



FCC PART 18

EMI MEASUREMENT AND TEST REPORT

For
Zhe Jiang NVC Lamps Co., Ltd.

No 201-16, Tongda Road, South Zone, Hushan District, Jiangshan, Zhejiang.

FCC ID: VVOST3T2

Product Name:	CFL
Model No:	ESC-5W/ESC-9W/ESD-5W/ESD-9W/ESH-9W/ESH-13W/ESH-15W/ESH-18W/ESH-20W/ESH-23W/ESH-26W/ESU-9W/ESU-13W/ESU-15W/ESU-18W/ESU-20W/ESU-23W/ESU-26W
Sample Received Date:	Jun 05-Aug 04, 2008
Test Performed Date:	Jun 10-Aug 13, 2008
Test Engineer:	Paul Tan 
Reviewed By:	Chris Zeng 
Prepared By:	BEST Test Service (Shenzhen) Co., Ltd Flat 11E, Xinhaofang Building, 11018, Shennan Road, Nanshan District, Shenzhen, 518057, China Tel: +86-755-86182350 Fax: +86-755-86182353

Note: The test report is specially limited to the above company and the product model only, it may not be duplicated without prior written consent of Best Test Service (Shenzhen) Co., Ltd.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The Zhe Jiang NVC Lamps Co., Ltd.'s model ESC-5W/ESC-9W/ESD-5W/ESD-9W/ESH-9W/ESH-13W/ESH-15W/ESH-18W/ESH-20W/ESH-23W/ESH-26W/ESU-9W/ESU-13W/ESU-15W/ESU-18W/ESU-20W/ESU-23W/ESU-26W or the "EUT" as referred to in this report are CFL, rated input voltage: AC 120V/60Hz. Operation frequency between 40KHz to 60KHz.

The test data was only good for the test sample. It may have deviation for other test sample.

Objective

The following test report is prepared on behalf of Zhe Jiang NVC Lamps 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 demonstrate compliance with FCC Part 18 limit requirements for Industrial, Scientific, and Medical Equipment.

Related Submittal(s)/Grant(s)

No Related Submittals.

Test Methodology

All measurements contained in this report were conducted with MP-5 1986, FCC Method of measurements of radio noise emission from Industrial, Scientific and Medical equipments.

Test Facility

All measurement facilities used to collect the data are located at Huatongwei Building , Keji Rd, 12 S, high-Tech Park, Nanshan District, Shenzhen, China.

The sites are constructed in conformance with the requirements of ANSI C63.7/634 and CISPR 22, The site was accredited by FCC (662850), A2LA(2243.01) and CNAL (L1225)

SYSTEM TEST CONFIGURATION

Justification

The EUT was tested under normal mode as used by a common (typical) user.

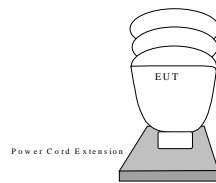
Schematics / Block Diagram

N/A

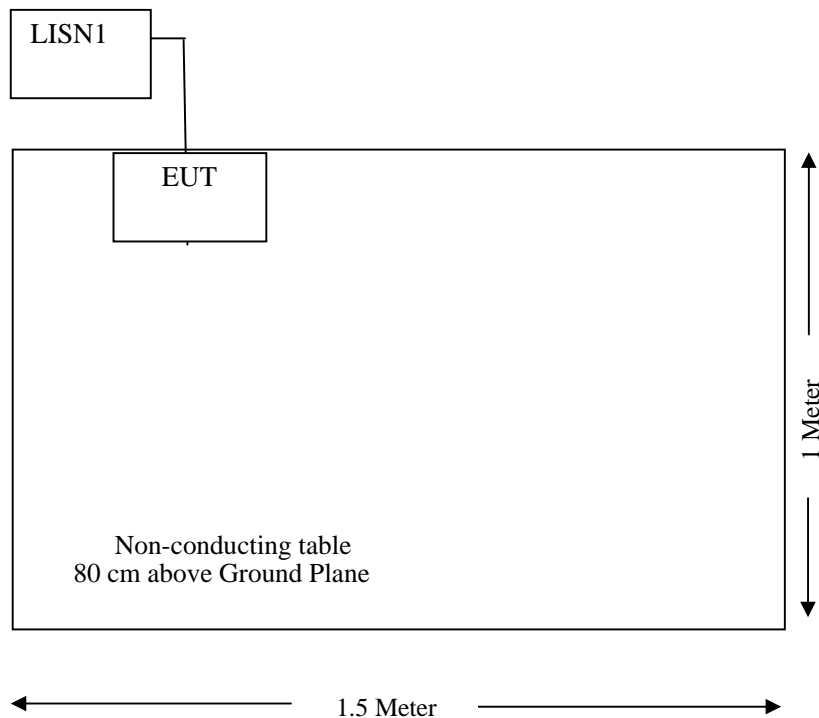
Equipment Modifications

No modifications were made by BEST TEST SERVICE (SHENZHEN) CO., LTD. to ensure the EUT to comply with the application limits and requirements.

Configuration of Test System



Test Setup Block Diagram



CONDUCTED EMISSIONS TEST DATA

Applicable Standard

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 μ H/50 ohms line impedance stabilization network (LISN).

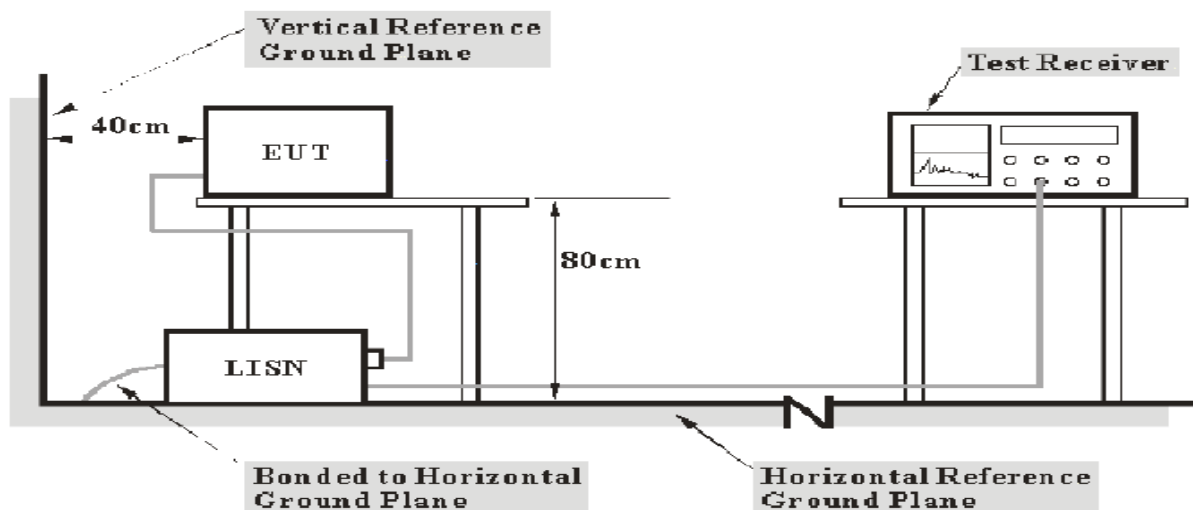
Frequency Range (MHz)	Max RF Voltage (μ V)	Max RF Voltage (dB μ V)
Non-consumer equipment		
0.45 to 1.6	1,000	60.0
1.6 to 30	3,000	69.0
Consumer equipment		
0.45 to 2.51	250	48.0
2.51 to 3.0	3000	69.0
3.0 to 30	250	48.0

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMI. The factors contributing to uncertainties are EMI Test Receiver, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMI Measurements, the best estimate of the uncertainty of any conducted emissions measurement at BEST TEST SERVICE (SHENZHEN) CO., LTD. is ± 2.0 dB.

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 measurement procedure. The specification used was the FCC Part 18 limits.

The EUT was connected to the power cord extension and placed on the left of the back edge on the test table.

The power cord extension was connected with 120 VAC/60 Hz power source.

Test Equipments

Manufacturer	Description	Model	Serial Number	Cal. Date	Cal. Due.Date
ROHDE & SCHWARZ	EMI TEST RECEIVER	ESCS30	100038	2008-08-05	2009-08-05
ROHDE & SCHWARZ	L.I.S.N	ESH2-Z5	100028	2008-08-05	2009-08-05
ROHDE & SCHWARZ	Pulse Limiter	ESHSZ2	100044	2008-08-05	2009-08-05

Statement of traceability: BEST attests that all calibrations have been performed per the CNAL /A2LA requirements, traceable to NIM China

Test Procedure

During the conducted emission test, the power cord of the power cord extension was connected to the auxiliary outlet of the first LISN.

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

All data was recorded in the peak detection mode. Quasi-peak readings were only performed when an emission was found to be marginal (within 4 dB μ V of specification limits). Quasi-peak readings are distinguished with a "Qp".

The EUT was tested under the normal modes during the final qualification test to represent the worst-case results.

Summary of Test Results

Pass

The EUT complied with the FCC 18 Conducted margin for industry, scientific and medical device, and with the worst margin reading of:

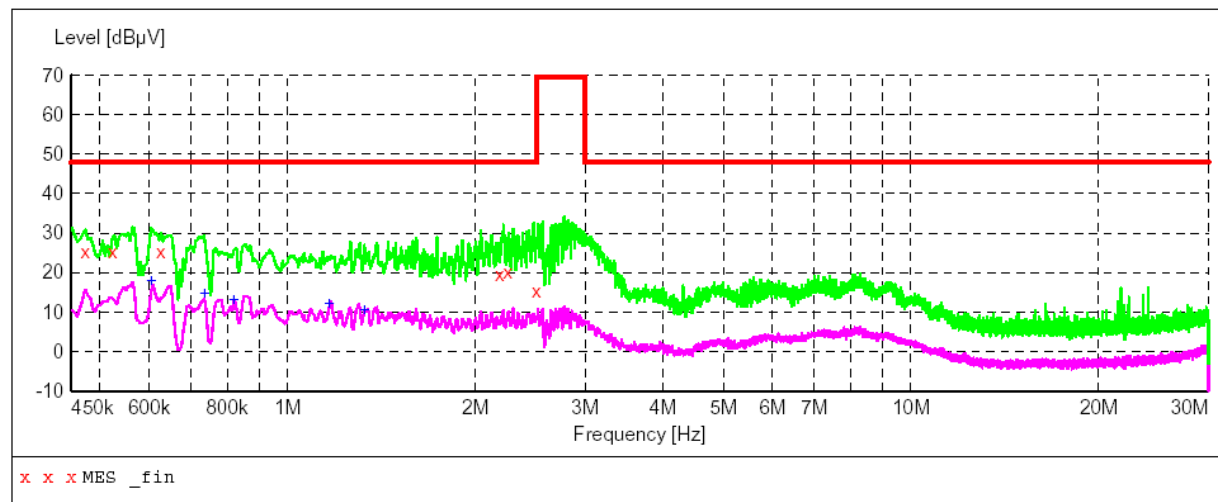
Conducted Emissions Test Data and Plots

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model:ESC-5W
Manufacturer: Zhe Jiang NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

