



**FCC 47 CFR PART 15 SUBPART C AND ANSI C63.4:2003
TEST REPORT**

For

Battery Charger with FLO TV™

Model : FLTVUX

Trade Name : mStation

Issued for

mStation Corporation

**2850 Red Hill Ave Ste 128, Santa Ana, California,
United States, 92705**

Issued by

Compliance Certification Services Inc.

Hsinchu Lab.

**NO. 989-1 Wen Shan Rd., Shang Shan Village,
Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C**

TEL: +886-3-5921698

FAX: +886-3-5921108

<http://www.ccsrf.com>

E-Mail : service@ccsrf.com



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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	09/03/2010	Initial Issue	All Page 66	Kate Shi



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1. TEST REPORT CERTIFICATION

Applicant : mStation Corporation
Address : 2850 Red Hill Ave Ste 128, Santa Ana, California,
 United States, 92705
Equipment Under Test : Battery Charger with FLO TV™
Model : FLTVUX
Trade Name : mStation
Tested Date : August 13 ~ September 03, 2010

APPLICABLE STANDARD	
Standard	Test Result
FCC Part 15 Subpart C AND ANSI C63.4:2003	PASS

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Reviewed by:

Alex Chiu
Director

Gundam Lin
Team Leader



2. EUT DESCRIPTION

2.1 DESCRIPTION OF EUT & POWER

Product Name	Battery Charger with FLO TV™
Model Number	FLTVUX
Received Date	August 13, 2010
Frequency Range	IEEE 802.11b/g : 2412MHz~2462MHz
Transmit Power	IEEE 802.11b : 10.98dBm (0.0125W) IEEE 802.11g : 11.26dBm (0.0134W)
Channel Spacing	IEEE 802.11b/g : 5MHz
Channel Number	IEEE 802.11b/g : 11 Channels
Transmit Data Rate	IEEE 802.11b : 11, 5.5, 2, 1 Mbps IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Type of Modulation	IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g : OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Type	PCB PIFA Antenna, Antenna Gain 4.4 dBi
Power Source	Normal Mode: 3.7VDC(Battery Powered) Charging Mode: 5.0VDC (From Notebook PC, Powered From Host Device)
I/O Port	Micro USB port x 1, USB port x 1

PRemark :

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. For more details, please refer to the User's manual of the EUT.
3. This submittal(s) (test report) is intended for FCC ID: X5T-FLTV filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.



3. DESCRIPTION OF TEST MODES

The EUT(FLTVUX) had been tested under operating condition.

There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

- (1) IEEE 802.11b mode : 1Mbps data rate (worst case) were chosen for full testing.
- (2) IEEE 802.11g mode : 6Mbps data rate (worst case) were chosen for full testing.
- (3) The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2003 and FCC CFR 47, 15.207, 15.209 and 15.247.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

NO. 989-1 Wen Shan Rd., Shang Shan Village,
Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C

The sites are constructed in conformance with the requirements of ANSI C63.4:2003 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.



5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Taiwan BSMI
USA FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Open Area Test Site (OATS No.3) / Radiated Emission, 30 to 200 MHz	+/- 3.9267
Open Area Test Site (OATS No.3) / Radiated Emission, 200 to 1000 MHz	+/- 3.6899
Semi Anechoic Chamber (966 Chamber) / Radiated Emission, 30 to 200 MHz	+/- 3.6878
Semi Anechoic Chamber (966 Chamber) / Radiated Emission, 200 to 1000 MHz	+/- 3.0885
Semi Anechoic Chamber (966 Chamber) / Radiated Emission, 1 to 26.5GHz	+/- 3.2000
Conducted Emission, 9kHz to 30MHz	+/- 1.7468

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.



6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	Notebook PC	Lenovo ideaPad	S10e_4068-RZ1	L3CEV2D	HFS-FL
2	Notebook PC	DELL	Latitude D610	CN-0XD762-48643-6 37-1743	E2K24BNHM
3	Test transmitter	R&S	SFE100	---	---
4	iphone	---	---	---	---

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

RF Mode

1. Set up all computers like the setup diagram.

(1) TX Mode:

- ⇒ Tx Data Rate: 1Mbps Bandwidth 20 (IEEE 802.11b mode)
6Mbps Bandwidth 20 (IEEE 802.11g mode)

⇒ Select channel:

- IEEE 802.11b Channel Low (2412MHz)
- IEEE 802.11b Channel Mid (2437MHz)
- IEEE 802.11b Channel High (2462MHz)
- IEEE 802.11g Channel Low (2412MHz)
- IEEE 802.11g Channel Mid (2437MHz)
- IEEE 802.11g Channel High (2462MHz)

2. All of the function are under run.

3. Start test.

Normal Mode

1. Setup whole system for test as shown on diagram.

2. Power on all equipments.

3. (1) Build up a connection between EUT and test transmitter (play video).

(2) Charge mode.

4. All of the functions are under run.

5. Start test.



7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMITS

§ 15.247(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	AGILENT	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	AGILENT	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output was connected to a spectrum analyzer. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.



TEST RESULTS

IEEE 802.11b Mode

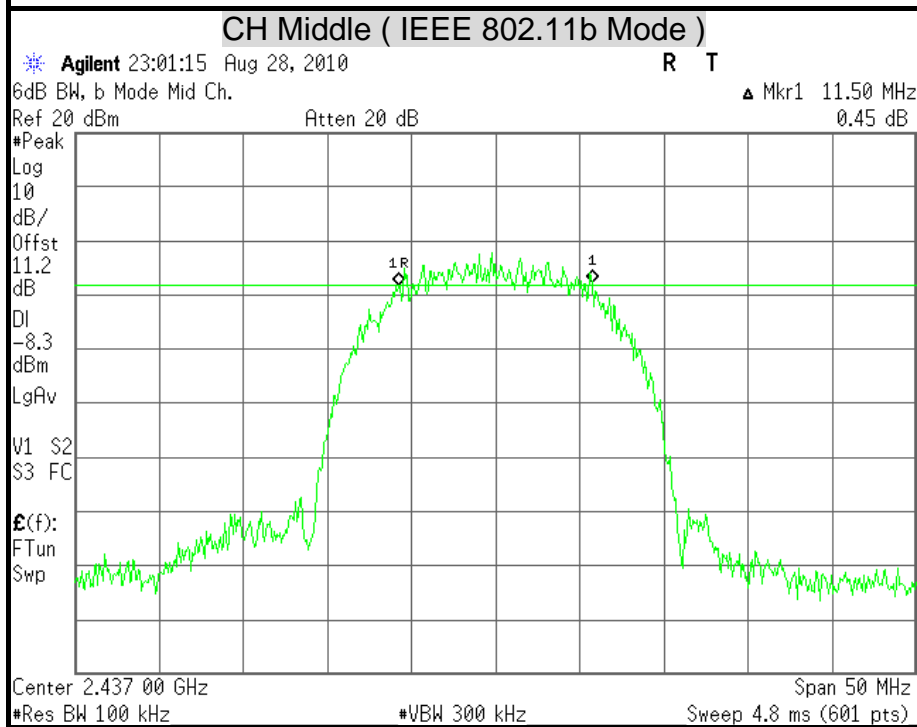
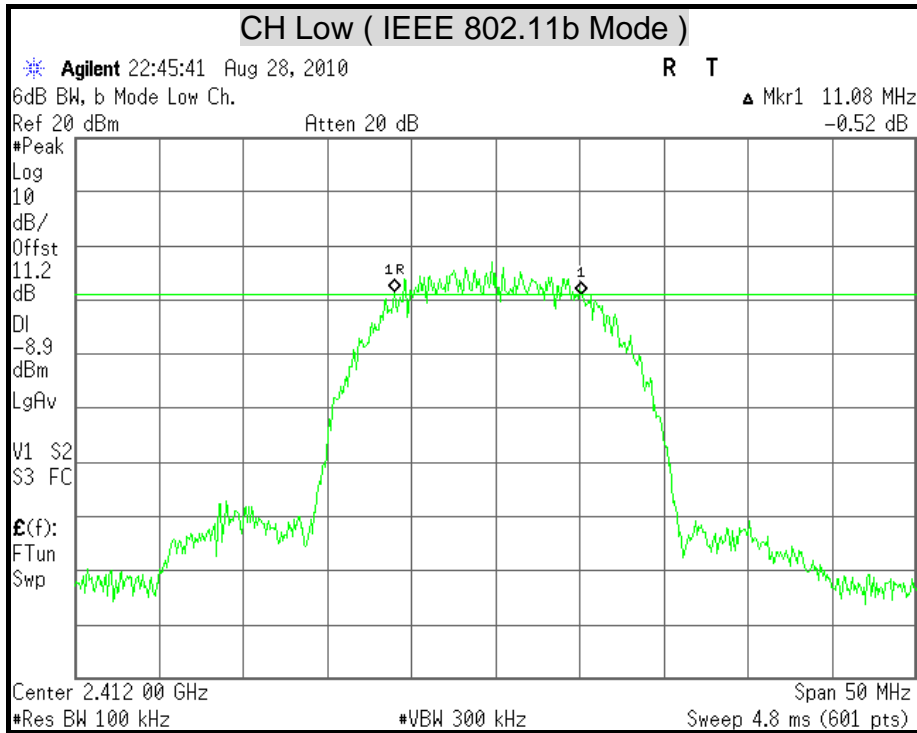
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	11.08	500	PASS
Middle	2437	11.50	500	PASS
High	2462	12.17	500	PASS

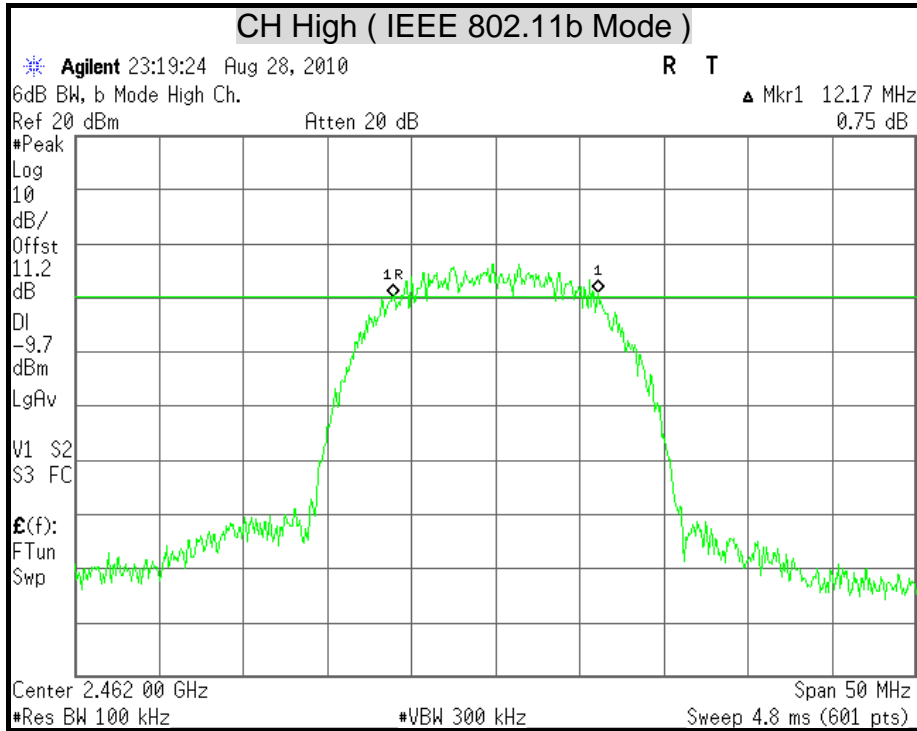
IEEE 802.11g Mode

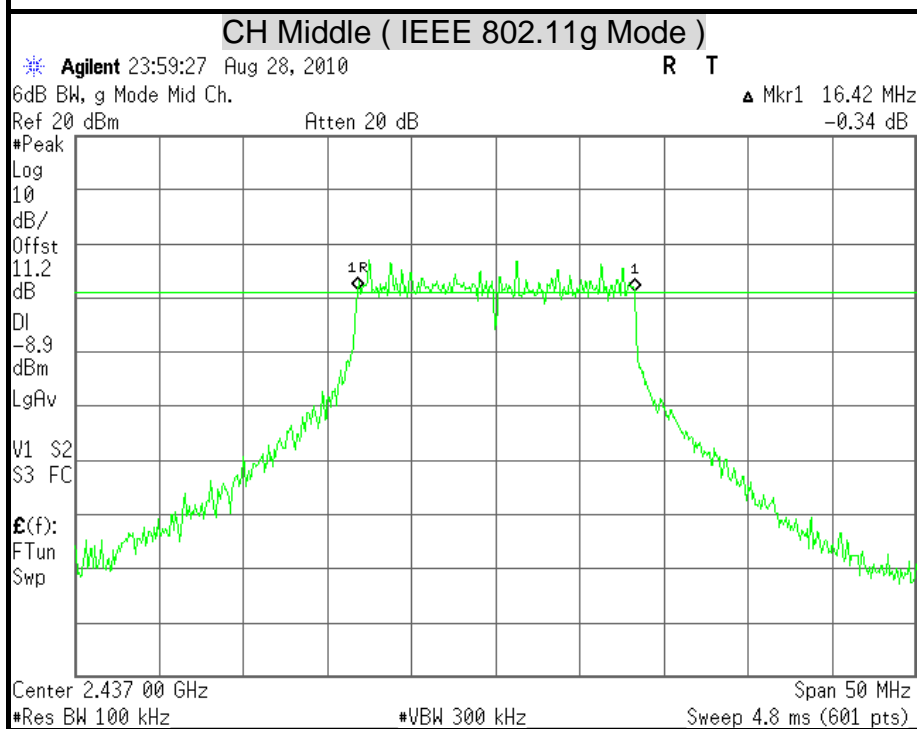
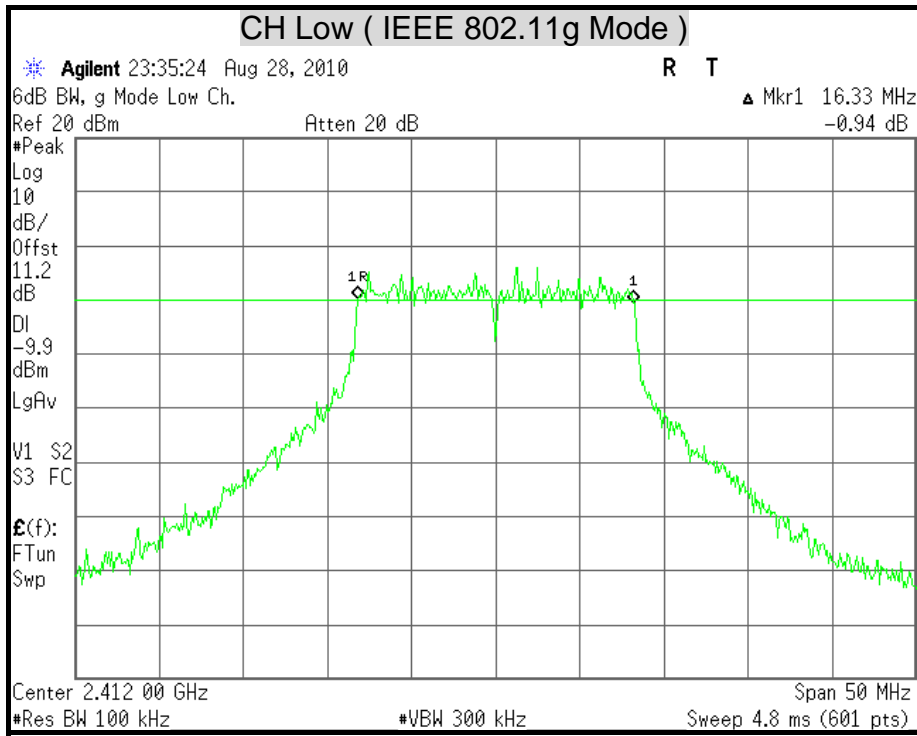
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	16.33	500	PASS
Middle	2437	16.42	500	PASS
High	2462	16.50	500	PASS

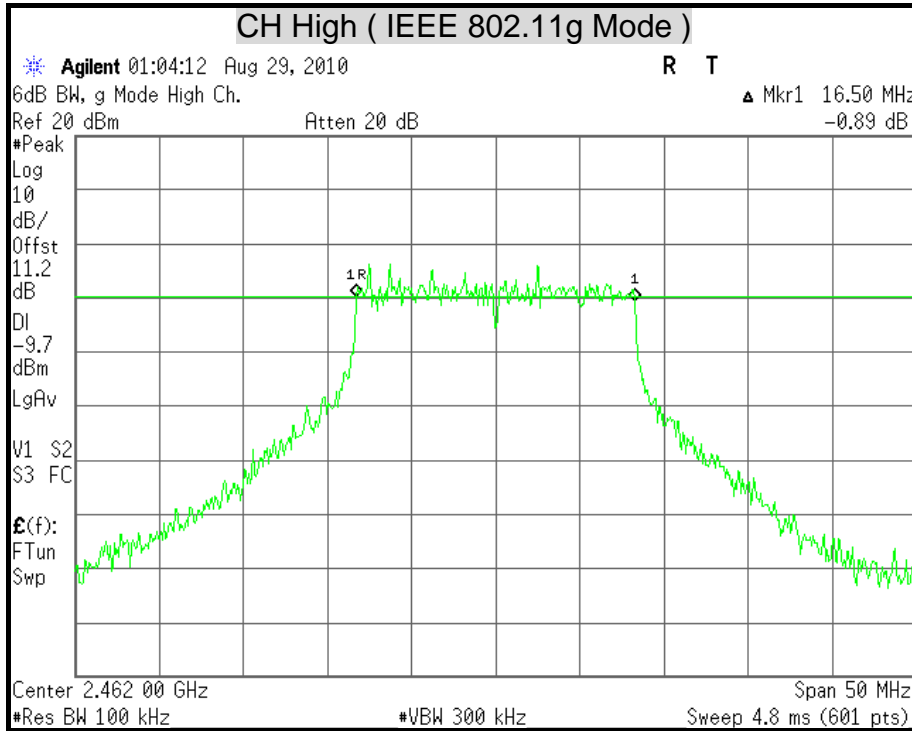


6dB BANDWIDTH











7.2 MAXIMUM PEAK OUTPUT POWER

LIMITS

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 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.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	AGILENT	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	AGILENT	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

- The spectrum shall be set as follows :
 Span : 1.5 times channel integration bandwidth.
 RBW : 1MHz
 VBW : 3MHz
 Detector : Peak
 Sweep : Single trace
- Compute the combined power of all signal responses contained in the trace by covering all the data points.
- The peak output power is the channel power integrated over 26dB bandwidth.



TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Peak Power		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2412	10.62	0.0115	30	1	PASS
Middle	2437	10.98	0.0125	30	1	PASS
High	2462	10.55	0.0114	30	1	PASS

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 11.2dB (including 10 dB pad and 1.2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11g Mode

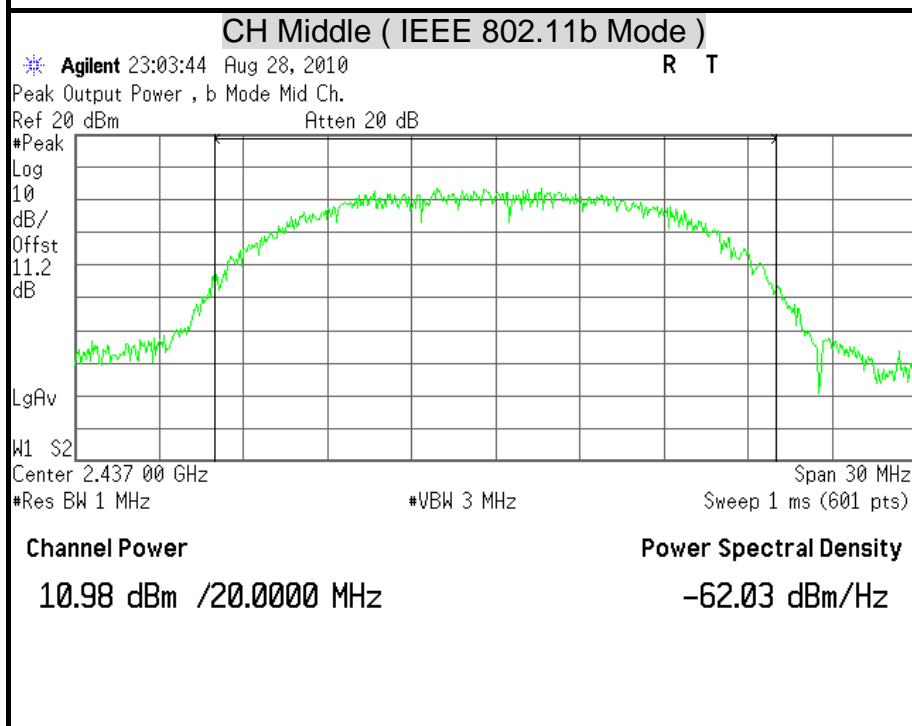
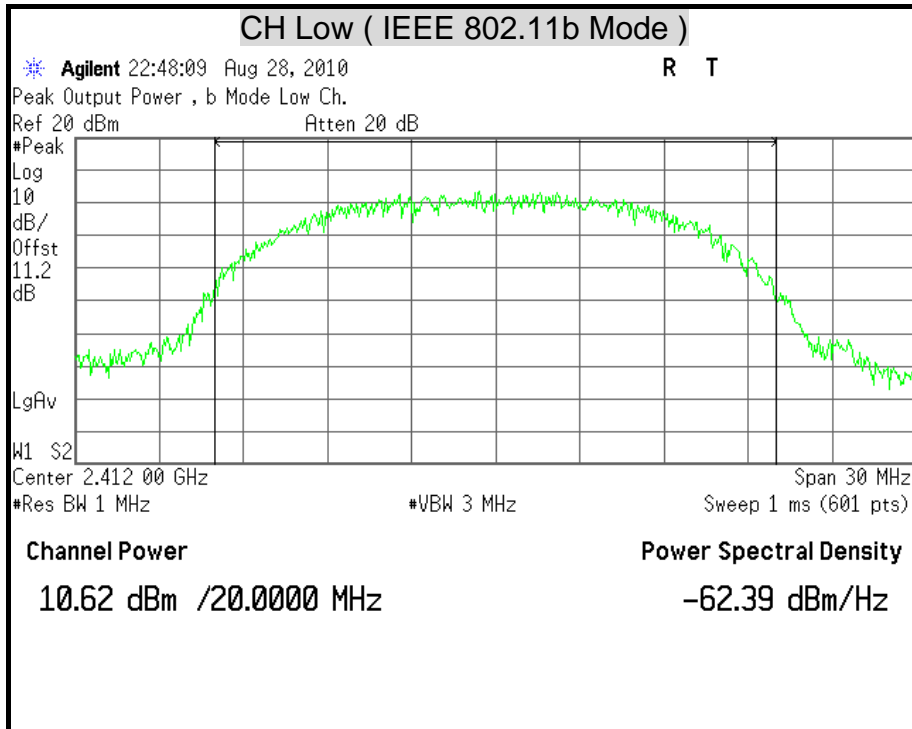
Channel	Channel Frequency (MHz)	Peak Power		Peak Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	2412	10.94	0.0124	30	1	PASS
Middle	2437	11.26	0.0134	30	1	PASS
High	2462	10.99	0.0126	30	1	PASS

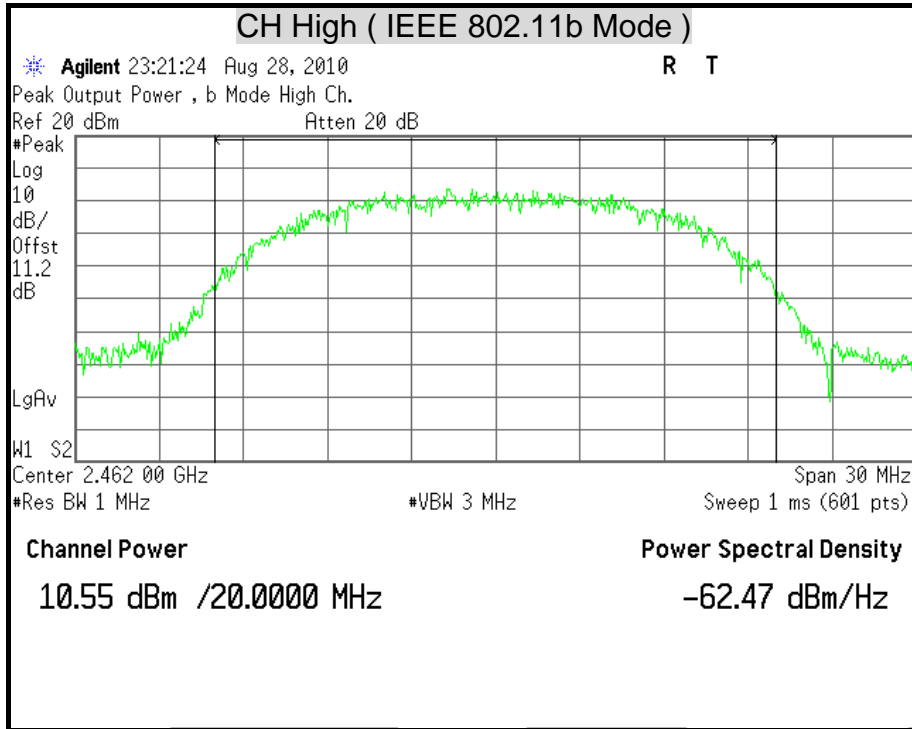
Remark:

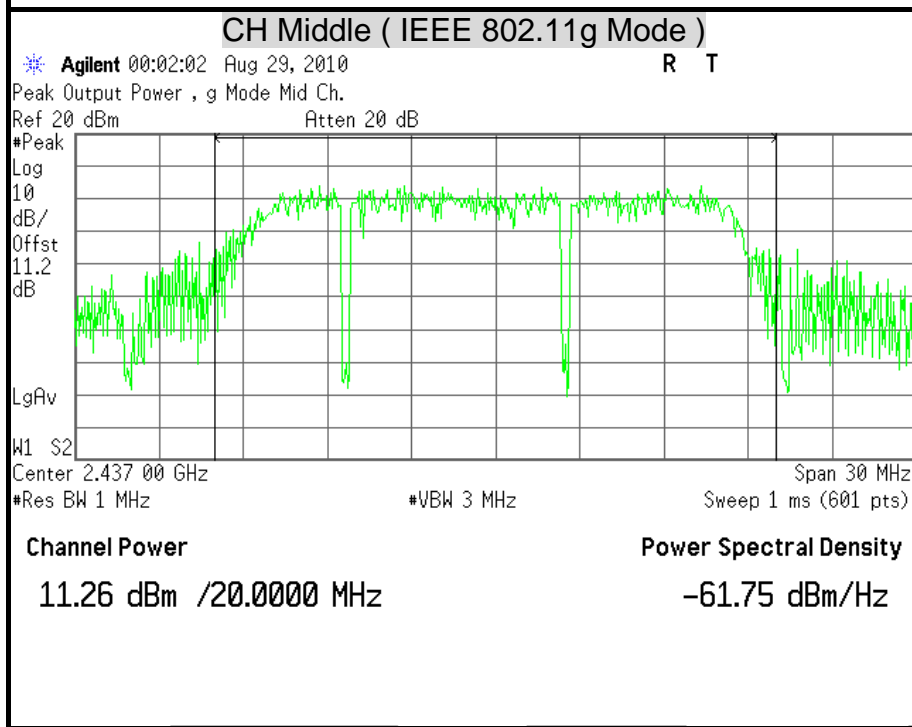
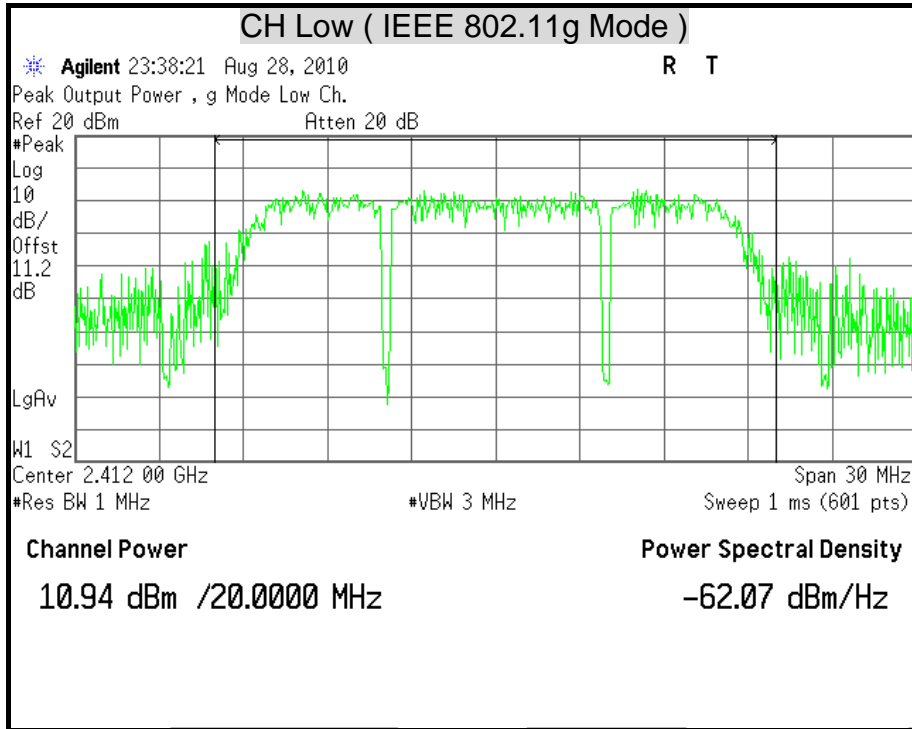
1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 11.2dB (including 10 dB pad and 1.2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

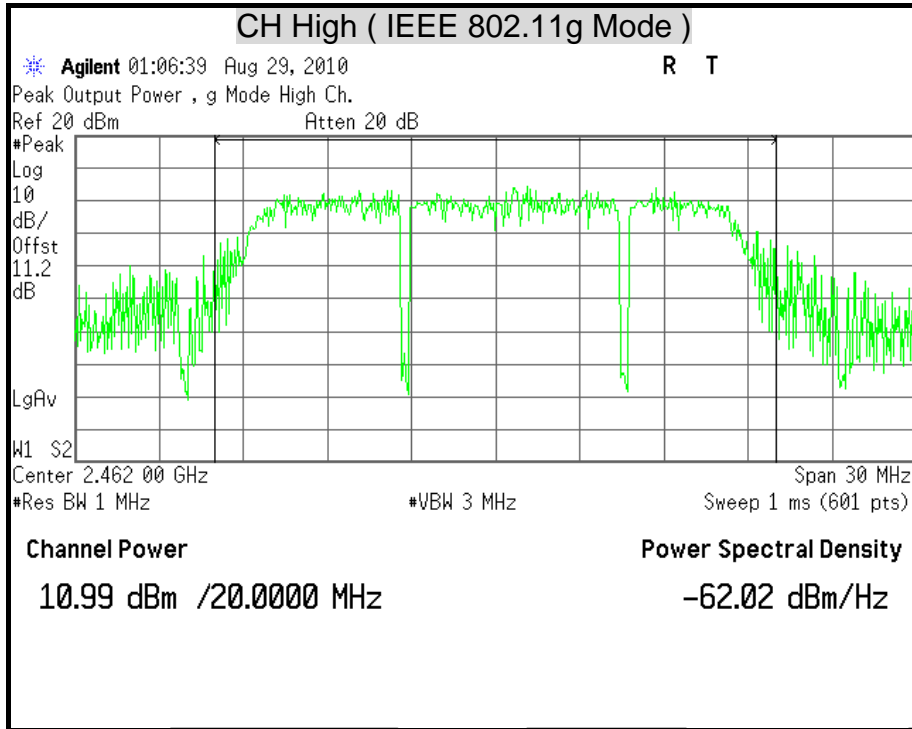


MAXIMUM PEAK OUTPUT POWER











7.3 AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	AGILENT	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	AGILENT	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer.



TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Average Power Output (dBm)
Low	2412	7.33
Middle	2437	7.83
High	2462	7.57

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 11.2dB (including 10 dB pad and 1.2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Average Power Output (dBm)
Low	2412	7.39
Middle	2437	7.91
High	2462	7.46

Remark:

1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 11.2dB (including 10 dB pad and 1.2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.



7.4 POWER SPECTRAL DENSITY

LIMITS

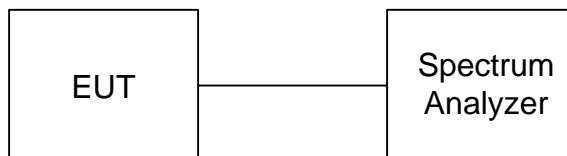
§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	AGILENT	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	AGILENT	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using RBW = 3KHz and VBW RBW, set sweep time = span / 3KHz.

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.



TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2412	-16.52	8	PASS
Middle	2437	-15.84	8	PASS
High	2462	-16.57	8	PASS

Remark:

1. At final test to get the worst-case emission at 1Mbps.
2. The cable assembly insertion loss of 11.2dB (including 10 dB pad and 1.2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11g Mode

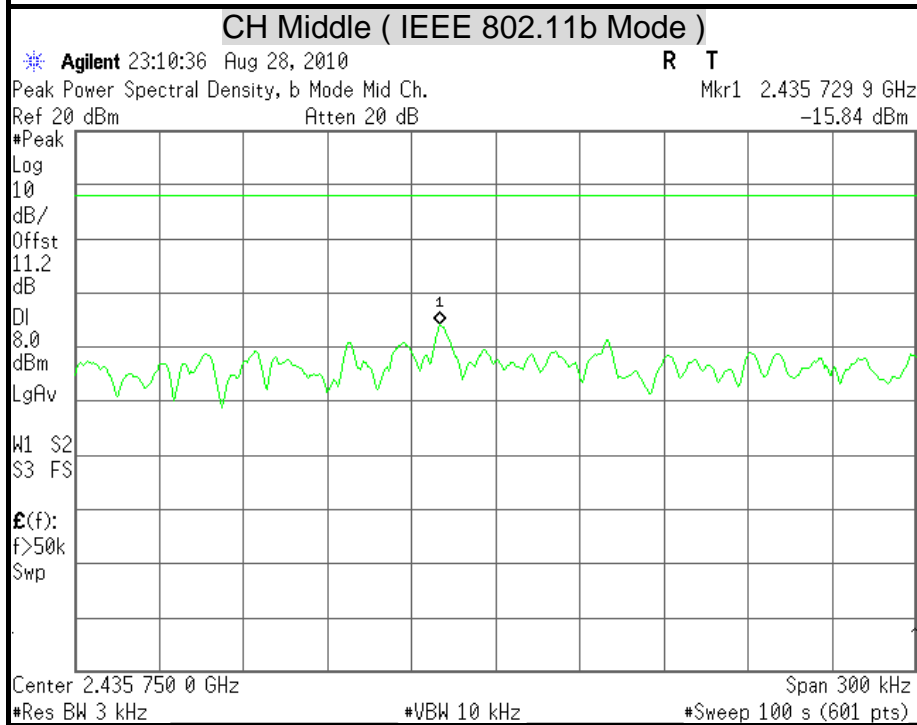
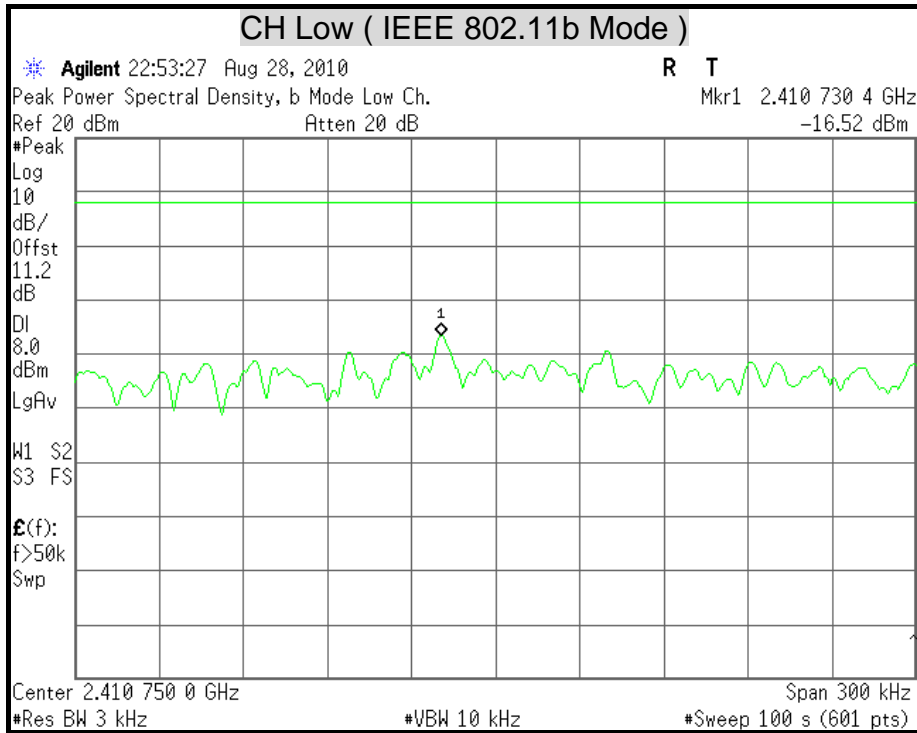
Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2412	-18.18	8	PASS
Middle	2437	-17.05	8	PASS
High	2462	-17.66	8	PASS

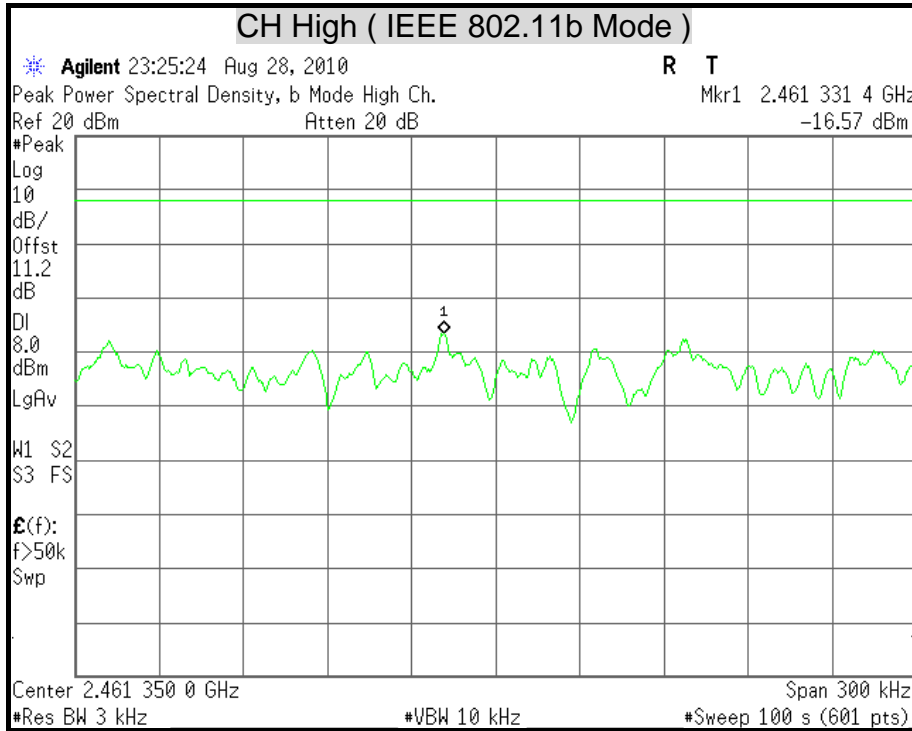
Remark:

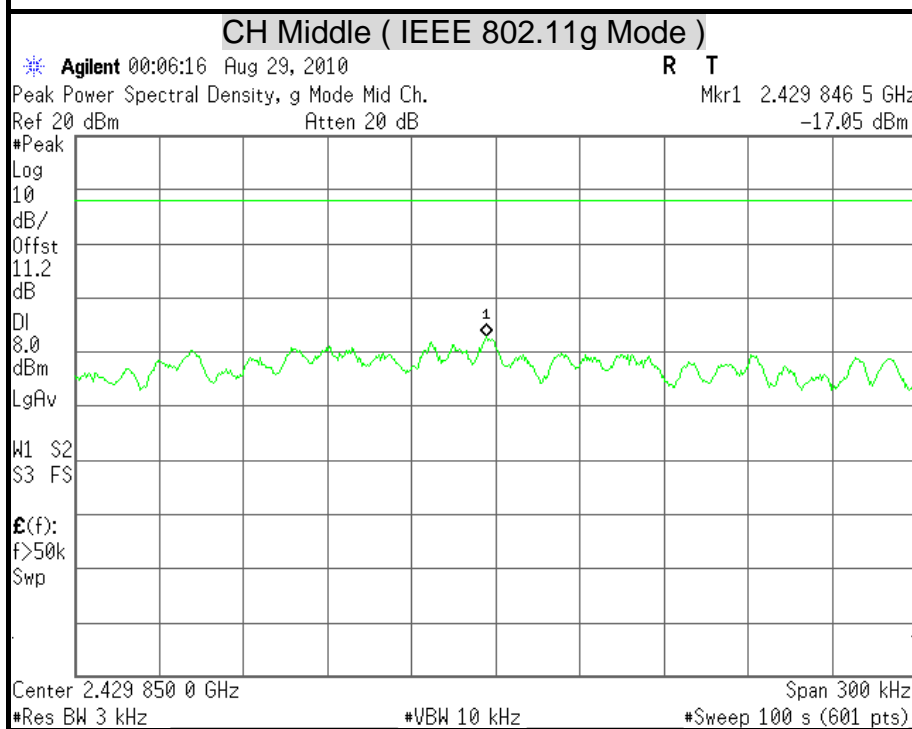
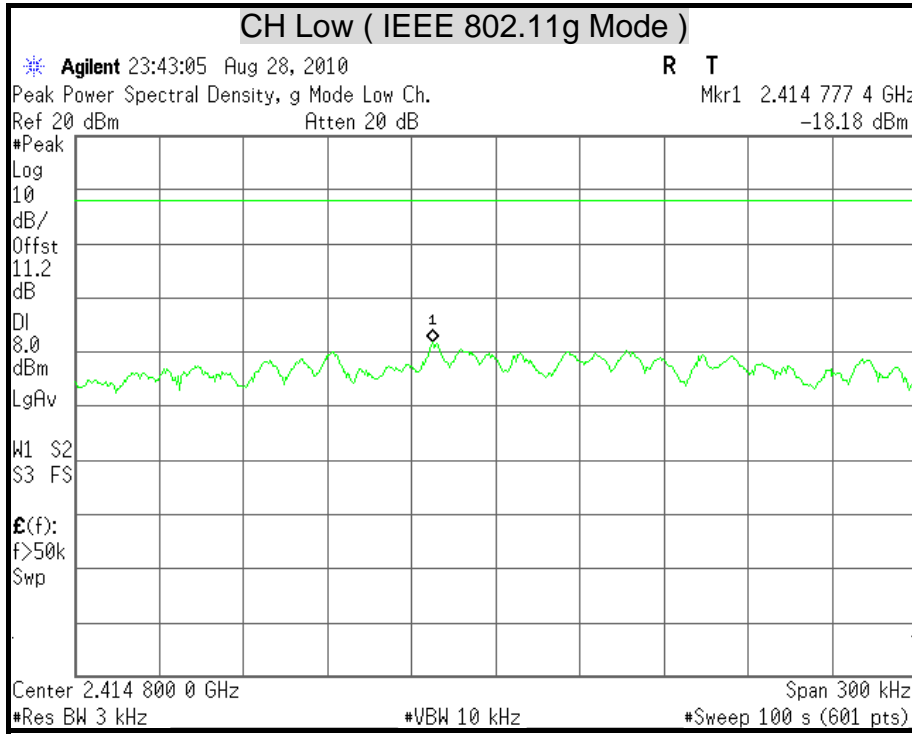
1. At final test to get the worst-case emission at 6Mbps.
2. The cable assembly insertion loss of 11.2dB (including 10 dB pad and 1.2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

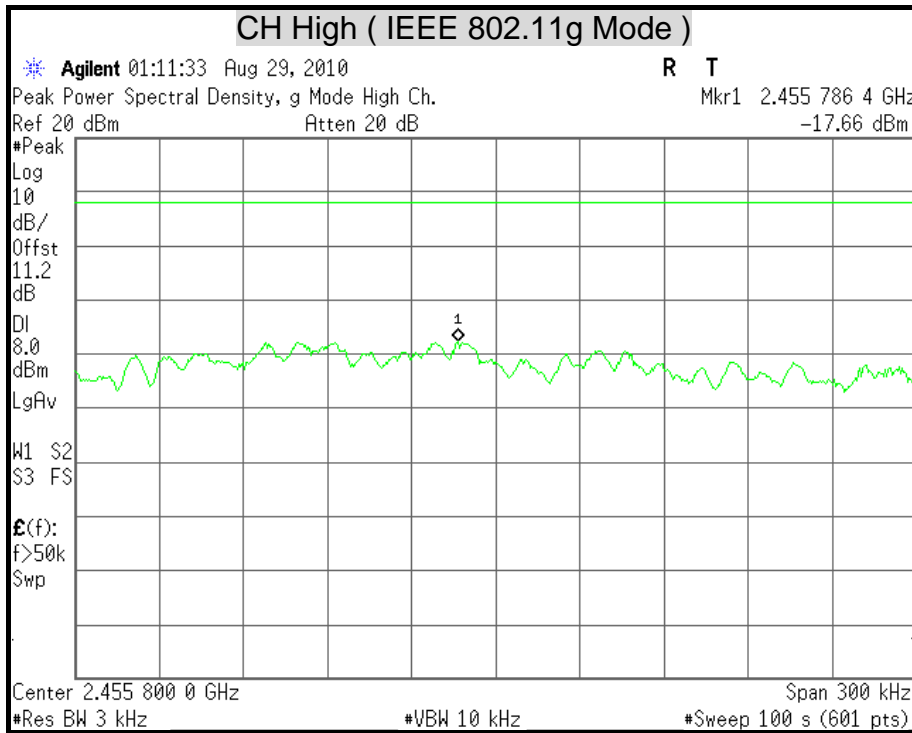


POWER SPECTRAL DENSITY











7.5 CONDUCTED SPURIOUS EMISSION

LIMITS

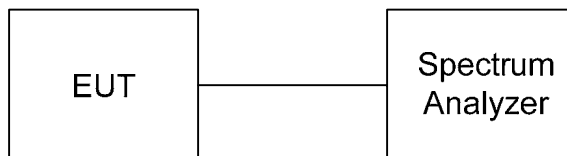
§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. 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) (see § 15.205(c)).

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	AGILENT	E4446A	MY43360132	06/20/2011
Spectrum Analyzer	AGILENT	E4446A	MY46180323	05/02/2011

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

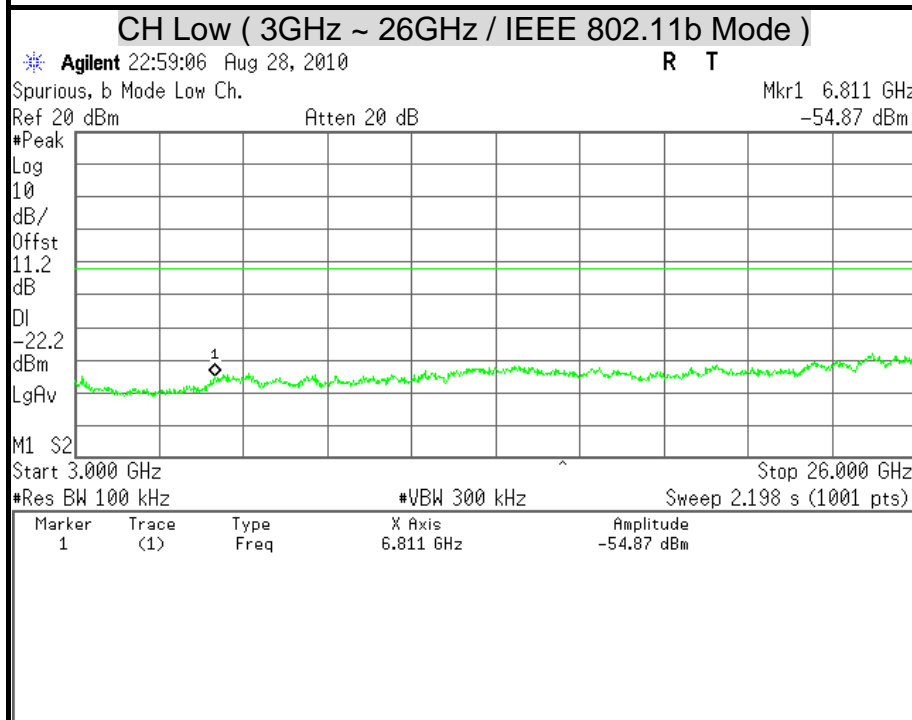
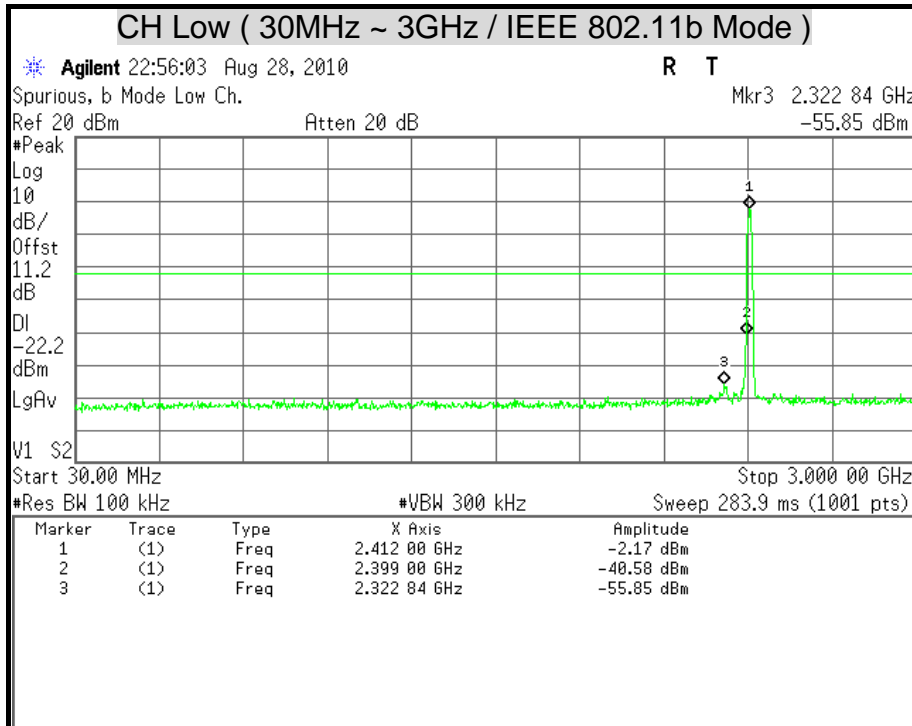
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

