Date of Issue: September 13, 2007

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Terminal

Model: M0010

Trade Name: CipherLAB

Issued to

Cipherlab Co., Ltd. 12F, 333 Dunhua S. Rd., Sec. 2, Taipei 106, Taiwan R.O.C.

Issued by

Compliance Certification Services Inc.
No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang,
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1. TEST RESULT CERTIFICATION

Applicant: Cipherlab Co., Ltd.

12F, 333 Dunhua S. Rd., Sec. 2,

Taipei 106, Taiwan R.O.C.

Equipment Under Test: Terminal

Trade Name: CipherLAB

Model Number: M0010

Date of Test: August 29 ~ September 10, 2007

APPLICABLE STANDARDS					
STANDARD TEST RESULT					
FCC 47 CFR Part 15 Subpart C	No non-compliance noted				

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.225.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Reviewed by:

S.C. Wang

Executive Vice President

Compliance Certification Services Inc.

Miller Lee

Deputy Manager of Linkou Laboratory Compliance Certification Services Inc.

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2. EUT DESCRIPTION

Product	Terminal
Trade Name	CipherLAB
Model Number	M0010
Model Difference	N/A
Power Supply	LEADER ELECTRONICS INC. / NU40-2060330-I3 I/P: 100-240V, 1.2A, 50-60Hz O/P: 6.0V, 3.3A
Frequency Range	13.56MHz
Modulation Technique	AM/PM
Antenna Specification	Loop Antenna

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: <u>Q3N-M0010</u> filing to comply with Section 15.227 of the FCC Part 15, Subpart C Rules.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.225.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

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3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(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 -	2483.5 - 2500	17.7 - 21.4	
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12	
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0	
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8	
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5	
12.57675 - 12.57725	240 - 285	3600 - 4400	$\binom{2}{}$	
13.36 - 13.41	322 - 335.4			

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

(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.

3.5 DESCRIPTION OF TEST MODES

The EUT (model: M0010) had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z mode), lie-down position (X, Y mode) and docking mode. The worst emission was found in docking mode for powerline conducted emissions, Z mode with docking mode for radiation emissions and the worst case was recorded.

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² Above 38.6

4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

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

3M Semi Anechoic Chamber								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilnet	E4411B	MY41440314	N.C.R				
Spectrum Analyzer	R&S	FSP30	100112	09/12/2008				
EMI Test Receiver	R&S	ESVS20	838804/004	01/18/2008				
Pre-Amplifier	Anritsu	MH648A	M18767	08/31/2008				
Pre-Amplifier	MITEQ	AFS42-00102650 -42-10P-42	924206	04/27/2008				
Bilog Antenna	SCHWAZBECK	VULB9163 144		03/31/2008				
Horn Antenna	EMCO	3115 00022250		04/16/2008				
Loop Antenna	EMCO	6502	2356	08/31/2008				
Turn Table	Chance Most	CM-T003-1	T807-6	N.C.R				
Antenna Tower	Chance Most	CM-A003-1	A807-6	N.C.R				
Controller	CCS	CC-C-1F	N/A	N.C.R				
RF Switch	ANRITSU	MP59B	M53867	N.C.R				
Site NSA	CCS	N/A	N/A	05/05/2008				
Test S/W LABVIEW (V 6.1)								

Remark: The measurement uncertainty is less than +/-2.0065dB (30MHz ~ 1GHz), +/-3.0958dB (Above 1GHz) which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

Powerline Conducted Emissions Test Site								
Name of Equipment Manufacturer Model Serial Number Calibration D								
EMI Test Receiver	R&S	ESCS30	845552/030	03/21/2008				
LISN	R&S	ESH2-Z5	843285/010	01/04/2008				
LISN	R&S ESH3-Z5 848773/014 10/24/2007							
Test S/W	LABVIEW (V 6.1)							

