

FCC&IC Radio Test Report

FCC ID: EMOHWL83

IC: 986B-HWL83

This report concerns (check one): Original Grant Class I Change Class II Change

Project No. : 1601C013
Equipment : Wireless Charging Clock Speaker with Dual USB Charging
Model Name for FCC : HWL83, HWL83B, HWL83X("X" denote as color of cabinet)
Model Name for IC : HWL83
Applicant : SDI TECHNOLOGIES INC.
Address : 1299 Main Street, Rahway, NJ 07065, U.S.A

Date of Receipt : Jan. 04, 2016
Date of Test : Jan. 04, 2016 ~ Feb. 03, 2016
Issued Date : Feb. 04, 2016
Tested by : BTL Inc.

Testing Engineer : Shawn Xiao
(Shawn Xiao)

Technical Manager : David Mao
(David Mao)

Authorized Signatory : Steven Lu
(Steven Lu)

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FICP-2-1601C013	Original Issue.	Feb. 04, 2016

1. CERTIFICATION

Equipment : Wireless Charging Clock Speaker with Dual USB Charging
Brand Name : iHome
Model Name for FCC : HWL83, HWL83B, HWL83X("X" denote as color of cabinet)
Model Name for IC : HWL83
Applicant : SDI TECHNOLOGIES INC.
Manufacturer : SDI TECHNOLOGIES INC.
Address : 1299 Main Street, Rahway, NJ 07065, U.S.A
Factory Address : DONGGUAN FINEMOST ELECTRONICS CO., LTD
Address : 46 Shangxing Road, Shangjiao, Chang-An Town, Dongguan City, Guangdong, P.R.China
Date of Test : Jan. 04, 2016 ~ Feb. 03, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C/ ANSI C63.10-2013
RSS-216 Issue 2 January 2016
RSS-GEN Issue 4, Nov 2014

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FICP-2-1601C013) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): 47 CFR Part 15, Subpart C; RSS-216 Issue 2 January 2016, RSS-GEN Issue 4, Nov 2014				
Standard(s) Section		Test Item	Judgment	Remark
FCC	IC			
15.207(a)	RSS-GEN 8.8	AC power line conducted emission	PASS	
15.209	RSS-GEN 8.9&8.10.	Radited Emission	PASS	
-	-	Occupied Bandwidth	PASS	

Note:

(1)" N/A" denotes test is not applicable in this test report

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Charging Clock Speaker with Dual USB Charging
Brand Name	iHome
Model Name for FCC	HWL83, HWL83B, HWL83X
Model Name for IC	HWL83
Model Difference	“X” denote as color of cabinet.
Operation Frequency	110kHz-205kHz
Field Strength	27.8dBuV/3m
Power Source	#1 DC voltage supplied from AC Adapter. Brand/Model: iHome / GQ30-090300-AU #2 Supplied from AA*2 battery. (for clock)
Power Rating	#1 I/P: AC100-240V 50/60Hz 1.0A Max O/P: DC9V 3A #2 I/P: DC 3V(for clock)

Note:

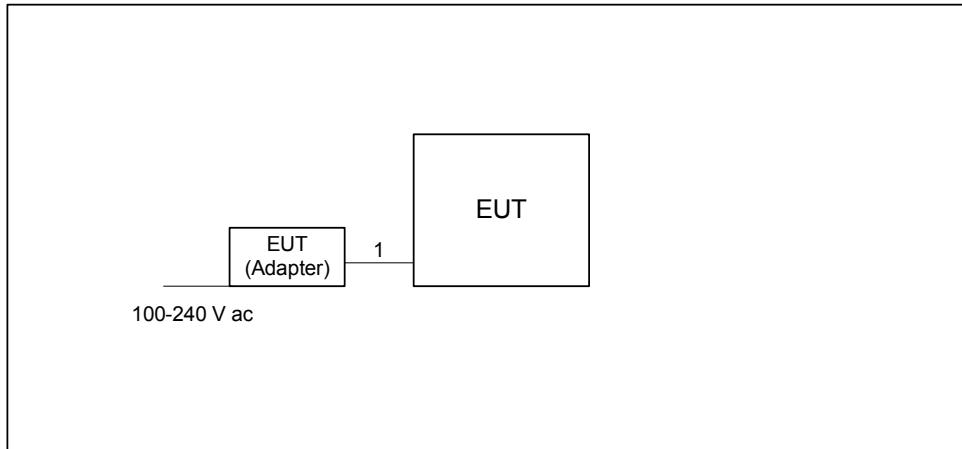
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal operation
For AC power line conducted emission test	
Final Test Mode	Description
Mode 1	Normal operation
For Radiated Emission test	
Final Test Mode	Description
Mode 1	Normal operation
For Occupied Bandwidth test	
Final Test Mode	Description
Mode 1	Normal operation

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	YES	1.8m	DC Cable

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in m in 『Length』 column.