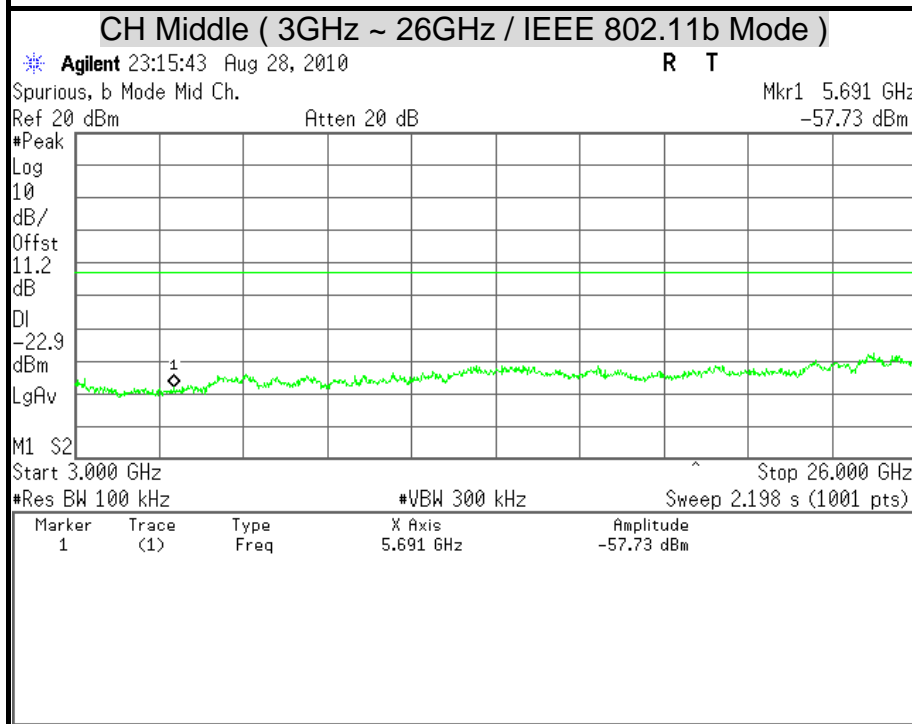
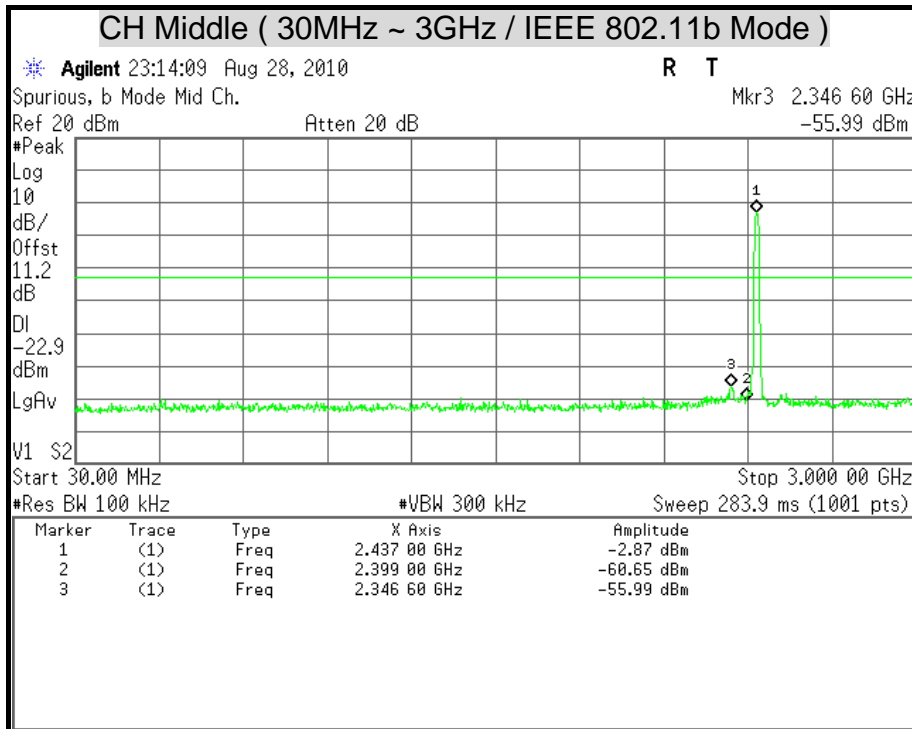
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

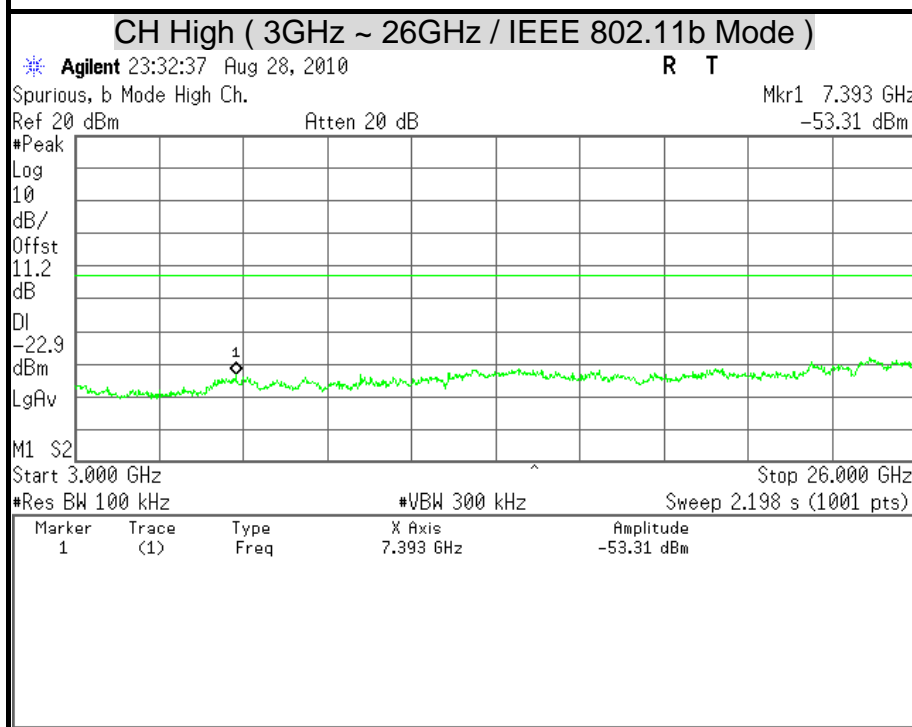
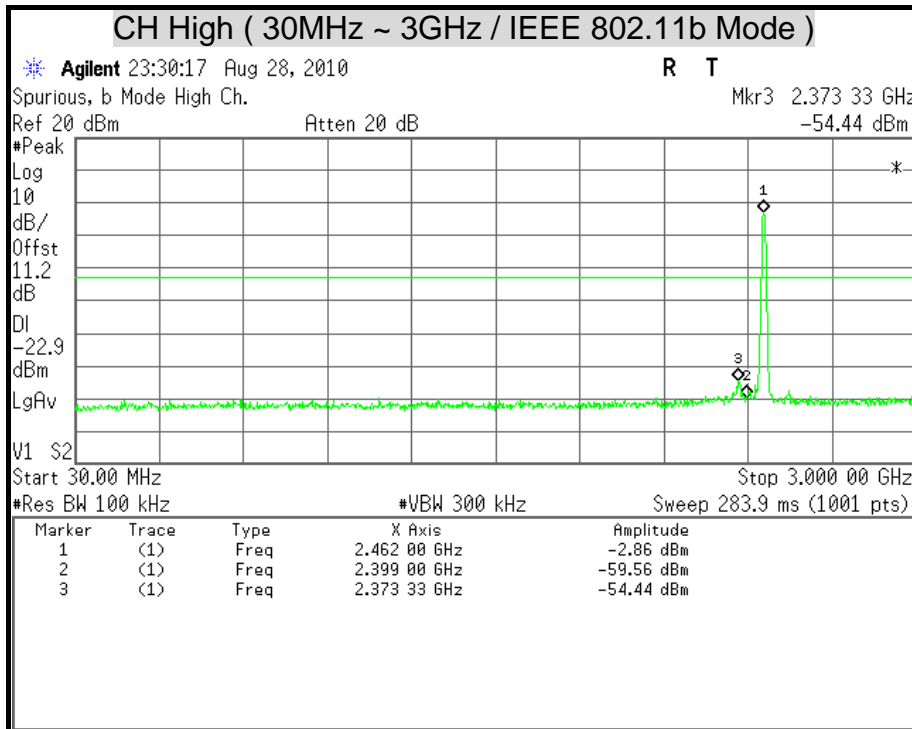


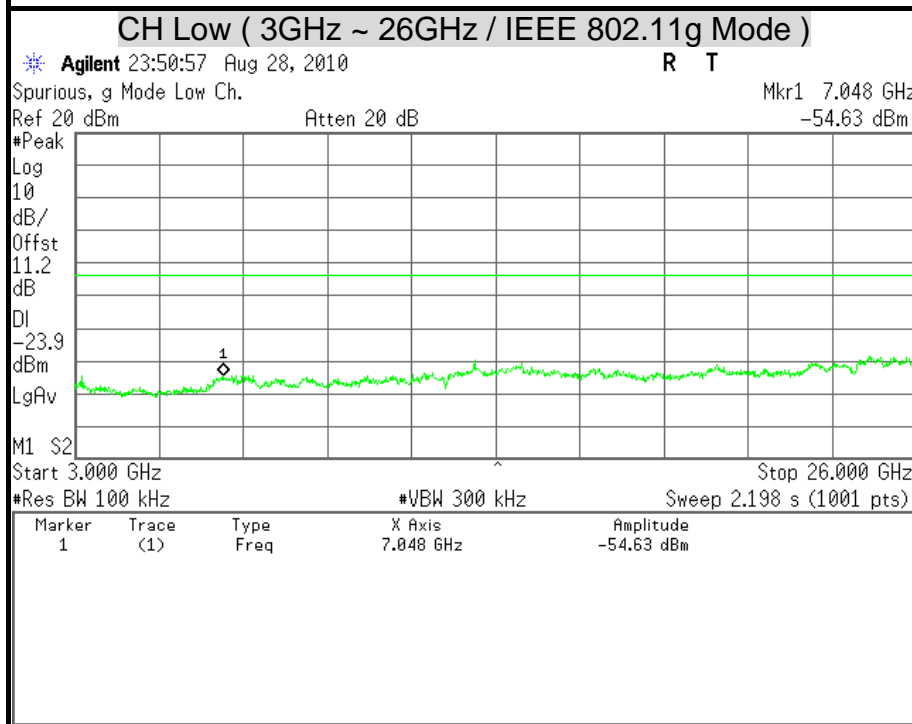
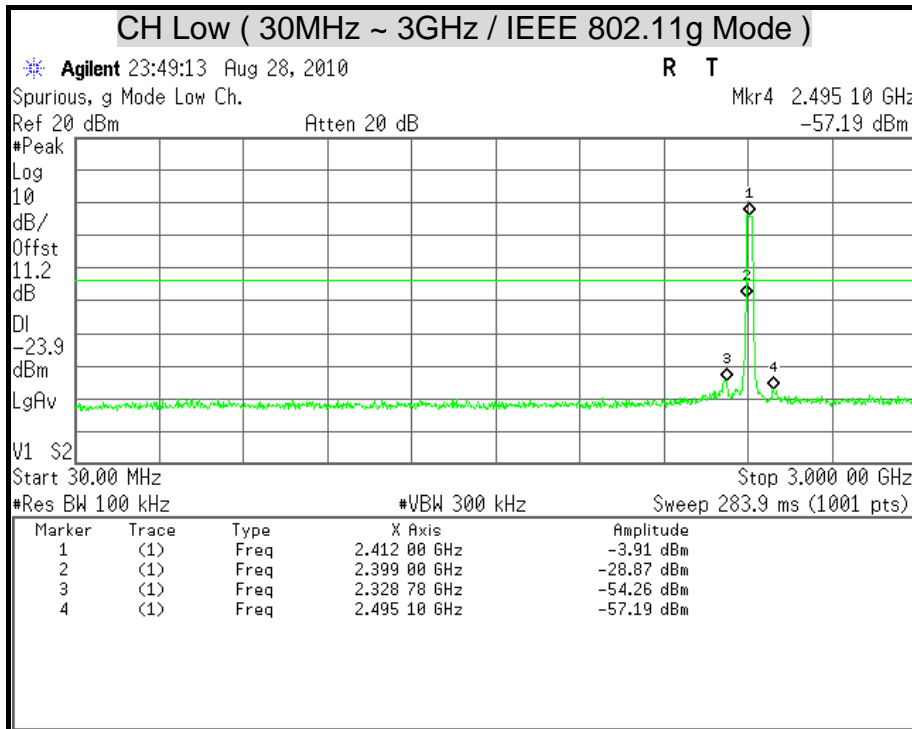
TEST RESULTS

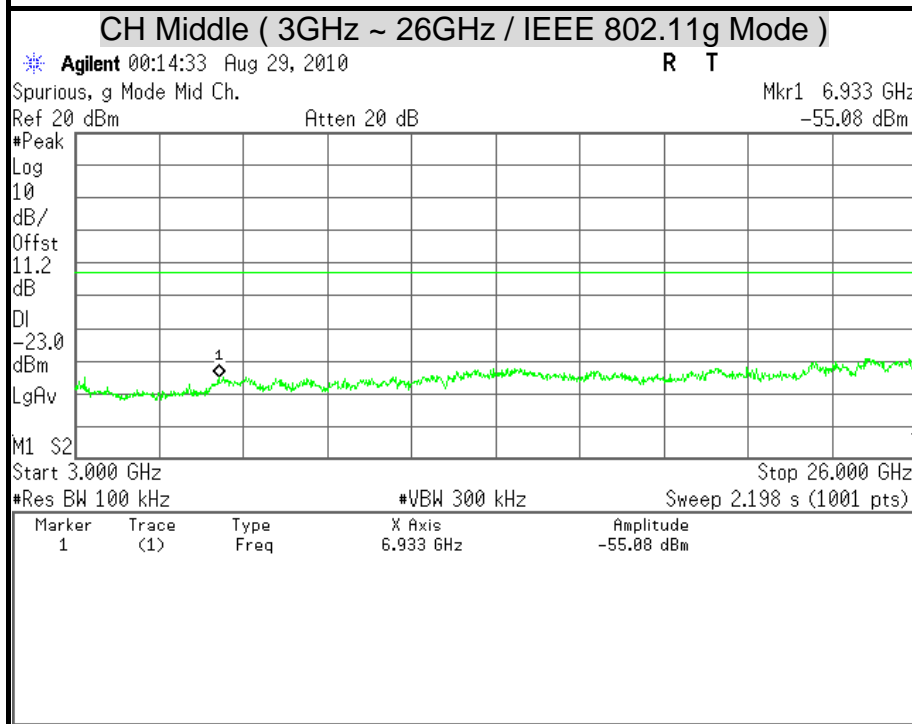
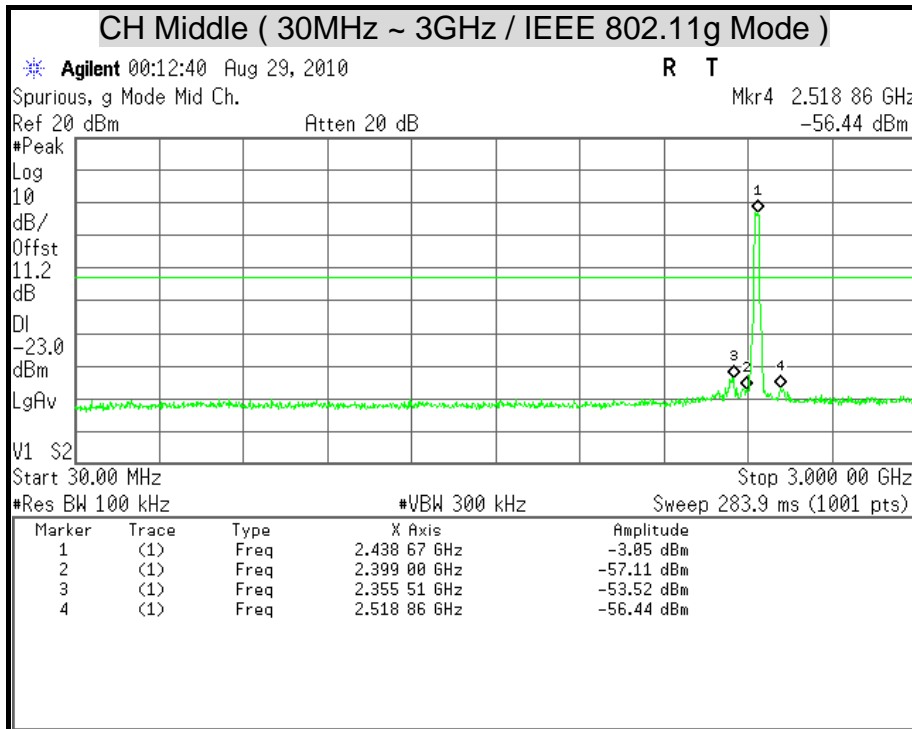
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

