

FCC PART 18  
TEST REPORT

For

**ZHONGSHAN SAUNTER ELECTRIC CO., LTD.**

No16, LeFeng2 Road, the MaoHui Industrial Area of HengLan Town,  
Zhongshan City, GuangDong, China

**FCC ID: ZJZSAUNTER**

<b>Report Type:</b> Original Report	<b>Product Type:</b> RLF
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<b>Report Number:</b> RSZ11011051	
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\* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

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## GENERAL INFORMATION

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### Product Description for Equipment under Test (EUT)

The ZHONGSHAN SAUNTER ELECTRIC CO., LTD's product, model number: NH-2A-30W(T4), NH-2A-28W(T4), NH-2A-28W(T5), NH-2A-21W(T5), NH-2A-14W(T5), NH-2A-35W(T5), FCC ID: ZJZSAUNTER), or the "EUT" as referred to in this report is a RLF,

NH-2A-28W (T4) measures approximately: 117.5 cm (L) x 2.0 cm (W) x 3.5 cm (H),  
NH-2A-30W (T4) measures approximately: 87.5 cm (L) x 2.0 cm (W) x 3.5 cm (H),  
NH-2A-14W(T5) measures approximately: 57.5 cm (L) x 2.0 cm (W) x 4.0 cm (H),  
NH-2A-21W (T5) measures approximately: 87.5 cm (L) x 2.0 cm (W) x 4.0 cm (H),  
NH-2A-28W (T5) measures approximately: 117.5 cm (L) x 2.0 cm (W) x 4.0 cm (H),  
NH-2A-35W(T5) measures approximately: 147.5 cm (L) x 2.0 cm (W) x 4.0 cm (H)

Rated input voltage: AC 120V/60Hz.

*Note: the series product, model NH-2A-30W(T4), NH-2A-28W(T4), NH-2A-28W(T5), NH-2A-21W(T5), NH-2A-14W(T5) and NH-2A-35W(T5) are electrically identical, and the difference between them are power and size, which was explained in the attached declaration letter.*

*\* All measurement and test data in this report was gathered from production sample serial number: 1101017 (Assigned by BACL, Shenzhen). The EUT was received on 2011-01-10.*

### Objective

The following test report is prepared on behalf of ZHONGSHAN SAUNTER ELECTRIC CO., LTD in accordance with Part 2, Subpart J, and Part 18, Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 limits.

### Related Submittal(s)/Grant(s)

No related submittal(s).

### Test Methodology

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986. All measurement was performed at Bay Area Compliance Laboratories Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

### EUT Exercise Software

N/A

### Special Accessories

The special accessories were supplied by Bay Area Compliance Laboratories Corp.

### Equipment Modifications

No modifications were made to the unit tested.

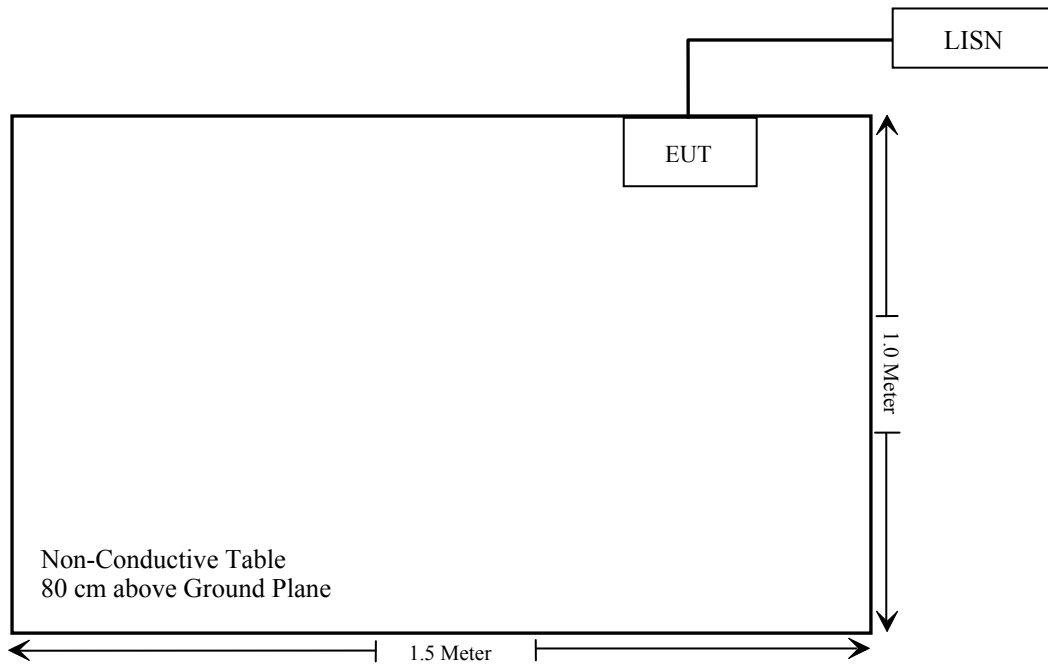
### External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Detachable AC Cable	1.2	EUT	LISN

### Configuration of Test Setup



# Block Diagram of Test Setup



## FCC §18.307 - AC LINE CONDUCTED EMISSIONS

### Applicable Standard

Conduction limits. For the following equipment, when 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 shall not exceed the limits in the following tables. 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 using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN).