4. EMC EMISSION TEST

4.1 AC POWER LINE CONDUCTED EMISSION TEST

4.1.1 LIMIT

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 -30.0	60	50

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

Margin Level = Measurement Value - Limit Value

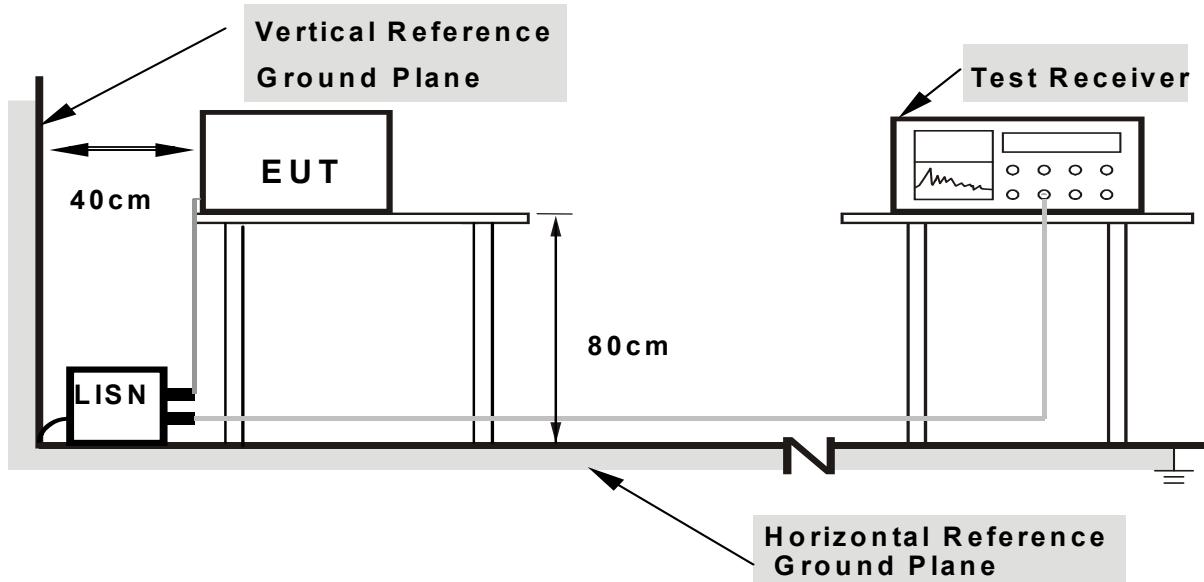
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform in this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.

4.2 RADIATED EMISSION TEST

4.2.1 LIMITS

General Field Strength Limits for Licence-Exempt Transmitters at Frequencies Below 30 MHz			
Frequencies (MHz)	Electric Field Strength (μ V/m)	Magnetic Field Strength (H-Field) (μ A/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/377F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/377F (F in kHz)	30
1,705-30 MHz	30	N/A	30

General Field Strength Limits for Licence-Exempt Transmitters at Frequencies Above 30 MHz	
Frequency (MHz)	Field Strength (μ V/m at 3 metres)*
30~88	100
88~216	150
216~960	200
Above 960	500

4.2.2 TEST PROCEDURE

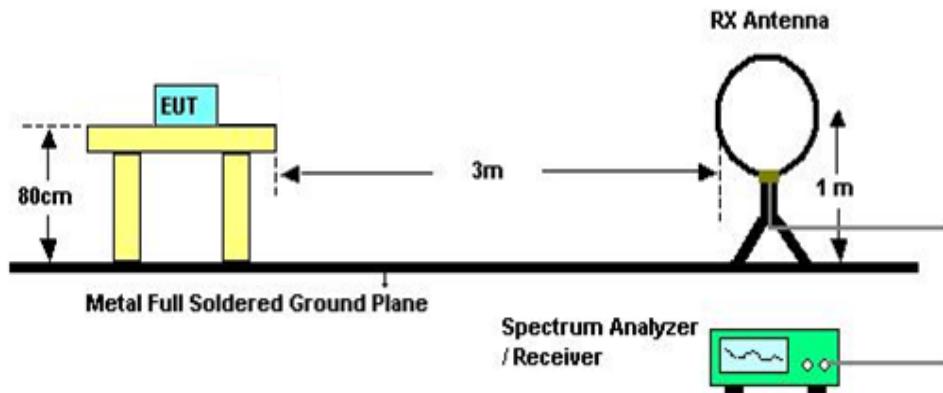
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- For the actual test configuration, please refer to the related Item - Block Diagram of system tested (please refer to 3.3).