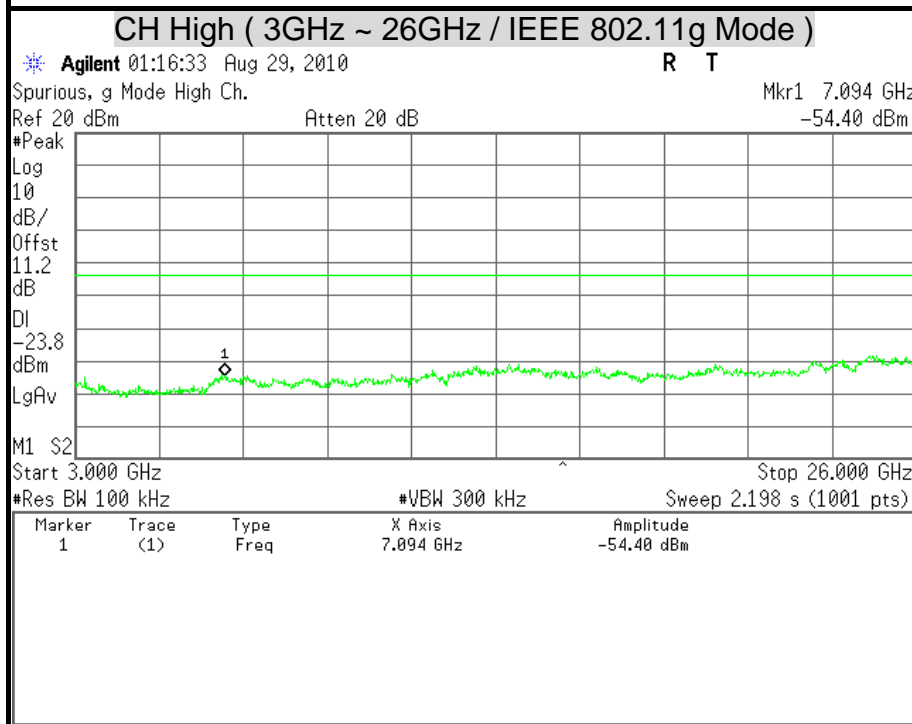
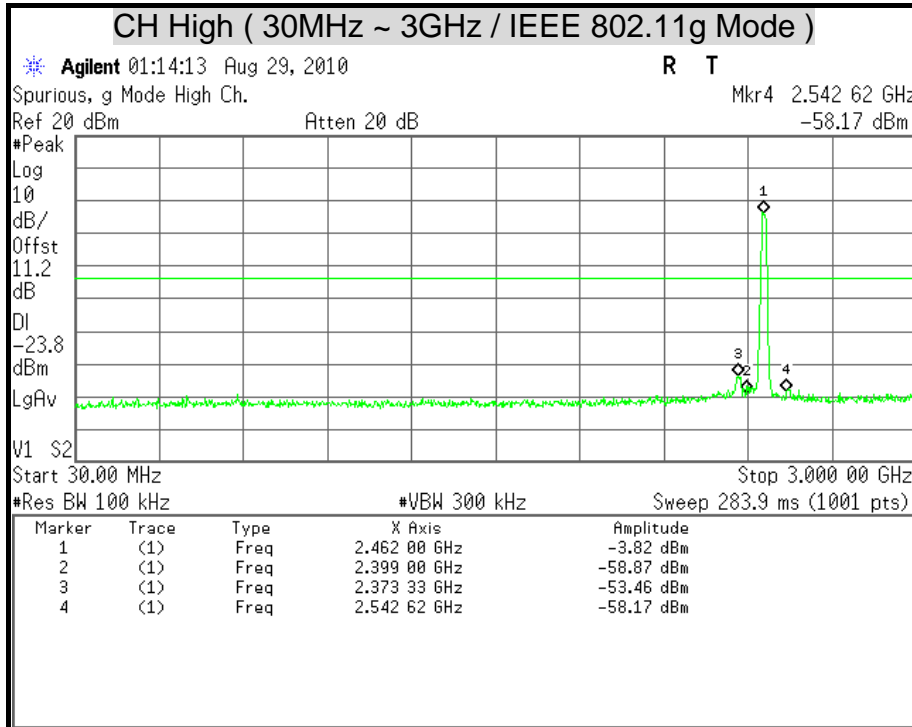














7.6 RADIATED EMISSION

LIMITS

(1) § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Remark:

- 1. ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
- 2. ² Above 38.6

(2) § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

Remark: **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

966Chamber_A

Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/20/2011
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100221	05/03/2011
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-249	11/12/2010
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00078732	07/05/2011
Pre-Amplifier	Agilent	8449B	3008A01471	08/02/2011
Pre-Amplifier	HP	8447F	2944A03748	09/24/2010
RF Coaxial Cable	HUBER-SUHNER	SUCOFLEX 104PEA	SN31347	07/21/2011
RF Coaxial Cable	HUBER-SUHNER	SUCOFLEX 104PEA	SN31350	07/21/2011
RF Coaxial Cable	HUBER-SUHNER	SUCOFLEX 104PEA	SN31355	07/21/2011
LOOP Antenna	EMCO	6502	8905-2356	06/09/2011
Notch Filters Band Reject	Micro-Tronics	BRM05702-01	009	N.C.R

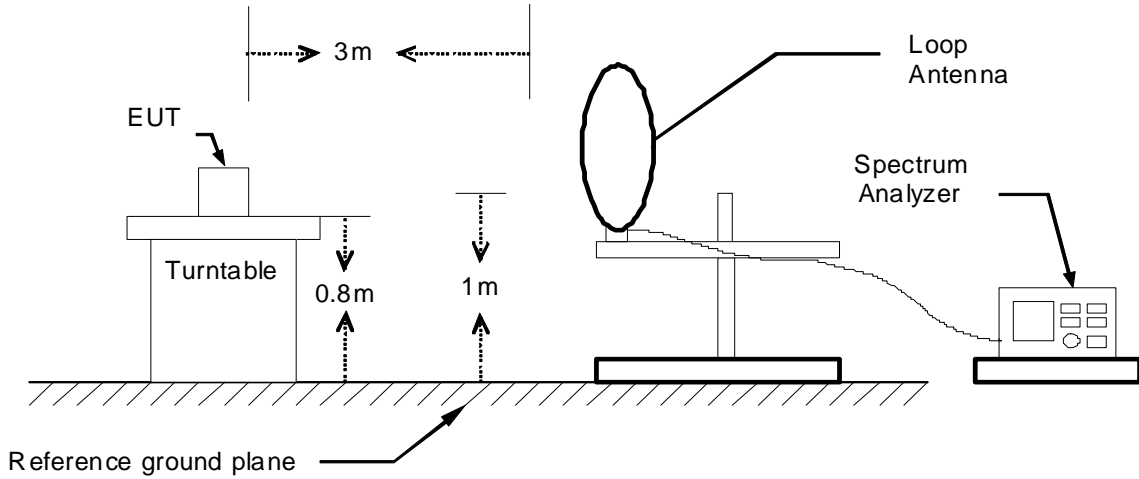
Remark: 1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R = No Calibration Request.



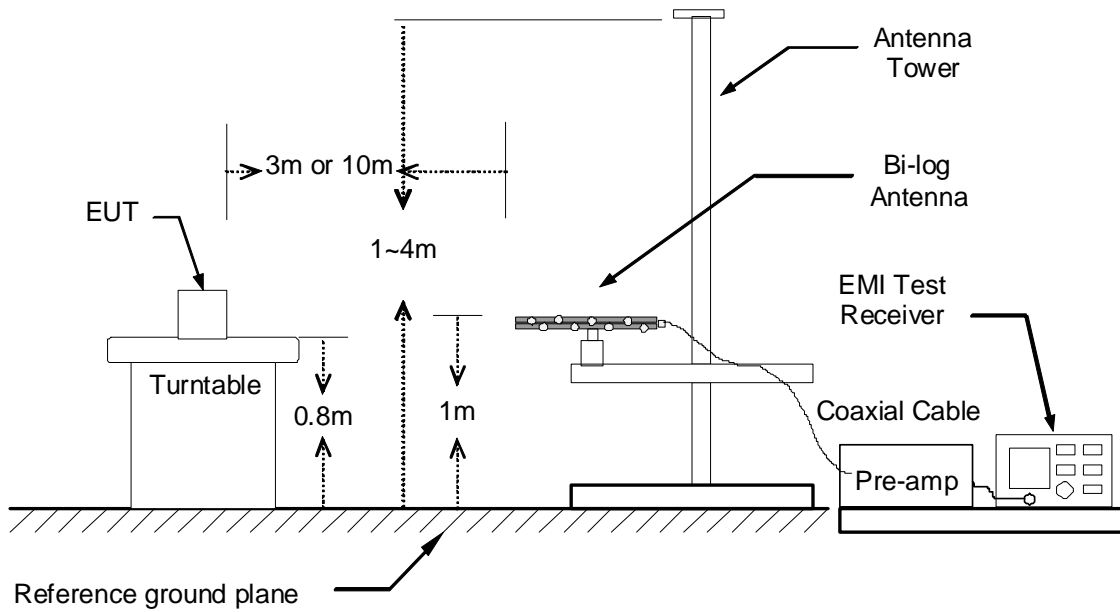
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

9kHz ~ 30MHz

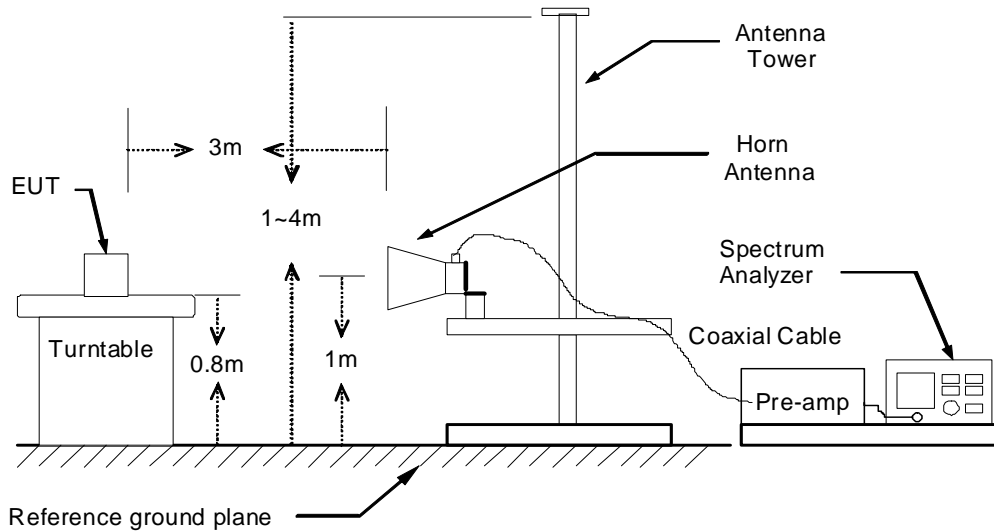


30MHz ~ 1GHz





The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark :

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.



TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name	Battery Charger with FLO TV™	Test By	Julon Liu
Model	FLTVUX	Test Date	2010/08/13
Test Mode	Normal operating (worst-case)	TEMP & Humidity	25°C, 58%

966 Chamber_A at 3Meter / Horizontal						
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
51.34	31.30	-9.52	21.78	40.00	-18.22	Peak
149.31	30.47	-10.27	20.20	43.50	-23.30	Peak
291.90	32.30	-9.16	23.14	46.00	-22.86	Peak
375.32	30.38	-6.58	23.80	46.00	-22.20	Peak
532.46	31.00	-2.93	28.07	46.00	-17.93	Peak
891.36	28.28	3.83	32.11	46.00	-13.89	Peak
966 Chamber_A at 3Meter / Vertical						
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
30.97	38.57	-11.35	27.22	40.00	-12.78	Peak
247.28	31.08	-10.77	20.31	46.00	-25.69	Peak
433.52	33.30	-5.12	28.18	46.00	-17.82	Peak
532.46	32.43	-2.93	29.50	46.00	-16.50	Peak
566.41	31.66	-2.11	29.55	46.00	-16.45	Peak
817.64	29.08	2.38	31.46	46.00	-14.54	Peak

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)
4. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
5. Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).



Above 1 GHz

Product Name	Battery Charger with FLO TV™	Test By	Rueyyan Lin
Model	FLTVUX	Test Date	2010/08/28
Test Mode	IEEE 802.11b TX / CH Low	TEMP & Humidity	25.6°C, 56%

966 Chamber_A at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1384.00	52.34	---	-3.32	49.02	---	74.00	54.00	-24.98	Peak
1598.00	46.69	---	-2.16	44.53	---	74.00	54.00	-29.47	Peak
2412.00	103.66	95.37	1.96	105.62	97.33	---	---	---	Carrier
2492.00	45.92	---	2.12	48.04	---	74.00	54.00	-25.96	Peak
3450.00	42.25	---	3.36	45.61	---	74.00	54.00	-28.39	Peak
4642.50	41.12	---	6.36	47.48	---	74.00	54.00	-26.52	Peak
6045.00	41.21	---	8.10	49.31	---	74.00	54.00	-24.69	Peak

966 Chamber_A at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1064.00	49.64	---	-4.30	45.34	---	74.00	54.00	-28.66	Peak
1386.00	49.55	---	-3.31	46.24	---	74.00	54.00	-27.76	Peak
1594.00	45.80	---	-2.19	43.61	---	74.00	54.00	-30.39	Peak
2324.00	45.86	---	1.79	47.65	---	74.00	54.00	-26.35	Peak
2412.00	103.02	94.74	1.96	104.98	96.70	---	---	---	Carrier
2492.00	52.03	30.07	2.12	54.15	32.19	74.00	54.00	-21.81	AVG
3217.50	43.43	---	3.28	46.71	---	74.00	54.00	-27.29	Peak
4275.00	42.70	---	5.83	48.53	---	74.00	54.00	-25.47	Peak
6397.50	40.26	---	9.28	49.54	---	74.00	54.00	-24.46	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. 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.
6. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(PK)
Remark AVG = Result(AV) - Limit(AV)



Product Name	Battery Charger with FLO TV™	Test By	Rueyyan Lin
Model	FLTVUX	Test Date	2010/08/28
Test Mode	IEEE 802.11b TX / CH Middle	TEMP & Humidity	25.6 °C, 56%

966 Chamber_A at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1278.00	50.60	---	-3.64	46.96	---	74.00	54.00	-27.04	Peak
1386.00	47.27	---	-3.31	43.96	---	74.00	54.00	-30.04	Peak
2130.00	44.43	---	1.40	45.83	---	74.00	54.00	-28.17	Peak
2350.00	46.74	---	1.84	48.58	---	74.00	54.00	-25.42	Peak
2437.00	104.63	96.50	2.01	106.64	98.51	---	---	---	Carrier
2496.00	45.95	---	2.13	48.08	---	74.00	54.00	-25.92	Peak
3195.00	42.51	---	3.28	45.79	---	74.00	54.00	-28.21	Peak
4470.00	41.85	---	6.47	48.32	---	74.00	54.00	-25.68	Peak
6540.00	40.39	---	9.68	50.07	---	74.00	54.00	-23.93	Peak

966 Chamber_A at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1064.00	47.29	---	-4.30	42.99	---	74.00	54.00	-31.01	Peak
1384.00	52.34	---	-3.32	49.02	---	74.00	54.00	-24.98	Peak
1594.00	51.73	---	-2.19	49.54	---	74.00	54.00	-24.46	Peak
2350.00	47.36	---	1.84	49.20	---	74.00	54.00	-24.80	Peak
2437.00	101.88	94.05	2.02	103.90	96.07	---	---	---	Carrier
2492.00	55.51	34.55	2.12	57.63	36.67	74.00	54.00	-17.33	AVG
3225.00	42.31	---	3.29	45.60	---	74.00	54.00	-28.40	Peak
4800.00	41.33	---	6.13	47.46	---	74.00	54.00	-26.54	Peak
5662.50	42.26	---	7.21	49.47	---	74.00	54.00	-24.53	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. 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.
6. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(PK)
Remark AVG = Result(AV) - Limit(AV)



Product Name	Battery Charger with FLO TV™	Test By	Rueyyan Lin
Model	FLTVUX	Test Date	2010/08/28
Test Mode	IEEE 802.11b TX / CH High	TEMP & Humidity	25.6 °C, 56%

966 Chamber_A at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1096.00	45.82	---	-4.20	41.62	---	74.00	54.00	-32.38	Peak
1382.00	47.40	---	-3.32	44.08	---	74.00	54.00	-29.92	Peak
2126.00	44.19	---	1.39	45.58	---	74.00	54.00	-28.42	Peak
2376.00	46.53	---	1.89	48.42	---	74.00	54.00	-25.58	Peak
2462.00	104.78	96.73	2.06	106.84	98.79	---	---	---	Carrier
2552.00	43.67	---	2.25	45.92	---	74.00	54.00	-28.08	Peak
3225.00	43.38	---	3.29	46.67	---	74.00	54.00	-27.33	Peak
4920.00	41.33	---	5.95	47.28	---	74.00	54.00	-26.72	Peak
6232.50	41.00	---	8.73	49.73	---	74.00	54.00	-24.27	Peak

966 Chamber_A at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1384.00	51.59	---	-3.32	48.27	---	74.00	54.00	-25.73	Peak
1598.00	49.44	---	-2.16	47.28	---	74.00	54.00	-26.72	Peak
2124.00	43.95	---	1.39	45.34	---	74.00	54.00	-28.66	Peak
2374.00	47.26	---	1.89	49.15	---	74.00	54.00	-24.85	Peak
2462.00	101.25	93.26	2.06	103.31	95.32	---	---	---	Carrier
2498.00	55.32	33.61	2.14	57.46	35.75	74.00	54.00	-18.25	AVG
3322.50	42.70	---	3.32	46.02	---	74.00	54.00	-27.98	Peak
4927.50	41.20	---	5.94	47.14	---	74.00	54.00	-26.86	Peak
6165.00	40.97	---	8.50	49.47	---	74.00	54.00	-24.53	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. 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.
6. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(PK)
Remark AVG = Result(AV) - Limit(AV)



Product Name	Battery Charger with FLO TV™	Test By	Rueyyan Lin
Model	FLTVUX	Test Date	2010/08/28
Test Mode	IEEE 802.11g TX / CH Low	TEMP & Humidity	25.6 °C, 56%

966 Chamber_A at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1062.00	48.48	---	-4.31	44.17	---	74.00	54.00	-29.83	Peak
1246.00	48.11	---	-3.74	44.37	---	74.00	54.00	-29.63	Peak
1384.00	47.95	---	-3.32	44.63	---	74.00	54.00	-29.37	Peak
2328.00	53.64	40.56	1.80	55.44	42.36	74.00	54.00	-11.64	AVG
2412.00	103.26	90.14	1.97	105.23	92.11	---	---	---	Carrier
2494.00	47.13	---	2.13	49.26	---	74.00	54.00	-24.74	Peak
3172.50	43.56	---	3.27	46.83	---	74.00	54.00	-27.17	Peak
4372.50	41.18	---	6.15	47.33	---	74.00	54.00	-26.67	Peak
5475.00	41.28	---	6.80	48.08	---	74.00	54.00	-25.92	Peak

966 Chamber_A at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1386.00	50.41	---	-3.31	47.10	---	74.00	54.00	-26.90	Peak
1598.00	48.68	---	-2.16	46.52	---	74.00	54.00	-27.48	Peak
2320.00	53.55	40.38	1.78	55.33	42.16	74.00	54.00	-11.84	AVG
2412.00	102.92	89.05	1.97	104.89	91.02	---	---	---	Carrier
2496.00	54.52	35.56	2.13	56.65	37.69	74.00	54.00	-16.31	AVG
3045.00	42.94	---	3.23	46.17	---	74.00	54.00	-27.83	Peak
3877.50	42.01	---	4.54	46.55	---	74.00	54.00	-27.45	Peak
4672.50	41.24	---	6.31	47.55	---	74.00	54.00	-26.45	Peak