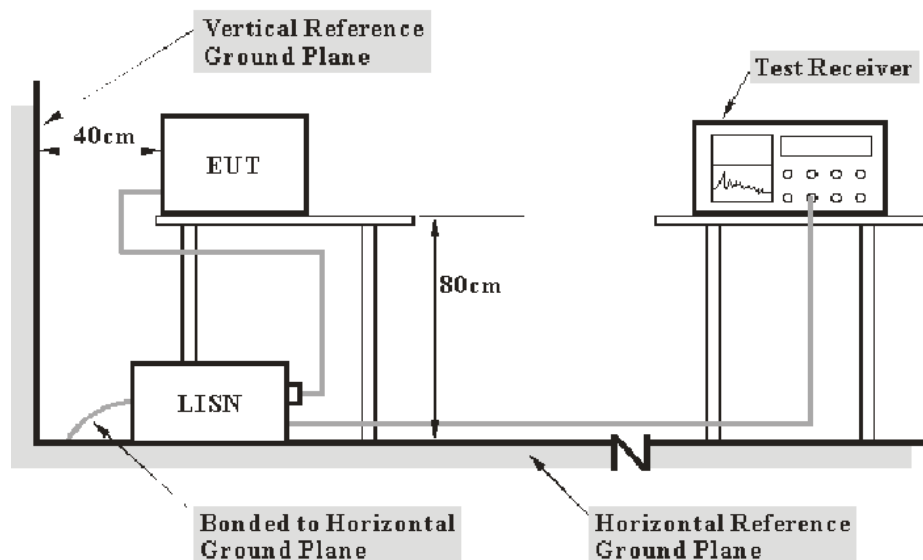
Frequency (MHz)	Maximum RF line voltage measured with a 50 $\mu$ H/50 ohm LISN (uV)
Non-consumer equipment	
0.45 to 1.6	1,000
1.6 to 30	3,000
Consumer equipment	
0.45 to 2.51	250
2.51 to 3.0	3,000
3.0 to 30	250

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. is  $\pm 2.4$  dB (k=2, 95% level of confidence).

### EUT Setup



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

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18 limits.

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

The EUT was connected to a 120 VAC/60 Hz power source.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 450 kHz to 30 MHz.

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

<b><i>Frequency Range</i></b>	<b><i>IFBW</i></b>
450 kHz – 30 MHz	9 kHz

### Test Procedure

During the conducted emission test, the EUT was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-Peak detection mode.

### Test Equipment List and Details

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2010-03-03	2011-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2010-03-09	2011-03-08

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

### Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 18, with the worst margin reading of:

**1.17 dB at 27.120 MHz** in the **Neutral** conductor mode for model NH-2A-30W (T4)  
**14.86 dB at 27.120 MHz** in the **Neutral** conductor mode for model NH-2A-28W (T4)  
**2.58 dB at 0.535 MHz** in the **Line** conductor mode for model NH-2A-35W (T5)  
**5.57 dB at 0.555 MHz** in the **Line** conductor mode for model NH-2A-28W (T5)  
**5.14 dB at 24.100 MHz** in the **Line** conductor mode for model NH-2A-21W (T5)  
**9.10 dB at 27.120 MHz** in the **Line** conductor mode for model NH-2A-14W (T5)



**Test Data****Environmental Conditions**

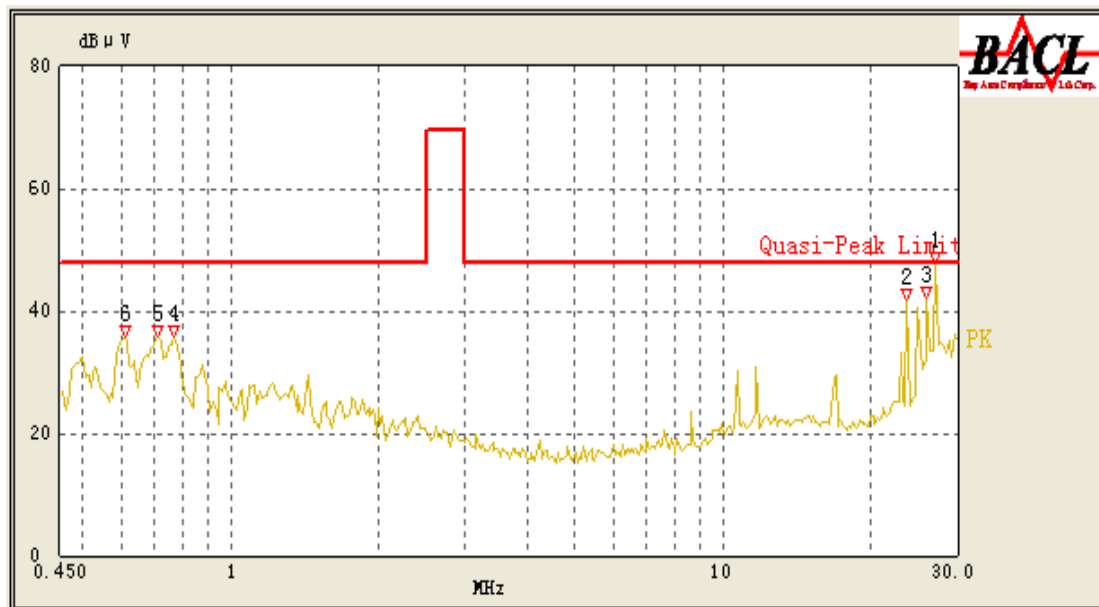
<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	48 %
<b>ATM Pressure:</b>	101.0 kPa

Testing was performed by Andy Xiong on 2011-02-25.

Test Mode: On

**Model: NH-2A-30W (T4)**

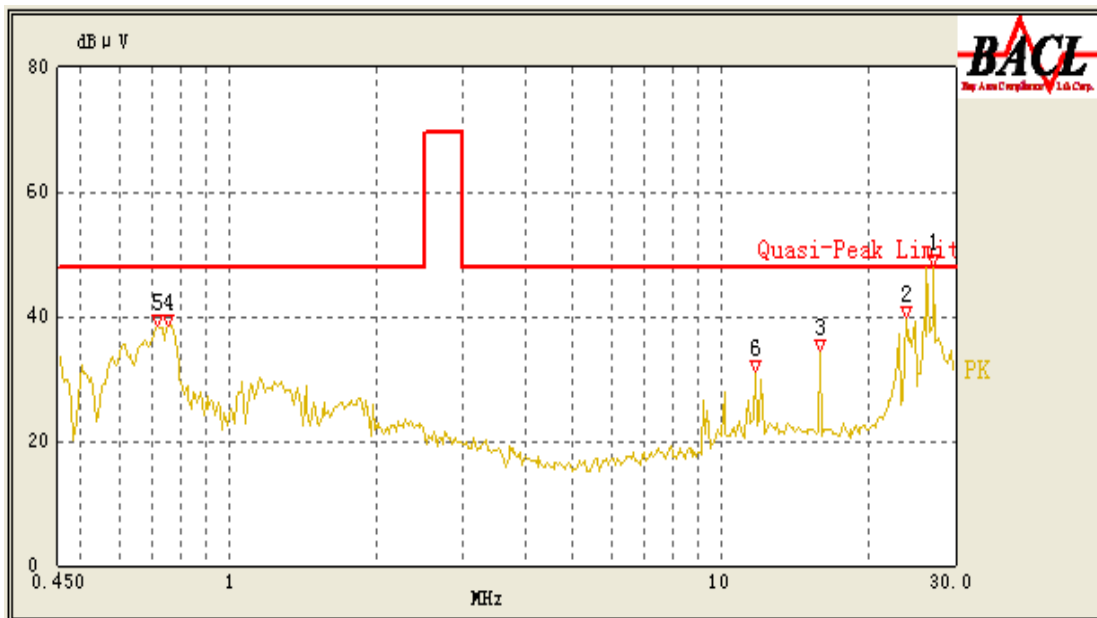
AC 120V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
27.120	46.60	10.10	48.00	1.40*	QP
25.985	41.45	10.10	48.00	6.55	QP
23.620	41.31	10.10	48.00	6.69	QP
0.610	34.36	10.10	48.00	13.64	QP
0.710	33.29	10.10	48.00	14.71	QP
0.765	32.93	10.10	48.00	15.07	QP