4.2.3 DEVIATION FROM TEST STANDARD

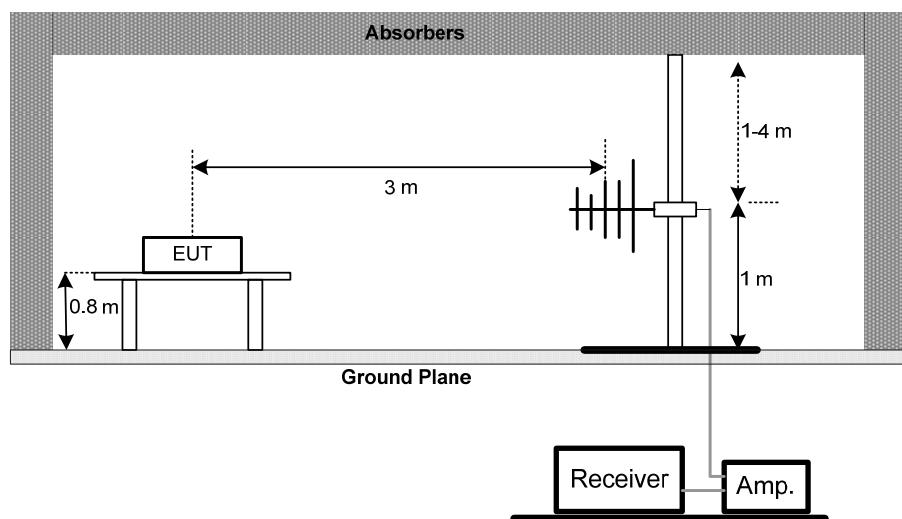
No deviation

4.2.4 TEST SETUP

(A) For Radiated Emissions Below 30MHz



(B) Radiated emission test set-up frequency 30MHz to 1000MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the related operation mode unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHz)

Please refer to the Attachment B.

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHz to 1000MHz)

Please refer to the Attachment C.

Remark:

- (1) Measuring frequency range from 30MHz to 1000MHz.
- (2) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

The emission bandwidth (\times dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated \times dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3 \times the resolution bandwidth.

When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be greater or equal 3 \times RBW.

Note: Video averaging is not permitted.

A peak, or peak hold, may be used in place of the sampling detector as this may produce a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold may be necessary to determine the occupied bandwidth if the device is not transmitting continuously.

The trace data points are recovered and are directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded.

The difference between the two recorded frequencies is the 99% occupied bandwidth.

5.2 TEST RESULTS

Please refer to the Attachment E.

6. MEASUREMENT INSTRUMENTS LIST

AC POWER LINE CONDUCTED EMISSION					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	emci	RG223(9KHz-30MHz)	C_17	Mar. 13, 2016
4	EMI Test Receiver	R&S	ESCS30	826547/022	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 28, 2016
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

RADIATED EMISSION					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 28, 2016
8	Amplifier	AGILENT	8449B	3008A02274	Nov. 01, 2016
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
10	Test Cable	emci	EMC104-SM-SM-10000(1GHz-26.5GHz)	C-68	Jun. 28, 2016
11	Controller	CT	SC100	N/A	N/A
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016