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. 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.
6. Result = Reading + Correction Factor
 Margin = Result - Limit
 Remark Peak = Result(PK) - Limit(PK)
 Remark AVG = Result(AV) - Limit(AV)



Product Name	Battery Charger with FLO TV™	Test By	Rueyyan Lin
Model	FLTVUX	Test Date	2010/08/28
Test Mode	IEEE 802.11g TX / CH Middle	TEMP & Humidity	25.6 °C, 56%

966 Chamber_A at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1278.00	47.73	---	-3.64	44.09	---	74.00	54.00	-29.91	Peak
1386.00	48.16	---	-3.31	44.85	---	74.00	54.00	-29.15	Peak
2128.00	43.69	---	1.40	45.09	---	74.00	54.00	-28.91	Peak
2346.00	53.51	40.77	1.83	55.34	42.60	74.00	54.00	-11.40	AVG
2437.00	104.39	91.50	2.01	106.40	93.51	---	---	---	Carrier
2516.00	44.34	---	2.17	46.51	---	74.00	54.00	-27.49	Peak
3247.50	45.86	---	3.29	49.15	---	74.00	54.00	-24.85	Peak
4260.00	41.93	---	5.78	47.71	---	74.00	54.00	-26.29	Peak
6135.00	42.41	---	8.40	50.81	---	74.00	54.00	-23.19	Peak

966 Chamber_A at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1064.00	50.41	---	-4.30	46.11	---	74.00	54.00	-27.89	Peak
1382.00	51.18	---	-3.32	47.86	---	74.00	54.00	-26.14	Peak
1596.00	50.14	---	-2.17	47.97	---	74.00	54.00	-26.03	Peak
2352.00	53.41	40.29	1.84	55.25	42.13	74.00	54.00	-11.87	AVG
2437.00	102.66	89.67	2.01	104.67	91.68	---	---	---	Carrier
2494.00	55.36	34.21	2.13	57.49	36.34	74.00	54.00	-17.66	AVG
3247.50	44.29	---	3.29	47.58	---	74.00	54.00	-26.42	Peak
4897.50	41.33	---	5.98	47.31	---	74.00	54.00	-26.69	Peak
6450.00	40.34	---	9.45	49.79	---	74.00	54.00	-24.21	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. 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.
6. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(PK)
Remark AVG = Result(AV) - Limit(AV)



Product Name	Battery Charger with FLO TV™	Test By	Rueyyan Lin
Model	FLTVUX	Test Date	2010/08/28
Test Mode	IEEE 802.11g TX / CH High	TEMP & Humidity	25.6 °C, 56%

966 Chamber_A at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1046.00	45.81	---	-4.36	41.45	---	74.00	54.00	-32.55	Peak
1382.00	48.27	---	-3.32	44.95	---	74.00	54.00	-29.05	Peak
1810.00	45.42	---	-0.42	45.00	---	74.00	54.00	-29.00	Peak
2126.00	43.79	---	1.39	45.18	---	74.00	54.00	-28.82	Peak
2368.00	53.70	40.63	1.88	55.58	42.51	74.00	54.00	-11.49	AVG
2462.00	104.34	91.47	2.05	106.39	93.52	---	---	---	Carrier
3285.00	43.03	---	3.31	46.34	---	74.00	54.00	-27.66	Peak
4387.50	41.01	---	6.20	47.21	---	74.00	54.00	-26.79	Peak
6442.50	39.99	---	9.43	49.42	---	74.00	54.00	-24.58	Peak

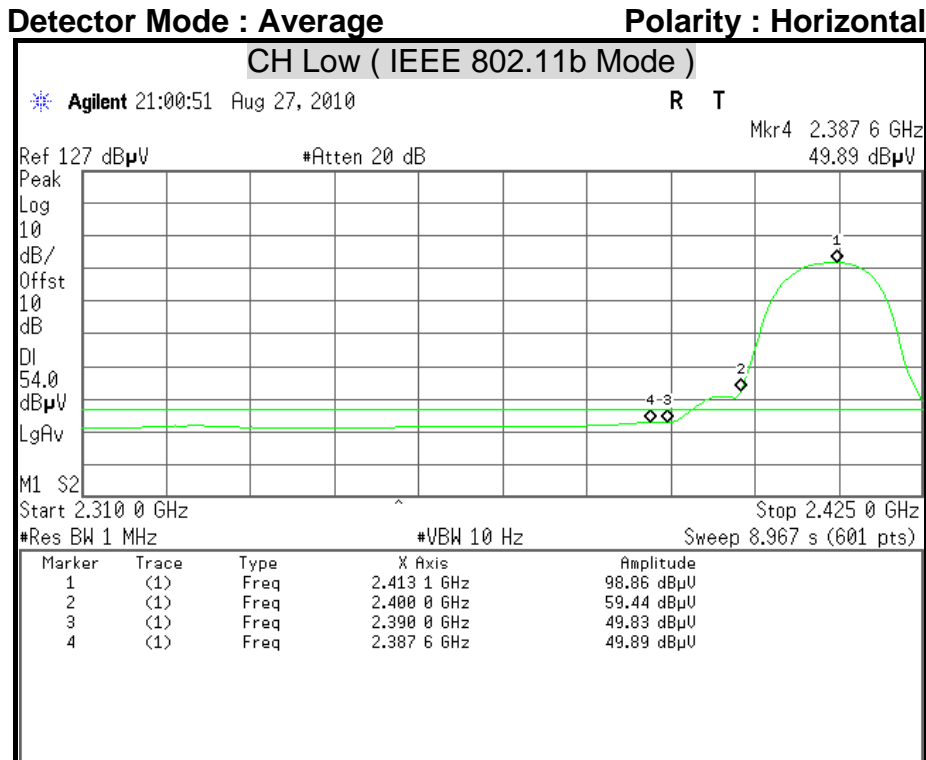
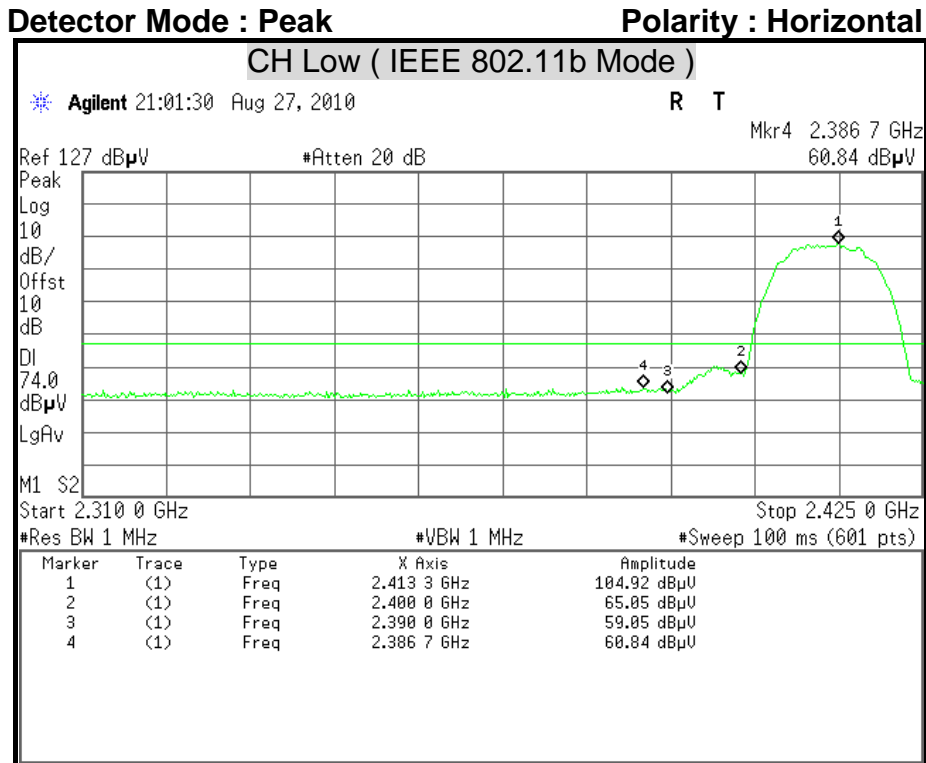
966 Chamber_A at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1276.00	51.49	---	-3.65	47.84	---	74.00	54.00	-26.16	Peak
1384.00	52.08	---	-3.32	48.76	---	74.00	54.00	-25.24	Peak
1596.00	49.95	---	-2.17	47.78	---	74.00	54.00	-26.22	Peak
2126.00	45.29	---	1.39	46.68	---	74.00	54.00	-27.32	Peak
2382.00	52.78	40.31	1.90	54.68	42.21	74.00	54.00	-11.79	AVG
2462.00	101.23	88.50	2.06	103.29	90.56	---	---	---	Carrier
3285.00	44.00	---	3.31	47.31	---	74.00	54.00	-26.69	Peak
4537.50	41.13	---	6.51	47.64	---	74.00	54.00	-26.36	Peak
5655.00	41.08	---	7.19	48.27	---	74.00	54.00	-25.73	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. 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.
6. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(PK)
Remark AVG = Result(AV) - Limit(AV)



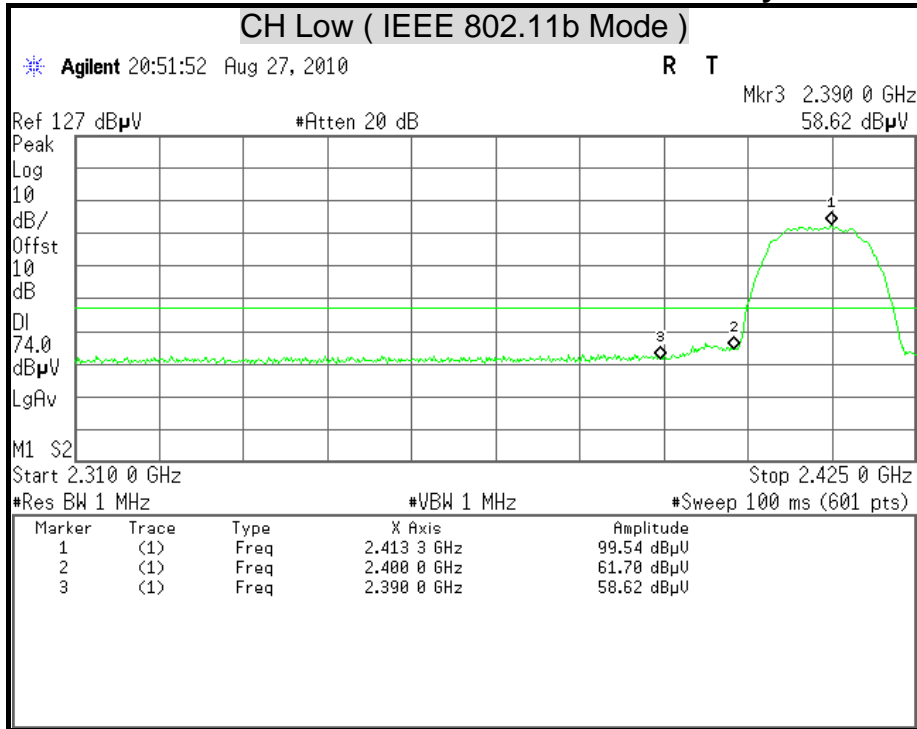
Restricted Band Edges





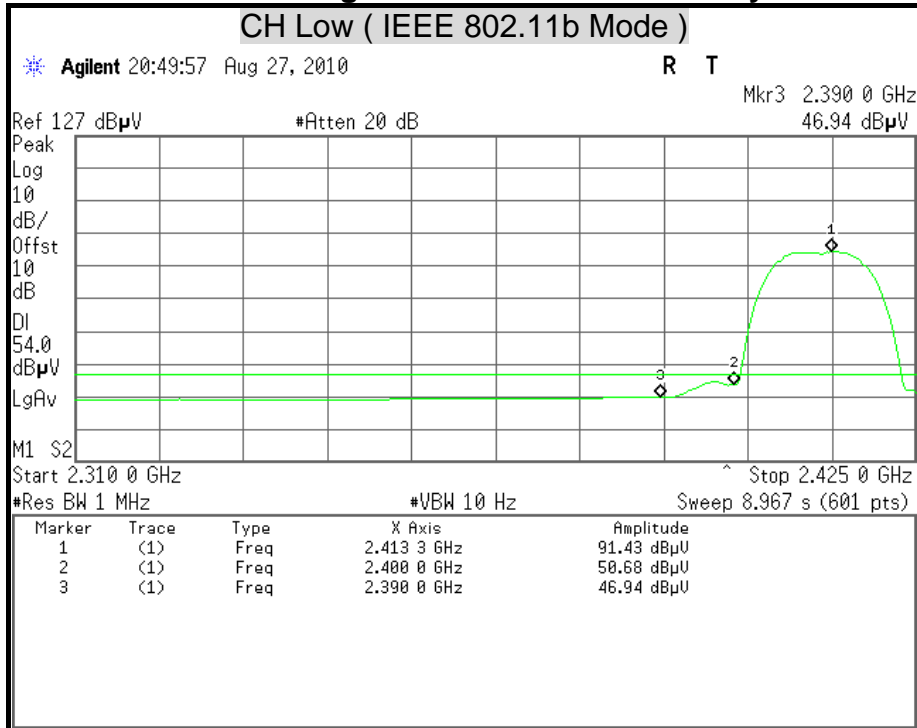
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

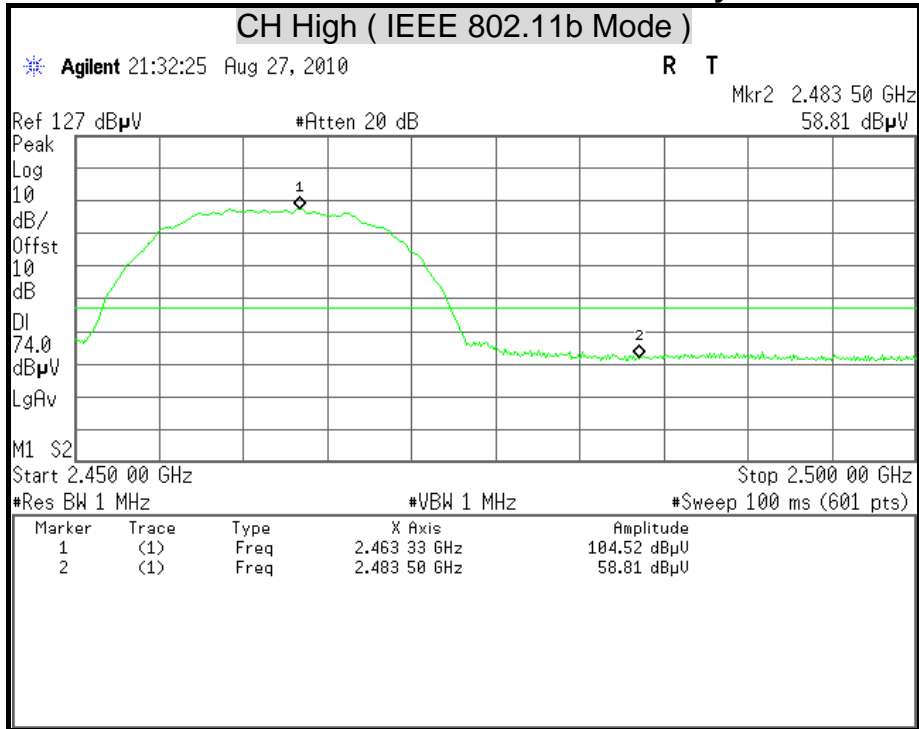
Polarity : Vertical





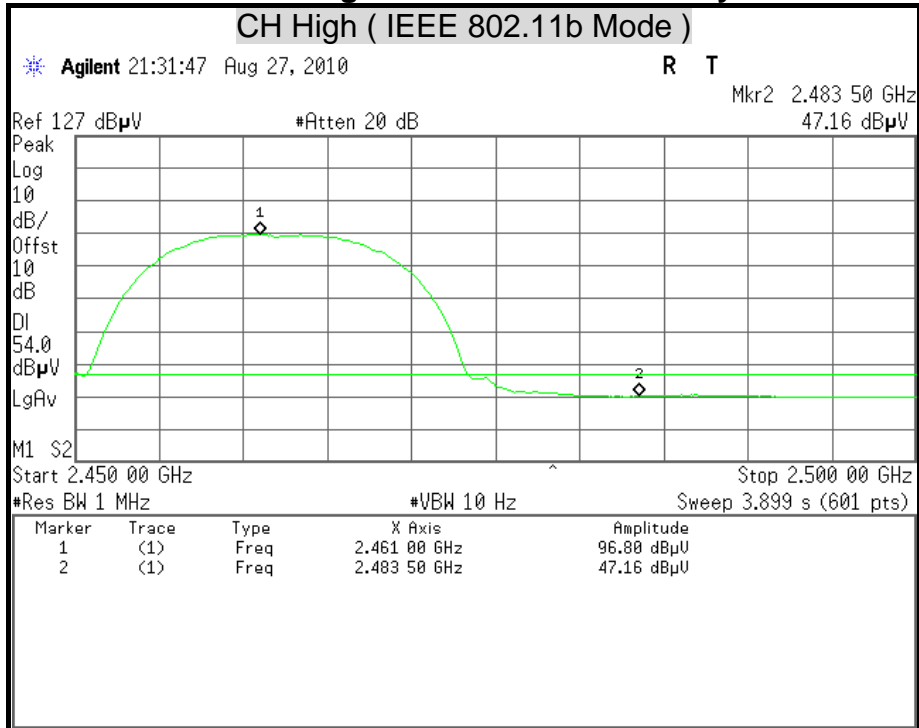
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