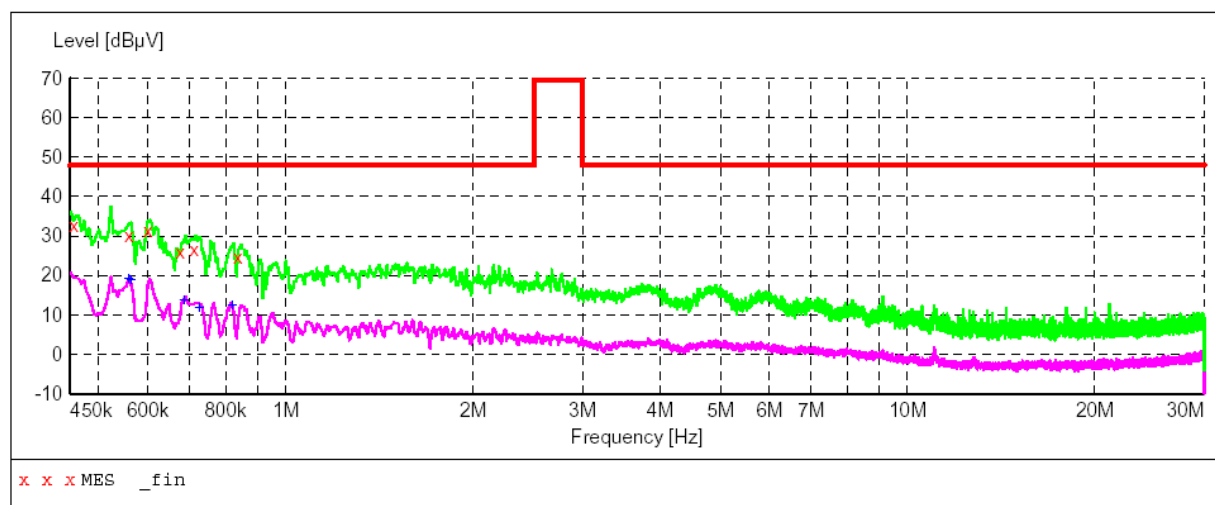
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.474000	25.20	10.6	48	22.7	QP	L1	GND
0.523500	25.10	10.6	48	22.8	QP	L1	GND
0.627000	25.40	10.6	48	22.5	QP	L1	GND
2.188500	19.40	10.7	48	28.5	QP	L1	GND
2.256000	20.20	10.7	48	27.7	QP	L1	GND
2.508000	15.30	10.7	48	32.6	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model:ESC-5W
Manufacturer: Zhe Jiang NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

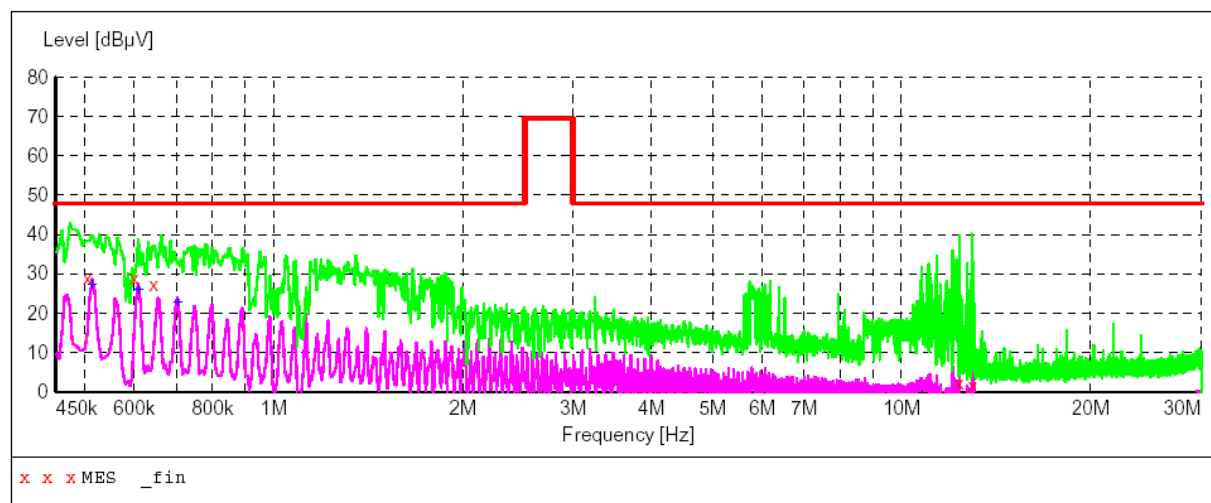
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456000	32.70	10.6	48	15.2	QP	N	GND
0.559500	30.10	10.6	48	17.8	QP	N	GND
0.600000	31.40	10.6	48	16.5	QP	N	GND
0.676500	26.00	10.6	48	21.9	QP	N	GND
0.712500	26.60	10.6	48	21.3	QP	N	GND
0.838500	24.50	10.6	48	23.4	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model:ESC-9W
Manufacturer: Zhe Jiang NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

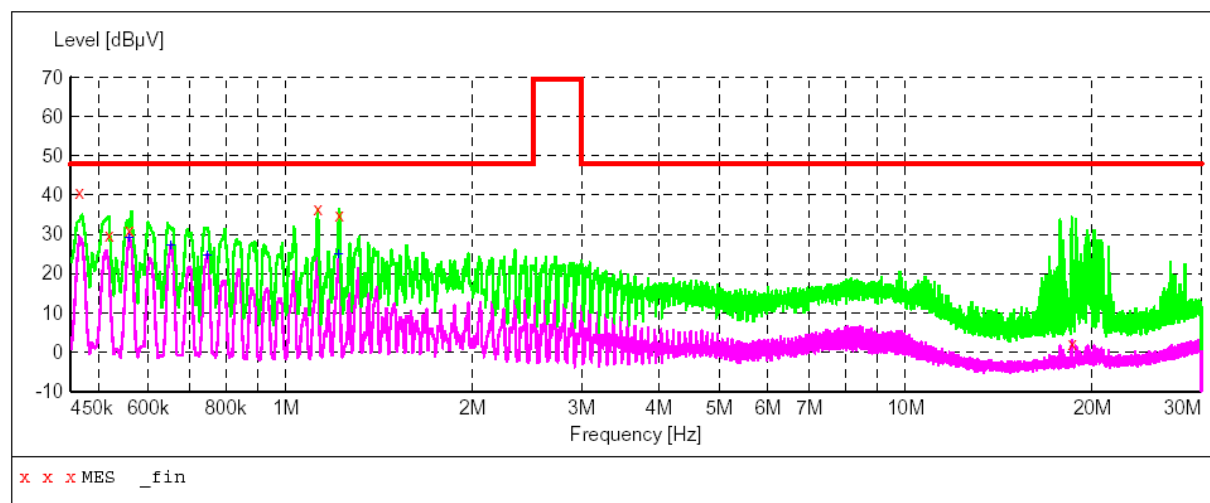
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.505500	28.80	10.6	48	19.1	QP	N	GND
0.600000	28.90	10.6	48	19.0	QP	N	GND
0.645000	27.30	10.6	48	20.6	QP	N	GND
12.327000	2.40	11.0	48	45.5	QP	N	GND
12.943500	1.50	11.0	48	46.4	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model:ESC-9W
Manufacturer: Zhe Jiang NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

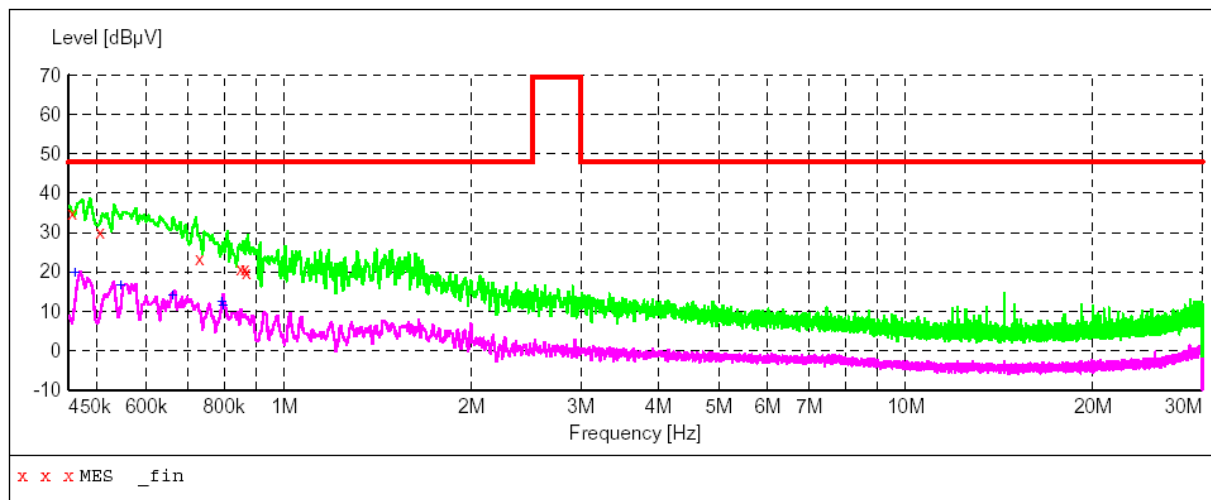
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.465000	40.60	10.6	48	7.3	QP	L1	GND
0.519000	29.80	10.6	48	18.1	QP	L1	GND
0.559500	30.90	10.6	48	17.0	QP	L1	GND
1.126500	36.60	10.7	48	11.3	QP	L1	GND
1.221000	34.90	10.7	48	13.0	QP	L1	GND
18.568500	2.10	11.2	48	45.8	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model: ESD-5W
Manufacturer: Zhe Jiang NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

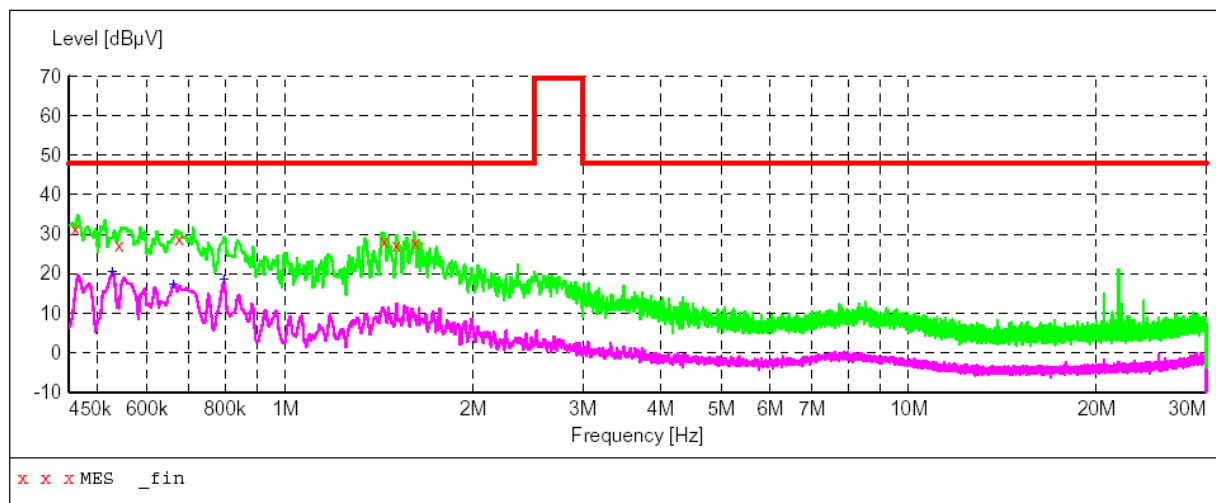
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456000	34.80	10.6	48	13.1	QP	N	GND
0.505500	30.20	10.6	48	17.7	QP	N	GND
0.730500	23.40	10.6	48	24.5	QP	N	GND
0.852000	20.90	10.6	48	27.0	QP	N	GND
0.865500	20.70	10.6	48	27.2	QP	N	GND
0.870000	19.90	10.6	48	28.0	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model: ESD-5W
Manufacturer: Zhe Jiang NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

