EMC TEST REPORT

FCC ID: 2AUHG-FM-NI5C

Report No.	:	SSP24030197-1E
Applicant	:	ARTIKA FOR LIVING INC
Product Name	:	Niko LED White FM 5CCT
Model Name	:	FM-NI5C-HD2WH
Test Standard	:	FCC Part 15 Subpart B
Date of Issue	:	2024-03-27

Shenzhen CCUT Quality Technology Co., Ltd.
1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

Test Report Basic Information

Applicant:	ARTIKA FOR LIVING INC
Address of Applicant:	1756 50th avenue, Lachine, Quebec, H8T 2V5 Canada
Manufacturer:	Foshan Topday Optoelectronics Technology Co., Ltd.
Address of Manufacturer:	Huansheng Road, Guicheng Eastern ndustrial Zone B, Sanshan Nanhai District, Foshan, China
Product Name:	Niko LED White FM 5CCT
Brand Name:	artika
Main Model:	FM-NI5C-HD2WH
Series Models:	FM-NI5C-xxxxxx, CML15-793
Test Standard:	FCC Part 15 Subpart B ANSI C63.4-2014
Date of Test:	2024-03-25 to 2024-03-26
Test Result:	PASS

Tested By: Walker Wu (Walker Wu)

Reviewed By: Lieber Ouyang (Lieber Ouyang)

Authorized Signatory: Lahm Peng (Lahm Peng)

Shenzhen CCUT Quality Technology Co., Ltd. APPROVED

Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

CONTENTS

Revision History

Revision	Issue Date	Description	Revised By
V1.0	2024-03-27	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Niko LED White FM 5CCT
Trade Name:	artika
Main Model:	FM-NI5C-HD2WH
Series Models:	FM-NI5C-xxxxxx, CML15-793
Class of Equipment:	☐ Class A ☒ Class B
Highest Internal Frequency:	<108MHz
Rated Voltage:	Input: AC 120V/60Hz
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer, The suffix “XXXXXX" can be A to Z and/or 0 to 9 and/or blank denotes commercial code.	

1.2 Test Setup Information

List of Test Modes		
Test Mode	Description	Remark
TM1	Working	-
-	-	-
-	-	-
-	-	-

List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
-	-	-	-
-	-	-	-

List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
-	-	-	-
-	-	-	-
-	-	-	-

The equipment under test (EUT) was configured to measure its highest possible emission and immunity level. The test modes were adapted according to the operation manual for use.

1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart B	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Unintentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart B	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Unintentional Radiators
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.4 Test Facilities

Laboratory Name:	**Shenzhen CCUT Quality Technology Co., Ltd.** 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6893.01
FCC Registration No:	583813
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

1.5 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Disturbance	9kHz ~30MHz	±1.64 dB
Radiated Disturbance	30MHz ~ 1GHz	±3.32 dB
Radiated Disturbance	1GHz ~ 18GHz	±3.50 dB

1.6 List of Test and Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2023-10-21	2024-10-20
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
Radiated Emissions					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2023-07-31	2024-07-30
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30
Amplifier	SCHWARZBECK	BBV 9743B	00251	2023-07-31	2024-07-30
Amplifier	HUABO	YXL0518-2.5-45	--	2023-07-31	2024-07-30
Loop Antenna	DAZE	ZN30900C	21104	2023-08-07	2024-08-06
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2023-08-07	2024-08-06
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-07	2024-08-06
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.107	Conducted Emissions	Passed
FCC Part 15.109	Radiated Emissions	Passed
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

3. Conducted Emissions

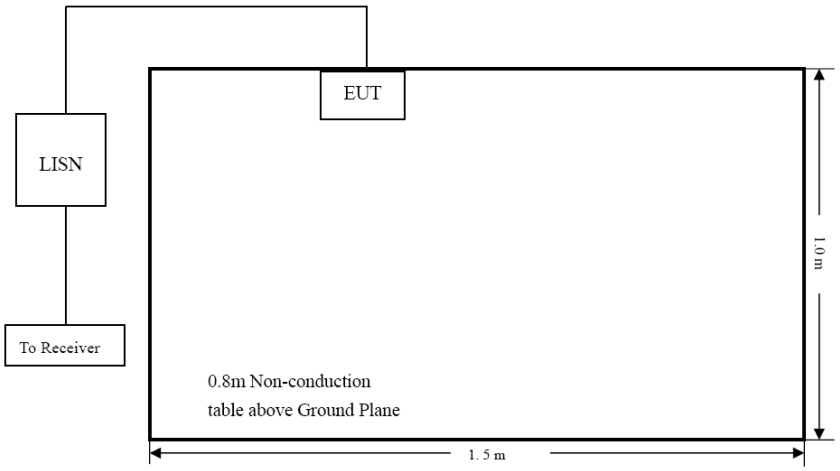
3.1 Standard and Limit

According to the rule FCC Part 15.107, Conducted limit, the limit for a class A and class B device as below:

