

# Shenzhen Toby Technology Co., Ltd.

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# FCC Test Report FCC ID: 2ADXY59502

# **Original Grant**

Report No. : TB-FCC142966

**Applicant**: The Vollrath Company, LLC

**Equipment Under Test (EUT)** 

**EUT Name**: Buffet Induction Warmer

**Model No.** : 5950275

**Series Model** 

No. : 5950280, 59502DW

**Brand Name**: VOLLRATH

**Receipt Date** : 2014-12-29

**Test Date** : 2014-12-29 to 2015-01-15

**Issue Date** : 2015-01-19

Standards : FCC Part 18 : 2014

Conclusions : PASS

In the configuration tested, the EUT complied with the standards specified above,  $% \left( \frac{1}{2}\right) =\frac{1}{2}\left( \frac{1}{2}\right) \left( \frac{1}{2}\right) \left($ 

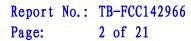
The EUT technically complies with the FCC

Test/Witness Engineer :

Approved& Authorized :

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0





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# 1. General Information about EUT

#### 1.1 Client Information

**Applicant**: The Vollrath Company, LLC

Address: 1236 North 18th Street, Sheboygan, WI 53081

Manufacturer : Luxine (Xi'an) Electronics Co., Ltd.

Address : 4th Floor, Building B, Seeker Industrial Park, 2nd Jin Ye Rd, Hi-tech

Development Zone, Xi'an Shaanxi, China 710075

#### 1.2 General Description of EUT (Equipment Under Test)

		<del>-</del>
EUT Name	:	Buffet Induction Warmer
Models No.	:	5950275, 5950280, 59502DW
Model difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is the color of the appearance and installation: 5950275: Countertop, Black; 5950280: Countertop, Natural; 59502DW: Drop-in, added a remote control box, connected by a USB cable.
Power Supply	:	AC 120V, 60Hz
Power	:	One unit maximum power: 320W Three units maximum power: 960W
Connecting I/O Port(s)	:	Please refer to the User's Manual
Note: For a more detailed	£ ~ ~ 1	visco deceription, places refer to the many factures.

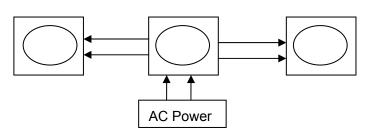
**Note:** For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

# 1.3 Block Diagram Showing the Configuration of System Tested

#### **One Unit Working**



#### **Three Units Working**





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1.4 Description of Support Units

The EUT has been tested with water up to 80% of the maximum capacity of the boiler.

#### 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of the EUT operation mode, and the worst Case is when the EUT is operation with the maximum power, so the conducted and radiated emission data of bellow only showed the worst case.

#### 1.6 Test Location

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

#### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

#### FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

#### IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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# 2. Test Summary

	FCC P	art 18: 2014	
Standard Section	Test Item	Test Method	Judgment
18.305	Radiated Emission (9KHz to 30MHz)	FCC OST/MP-5:1986	PASS
18.307(a)	Conducted Emission (9KHz to 30MHz)	FCC OST/MP-5:1986	PASS
Note: N/A is an al	obreviation for Not Applicable	_	



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3. Conducted Emission Test

## 3.1 Test Standard and Limit

#### 3.1.1Test Standard

FCC Part 18.307(a)

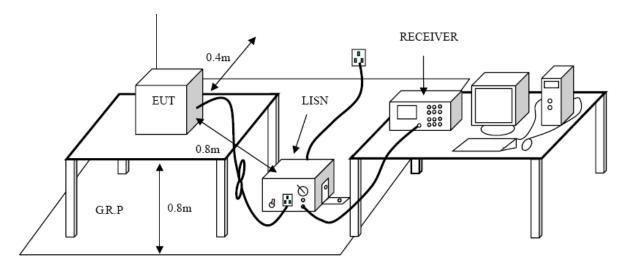
#### 3.1.2 Test Limit

#### **Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dBμV)				
(MHz)	Quasi-peak Level	Average Level			
0.009 ~ 0.05	110				
0.05 ~ 0.15	90 ~ 80				
0.15 ~ 0.5	66 ~ 56 *	56 ~ 46 *			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

Notes:(1) \*Decreasing linearly with logarithm of the frequency.

## 3.2 Test Setup



#### 3.3 Test Procedure

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.

<sup>(2)</sup> The lower limit shall apply at the transition frequencies.



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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.

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.

LISN at least 80 cm from the nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

#### 3.4 Deviation

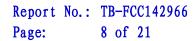
The test is no deviation from the standard.

#### 3.5 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test	ROHDE&		100221	Aug 00 2014	Aug 07, 2015
Receiver	SCHWARZ	ESCI	100321	Aug. 08, 2014	Aug.07, 2015
50ΩCoaxial	Anritsu	MP59B	X10321	Aug. 08, 2014	Aug.07, 2015
Switch	Aiiiisu	INIPOSE	X10321	Aug. 08, 2014	Aug.07, 2015
L.I.S.N	Rohde & Schwarz	ENV216	101131	Aug. 08, 2014	Aug.07, 2015
L.I.S.N	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 08, 2014	Aug.07, 2015

#### 3.6 Test Data

Please see the next page.