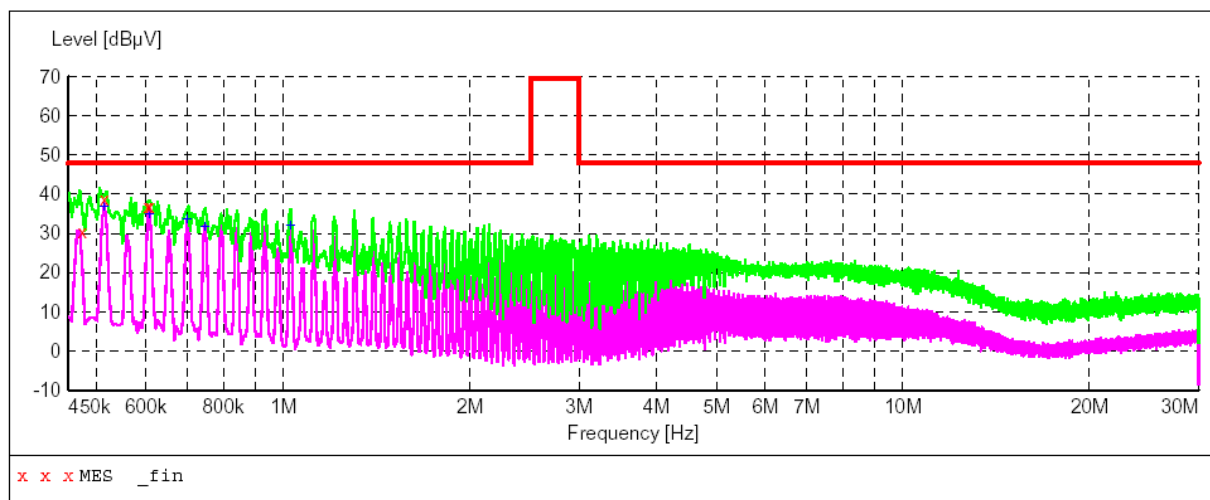
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.460500	31.50	10.6	48	16.4	QP	L1	GND
0.541500	27.20	10.6	48	20.7	QP	L1	GND
0.676500	28.80	10.6	48	19.1	QP	L1	GND
1.441500	28.30	10.7	48	19.6	QP	L1	GND
1.509000	27.20	10.7	48	20.7	QP	L1	GND
1.617000	27.80	10.7	48	20.1	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model:ESD-9W
Manufacturer: Zhe Jiang NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

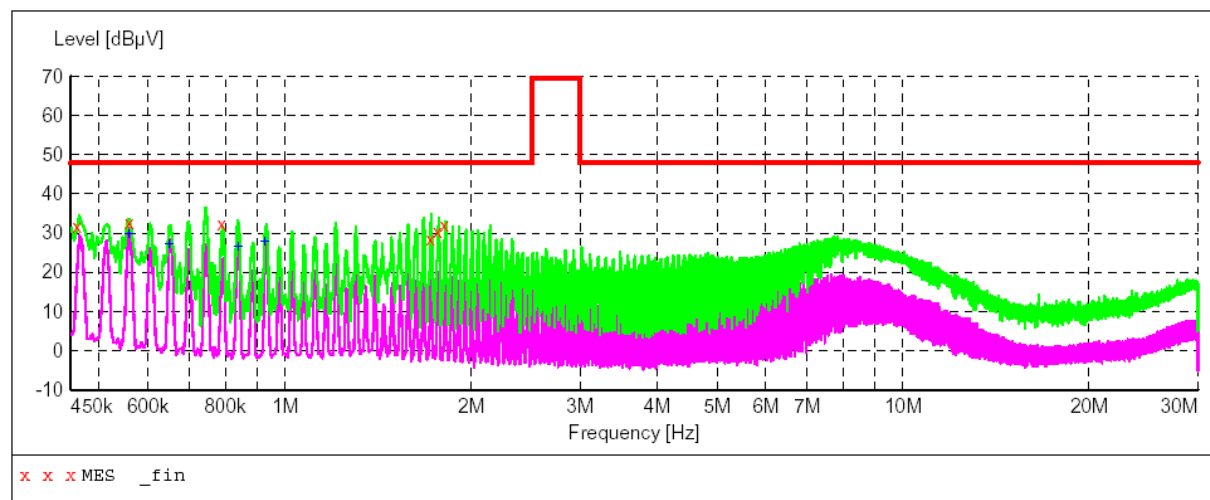
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.474000	30.30	10.6	48	17.6	QP	N	GND
0.514500	38.80	10.6	48	9.1	QP	N	GND
0.604500	36.80	10.6	48	11.1	QP	N	GND
0.609000	36.90	10.6	48	11.0	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model:ESD-9W
Manufacturer: Zhe Jiang NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

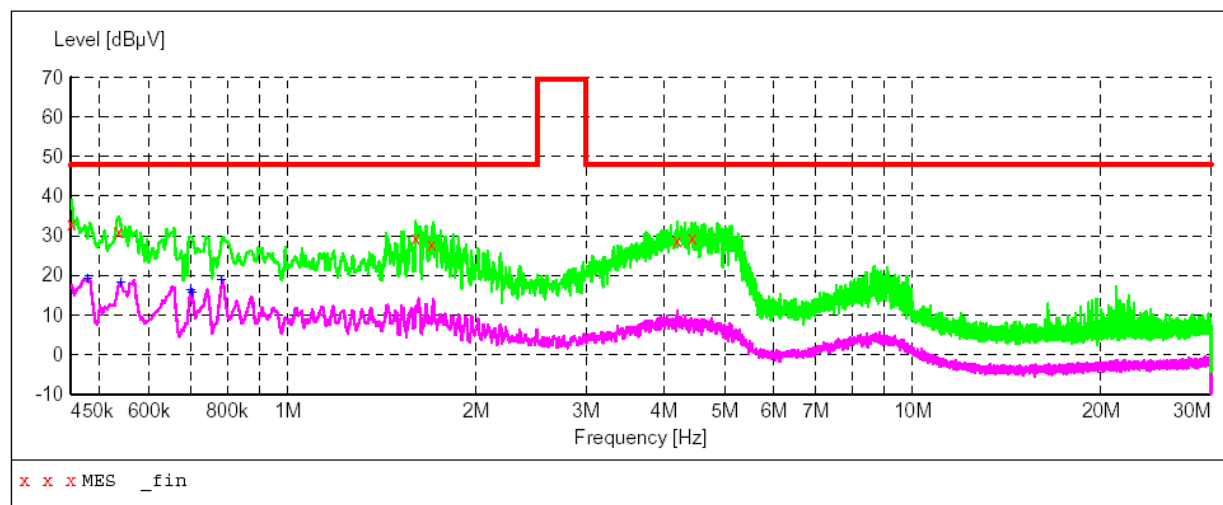
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.460500	31.80	10.6	48	16.1	QP	L1	GND
0.559500	32.60	10.6	48	15.3	QP	L1	GND
0.789000	32.50	10.6	48	15.4	QP	L1	GND
1.720500	28.60	10.7	48	19.3	QP	L1	GND
1.765500	30.50	10.7	48	17.4	QP	L1	GND
1.810500	31.90	10.7	48	16.0	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-9W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

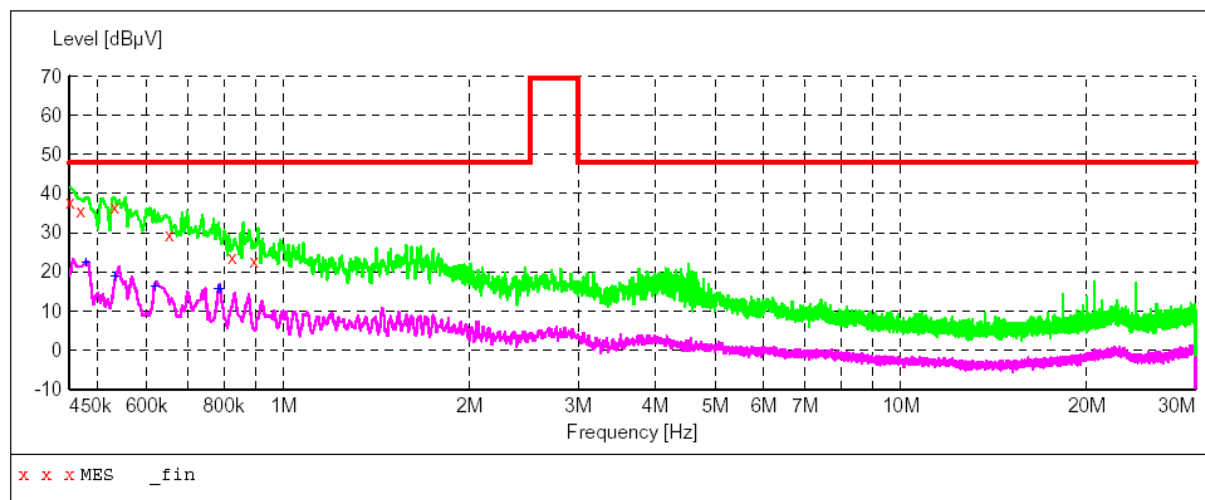
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.451500	33.00	10.1	48	14.9	QP	N	GND
0.537000	31.10	10.1	48	16.8	QP	N	GND
1.603500	29.30	10.2	48	18.6	QP	N	GND
1.698000	27.80	10.2	48	20.1	QP	N	GND
4.195500	28.80	10.3	48	19.1	QP	N	GND
4.443000	29.60	10.3	48	18.3	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-9W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

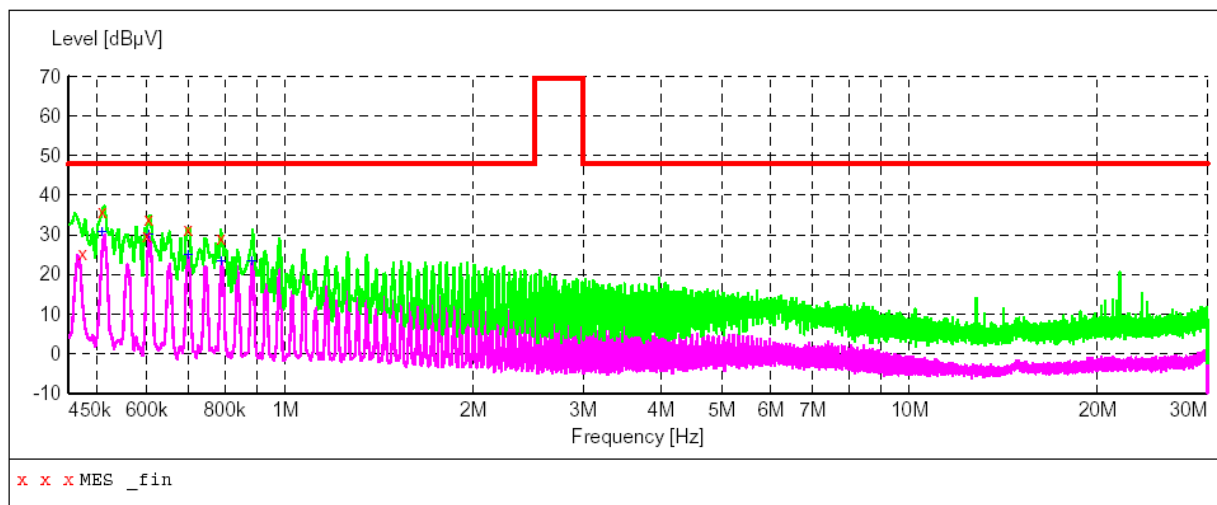
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.451500	37.70	10.1	48	10.2	QP	L1	GND
0.469500	35.40	10.1	48	12.5	QP	L1	GND
0.532500	36.60	10.1	48	11.3	QP	L1	GND
0.654000	29.50	10.1	48	18.4	QP	L1	GND
0.825000	23.60	10.1	48	24.3	QP	L1	GND
0.897000	22.60	10.1	48	25.3	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-13W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