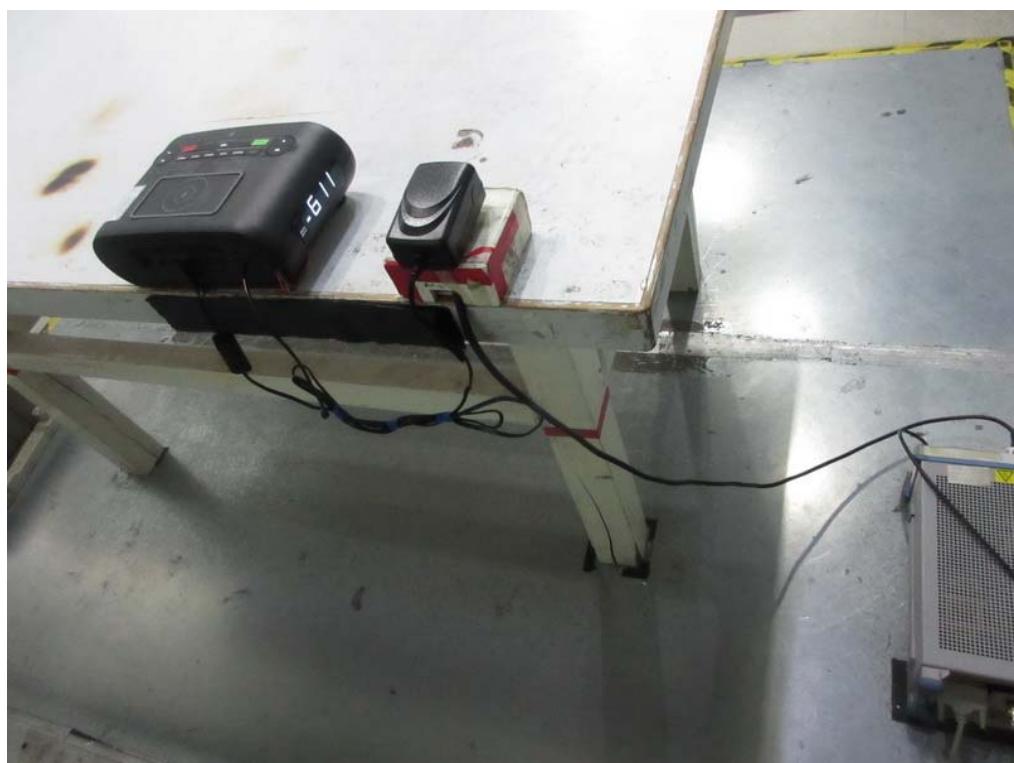
OCCUPIED BANDWIDTH					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-SM-9000(0.01GHz-26.5GHz)	C-100	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

7. EUT TEST PHOTO

AC power line conducted emission test photos



Radiated Emission test photos**9KHz to 30MHz**

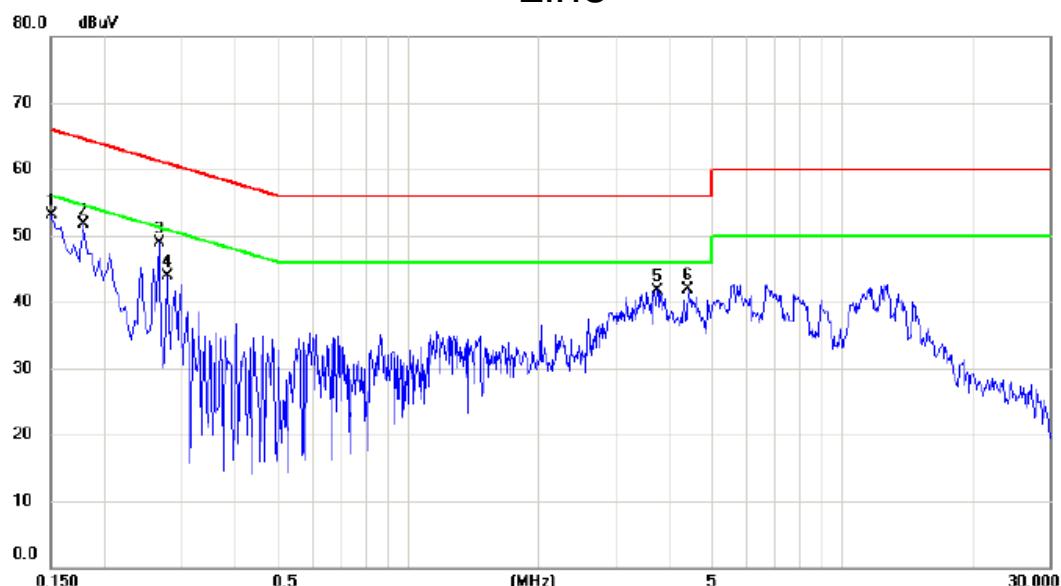
Radiated Emission test photos**30MHz to 1000MHz**