\* Within measurement uncertainty!

AC 120V/ 60 Hz, Neutral:

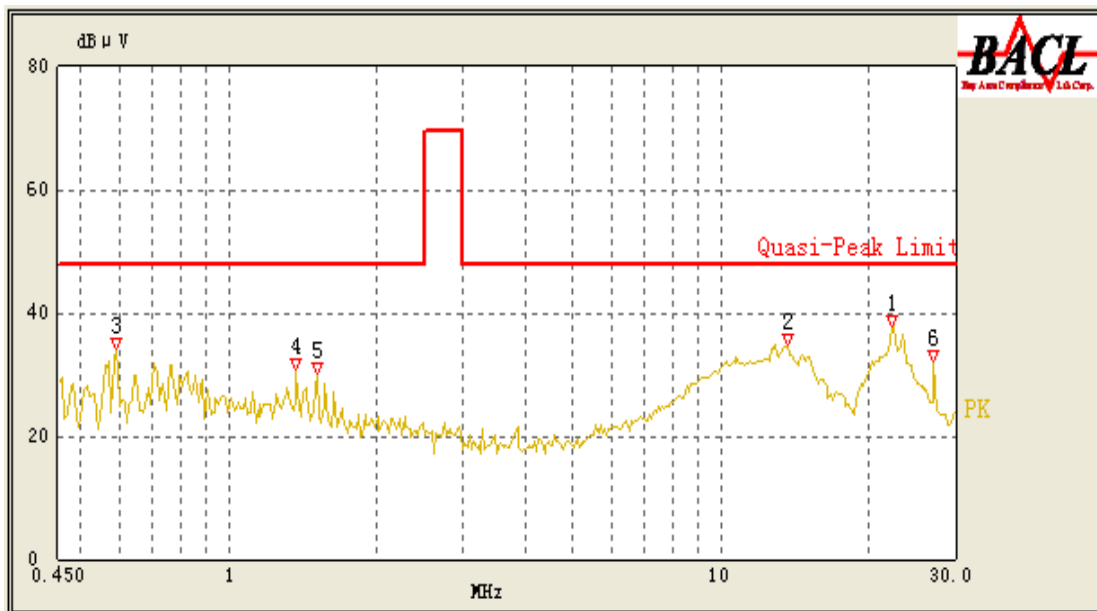


Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
27.120	46.83	10.10	48.00	1.17*	QP
23.720	38.51	10.10	48.00	9.49	QP
0.715	36.17	10.10	48.00	11.83	QP
15.930	35.82	10.10	48.00	12.18	QP
0.755	34.66	10.10	48.00	13.34	QP
11.745	25.25	10.10	48.00	22.75	QP

\*Within measurement uncertainty!

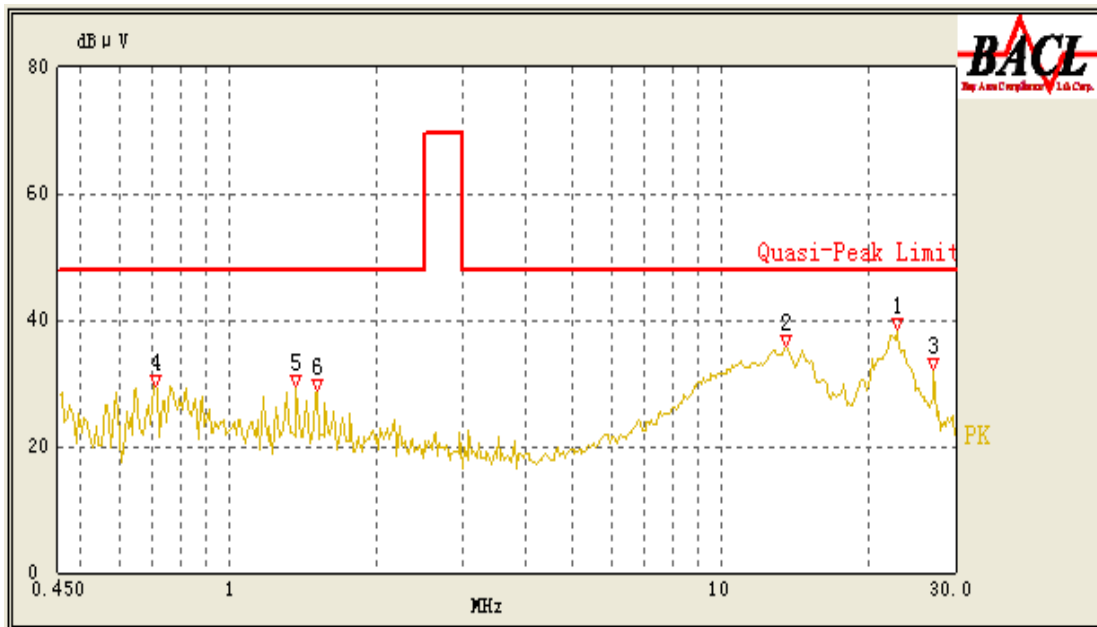
**Model: NH-2A-28W (T4)**

AC 120V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
0.590	32.34	10.10	48.00	15.66	QP
27.120	32.33	10.10	48.00	15.67	QP
22.260	31.34	10.10	48.00	16.66	QP
13.665	29.98	10.10	48.00	18.02	QP
1.375	26.87	10.10	48.00	21.13	QP
1.510	25.65	10.10	48.00	22.35	QP