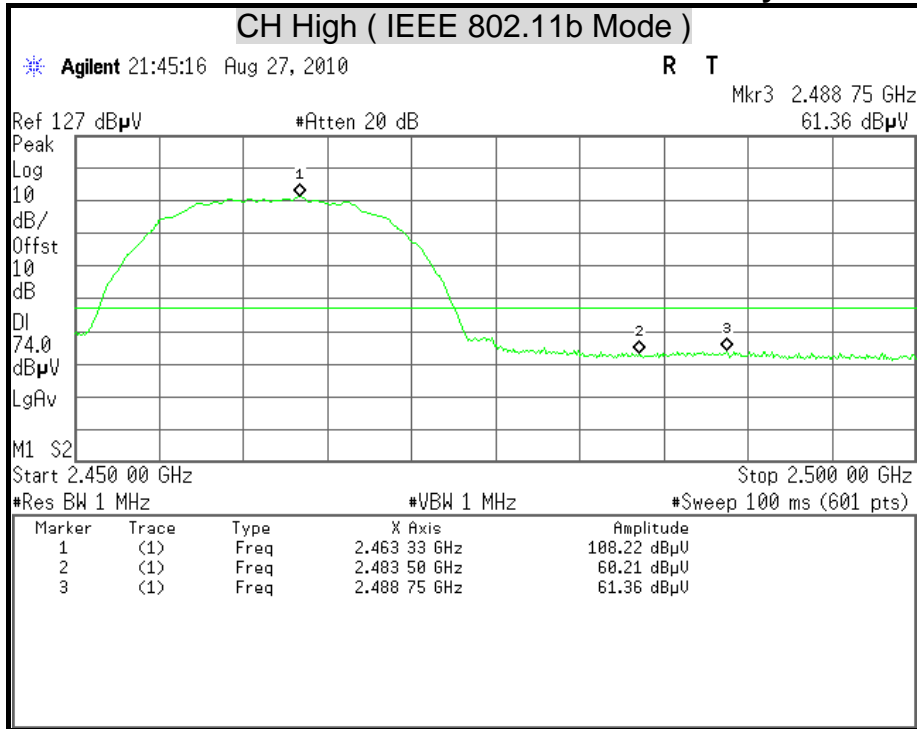
Polarity : Horizontal





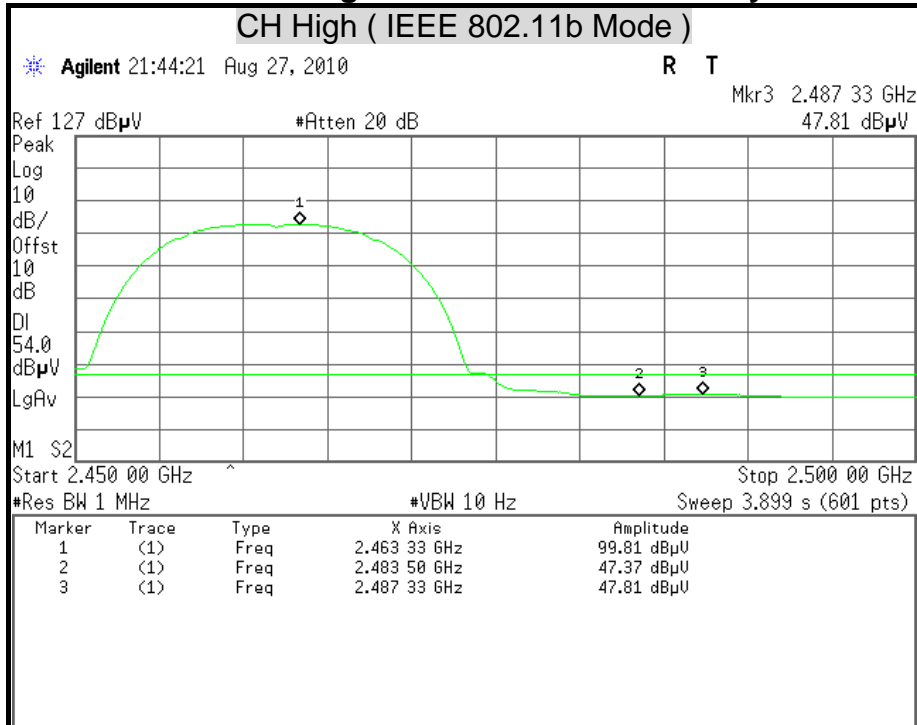
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

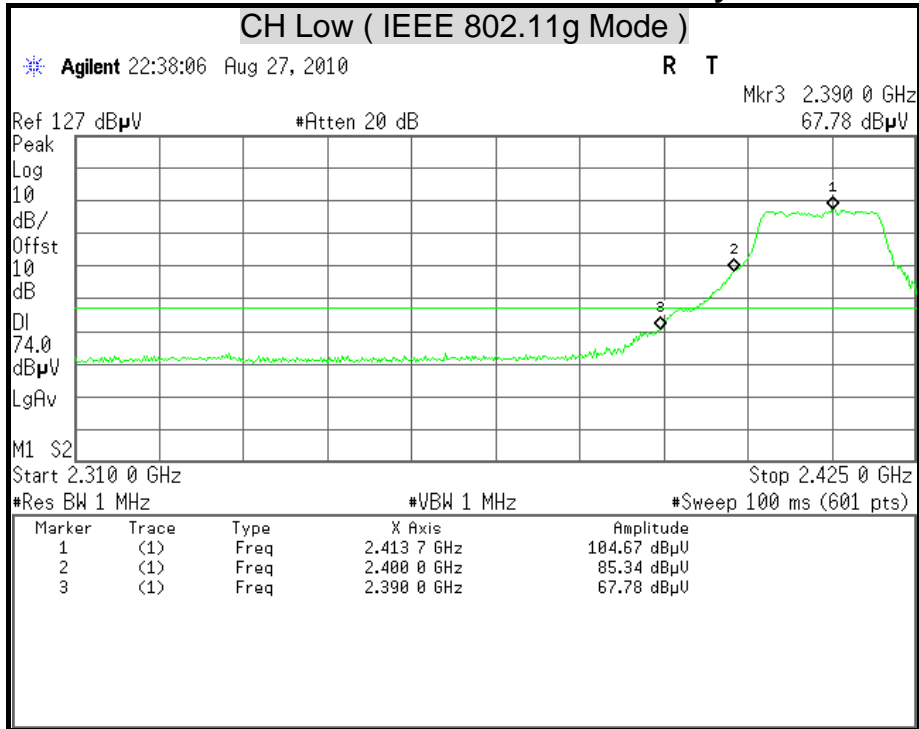
Polarity : Vertical





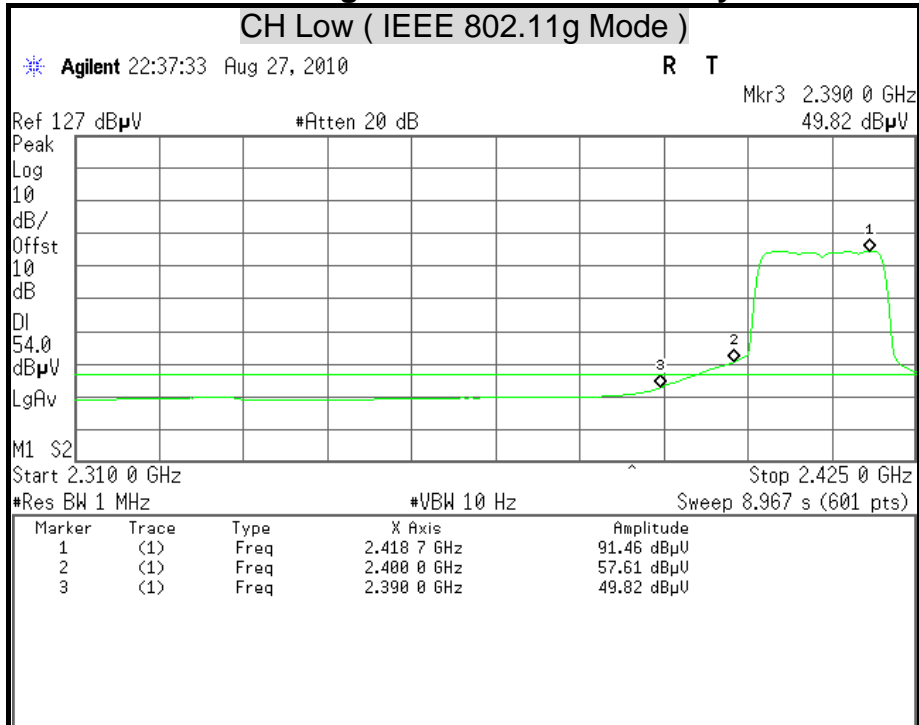
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

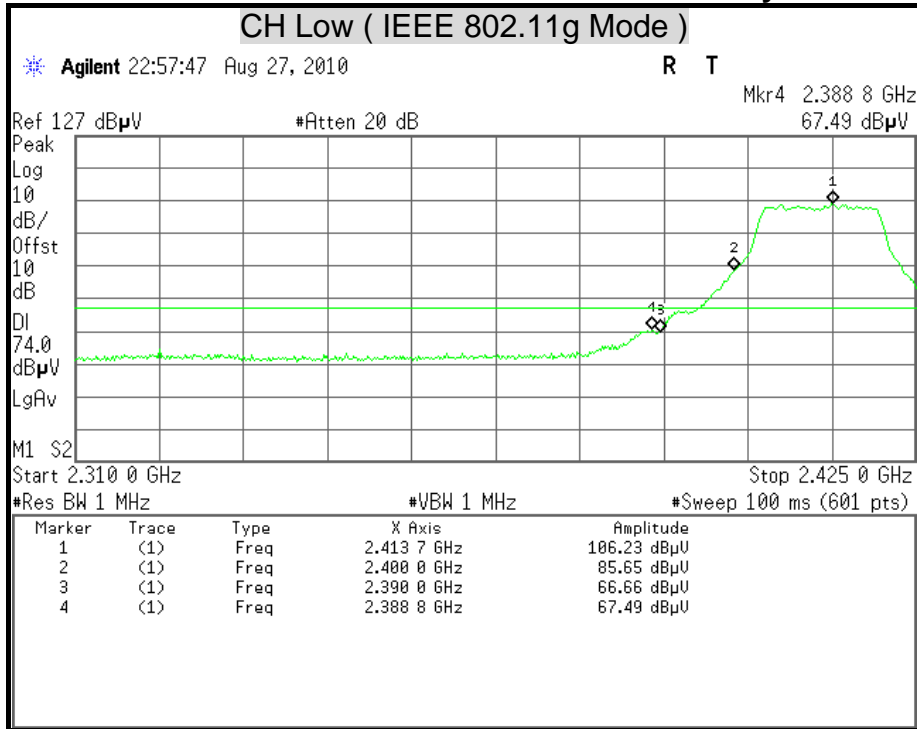
Polarity : Horizontal





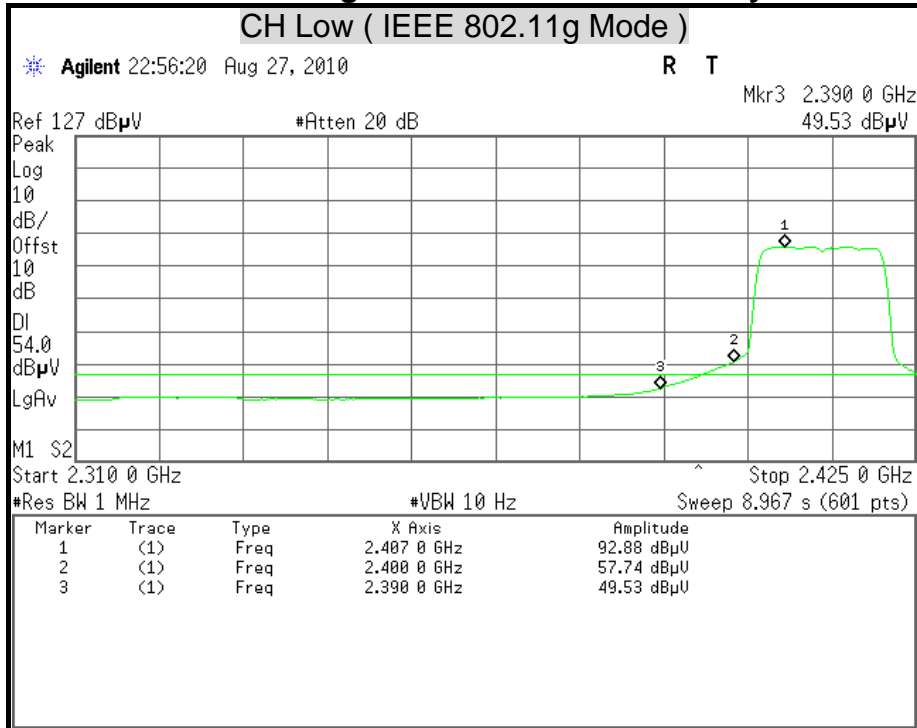
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

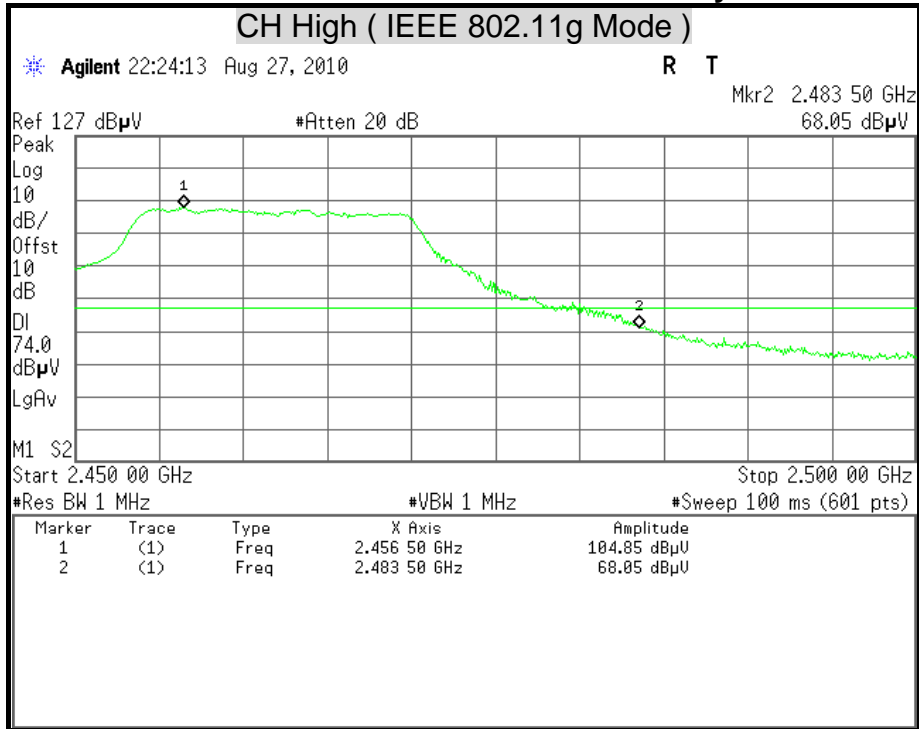
Polarity : Vertical





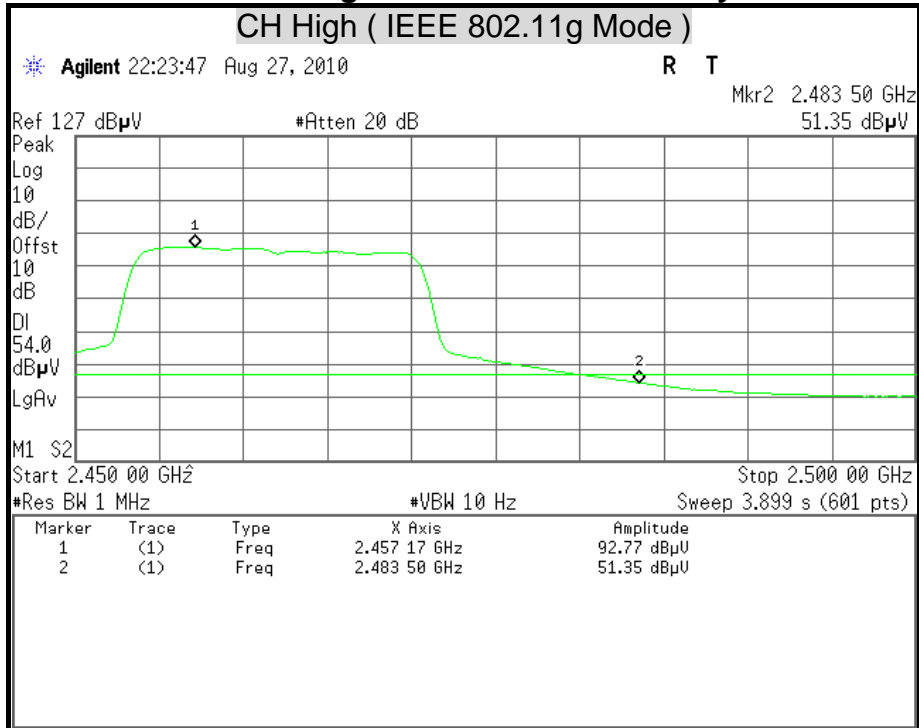
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