ATTACHMENT A - AC POWER LINE CONDUCTED EMISSION

Test Voltage:	AC 120V/60Hz
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Test Mode:	Normal operation
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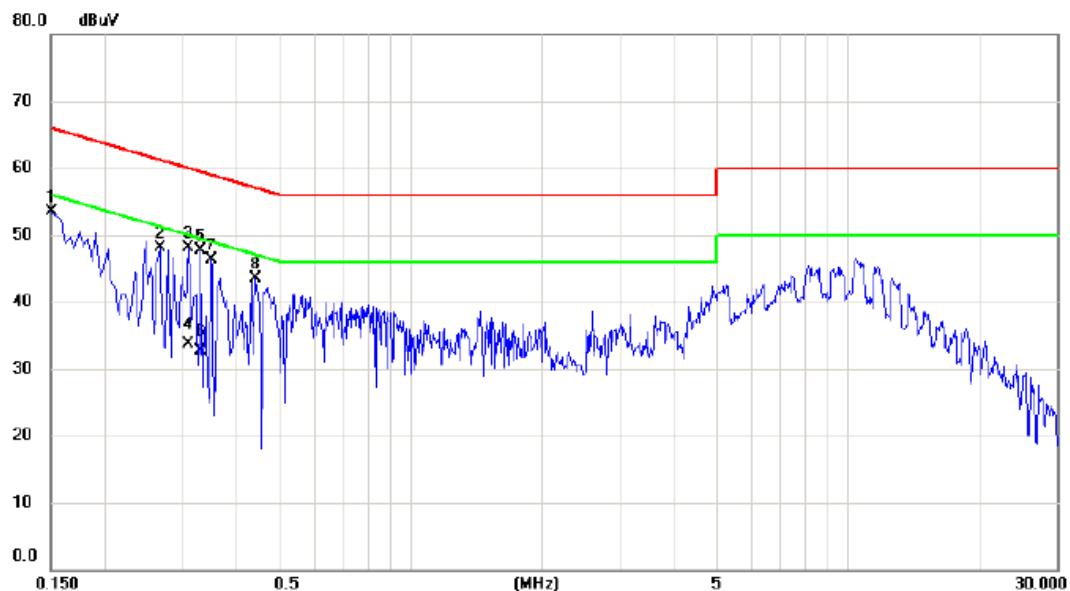
Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	43.57	9.54	53.11	66.00	-12.89		peak
2		0.1780	42.24	9.56	51.80	64.58	-12.78		peak
3	*	0.2660	39.22	9.62	48.84	61.24	-12.40		peak
4		0.2780	34.20	9.63	43.83	60.88	-17.05		peak
5		3.7420	31.82	9.98	41.80	56.00	-14.20		peak
6		4.4060	31.85	9.97	41.82	56.00	-14.18		peak

Test Voltage:	AC 120V/60Hz
Test Mode:	Normal operation

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.1500	43.93	9.49	53.42	66.00	-12.58	peak
2		0.2660	38.58	9.51	48.09	61.24	-13.15	peak
3		0.3100	38.54	9.52	48.06	59.97	-11.91	peak
4		0.3100	24.10	9.52	33.62	49.97	-16.35	AVG
5	*	0.3300	38.14	9.53	47.67	59.45	-11.78	peak
6		0.3300	23.20	9.53	32.73	49.45	-16.72	AVG
7		0.3500	36.86	9.53	46.39	58.96	-12.57	peak
8		0.4420	34.01	9.54	43.55	57.02	-13.47	peak

ATTACHMENT B - RADIATED EMISSION (9kHz to 30MHz)