Remark: The measurement uncertainty is less than +/- 2.81dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All m	neasurement facilities used to collect the measurement data are located at
	No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C. Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
	No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan Cel: 886-2-2299-9720 / Fax: 886-2-2298-4045
	No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	EN 55011, EN 55014-1/2, CISPR 11, CISPR 14-1/2, EN 55022, EN 55015, CISPR 22, CISPR 15, AS/NZS 3548, VCCI V3 (2001), CFR 47, FCC Part 15/18, CNS 13783-1, CNS 13439, CNS 13438, CNS 13803, CNS 14115, EN 55024, IEC 801-2, IEC 801-3, IEC 801-4, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61000-4-2/3/4/5/6/8/11, EN 50081-1/EN 61000-6-3, EN 50081-2/EN 61000-6-4, EN 50081-2/EN 61000-6-1: 2001	ACCREDITED No. 0824-01
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	FC 93105, 90471
Japan	VCCI	3/10 meter Open Area Test Sites and conducted test sites to perform radiated/conducted measurements	VCCI R-2541/2316/725/1868 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328-2, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	ELA 124a ELA 124b ELA 124c
Taiwan	TAF	EN 300 328-1, EN 300 328-2, EN 300 220-1, EN 300 220-2, EN 300 220-3, 47 CFR FCC Part 15 Subpart C, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 14115, CNS 13438, AS/NZS CISPR 22, CNS 13022-1, IEC 61000-4-2/3/4/5/6/8/11, CNS 13022-2/3	Testing Laboratory 0363
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	SL2-IS-E-0014 / IN-E-0014 /A1-E-0014 /R1-E-0014 /R2-E-0014 /L1-E-0014
Canada	Industry Canada	RSS212, Issue 1	Canada IC 2324C-3 IC 2324C-5

Note: No part of this report may be used to claim or imply product endorsement by A2LA, TAF or other government agency.

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6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Cradle	CipherLAB	A0010	N/A	N/A	N/A	N/A

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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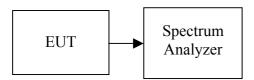
7. FCC PART 15.225 REQUIREMENTS

7.1 20 DB BANDWIDTH

LIMIT

None; for reporting purposes only.

Test Configuration

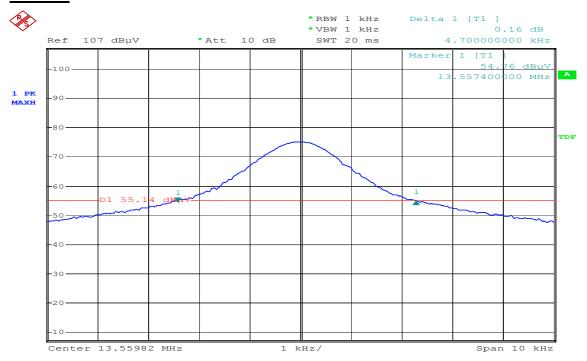


TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
- 4. Mark the peak frequency and 20dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

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Test Plot



Date: 3.SEP.2007 13:32:27

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7.2 RADIATED EMISSIONS

LIMIT

According to §15.225,

- (a) The field strength of any emissions within the band 13.553 13.567 MHz shall not exceed 15,848 microvolts / meter at 30 meters.
- (b) Within the bands 13.410 13.553 MHz and 13.567 -13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts / meter at 30 meters.
- (c) Within the bands 13.110 13.410 MHz and 13.710 14.010 MHz the field strength of any emissions shall not exceed 106 microvolts / meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110 14.010 MHz and shall not exceed the general radiated emission limits in §15.209.

According to §15.225(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:

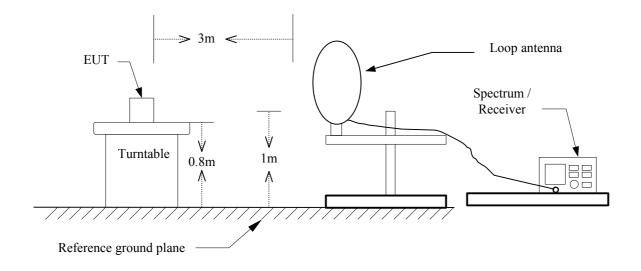
	-	_
Frequency (MHz)	Field Strength (μV/m at meter)	Measurement Distance (meter)
0.009 - 0.490	2400 / F (kHz)	300
0.490 - 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

^{**} 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.