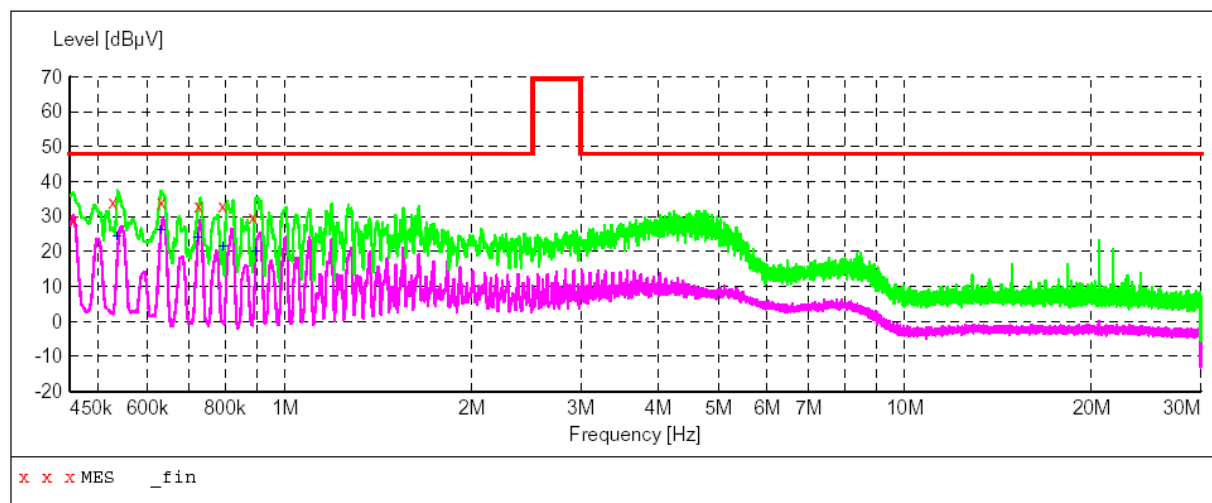
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.474000	25.40	10.1	48	22.5	QP	L1	GND
0.510000	36.00	10.1	48	11.9	QP	L1	GND
0.600000	29.80	10.1	48	18.1	QP	L1	GND
0.604500	33.80	10.1	48	14.1	QP	L1	GND
0.699000	31.30	10.1	48	16.6	QP	L1	GND
0.789000	29.00	10.1	48	18.9	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-13W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

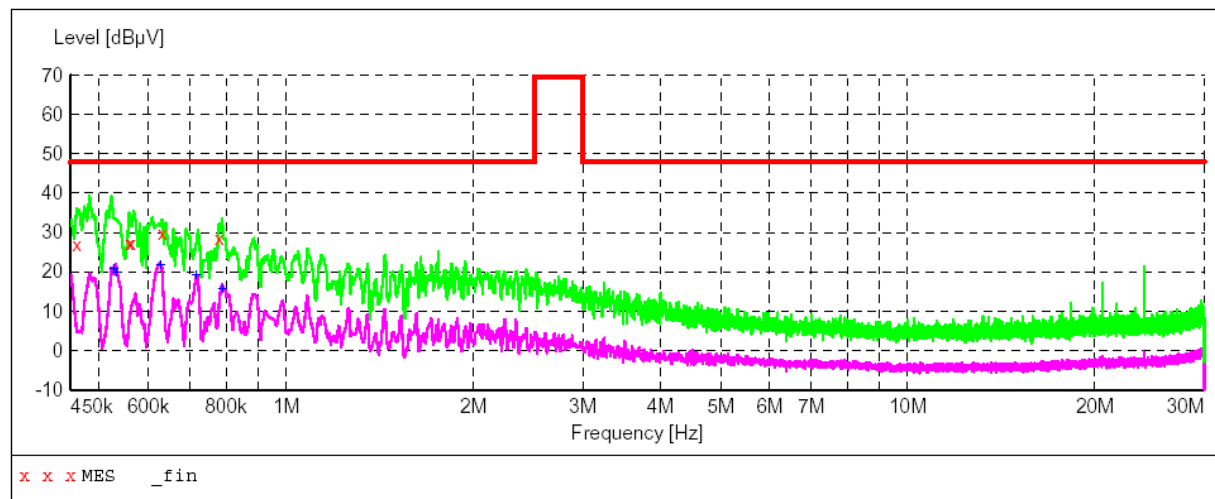
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456000	28.90	10.1	48	19.0	QP	N	GND
0.528000	34.10	10.1	48	13.8	QP	N	GND
0.631500	34.30	10.1	48	13.6	QP	N	GND
0.726000	33.00	10.1	48	14.9	QP	N	GND
0.793500	33.20	10.1	48	14.7	QP	N	GND
0.888000	29.80	10.1	48	18.1	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-15W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

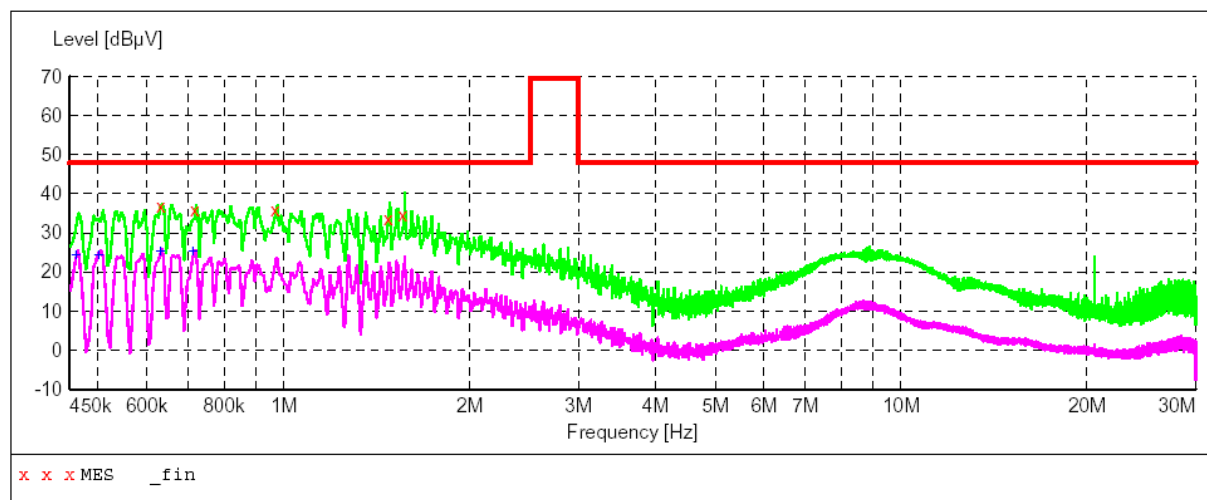
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.460500	26.80	10.1	48	21.1	QP	L1	GND
0.559500	27.30	10.1	48	20.6	QP	L1	GND
0.564000	27.20	10.1	48	20.7	QP	L1	GND
0.631500	29.70	10.1	48	18.2	QP	L1	GND
0.780000	28.50	10.1	48	19.4	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO., LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-15W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

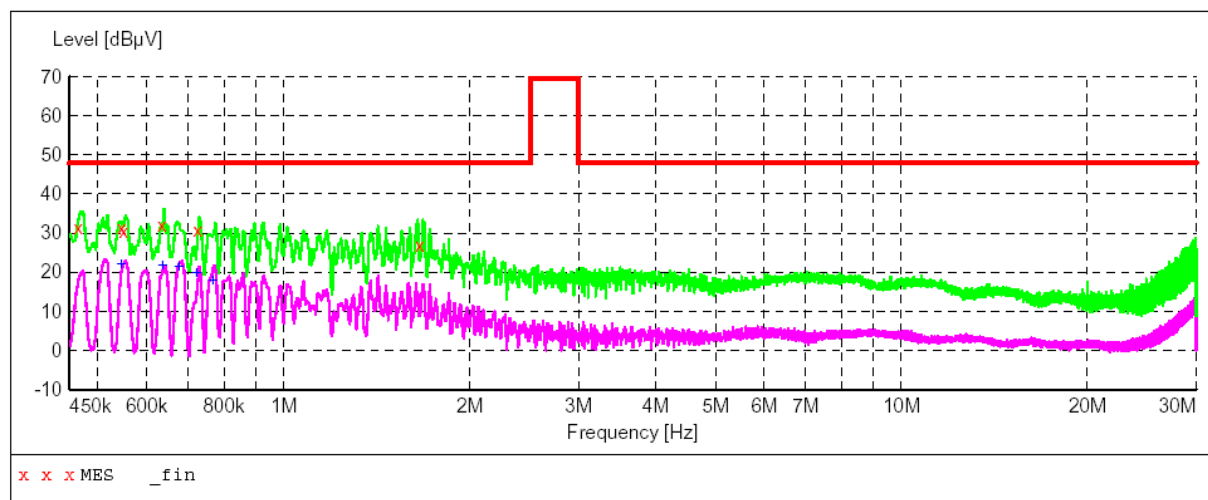
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.631500	36.70	10.1	48	11.2	QP	N	GND
0.717000	36.00	10.1	48	11.9	QP	N	GND
0.969000	35.90	10.2	48	12.0	QP	N	GND
1.477500	33.50	10.2	48	14.4	QP	N	GND
1.558500	34.60	10.2	48	13.3	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-18W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

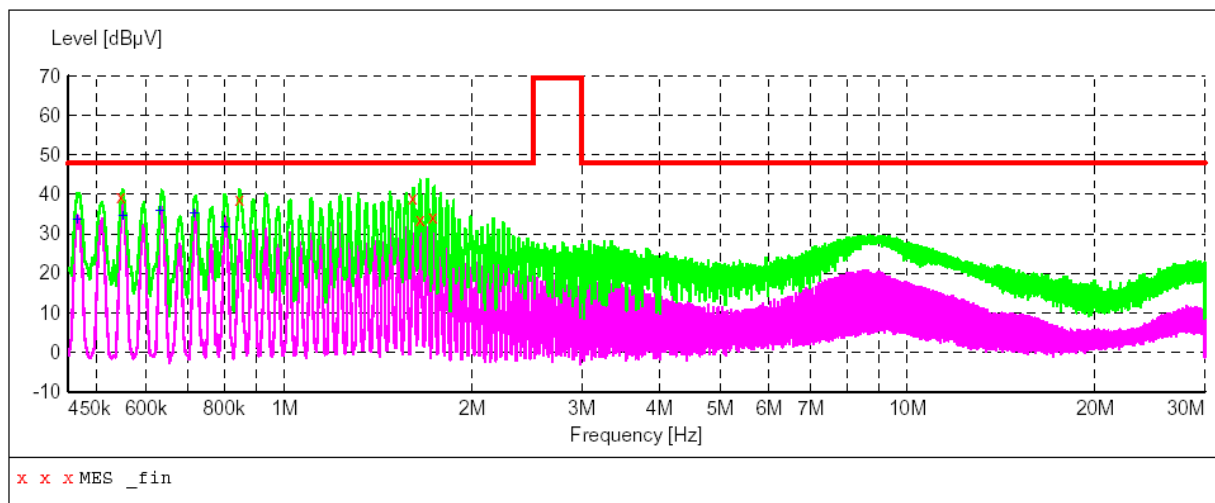
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.465000	31.40	10.1	48	16.5	QP	L1	GND
0.546000	31.50	10.1	48	16.4	QP	L1	GND
0.550500	30.30	10.1	48	17.6	QP	L1	GND
0.636000	32.10	10.1	48	15.8	QP	L1	GND
0.726000	30.80	10.1	48	17.1	QP	L1	GND
1.662000	26.80	10.2	48	21.1	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-18W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

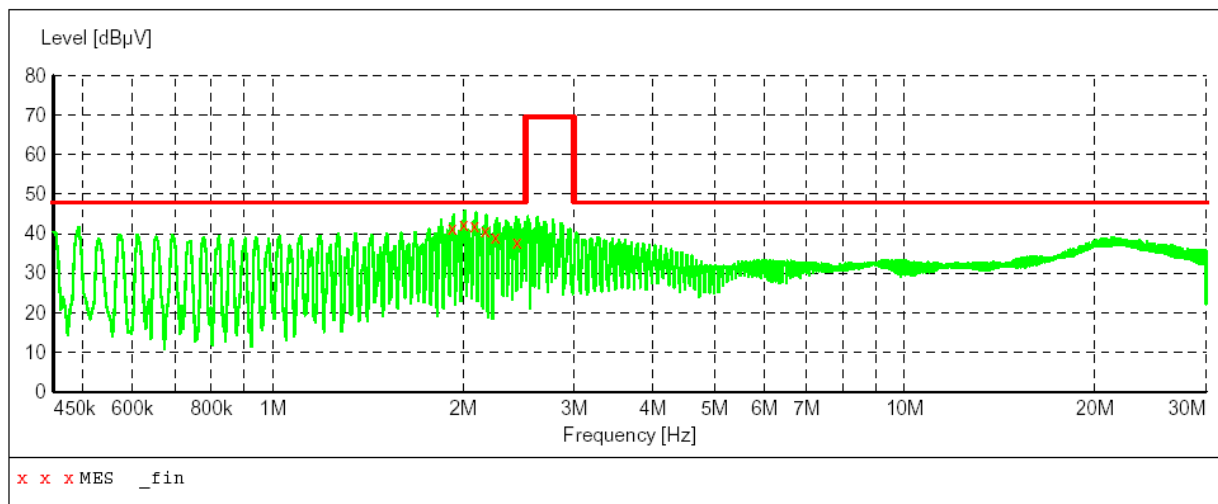
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.546000	39.40	10.1	48	8.5	QP	N	GND
0.847500	38.80	10.1	48	9.1	QP	N	GND
1.608000	39.20	10.2	48	8.7	QP	N	GND
1.653000	33.70	10.2	48	14.2	QP	N	GND
1.729500	34.40	10.2	48	13.5	QP	N	GND