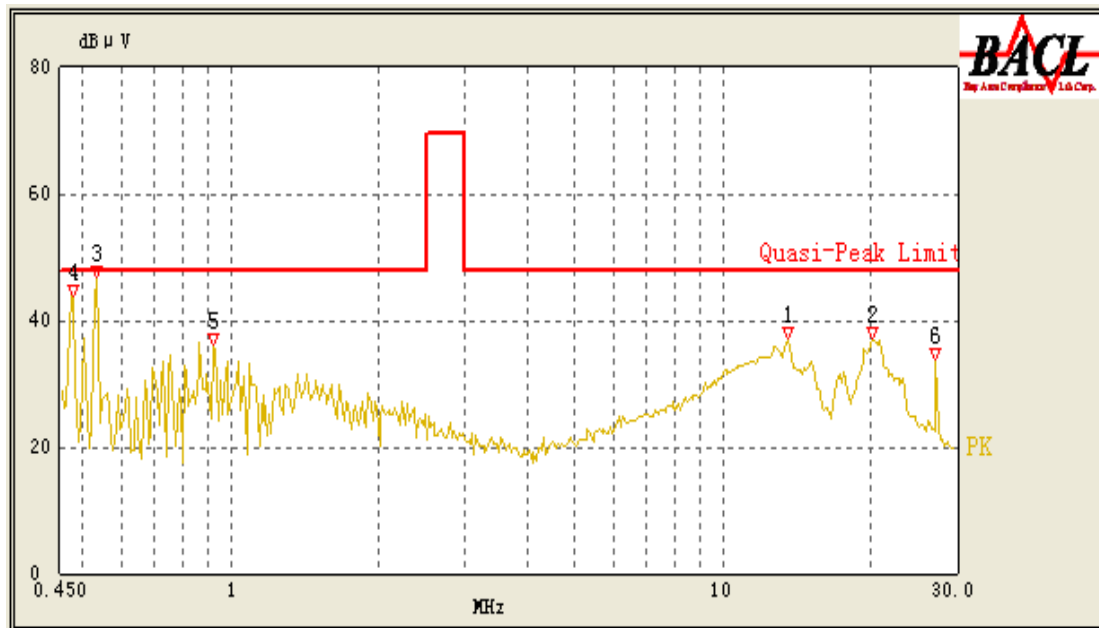
AC 120V/ 60 Hz, Neutral:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
27.120	33.14	10.10	48.00	14.86	QP
22.785	31.85	10.10	48.00	16.15	QP
13.600	30.87	10.10	48.00	17.13	QP
0.710	28.70	10.10	48.00	19.30	QP
1.375	25.42	10.10	48.00	22.58	QP
1.510	24.69	10.10	48.00	23.31	QP

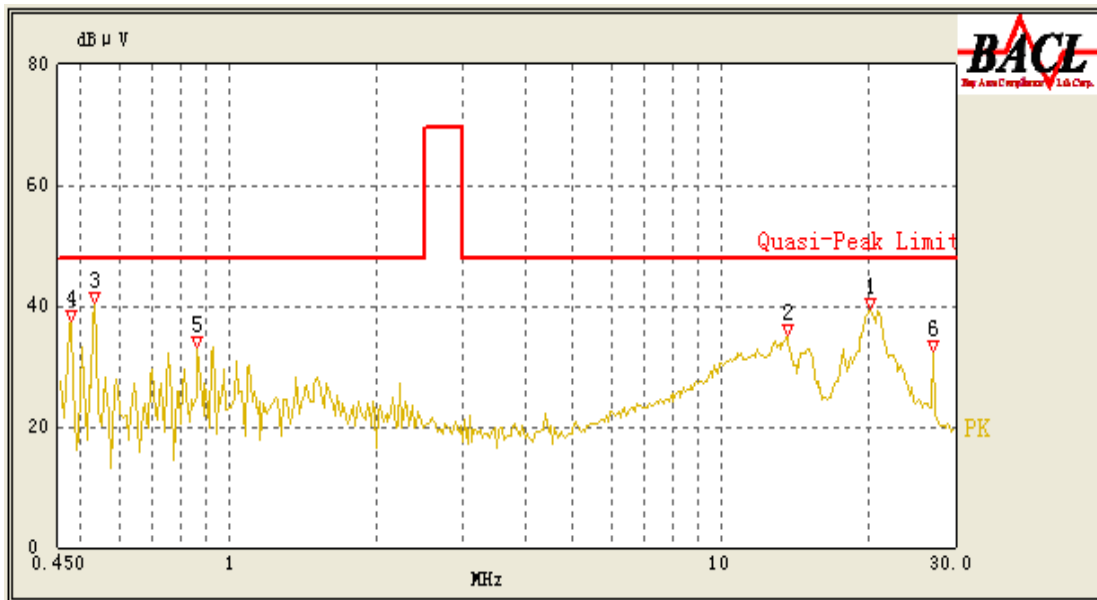
**Model: NH-2A-35W (T5)**

AC 120V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
0.535	45.42	10.10	48.00	2.58	QP
0.480	42.67	10.10	48.00	5.33	QP
0.925	34.70	10.10	48.00	13.30	QP
27.120	31.85	10.10	48.00	16.15	QP
20.115	31.46	10.10	48.00	16.54	QP
13.540	30.77	10.10	48.00	17.23	QP