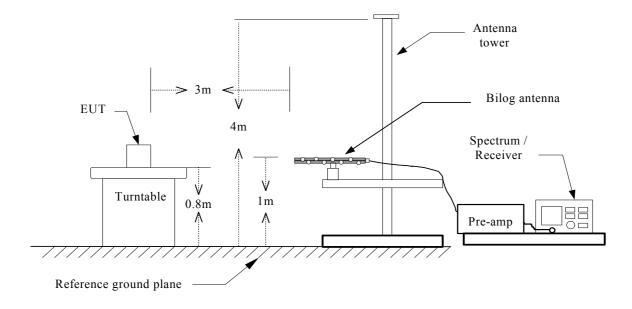
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Test Configuration

9kHz ~ 30MHz



30MHz ~ **1 GHz**



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TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

Operation Mode:TX modeTest Date:2007/8/31Temperature:26°CTested by:Arno HsiehHumidity:55 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Detector Mode (PK/QP/AVG)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)
13.56	V	Peak	64.17	11.62	75.79	124.00	-48.21
13.56	V	AV	63.91	11.62	75.53	104.00	-28.47
69.80	V	Peak	10.54	10.03	20.57	40.00	-19.43
118.94	V	Peak	12.19	12.12	24.31	43.50	-19.19
159.48	V	Peak	9.26	10.45	19.72	43.50	-23.78
319.48	V	Peak	9.49	15.91	25.40	46.00	-20.60
508.71	V	Peak	8.24	19.76	28.01	46.00	-17.99
614.28	V	Peak	2.25	21.79	24.03	46.00	-21.97
13.56	Н	Peak	55.50	11.62	67.12	124.00	-56.88
13.56	Н	AV	55.08	11.62	66.70	104.00	-37.30
154.85	Н	Peak	9.84	10.32	20.16	43.50	-23.34
295.78	Н	Peak	10.93	15.25	26.18	46.00	-19.82
319.53	Н	Peak	15.74	15.91	31.65	46.00	-14.35
331.75	Н	Peak	11.62	16.26	27.88	46.00	-18.12
516.10	Н	Peak	1.27	19.91	21.19	46.00	-24.81
700.93	Н	Peak	4.89	22.22	27.11	46.00	-18.89

Remark:

- 1. Measuring frequencies from 9kHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 9kHz to 1000MHz were made with an instrument using peak/quasi-peak/average detector mode.
- 3. 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.
- 4. Margin(dB) = Result(dBuV/m) Limit(dBuV/m).

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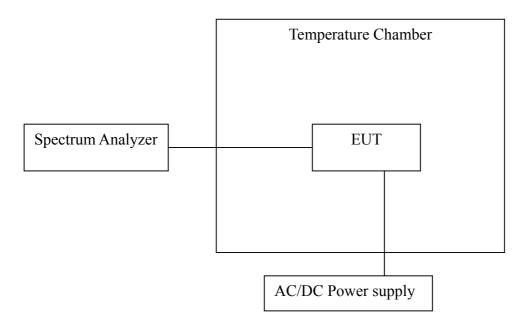
7.2.1 FREQUENCY STABILITY

LIMIT

According to §15.207(e), the frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of –20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Configuration

Temperature and Voltage Measurement (under normal and extreme test conditions)



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the environment into appropriate environment.
- 4. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
- 5. Mark the peak frequency and measure the frequency tolerance using frequency counter function.
- 6. Repeat until all the results are investigated.