BEST Test Service Shenzhen Co., Ltd**Voltage Mains Test FCC PART 18**

EUT: CFL M/N: ESH-20W
Manufacturer: NVC
Operating Condition: ON
Test Site: SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

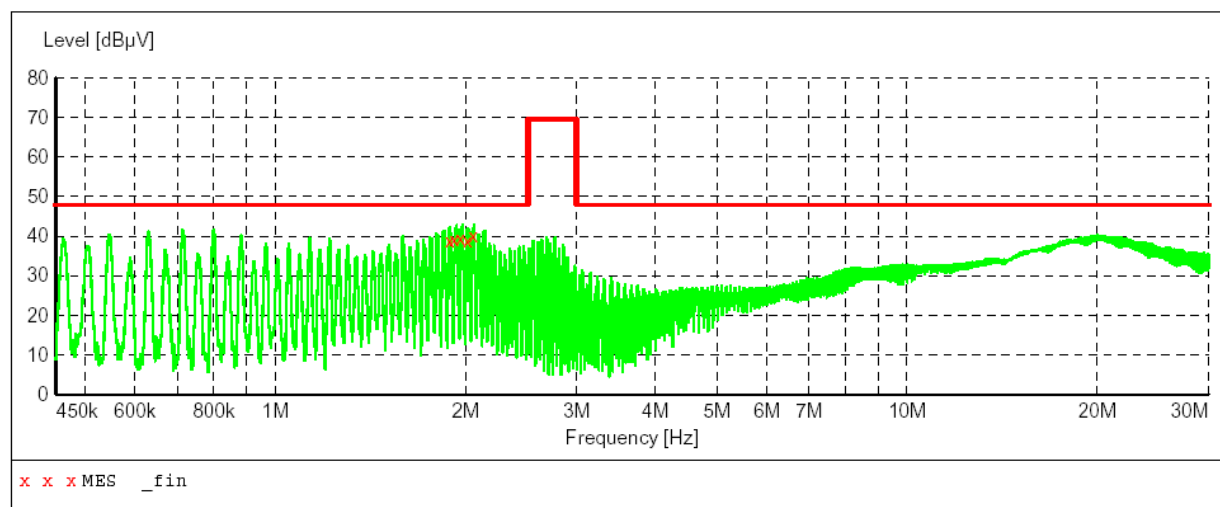
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.924000	41.40	10.2	48	6.5	QP	N	GND
2.006000	42.30	10.2	48	5.6	QP	N	GND
2.088000	42.10	10.2	48	5.8	QP	N	GND
2.170000	40.90	10.2	48	7.0	QP	N	GND
2.252000	39.00	10.2	48	8.9	QP	N	GND
2.438000	37.90	10.2	48	10.0	QP	N	GND

BEST Test Service Shenzhen Co., Ltd**Voltage Mains Test FCC PART 18**

EUT: CFL M/N: ESH-20W
Manufacturer: NVC
Operating Condition: ON
Test Site: SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

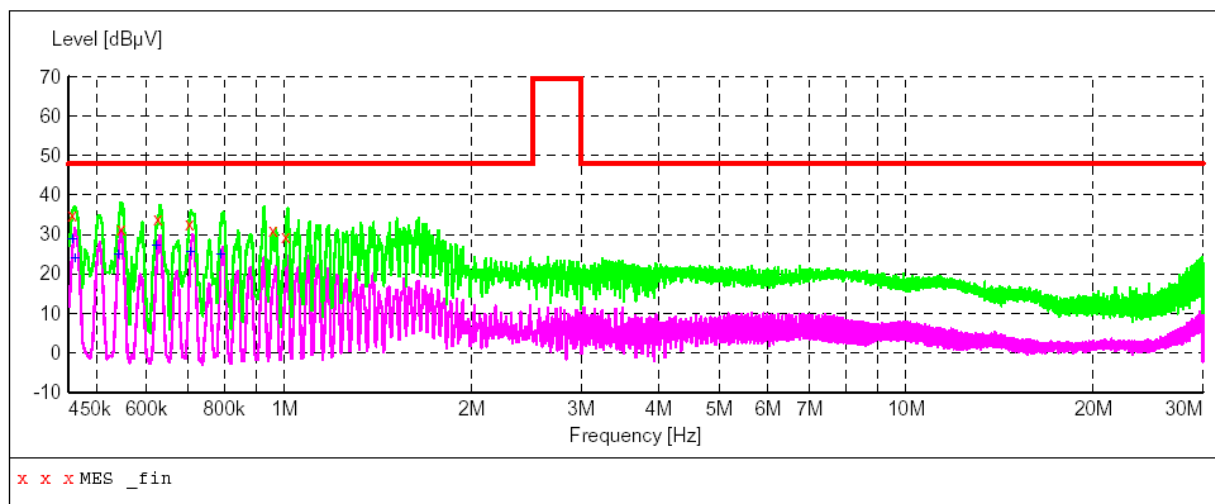
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.888000	39.00	10.2	48	8.9	QP	L1	GND
1.920000	39.20	10.2	48	8.7	QP	L1	GND
1.962000	39.50	10.2	48	8.4	QP	L1	GND
2.014000	39.00	10.2	48	8.9	QP	L1	GND
2.056000	40.00	10.2	48	7.9	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-23W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

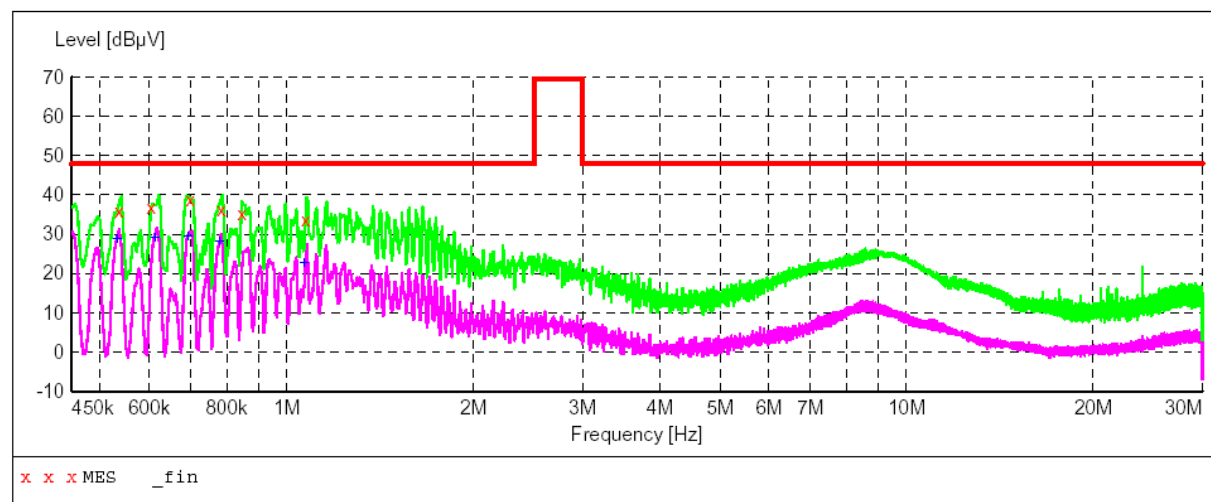
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456000	34.90	10.1	48	13.0	QP	L1	GND
0.546000	31.40	10.1	48	16.5	QP	L1	GND
0.627000	33.80	10.1	48	14.1	QP	L1	GND
0.703500	32.70	10.1	48	15.2	QP	L1	GND
0.960000	31.00	10.2	48	16.9	QP	L1	GND
1.005000	29.50	10.2	48	18.4	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-23W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

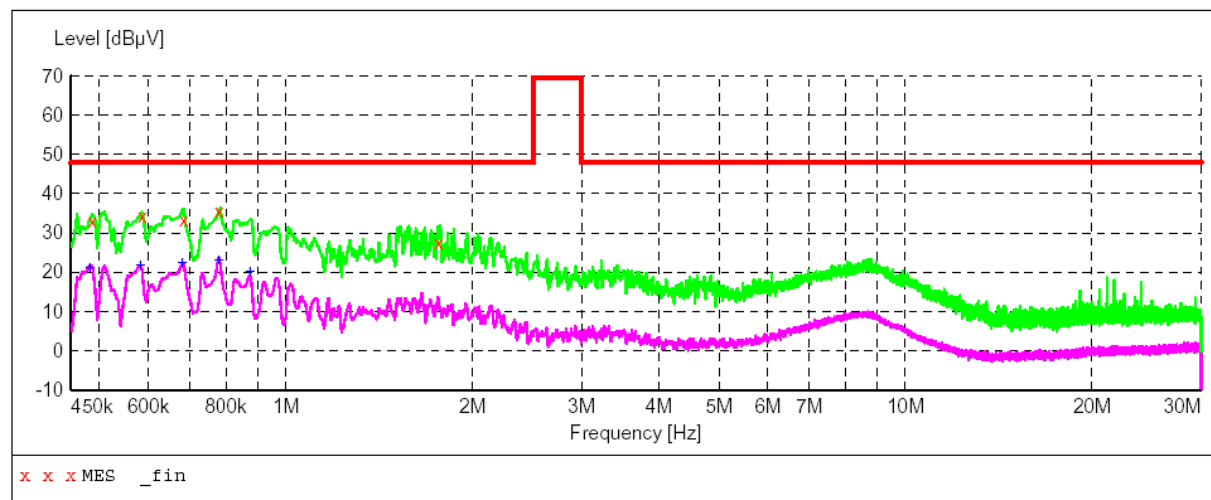
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.537000	35.90	10.1	48	12.0	QP	N	GND
0.604500	36.70	10.1	48	11.2	QP	N	GND
0.699000	38.80	10.1	48	9.1	QP	N	GND
0.784500	36.20	10.1	48	11.7	QP	N	GND
0.847500	35.20	10.1	48	12.7	QP	N	GND
1.072500	33.70	10.2	48	14.2	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-26W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