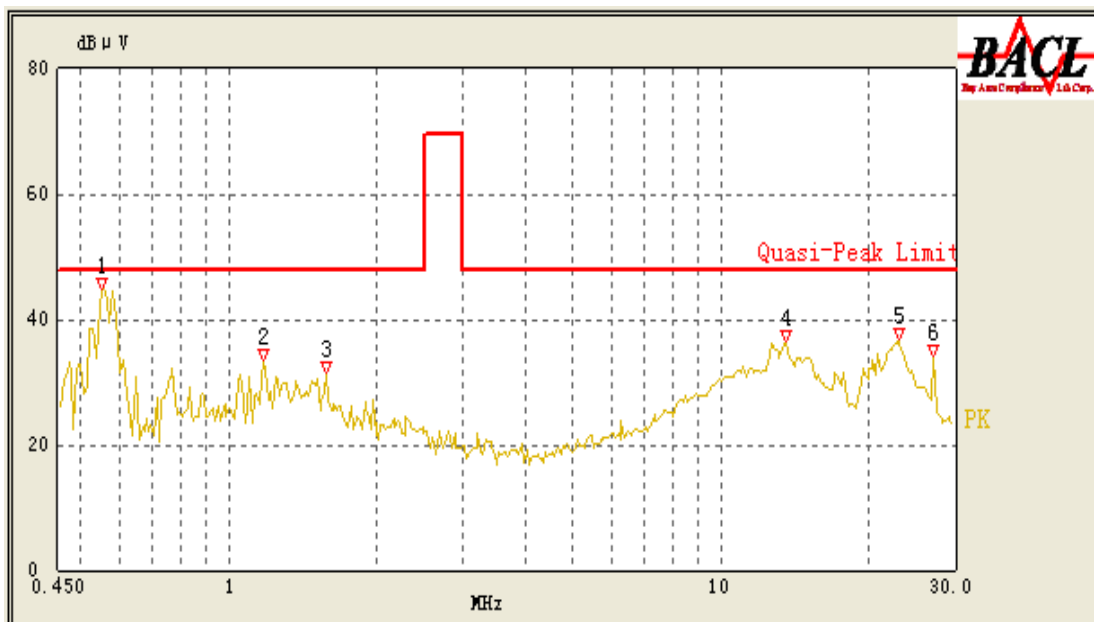
AC 120V/ 60 Hz, Neutral:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
0.535	39.02	10.10	48.00	8.98	QP
0.480	35.38	10.10	48.00	12.62	QP
20.125	33.67	10.10	48.00	14.33	QP
0.865	32.56	10.10	48.00	15.44	QP
13.640	29.72	10.10	48.00	18.28	QP
27.120	28.51	10.10	48.00	19.49	QP

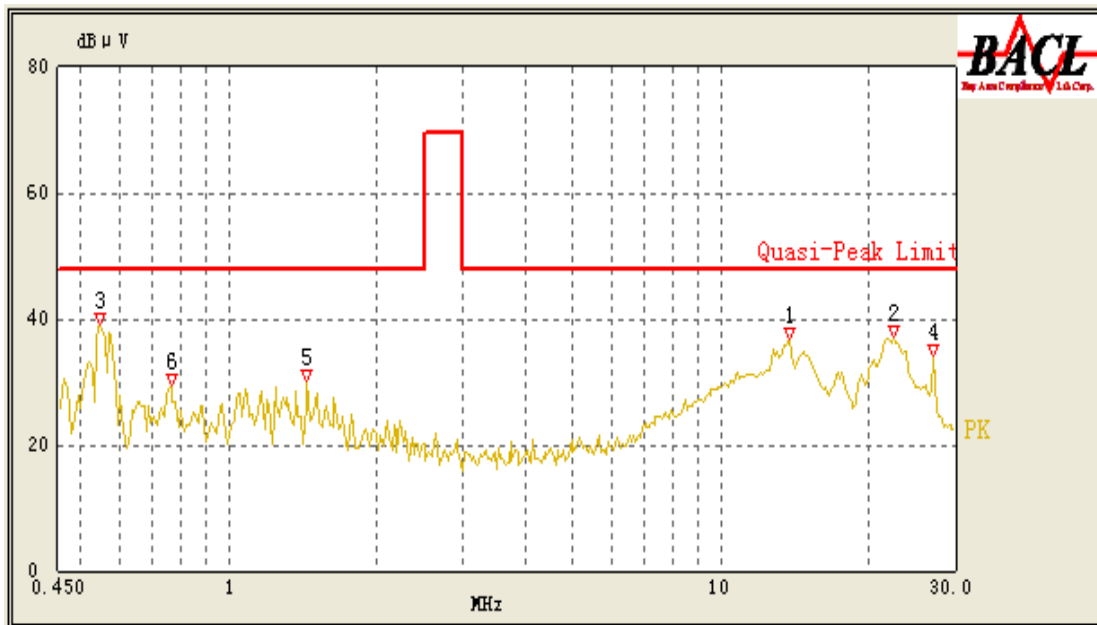
**Model: NH-2A-28W (T5)**

AC 120V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
0.555	42.43	10.10	48.00	5.57	QP
27.120	34.73	10.10	48.00	13.27	QP
1.180	30.34	10.10	48.00	17.66	QP
13.605	30.12	10.10	48.00	17.88	QP
22.965	29.95	10.10	48.00	18.05	QP
1.575	25.94	10.10	48.00	22.06	QP

AC 120V/ 60 Hz, Neutral:

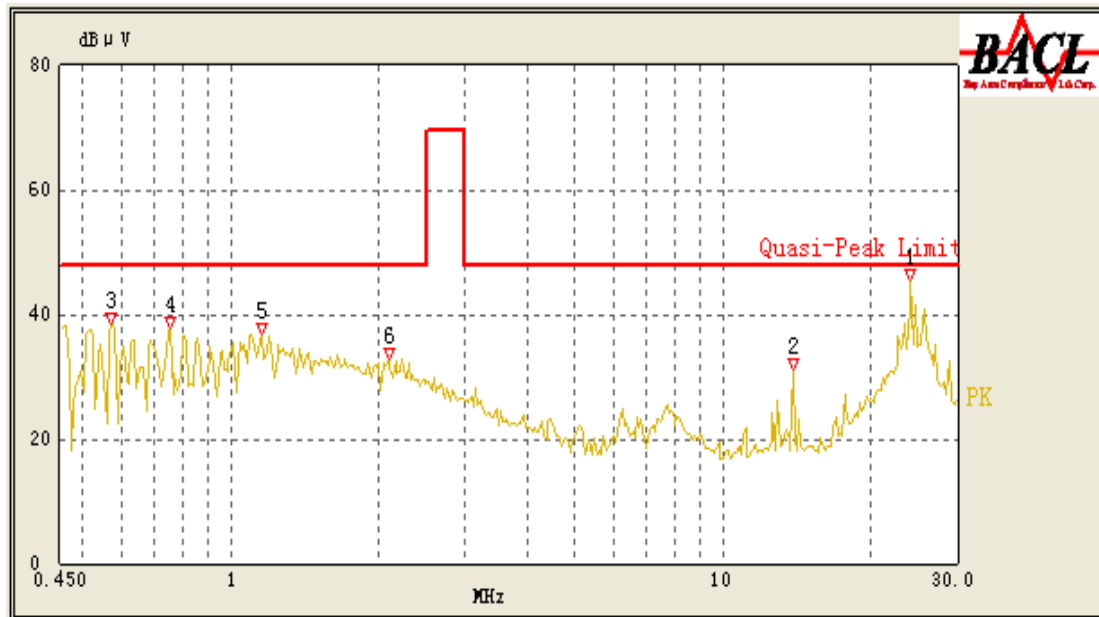


Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
0.550	37.14	10.10	48.00	10.86	QP
27.120	32.90	10.10	48.00	15.10	QP
22.415	30.74	10.10	48.00	17.26	QP
13.775	29.77	10.10	48.00	18.23	QP
0.765	27.86	10.10	48.00	20.14	QP
1.445	26.27	10.10	48.00	21.73	QP



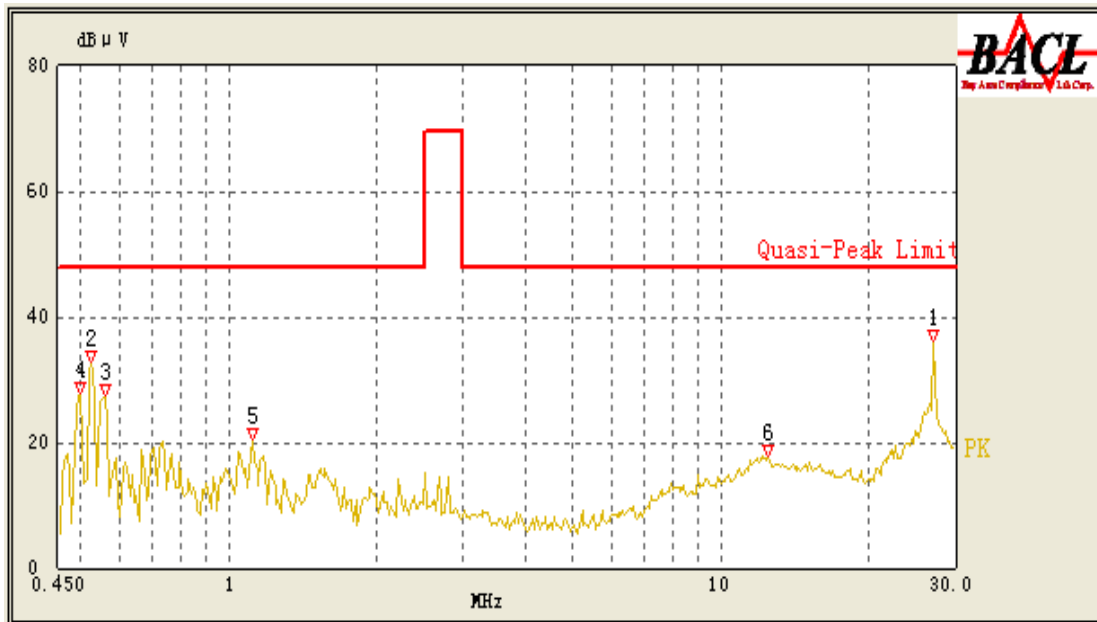
**Model: NH-2A-21W (T5)**

AC 120V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
24.100	42.86	10.10	48.00	5.14	QP
13.875	31.03	10.10	48.00	16.97	QP
0.570	37.97	10.10	48.00	10.03	QP
0.755	34.30	10.10	48.00	13.70	QP
1.155	35.46	10.10	48.00	12.54	QP
2.100	28.89	10.10	48.00	19.11	QP

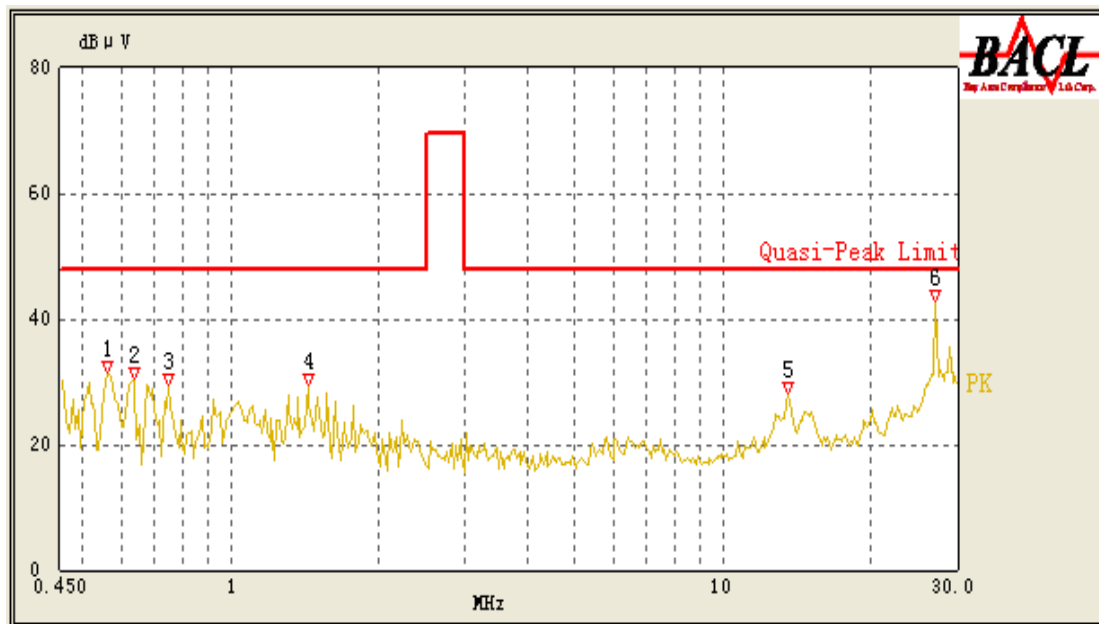
AC 120V/ 60 Hz, Neutral:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
27.120	35.55	10.10	48.00	12.45	QP
0.525	30.68	10.10	48.00	17.32	QP
0.560	25.18	10.10	48.00	22.82	QP
0.500	24.97	10.10	48.00	23.03	QP
1.120	15.61	10.10	48.00	32.39	QP
12.495	11.30	10.10	48.00	36.70	QP