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TEST RESULTS

No non-compliance noted

Temperature Variations

Temp.	Voltage (V)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (%)	Limit (±%)	Margin (%)	Result (Pass/Fail)
-20		13.559966	-34	-0.000251	0.01	-0.009749	Pass
-10		13.559953	-47	-0.000347	0.01	-0.009653	Pass
0		13.559899	-101	-0.000745	0.01	-0.009255	Pass
10	3.9	13.559846	-154	-0.001136	0.01	-0.008864	Pass
20	3.9	13.559859	-141	-0.001040	0.01	-0.008960	Pass
30		13.559819	-181	-0.001335	0.01	-0.008665	Pass
40		13.559792	-208	-0.001534	0.01	-0.008466	Pass
50		13.559806	-194	-0.001431	0.01	-0.008569	Pass

Voltage Variations

voltage variations								
Temp. (°C)	Voltage (V)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (%)	Limit (±%)	Margin (%)	Result (Pass/Fail)	
20	3.7	13.559851	-149	-0.001099	0.01	-0.008901	Pass	
	3.9	13.559859	-141	-0.001040	0.01	-0.008960	Pass	
	4.2	13.559856	-144	-0.001062	0.01	-0.008938	Pass	

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7.3 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of 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)	Limits (dBμV)				
(MIIIZ)	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

^{*} Decreases with the logarithm of the frequency.

Test Procedure

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Operation Mode: Normal Link Test Date: 2007/9/10
Temperature: 28°C Tested by: Arno Hsieh

Humidity: 56% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.17	36.66	19.54	0.20	36.86	19.74	64.96	54.96	-28.10	-35.22	L1
0.21	35.32	15.23	0.20	35.52	15.43	63.21	53.21	-27.69	-37.78	L1
0.27	30.90	14.00	0.20	31.10	14.20	61.12	51.12	-30.02	-36.92	L1
0.45	26.50	14.11	0.15	26.65	14.26	56.88	46.88	-30.23	-32.62	L1
4.53	15.92	1.64	0.37	16.29	2.01	56.00	46.00	-39.71	-43.99	L1
13.55	37.67	12.66	1.18	38.85	13.84	60.00	50.00	-21.15	-36.16	L1
0.17	40.57	19.77	0.20	40.77	19.97	64.96	54.96	-24.19	-34.99	L2
0.27	30.08	12.30	0.20	30.28	12.50	61.12	51.12	-30.84	-38.62	L2
0.31	28.43	11.90	0.20	28.63	12.10	59.97	49.97	-31.34	-37.87	L2
0.45	26.90	12.49	0.15	27.05	12.64	56.88	46.88	-29.83	-34.24	L2
4.69	14.35	4.34	0.29	14.64	4.63	56.00	46.00	-41.36	-41.37	L2
13.57	46.16	21.86	1.01	47.17	22.87	60.00	50.00	-12.83	-27.13	L2

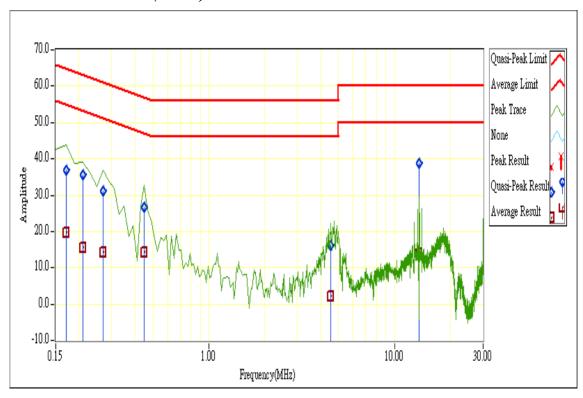
Remark:

- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz;
- 4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

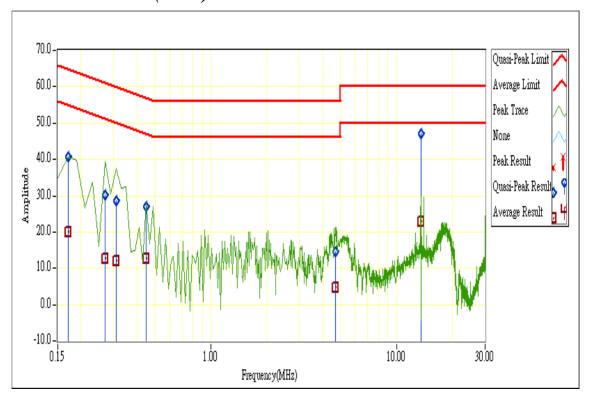
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Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



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