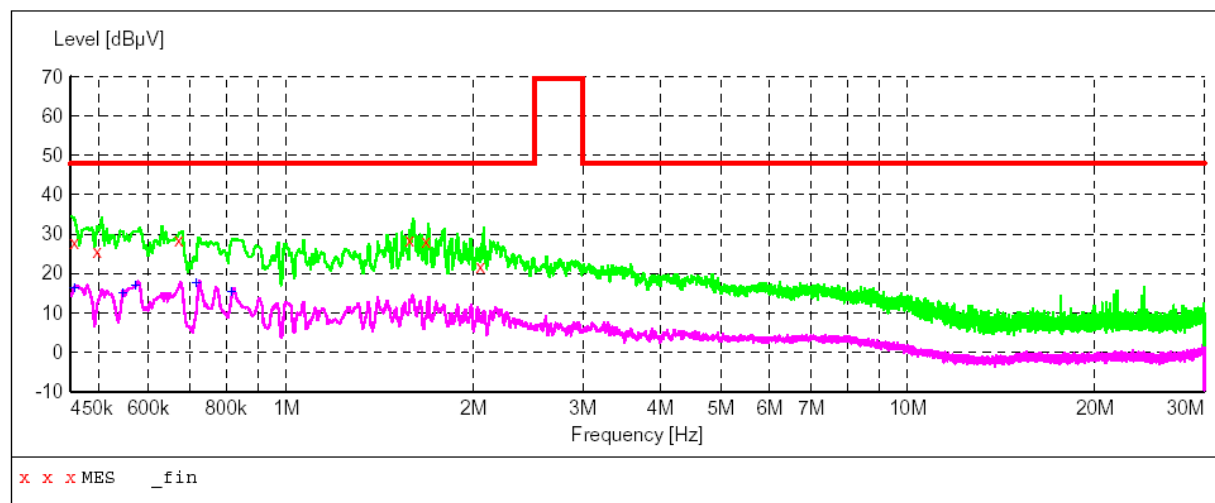
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.487500	33.00	10.1	48	14.9	QP	N	GND
0.586500	34.20	10.1	48	13.7	QP	N	GND
0.685500	33.40	10.1	48	14.5	QP	N	GND
0.780000	35.60	10.1	48	12.3	QP	N	GND
1.765500	27.40	10.2	48	20.5	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-26W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

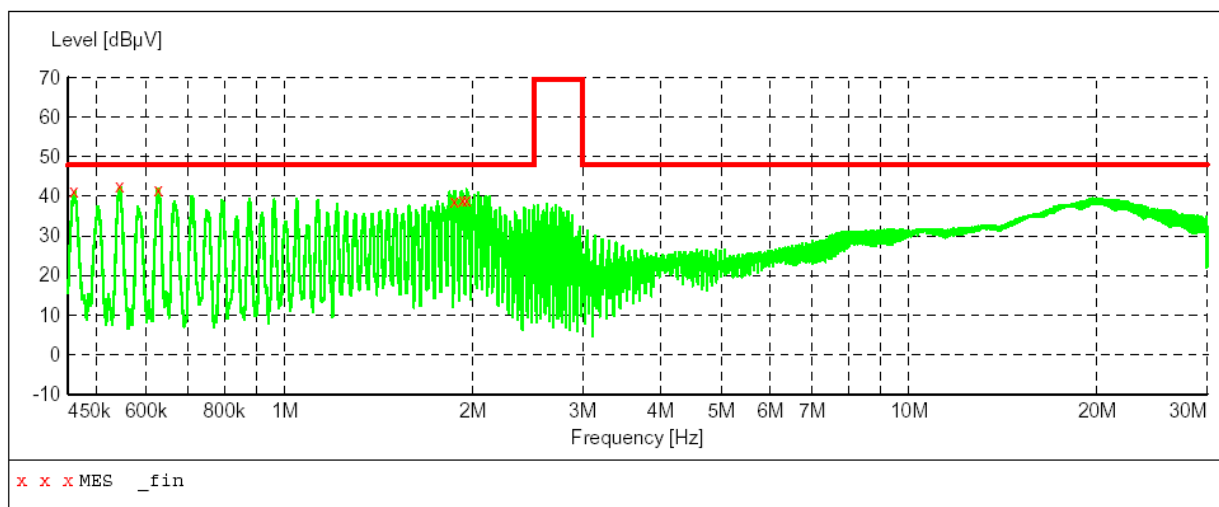
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456000	27.70	10.1	48	20.2	QP	L1	GND
0.496500	25.60	10.1	48	22.3	QP	L1	GND
0.672000	28.60	10.1	48	19.3	QP	L1	GND
1.581000	28.50	10.2	48	19.4	QP	L1	GND
1.680000	28.20	10.2	48	19.7	QP	L1	GND
2.053500	21.60	10.2	48	26.3	QP	L1	GND

BEST Test Service Shenzhen Co., Ltd**Voltage Mains Test FCC PART 18**

EUT: CFL M/N:ESU-9W
Manufacturer: NVC
Operating Condition: ON
Test Site: SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

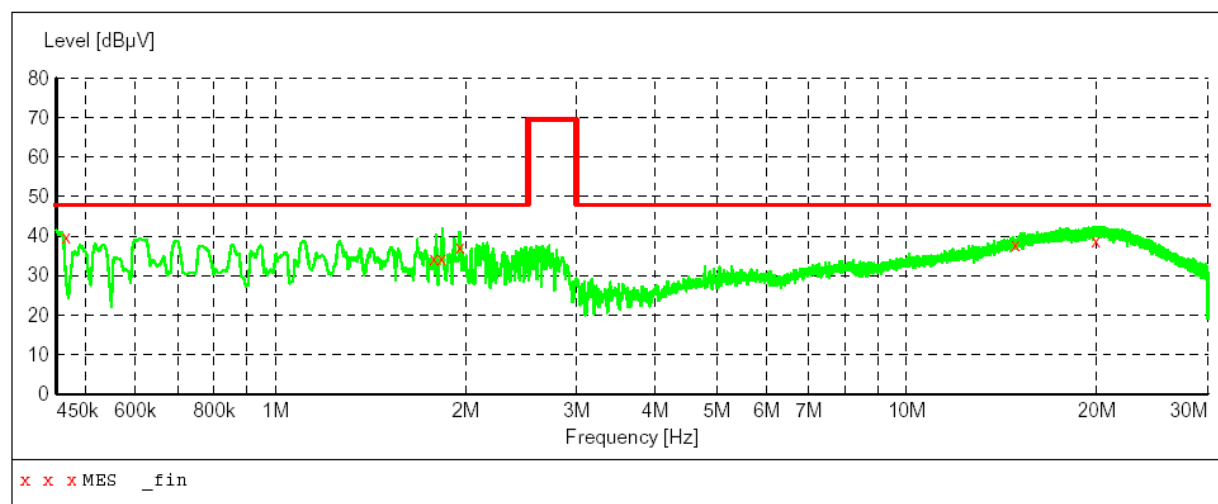
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.460000	41.30	10.1	48	6.6	QP	N	GND
0.544000	42.60	10.1	48	5.3	QP	N	GND
0.628000	41.70	10.1	48	6.2	QP	N	GND
1.872000	38.70	10.2	48	9.2	QP	N	GND
1.928000	39.20	10.2	48	8.7	QP	N	GND
1.956000	39.20	10.2	48	8.7	QP	N	GND

BEST Test Service Shenzhen Co., Ltd**Voltage Mains Test FCC PART 18**

EUT: CFL M/N:ESU-9W
Manufacturer: NVC
Operating Condition: ON
Test Site: SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

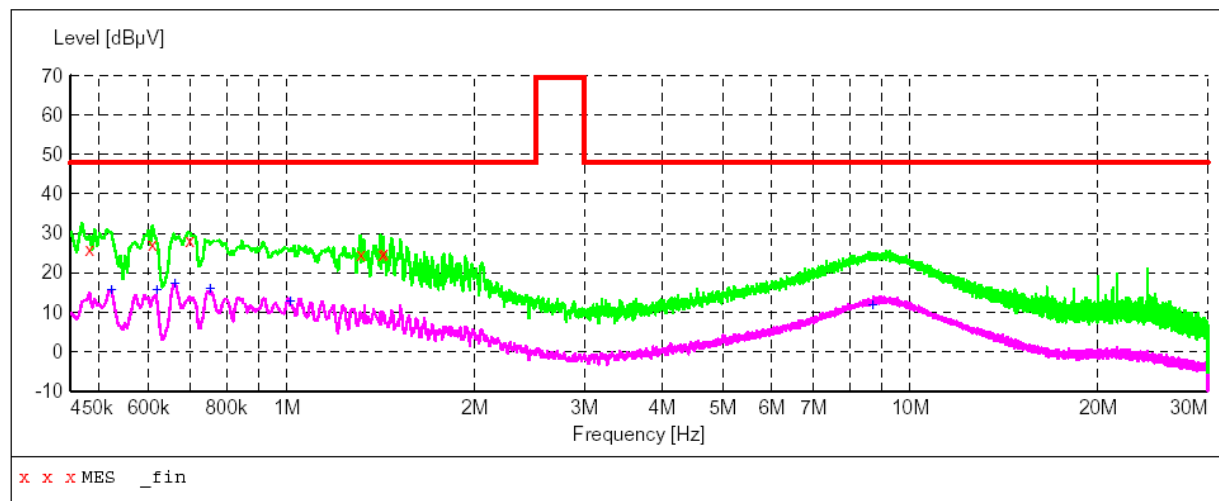
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.466000	39.90	10.1	48	8.0	QP	L1	GND
1.782000	34.30	10.2	48	13.6	QP	L1	GND
1.832000	34.40	10.2	48	13.5	QP	L1	GND
1.958000	37.20	10.2	48	10.7	QP	L1	GND
14.876000	37.90	10.6	48	10.0	QP	L1	GND
19.952000	38.80	11.1	48	9.1	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESU-13W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

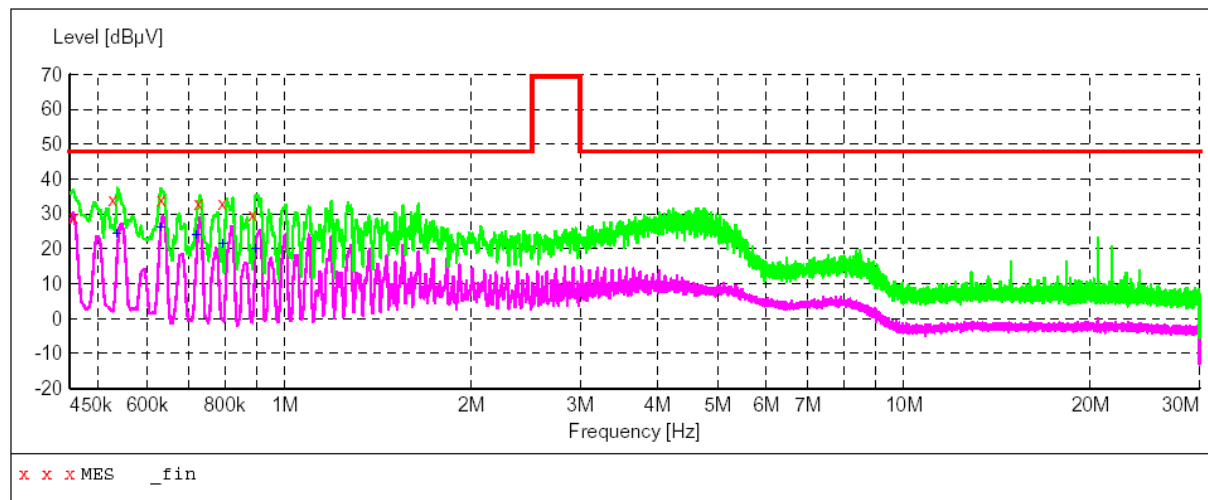
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.483000	25.80	10.1	48	22.1	QP	N	GND
0.609000	27.10	10.1	48	20.8	QP	N	GND
0.699000	28.30	10.1	48	19.6	QP	N	GND
1.315500	24.60	10.2	48	23.3	QP	N	GND
1.423500	24.70	10.2	48	23.2	QP	N	GND
1.432500	24.80	10.2	48	23.1	QP	N	GND