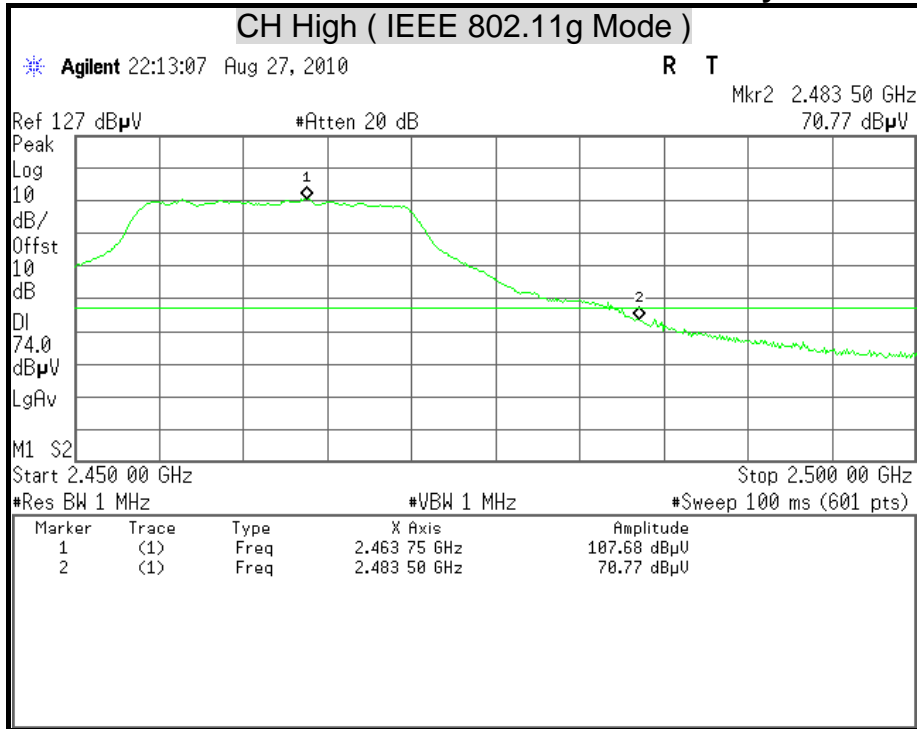
Polarity : Horizontal





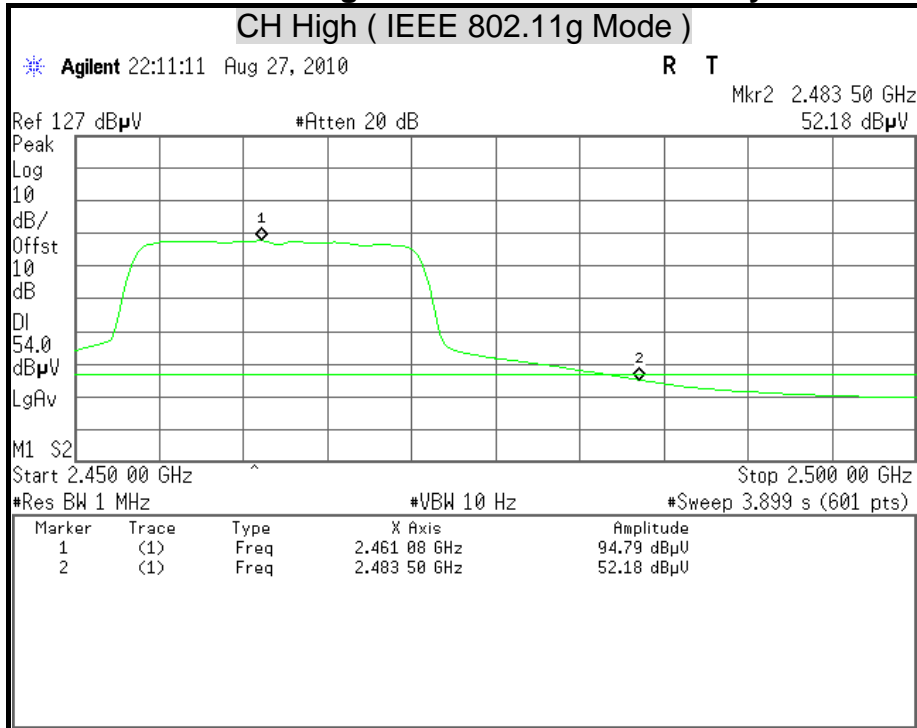
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

Polarity : Vertical





7.7 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dB μ v)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

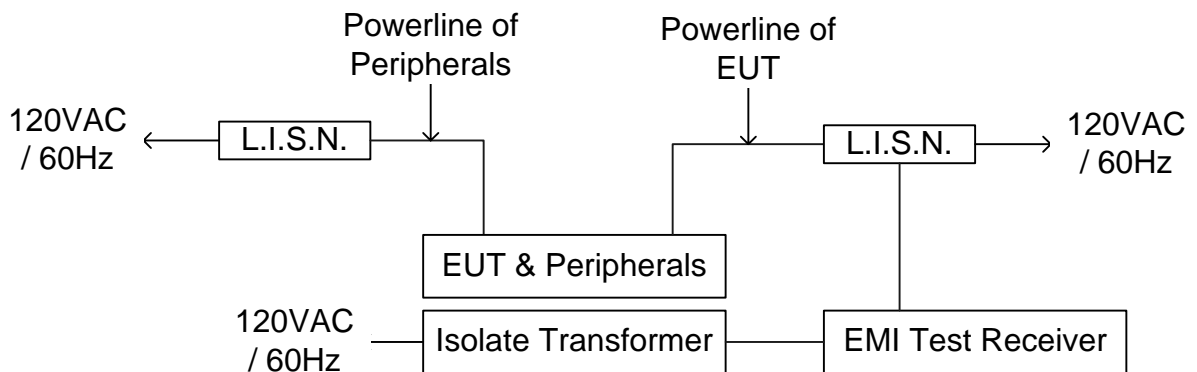
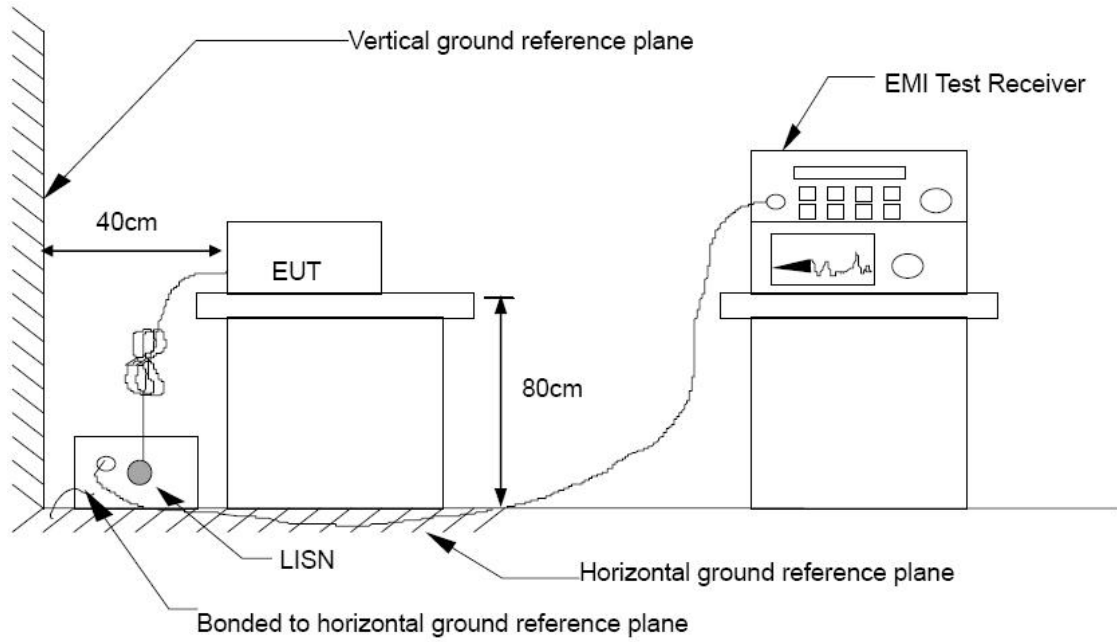
TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-465	08/08/2011
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-473	03/22/2011
EMI Test Receiver	ROHDE & SCHWARZ	ESCS 30	835418/008	10/27/2010
Pulse Limit	ROHDE & SCHWARZ	ESH3-Z2	100117	09/17/2010
N Type Coaxial Cable	BELDEN	8268 M17/164	003	07/09/2011

Remark: Each piece of equipment is scheduled for calibration once a year.



TEST SETUP





TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2003.

The test procedure is performed in a 4m x 3m x 2.4m (LxWxH) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) x 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

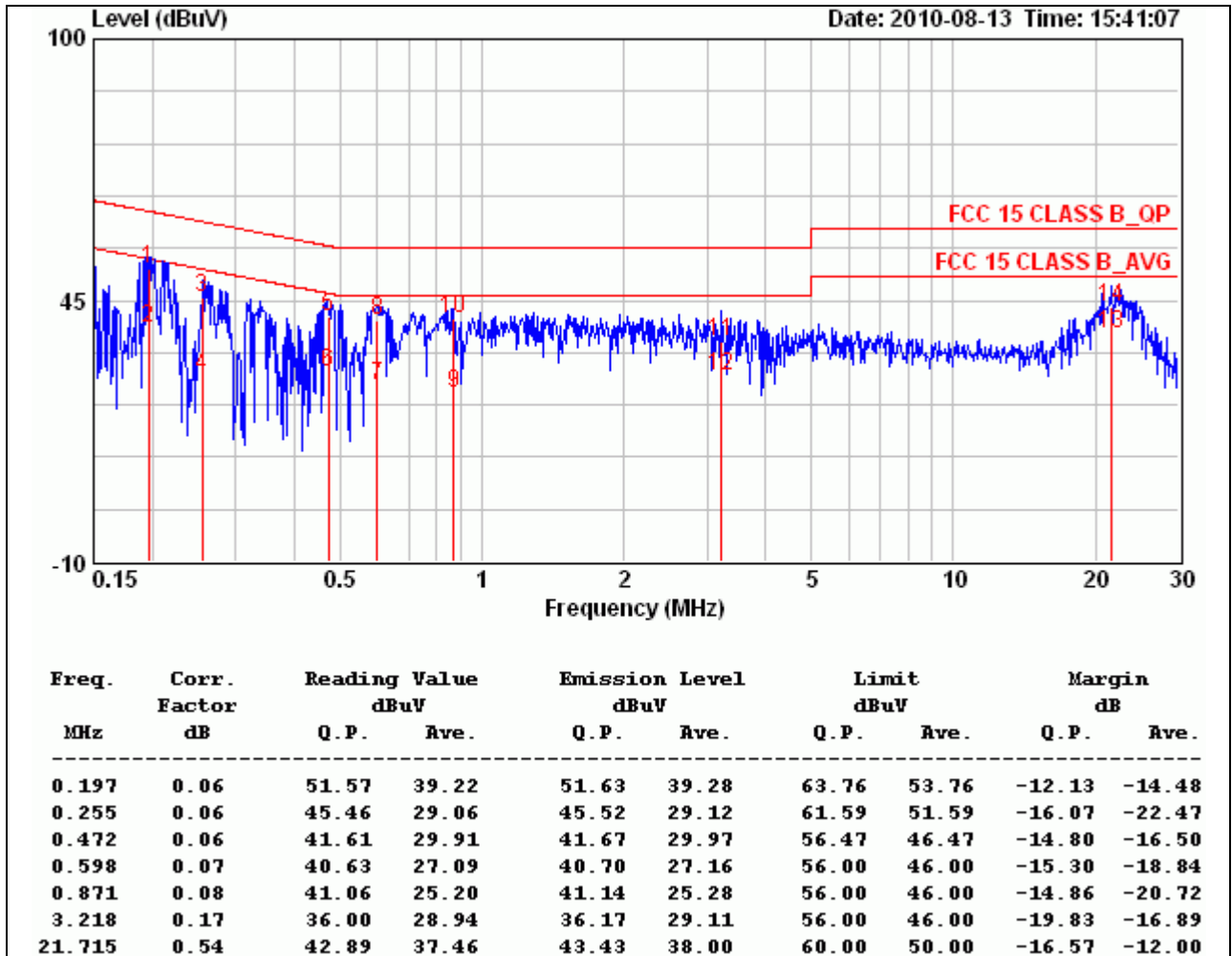
The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.



TEST RESULTS

Product Name	Battery Charger with FLO TV™	Test By	Benny Wu
Model	FLTVUX	Test Date	2010/08/13
Test Mode	Charge mode	TEMP & Humidity	23.5°C, 61%

LINE



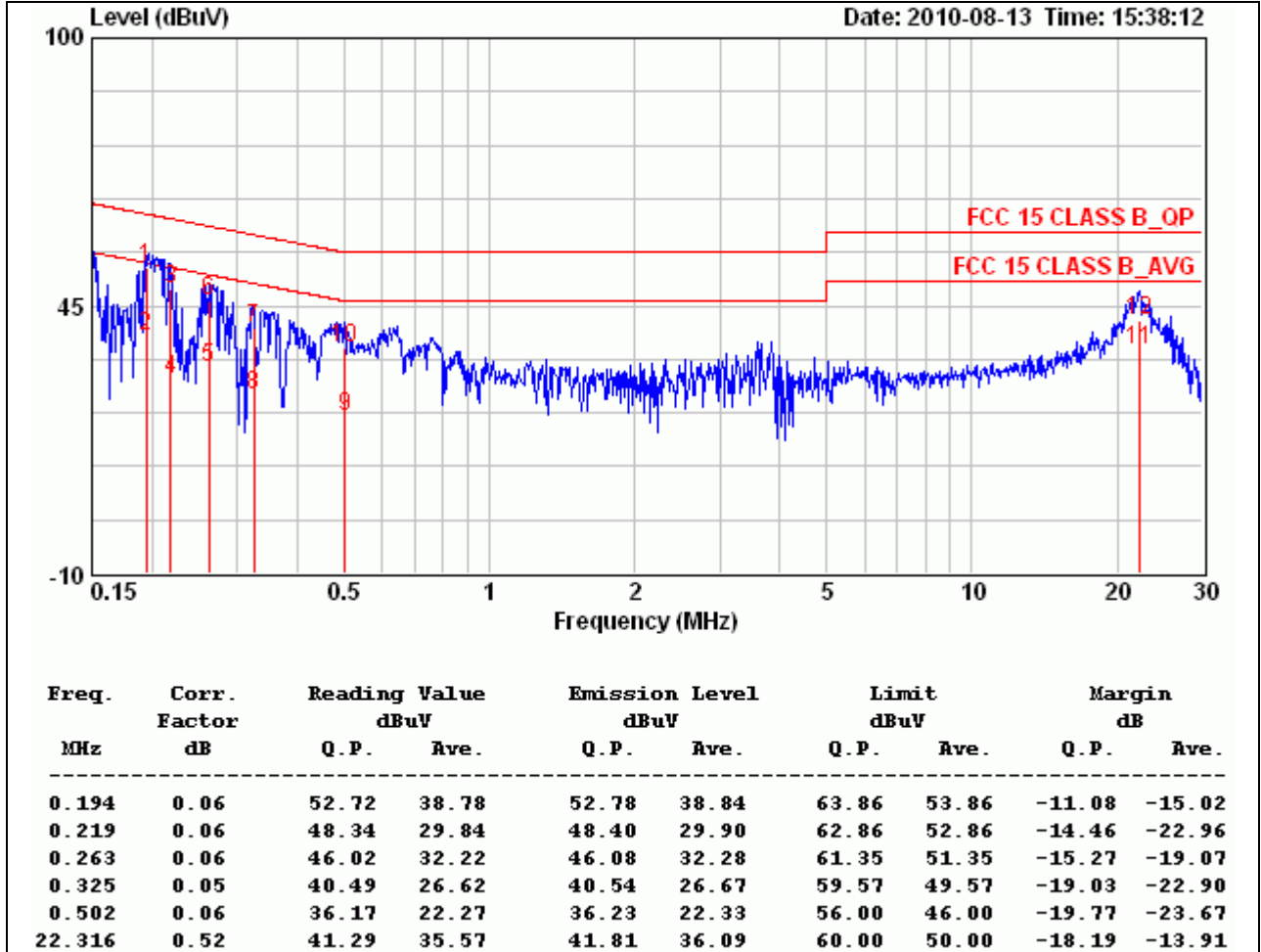
Remark:

1. Correction Factor = Insertion loss + cable loss
2. Margin value = Emission level – Limit value



Product Name	Battery Charger with FLO TV™	Test By	Benny Wu
Model	FLTVUX	Test Date	2010/08/13
Test Mode	Charge mode	TEMP & Humidity	23.5°C, 61%

NEUTRAL



Remark:

1. Correction Factor = Insertion loss + cable loss
2. Margin value = Emission level – Limit value



APPENDIX I MAXIMUM PERMISSIBLE EXPOSURE

According to FCC 1.1310 : The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time
(A) Limits for Occupational / Control Exposures				
300-1,500	--	--	F/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population / Uncontrol Exposures				
300-1,500	--	--	F/1500	6
1,500-100,000	--	--	1	30

CALCULATIONS

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where *E* = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$

Where *d* = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²



LIMIT

Power Density Limit, $S=1.0\text{mW}/\text{cm}^2$

TEST RESULTS

Mode	Antenna Gain (dBi)	Minimum separation distance (cm)	Output Power (dBm)	Numeric antenna gain (mW)	Power Density Limit (mW/cm^2)	Power Density at 20cm (mW/cm^2)
IEEE 802.11b	4.4	20.0	10.98	2.75	1.00	0.006866
IEEE 802.11g	4.4	20.0	11.26	2.75	1.00	0.007324

Remark: For mobile or fixed location transmitters, the maximum power density is $1.0\text{ mW}/\text{cm}^2$ even if the calculation indicates that the power density would be larger.