Frequency of Emission (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15-0.5	79	66	66 to 56	56 to 46
0.5-5	73	60	56	46
5-30	73	60	60	50
Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz Note 2: The lower limit applies at the band edges				

3.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



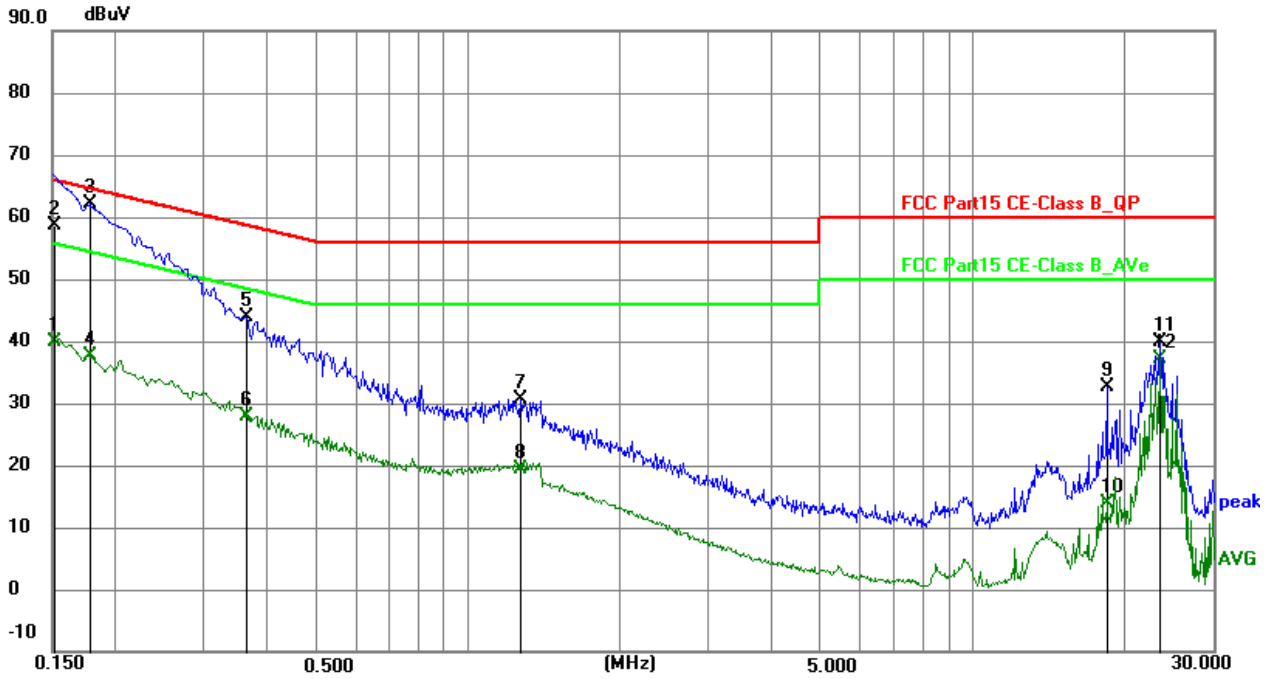
Test Setup Block Diagram

3.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.107 standard limit for a Class B device, and with the worst case as below:

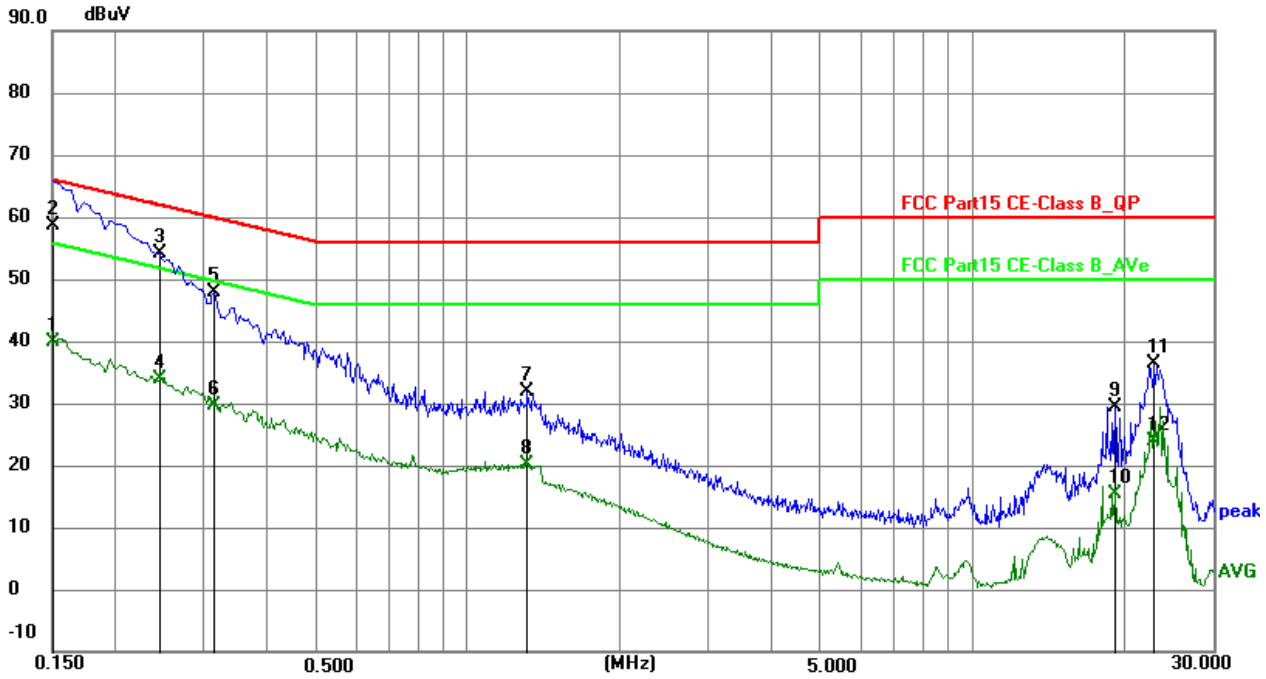
Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Conducted Emissions	
Tested Model:	FM-NI5C-HD2WH
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	30.72	9.25	39.97	55.92	-15.95	AVG	P	
2	0.1516	49.30	9.24	58.54	65.91	-7.37	QP	P	
3 *	0.1770	52.97	9.04	62.01	64.63	-2.62	QP	P	
4	0.1770	28.70	9.04	37.74	54.63	-16.89	AVG	P	
5	0.3614	34.02	9.82	43.84	58.70	-14.86	QP	P	
6	0.3614	17.98	9.82	27.80	48.70	-20.90	AVG	P	
7	1.2703	20.69	10.03	30.72	56.00	-25.28	QP	P	
8	1.2703	9.45	10.03	19.48	46.00	-26.52	AVG	P	
9	18.4695	22.10	10.45	32.55	60.00	-27.45	QP	P	
10	18.4695	3.36	10.45	13.81	50.00	-36.19	AVG	P	
11	23.5860	29.53	10.37	39.90	60.00	-20.10	QP	P	
12	23.5860	26.74	10.37	37.11	50.00	-12.89	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Model:	FM-NI5C-HD2WH
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	30.55	9.27	39.82	56.00	-16.18	AVG	P	
2 *	0.1505	49.39	9.25	58.64	65.97	-7.33	QP	P	
3	0.2445	44.62	9.47	54.09	61.94	-7.85	QP	P	
4	0.2445	24.51	9.47	33.98	51.94	-17.96	AVG	P	
5	0.3120	38.06	9.78	47.84	59.92	-12.08	QP	P	
6	0.3120	19.89	9.78	29.67	49.92	-20.25	AVG	P	
7	1.3154	21.88	10.03	31.91	56.00	-24.09	QP	P	
8	1.3154	10.00	10.03	20.03	46.00	-25.97	AVG	P	
9	19.2030	18.98	10.49	29.47	60.00	-30.53	QP	P	
10	19.2030	4.96	10.49	15.45	50.00	-34.55	AVG	P	
11	22.9470	25.88	10.40	36.28	60.00	-23.72	QP	P	
12	22.9470	13.51	10.40	23.91	50.00	-26.09	AVG	P	