BEST TEST SERVICE SHENZHEN CO., LTD**Voltage Mains Test FCC 18**

EUT: CFL M/N: ESH-13W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

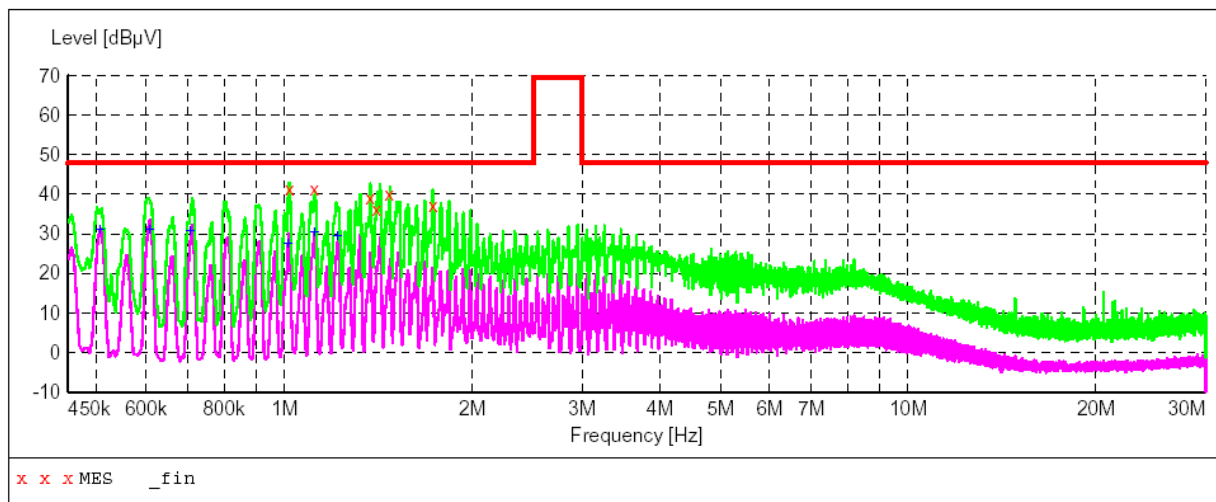
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456000	28.90	10.1	48	19.0	QP	L	GND
0.528000	34.10	10.1	48	13.8	QP	L	GND
0.631500	34.30	10.1	48	13.6	QP	L	GND
0.726000	33.00	10.1	48	14.9	QP	L	GND
0.793500	33.20	10.1	48	14.7	QP	L	GND
0.888000	29.80	10.1	48	18.1	QP	L	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model:ESU-15W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

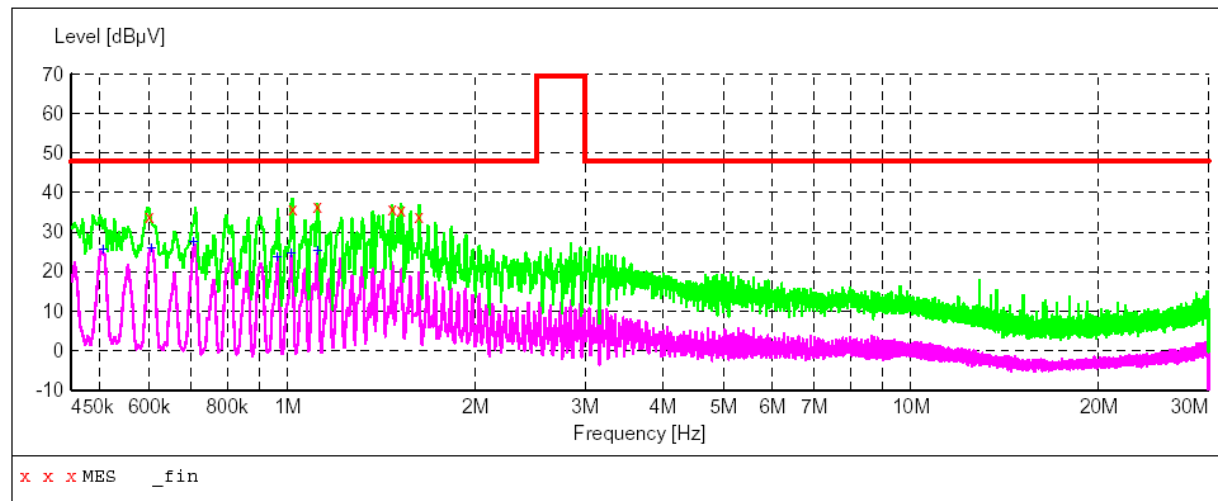
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.018500	41.20	10.7	48	6.7	QP	L1	GND
1.117500	41.50	10.7	48	6.4	QP	L1	GND
1.374000	39.10	10.7	48	8.8	QP	L1	GND
1.405500	36.30	10.7	48	11.6	QP	L1	GND
1.473000	40.00	10.7	48	7.9	QP	L1	GND
1.729500	37.20	10.7	48	10.7	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model:ESU-15W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

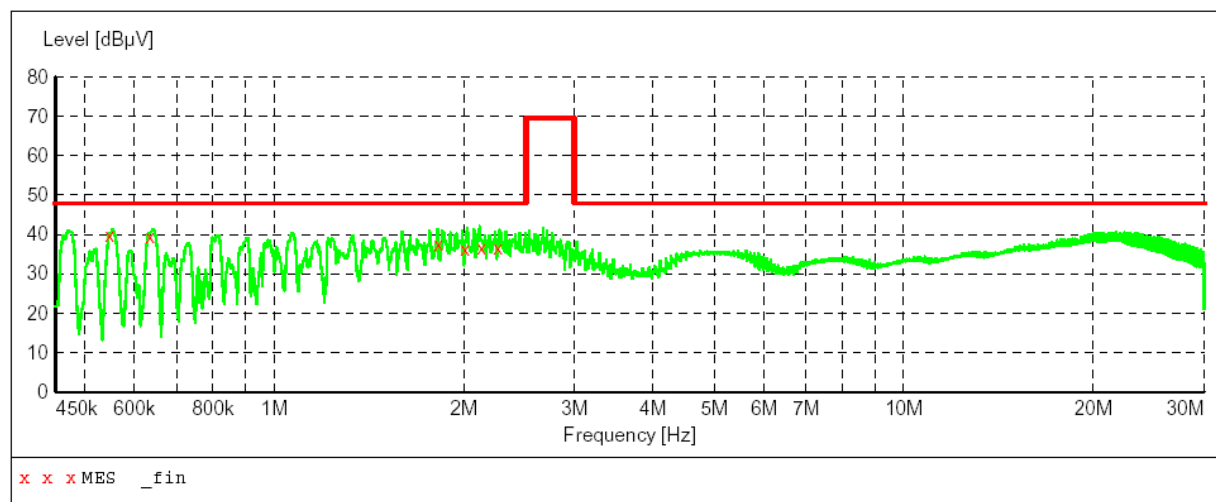
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.600000	34.00	10.6	48	13.9	QP	N	GND
1.018500	35.90	10.7	48	12.0	QP	N	GND
1.117500	36.40	10.7	48	11.5	QP	N	GND
1.473000	35.90	10.7	48	12.0	QP	N	GND
1.522500	35.60	10.7	48	12.3	QP	N	GND
1.626000	33.80	10.7	48	14.1	QP	N	GND

BEST Test Service Shenzhen Co., Ltd**Voltage Mains Test FCC PART 18**

EUT: CFL M/N:ESU-18W
Manufacturer: NVC
Operating Condition: ON
Test Site: SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

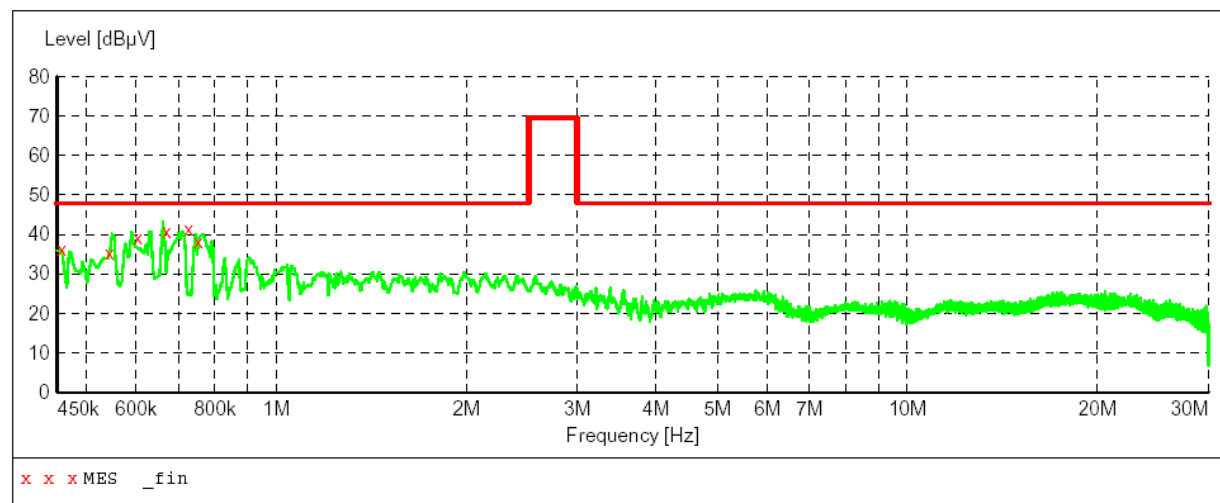
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.548000	39.80	10.1	48	8.1	QP	N	GND
0.636000	39.40	10.1	48	8.5	QP	N	GND
1.826000	37.70	10.2	48	10.2	QP	N	GND
2.012000	36.20	10.2	48	11.7	QP	N	GND
2.136000	36.50	10.2	48	11.4	QP	N	GND
2.266000	36.70	10.2	48	11.2	QP	N	GND

BEST Test Service Shenzhen Co., Ltd**Voltage Mains Test FCC PART 18**

EUT: CFL M/N:ESU-18W
Manufacturer: NVC
Operating Condition: ON
Test Site: SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

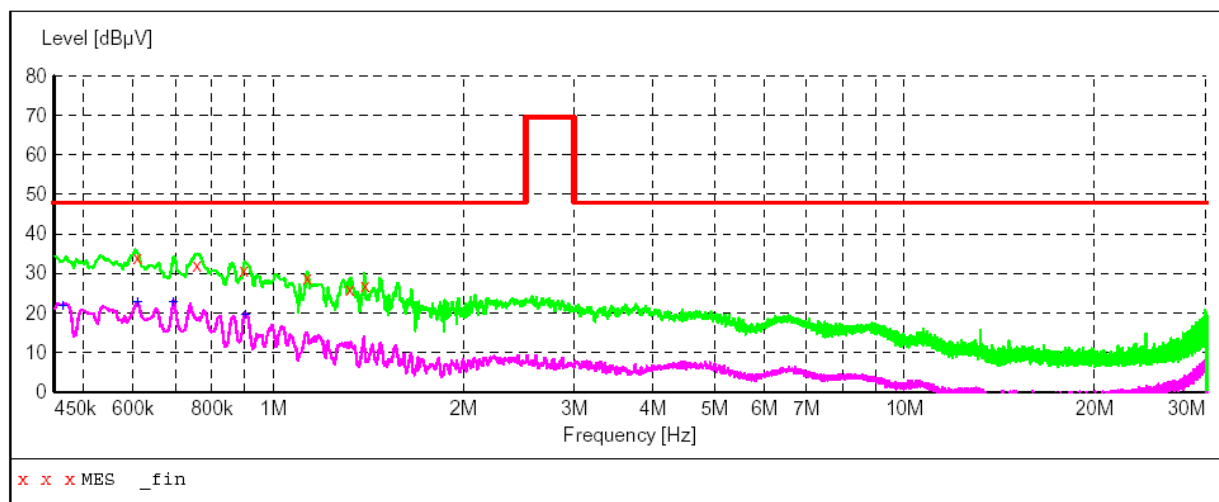
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.458000	36.40	10.1	48	11.5	QP	L	GND
0.544000	35.20	10.1	48	12.7	QP	L	GND
0.604000	39.30	10.1	48	8.6	QP	L	GND
0.670000	40.60	10.1	48	7.3	QP	L	GND
0.726000	41.50	10.1	48	6.4	QP	L	GND
0.752000	38.30	10.1	48	9.6	QP	L	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model: ESU-20W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

