014-05-28	2015-05-27

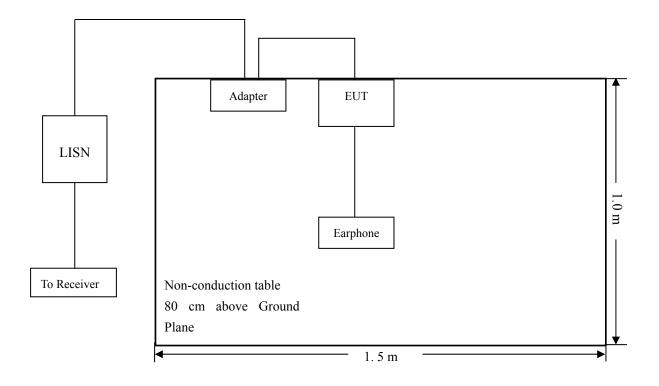
10.3 Test Procedure

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

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

Note: Base on the calibrated result, for the impedance characteristic and insertion loss, the effect shall be ignored from the placed multiple outlet power strip between the device and LISN.

10.4 Basic Test Setup Block Diagram



10.5 Environmental Conditions

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

10.6 Test Receiver Setup

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

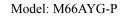
Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

10.7 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:

-5.49 dB at 0.1500 MHz in the Neutral, Peak detector, 0.15-30MHz

10.8 Conducted Emissions Test Data





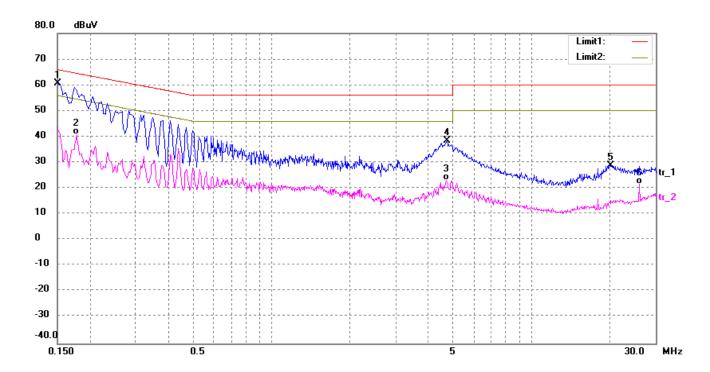
Plot of Conducted Emissions Test Data

EUT: Tablet
Tested Model: M66AYG-P

Operating Conditation: AC 120V/60Hz; Adapter DC 5V/2A

Comment: BT Transmitting

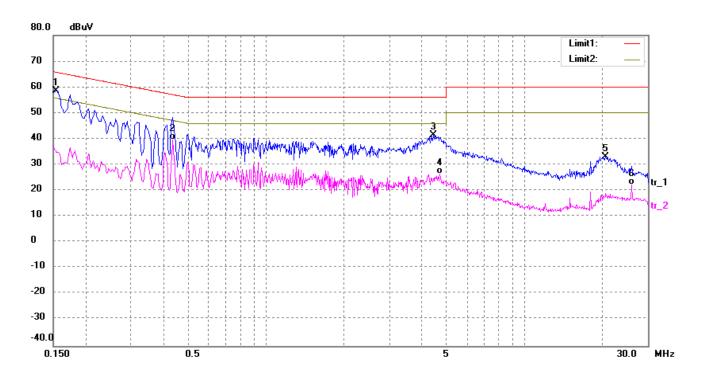
Test Specification: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.1500	51.01	9.50	60.51	66.00	-5.49	peak
2	0.1780	31.47	9.50	40.97	54.58	-13.61	AVG
3	4.7100	13.27	10.00	23.27	46.00	-22.73	AVG
4	4.7260	28.45	10.00	38.45	56.00	-17.55	peak
5	20.2420	16.99	12.00	28.99	60.00	-31.01	peak
6	25.9980	8.60	13.00	21.60	50.00	-28.40	AVG



Test Specification: Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.1540	49.04	9.50	58.54	65.78	-7.24	peak
2	0.4340	30.26	9.50	39.76	47.18	-7.42	AVG
3	4.4380	31.45	10.00	41.45	56.00	-14.55	peak
4	4.7060	16.47	10.00	26.47	46.00	-19.53	AVG
5	20.5700	21.01	12.00	33.01	60.00	-26.99	peak
6	26.0020	9.29	13.00	22.29	50.00	-27.71	AVG

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