Test Mode:	Normal operation
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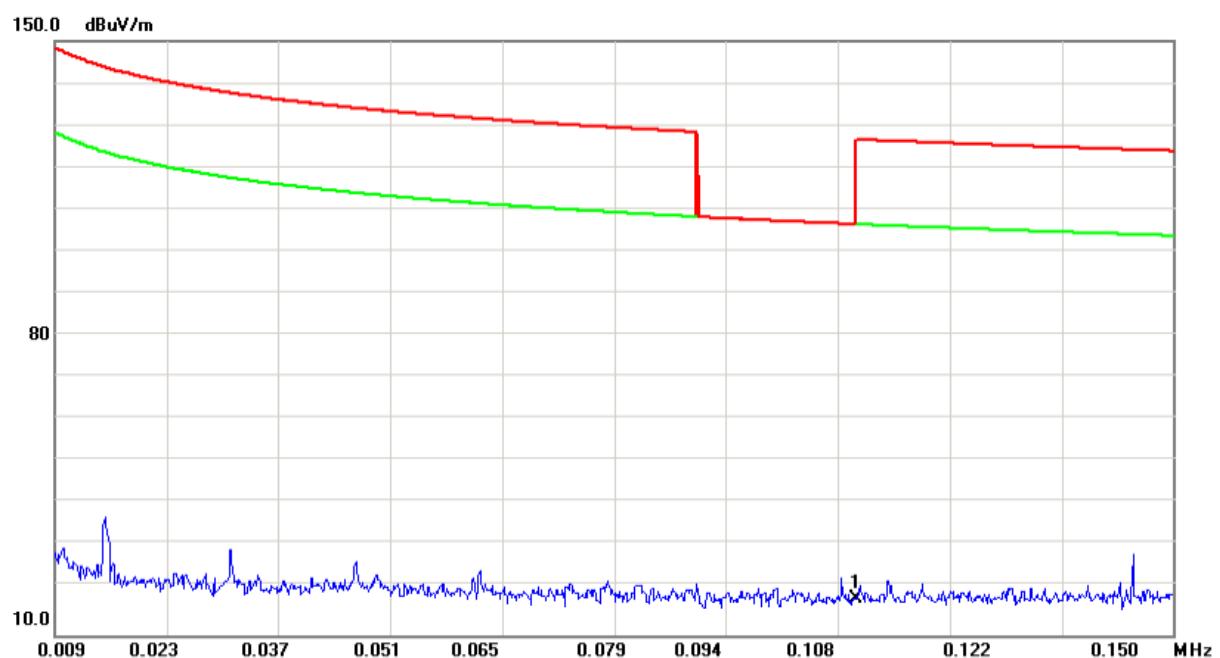
Spurious

Frequency (MHz)	Ant 0°/90°	Read level dBuV/3m	Dist Corr 300/30m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0156	0°	15.26	80	24.58	-40.16	43.74	-83.90	AVG
0.0156	0°	16.58	80	24.58	-38.84	63.74	-102.58	PEAK
0.0311	0°	6.39	80	23.60	-50.01	37.75	-87.76	AVG
0.0311	0°	8.61	80	23.60	-47.79	57.75	-105.54	PEAK
0.1430	0°	0.21	80	20.71	-59.08	24.50	-83.58	AVG
0.1430	0°	1.39	80	20.71	-57.90	44.50	-102.40	PEAK
3.1350	0°	22.46	40	18.91	1.37	29.54	-28.17	QP
5.1645	0°	24.51	40	18.19	2.70	29.54	-26.84	QP