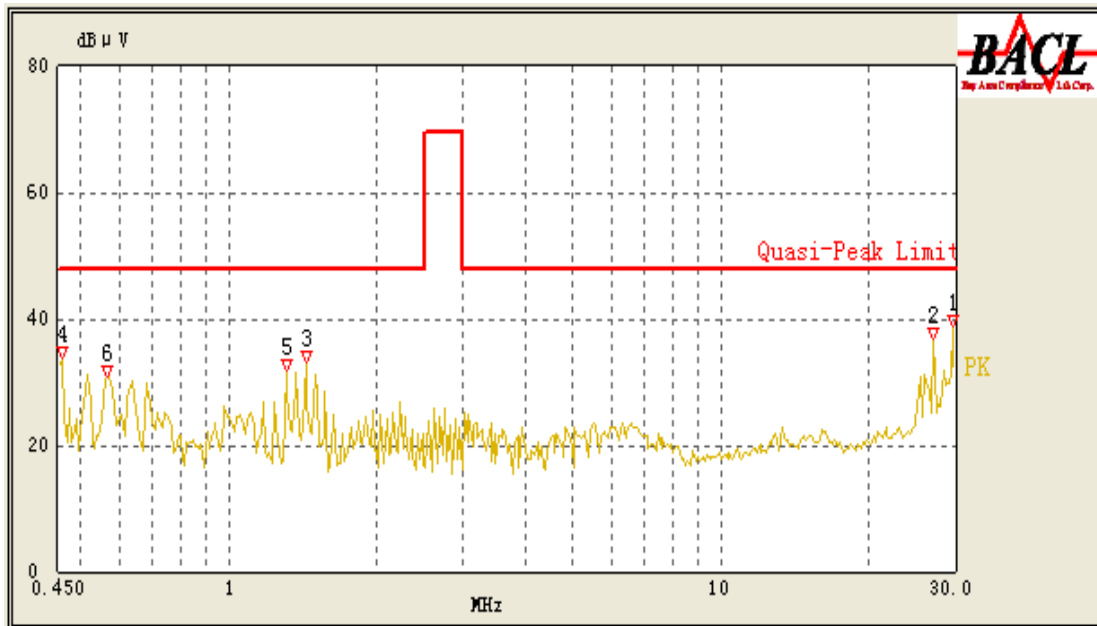
**Model: NH-2A-14W (T5)**

AC 120V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
27.120	38.90	10.10	48.00	9.10	QP
0.560	29.64	10.10	48.00	18.36	QP
0.635	29.09	10.10	48.00	18.91	QP
1.440	25.44	10.10	48.00	22.56	QP
0.750	24.12	10.10	48.00	23.88	QP
13.565	22.60	10.10	48.00	25.40	QP

AC 120V/ 60 Hz, Neutral:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Remark
29.590	38.26	10.10	48.00	9.74	QP
27.120	37.27	10.10	48.00	10.73	QP
0.460	31.73	10.10	48.00	16.27	QP
1.440	30.96	10.10	48.00	17.04	QP
0.565	30.02	10.10	48.00	17.98	QP
1.310	28.42	10.10	48.00	19.58	QP

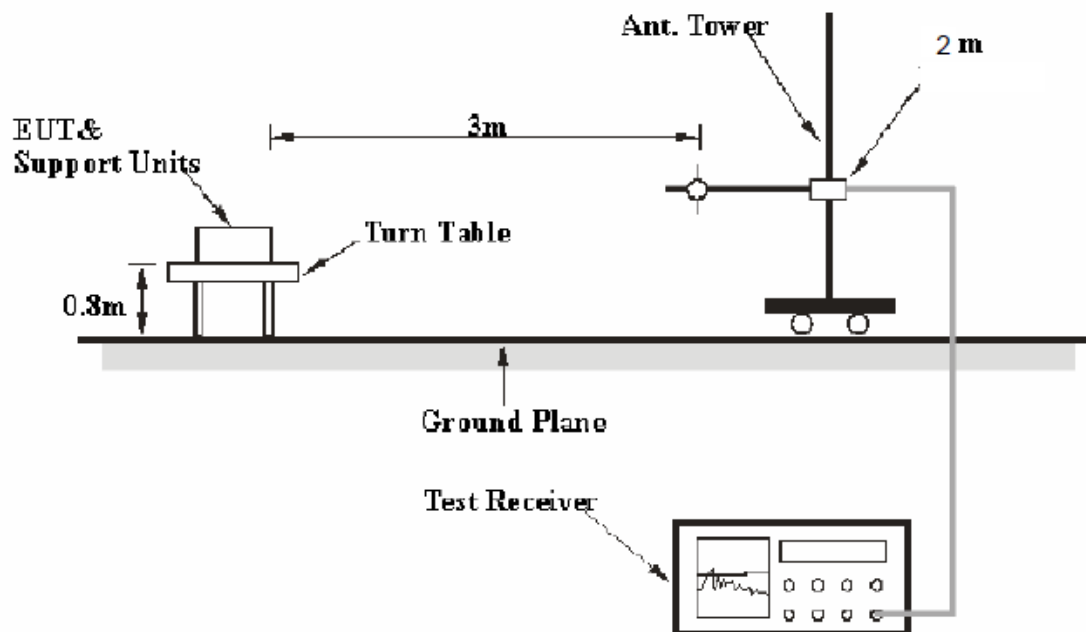
## FCC §18.305 – FIELD STRENGTH

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is  $\pm 4.0$  dB.(k=2, 95% level of confidence)

### EUT Setup



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the FCC MP - 5.

The EUT was connected to 120 VAC/60 Hz power source.

## EMI Test Receiver Setup and Spectrum Analyzer Setup

The system was investigated from 9 kHz to 30 MHz.