4. Radiated Disturbance

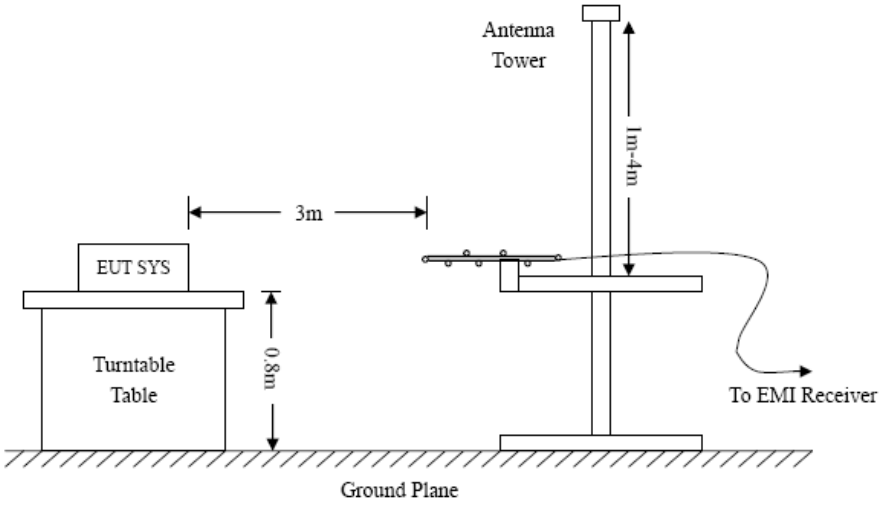
4.1 Standard and Limit

According to the rule FCC Part 15.109, Radiated emission limit for a class A and class B device as below:

Frequency of Emission (MHz)	Class A (3m)	Class B (3m)
	Quasi-peak (dBuV/m)	Quasi-peak (dBuV/m)
30-88	50	40
88-216	54.0	43.5
216-960	57.0	46
Above 960	60	54
Note: The more stringent limit applies at transition frequencies.		

4.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



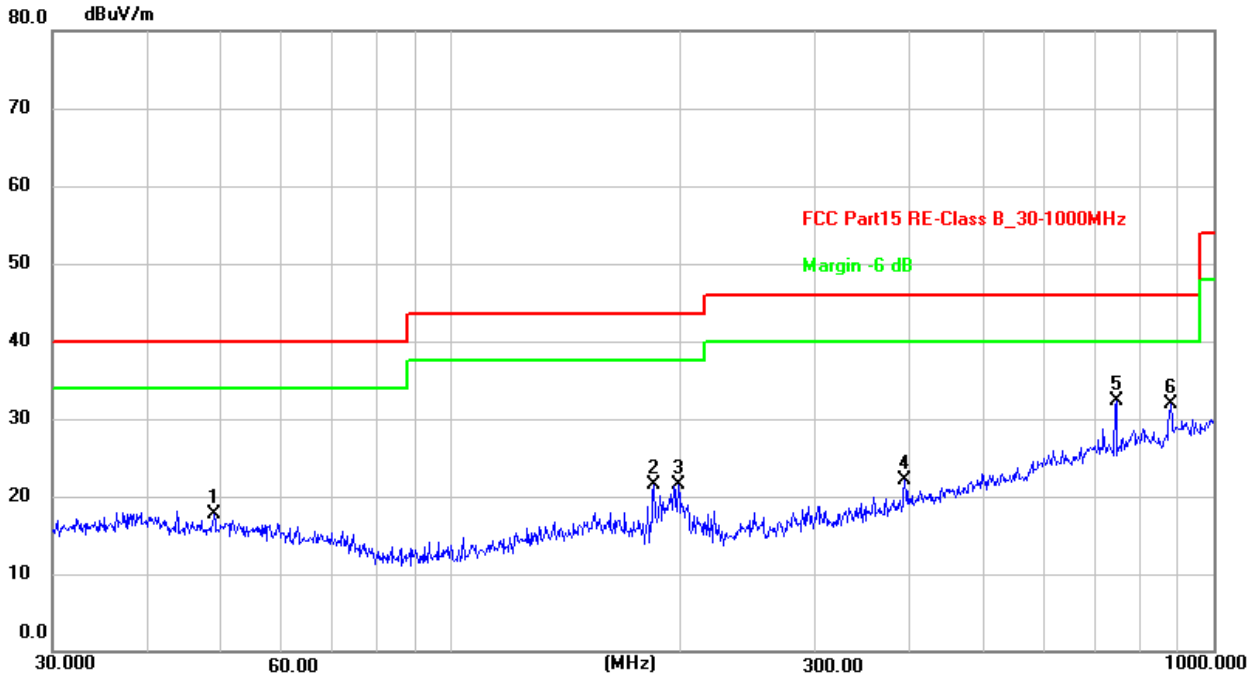
Test Setup Block Diagram

4.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.109 standard limit for a Class B device, and with the worst case as below:

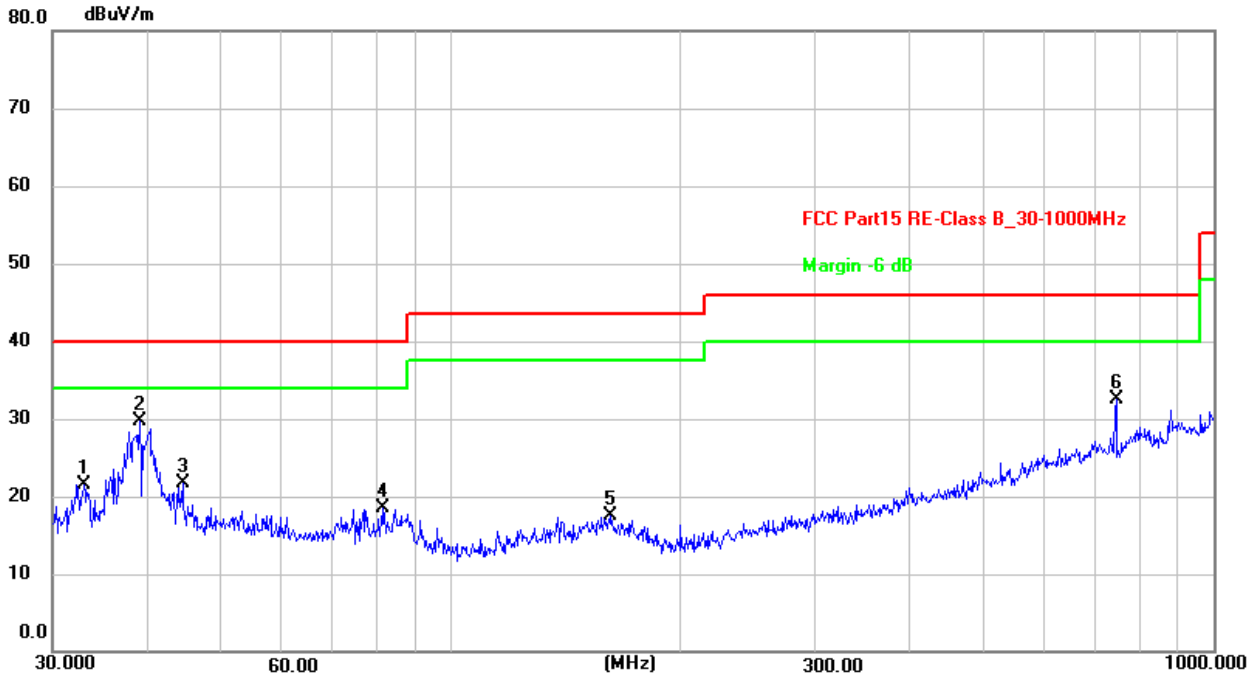
Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Radiated Emissions	
Tested Model:	FM-NI5C-HD2WH
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Antenna Polarization:	Horizontal
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	48.8429	26.61	-8.83	17.78	40.00	-22.22	QP	100	353	P	
2	184.4898	32.84	-11.36	21.48	43.50	-22.02	QP	100	346	P	
3	198.5880	33.46	-12.02	21.44	43.50	-22.06	QP	100	353	P	
4	393.4723	28.16	-6.11	22.05	46.00	-23.95	QP	100	338	P	
5 *	744.8661	31.60	0.73	32.33	46.00	-13.67	QP	100	103	P	
6	878.3214	28.90	2.92	31.82	46.00	-14.18	QP	100	93	P	

Test Plots and Data of Radiated Emissions	
Tested Model:	FM-NI5C-HD2WH
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Antenna Polarization:	Vertical
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	32.9791	30.39	-8.80	21.59	40.00	-18.41	QP	100	350	P	
2 *	39.0245	37.86	-8.10	29.76	40.00	-10.24	QP	100	176	P	
3	44.4308	30.81	-9.16	21.65	40.00	-18.35	QP	100	176	P	
4	81.4970	31.81	-13.34	18.47	40.00	-21.53	QP	100	350	P	
5	162.0414	26.51	-9.10	17.41	43.50	-26.09	QP	100	350	P	
6	744.8661	31.84	0.73	32.57	46.00	-13.43	QP	100	268	P	

Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded in report.