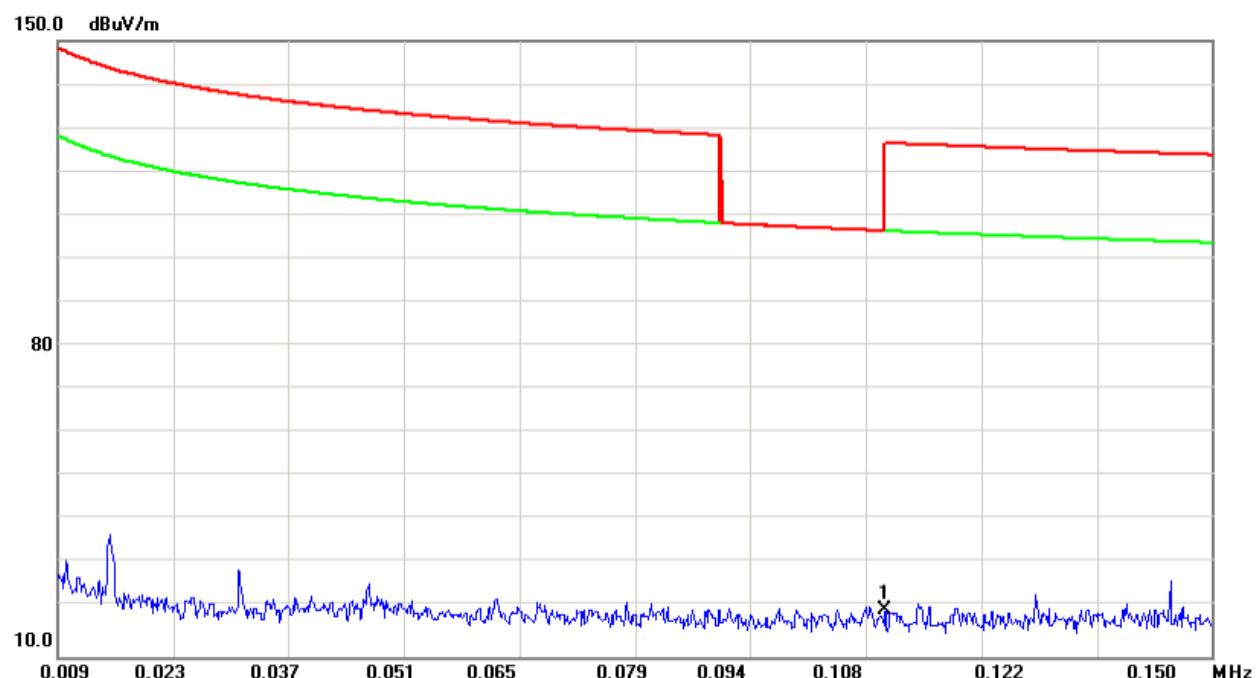
Frequency (MHz)	Ant 0°/90°	Read level dBuV/3m	Dist Corr 300/30m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0154	90°	14.17	80	24.30	-41.53	43.85	-85.38	AVG
0.0154	90°	16.25	80	24.30	-39.45	63.85	-103.30	PEAK
0.0310	90°	6.13	80	23.60	-50.27	37.78	-88.04	AVG
0.0310	90°	8.24	80	23.60	-48.16	57.78	-105.93	PEAK
0.1461	90°	0.12	80	20.66	-59.22	24.31	-83.53	AVG
0.1461	90°	1.07	80	20.66	-58.27	44.31	-102.58	PEAK
2.2694	90°	21.32	40	19.34	0.66	29.54	-28.88	QP
2.9560	90°	23.56	40	18.93	2.49	29.54	-27.05	QP

Fundamental

Frequency (MHz)	Ant 0°/90°	Read level dBuV/3m	Dist Corr 300/30m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.1100	0°	-2.31	80	21.24	-61.07	26.78	-87.85	AVG
0.1100	0°	-1.94	80	21.24	-60.70	46.78	-107.48	PEAK
0.1452	0°	7.12	80	20.68	-52.20	24.36	-76.57	AVG
0.1452	0°	8.29	80	20.68	-51.03	44.36	-95.40	PEAK



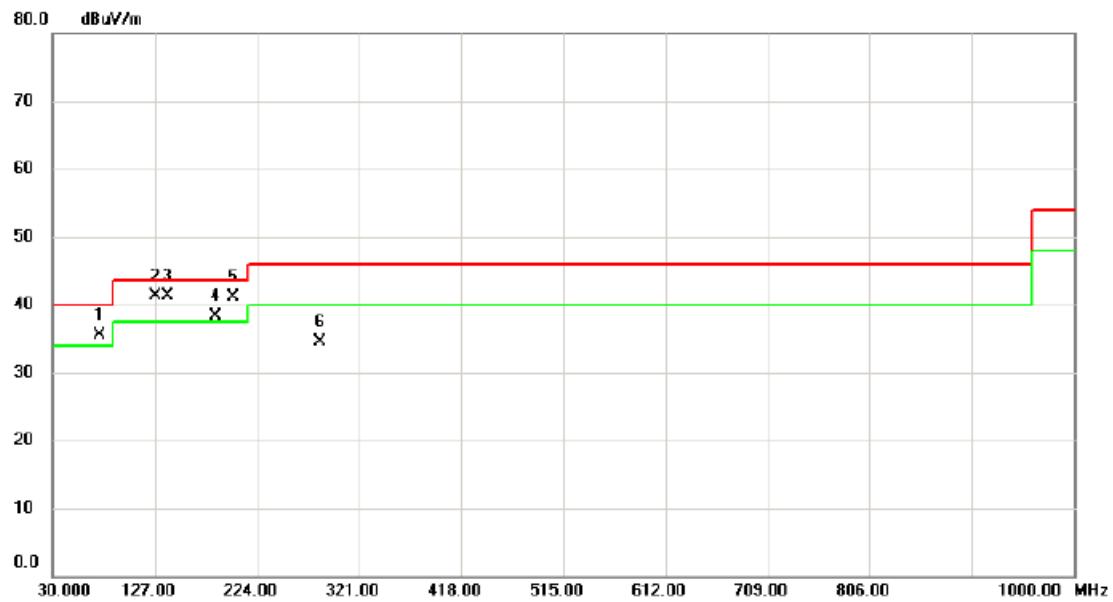
Frequency (MHz)	Ant 0°/90°	Read level dBuV/3m	Dist Corr 300/30m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.1100	90°	-1.24	80	21.24	-60.00	26.78	-86.78	AVG
0.1100	90°	0.07	80	21.24	-58.69	46.78	-105.47	PEAK
0.1452	90°	6.82	80	20.68	-52.50	24.36	-76.87	AVG
0.1452	90°	8.01	80	20.68	-51.31	44.36	-95.68	PEAK