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

<b><i>Frequency Range</i></b>	<b><i>R B/W</i></b>	<b><i>Video B/W</i></b>	<b><i>IF B/W</i></b>
9 kHz– 150 kHz	300 Hz	1 kHz	200 Hz
150 kHz– 30 MHz	10 kHz	30 kHz	9 kHz

## Test Procedure

For the radiated emissions test, the EUT was connected to the AC floor outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 9 kHz to 30 MHz.

## Corrected Amplitude Calculation

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss}$$

## Test Equipment List and Details

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
ETS-LINDGREN	Passive Loop Antenna	6512	00029604	2010-07-14	2011-07-13
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-11	2011-11-10

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Test Data

### Environmental Conditions

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	48 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Andy Xiong on 2011-02-29.*

*Test Mode: On*

Model: NH-2A-30W (T4)

Frequency (MHz)	Corrected Amplitude (dBμA/m)	Direction (Degree)	Ant. Height (m)	Ant. Factor (dB/m)	Cable Loss (dB)	Result	
						(dBμA/m)	(dBμV/m)
0.0285	-32.77	180	2.00	26.3	0.1	-6.37	45.13
0.0296	-33.54	85	2.00	26.1	0.1	-7.34	44.16
0.0578	-33.65	0	2.00	19.0	0.1	-14.55	36.95
0.1138	-33.69	0	2.00	13.5	0.1	-20.09	31.41
0.1255	-34.54	36	2.00	12.4	0.1	-22.04	29.46
0.1964	-35.01	70	2.00	9.2	0.1	-25.71	25.79

Model: NH-2A-28W (T4)

Frequency (MHz)	Corrected Amplitude (dBμA/m)	Direction (Degree)	Ant. Height (m)	Ant. Factor (dB/m)	Cable Loss (dB)	Result	
						(dBμA/m)	(dBμV/m)
0.0285	-33.27	0	2.00	26.3	0.1	-6.87	44.63
0.0365	-34.02	180	2.00	24.5	0.1	-12.92	38.58
0.0424	-34.55	176	2.00	22.1	0.1	-16.15	35.35
0.0878	-35.21	0	2.00	15.5	0.1	-24.61	26.89
0.1135	-35.23	0	2.00	13.2	0.1	-25.83	25.67
0.1166	-35.94	130	2.00	12.8	0.1	-26.84	24.66

Model: NH-2A-28W (T5)

Frequency (MHz)	Corrected Amplitude (dBμA/m)	Direction (Degree)	Ant. Height (m)	Ant. Factor (dB/m)	Cable Loss (dB)	Result	
						(dBμA/m)	(dBμV/m)
0.0285	-32.55	0	2.00	26.3	0.1	-6.15	45.35
0.0364	-33.23	180	2.00	24.5	0.1	-12.13	39.37
0.0424	-33.78	180	2.00	22.1	0.1	-15.38	36.12
0.0878	-34.54	0	2.00	15.5	0.1	-23.94	27.56
0.1137	-34.69	21	2.00	13.2	0.1	-25.29	26.21
0.1164	-35.22	95	2.00	12.8	0.1	-26.12	25.38

Model: NH-2A-21W (T5)

Frequency (MHz)	Corrected Amplitude (dBμA/m)	Direction (Degree)	Ant. Height (m)	Ant. Factor (dB/m)	Cable Loss (dB)	Result	
						(dBμA/m)	(dBμV/m)
0.0285	-34.64	0	2.00	26.3	0.1	-8.24	43.26
0.0485	-35.36	180	2.00	21.0	0.1	-14.26	37.24
0.0588	-35.33	180	2.00	18.3	0.1	-16.93	34.57
0.1375	-36.21	0	2.00	10.5	0.1	-25.61	25.89
0.1475	-36.48	55	2.00	9.3	0.1	-27.08	24.42
0.1577	-36.50	147	2.00	9.0	0.1	-27.4	24.1

## Model: NH-2A-14W (T5)

Frequency (MHz)	Corrected Amplitude (dBμA/m)	Direction (Degree)	Ant. Height (m)	Ant. Factor (dB/m)	Cable Loss (dB)	Result	
						(dBμA/m)	(dBμV/m)
0.0285	-35.26	0	2.00	26.3	0.1	-8.86	42.64
0.0483	-36.24	180	2.00	21.0	0.1	-15.14	36.36
0.0588	-36.33	0	2.00	18.3	0.1	-17.93	33.57
0.1372	-36.45	0	2.00	10.5	0.1	-25.85	25.65
0.1472	-37.20	96	2.00	9.3	0.1	-27.80	23.70
0.1577	-37.41	154	2.00	9.0	0.1	-28.31	23.19

## Model: NH-2A-35W (T5)

Frequency (MHz)	Corrected Amplitude (dBμA/m)	Direction (Degree)	Ant. Height (m)	Ant. Factor (dB/m)	Cable Loss (dB)	Result	
						(dBμA/m)	(dBμV/m)
0.0285	-35.24	180	2.00	26.3	0.1	-8.84	42.66
0.0467	-36.25	0	2.00	23.2	0.1	-12.95	38.55
0.0573	-36.33	0	2.00	20.3	0.1	-15.93	35.57
0.1265	-36.49	150	2.00	14.5	0.1	-21.89	29.61
0.1472	-36.50	180	2.00	9.3	0.1	-27.10	24.40
0.1578	-36.67	0	2.00	9.0	0.1	-27.57	23.93

Note:  $\text{dB}\mu\text{V/m} = \text{dB}\mu\text{A/m} + 51.5 \text{ dB}$



## PRODUCT SIMILARITY DECLARATION LETTER



ZHONG SHAN SAUNTER ELECTRIC CO.,LTD

Add: No16, LeFeng2 Road, the MaoHui Industrial Area of HengLan Town, Zhongshan City, GuangDong Province.China

Tel: 0760-87618187

Fax: 0760-87618186

### Different Declaration

We, ZHONG SHAN SAUNTER ELECTRIC CO.,LTD, declare that the RLF, The model NH-2A-30W(T4), NH-2A-28W(T4), NH-2A-28W(T5), NH-2A-21W(T5), NH-2A-14W(T5) and NH-2A-35W(T5) are tested by BACL. They have the same circuit diagram, PCB layout in side, and only different in the power and size. Thank you!

2011-6-14

Sincerely,

Signature: Jiesen Zhou

Title: Engineer

Jiesen Zhou

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