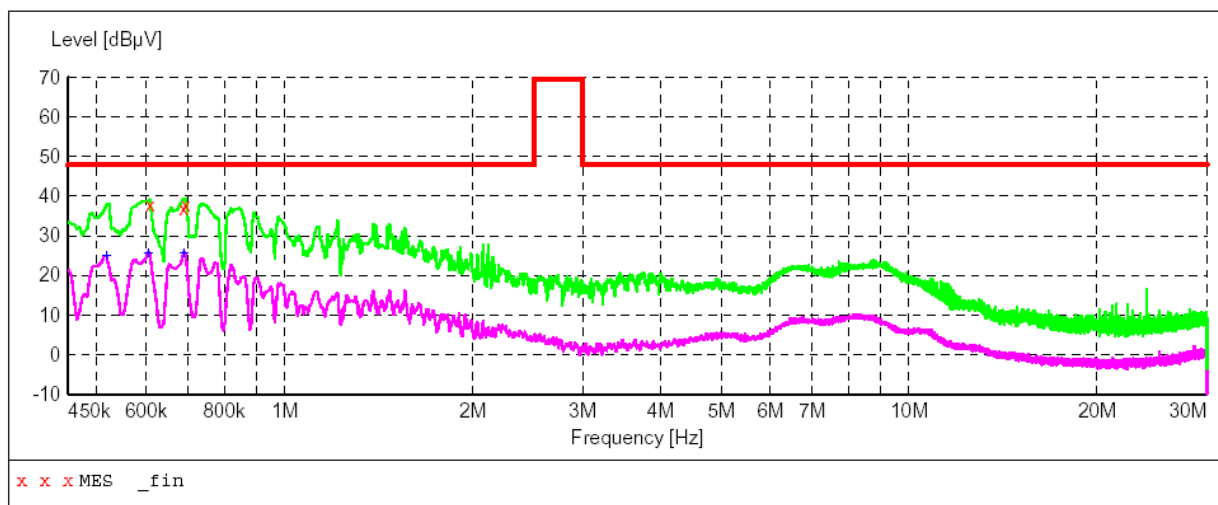
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.609000	34.30	10.6	48	13.6	QP	N	GND
0.757500	32.40	10.6	48	15.5	QP	N	GND
0.897000	31.00	10.6	48	16.9	QP	N	GND
1.131000	29.20	10.7	48	18.7	QP	N	GND
1.320000	26.20	10.7	48	21.7	QP	N	GND
1.396500	27.10	10.7	48	20.8	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC Part 18**

EUT: CFL Model: ESU-20W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Paul
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/10/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

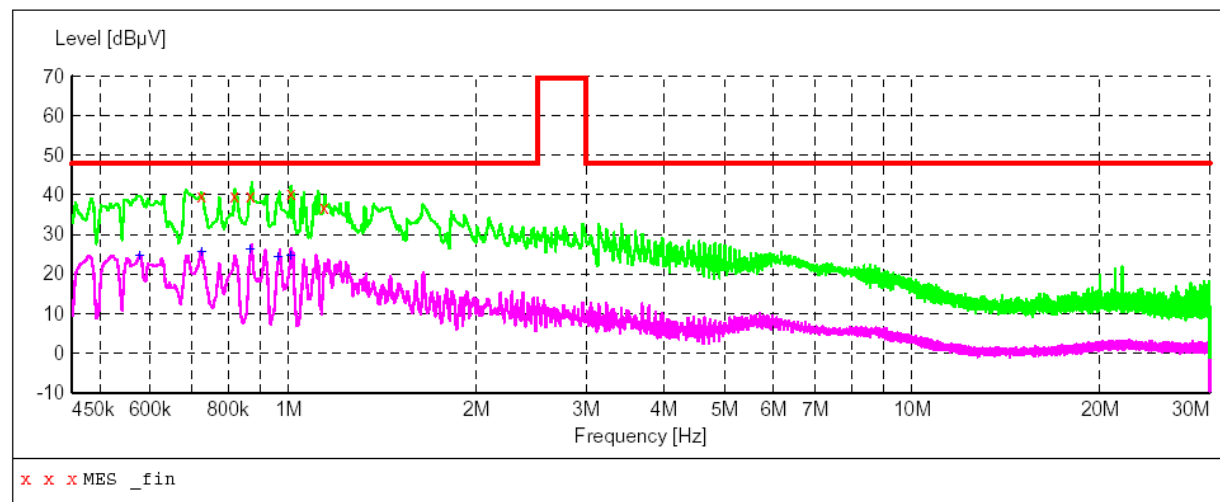
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.609000	37.70	10.6	48	10.2	QP	L1	GND
0.690000	36.70	10.6	48	11.2	QP	L1	GND
0.694500	37.90	10.6	48	10.0	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL Model: ESU-23W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

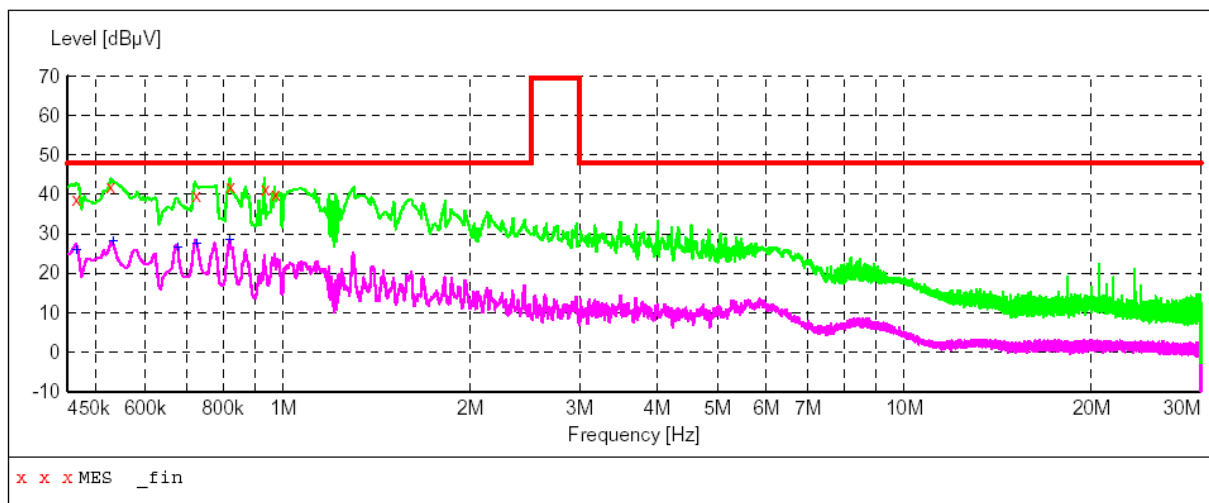
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.726000	39.60	10.1	48	8.3	QP	N	GND
0.820500	39.70	10.1	48	8.2	QP	N	GND
0.870000	39.80	10.1	48	8.1	QP	N	GND
1.009500	40.40	10.2	48	7.5	QP	N	GND
1.140000	37.00	10.2	48	10.9	QP	N	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL Model: ESU-23W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

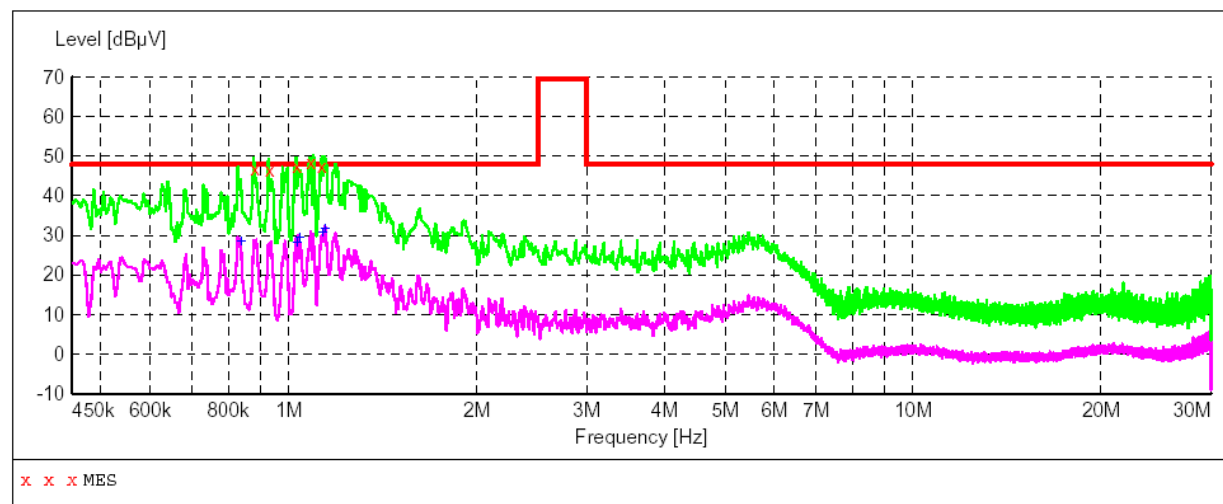
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.465000	38.80	10.1	48	9.1	QP	L1	GND
0.528000	42.00	10.1	48	5.9	QP	L1	GND
0.726000	39.60	10.1	48	8.3	QP	L1	GND
0.825000	42.10	10.1	48	5.8	QP	L1	GND
0.937500	41.50	10.1	48	6.4	QP	L1	GND
0.973500	40.20	10.2	48	7.7	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL Model: ESU-26W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

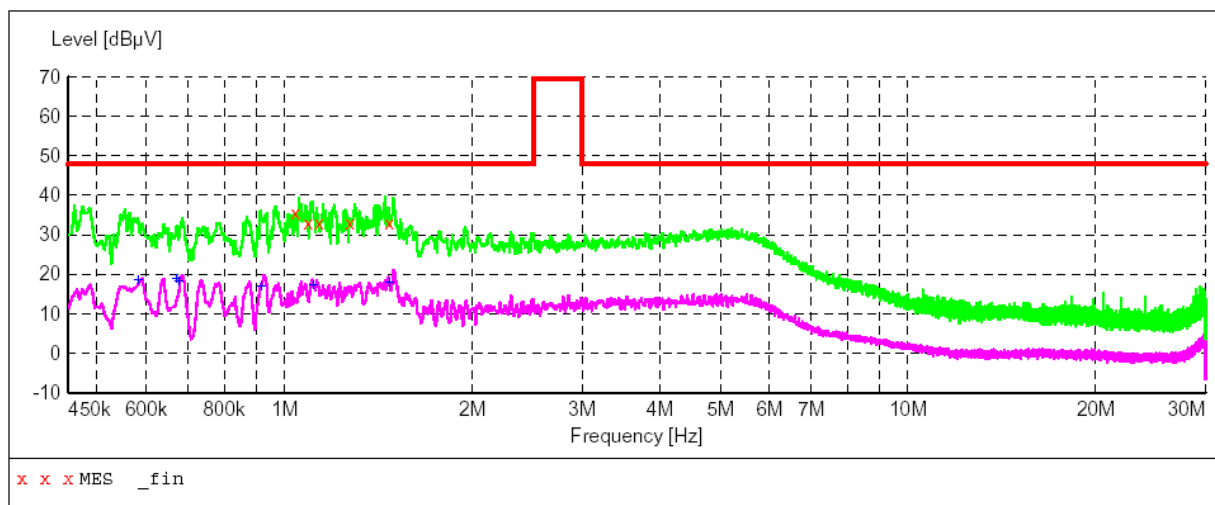
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.883500	46.70	10.1	48	1.3	QP	L1	GND
0.933000	46.50	10.1	48	1.5	QP	L1	GND
1.032000	47.40	10.2	48	0.5	QP	L1	GND
1.086000	47.40	10.2	48	0.6	QP	L1	GND
1.131000	47.50	10.2	48	0.5	QP	L1	GND

BEST TEST SERVICE SHENZHEN CO.,LTD**Voltage Mains Test FCC 18**

EUT: CFL Model: ESU-26W
Manufacturer: NVC
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: SAM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 8/13/2008

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT:**

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.041000	35.60	10.2	48	12.3	QP	N	GND
1.090500	33.00	10.2	48	14.9	QP	N	GND
1.135500	33.00	10.2	48	14.9	QP	N	GND
1.275000	33.00	10.2	48	14.9	QP	N	GND
1.473000	32.90	10.2	48	15.0	QP	N	GND