ATTACHMENT C - RADIATED EMISSION (30MHz to 1000MHz)

Test Voltage:	AC 120V/60Hz
Test Mode:	Normal operation

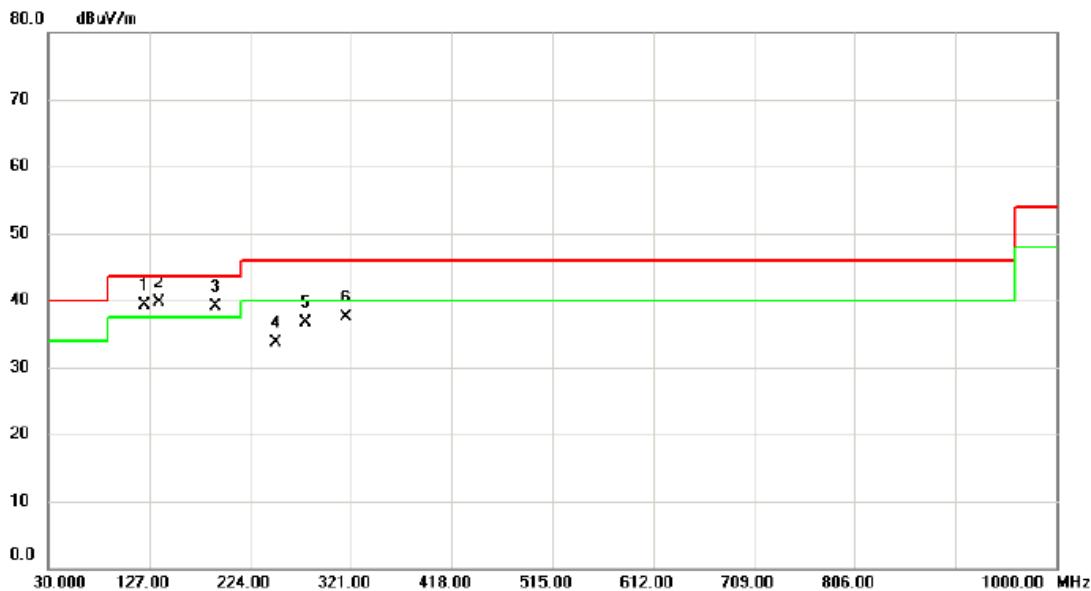
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1	!	74.6200	51.70	-16.23	35.47	40.00	-4.53	QP	
2	!	127.9700	54.62	-13.26	41.36	43.50	-2.14	QP	
3	*	139.6100	55.43	-14.03	41.40	43.50	-2.10	QP	
4	!	184.2300	51.82	-13.56	38.26	43.50	-5.24	QP	
5	!	200.7200	56.18	-15.12	41.06	43.50	-2.44	QP	
6		284.1400	46.14	-11.72	34.42	46.00	-11.58	QP	

Test Voltage:	AC 120V/60Hz
Test Mode:	Normal operation

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
			MHz	dBuV	dB	dBuV/m	dB		
1	!	122.1500	53.04	-13.81	39.23	43.50	-4.27	QP	
2	*	136.7000	53.35	-13.74	39.61	43.50	-3.89	QP	
3	!	191.0200	53.67	-14.48	39.19	43.50	-4.31	QP	
4		249.2200	48.02	-14.30	33.72	46.00	-12.28	QP	
5		277.3500	49.23	-12.59	36.64	46.00	-9.36	QP	
6		316.1500	48.26	-10.78	37.48	46.00	-8.52	QP	

ATTACHMENT E - OCCUPIED BANDWIDTH

Test Voltage:	AC 120V/60Hz
Test Mode:	Normal operation

Frequency(MHz)	99% Occupied BW (MHz)	Test Result
145.20	0.44	Pass