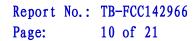


EUT:		Buffet Induc	tion Warm	er	Model	Name :		5950275
Temperature	e:	<b>22</b> ℃			Relativ	e Humi	dity:	55%
Test Voltage	<b>)</b> :	AC 120V/60	) Hz					
Terminal:		Line						
Test Mode:		One Unit wo	orking					
Remark:		Only worse	case is rep	oorted				
110.0 dBuV		× V V V V V V V V V V V V V V V V V V V		*x \(\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lambda\)\(\lam	son delik kelek kenne aktike	William Co	QP:	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Commen
1	0.0506	64.96	10.16	75.12	89.89	-14.77	QP	
2	0.1780	37.09	10.21	47.30	64.57	-17.27	QP	
3 *	0.1780	34.54	10.21	44.75	54.57	-9.82	AVG	
4	0.2300	33.19	10.20	43.39	62.45	-19.06	QP	
5	0.2300	30.70	10.20	40.90	52.45	-11.55	AVG	
6	0.2779	32.46	10.19	42.65	60.88	-18.23	QP	
	0.2779	30.02	10.19	40.21	50.88	-10.67	AVG	
7				40.76	59.45	-18.69	QP	
	0.3300	30.57	10.19	40.76				
8	0.3300 0.3300		10.19	38.26		-11.19	AVG	
8		28.07			49.45	-11.19 -19.35	AVG QP	
8 9 10	0.3300	28.07 27.67	10.19	38.26	49.45 57.25			
8 9 10 11	0.3300 0.4300	28.07 27.67 25.02	10.19 10.23	38.26 37.90	49.45 57.25 47.25	-19.35	QP	



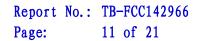


EUT: **Buffet Induction Warmer Model Name:** 5950275 **22** ℃ **Relative Humidity:** Temperature: 55% **Test Voltage:** AC 120V/60 Hz Terminal: Neutral **Test Mode:** One Unit working Remark: Only worse case is reported 110.0 dBuV QP: AVG: AVG -10 30.000 (MHz) 0.009 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dΒ dBuV dBuV dΒ Detector Comment 73.39 0.0252 63.74 9.65 110.0 -36.61 QΡ 1 0.0505 47.31 10.16 57.47 89.91 -32.44 QΡ 2 3 0.1780 31.99 10.21 42.20 64.57 -22.37 QΡ 0.1780 4 29.56 10.21 39.77 54.57 -14.80 AVG QP 5 0.2260 32.80 10.20 43.00 62.59 -19.59 40.50 0.2260 30.30 10.20 52.59 -12.09 AVG 6 7 0.2779 31.07 10.19 41.26 60.88 -19.62 QΡ 8 0.2779 28.61 10.19 38.80 50.88 -12.08 AVG 0.3260 30.20 QΡ 9 10.19 40.39 59.55 -19.16 27.61 37.80 49.55 -11.75 AVG 10 0.3260 10.19 **Emission Level= Read Level+ Correct Factor** 





EUT:	Buffet Induct	tion Warmeı	r	Model Nam	ne :	5950275
Temperature:	22 °C			Relative Hu	umidity:	55%
Test Voltage:	AC 120V/60	Hz				
Terminal:	Line					
Test Mode:	Three Units	working				
Remark:	Only worse	case is repo	orted			
110.0 dBuV						
50					and the same	peak
	Med waspenson for			Man did Harman	March for land out	AVG
-10 0.009	Marin Marine Property Services	(ME	lz)		Adam Marine	30.000
	Reading Level		Measure- ment		/er	
0.009	eq. Level	Correct	Measure-			30.000
0.009 No. Mk. Fre	eq. Level	Correct Factor	Measure- ment	Limit O	B Detect	30.000 or Commer
No. Mk. Fre	eq. Level  z dBuV  40 43.20	Correct Factor	Measure- ment	Limit Ov	B Detect	30.000  or Commer
0.009  No. Mk. Fre	eq. Level dz dBuV 40 43.20 40 39.98	Correct Factor dB	Measure- ment dBuV 53.17	dBuV d 64.76 -11.	B Detection Dete	30.000  Or Commen
0.009  No. Mk. Fre  MH  1 0.17  2 0.17	eq. Level dBuV 43.20 40 39.98 60 43.19	Correct Factor dB 9.97 9.97	Measure- ment dBuV 53.17 49.95	Limit Ov dBuV d 64.76 -11.	B Detection   59 QP   31 AV   38 QP	30.000  Or Commer
0.009  No. Mk. Fre  M⊢  1 0.17  2 0.17  3 0.22	eq. Level dBuV 40 43.20 40 39.98 60 43.19 60 39.87	Correct Factor dB 9.97 9.97 10.02	Measure- ment  dBuV  53.17  49.95  53.21	Limit Ov dBuV d 64.76 -11. 54.76 -4.8 62.59 -9.3	B Detection   59 QP   31 AV   38 QP   70 AV	or Commen
No. Mk. Free MH 1 0.17 2 0.17 3 0.22 4 0.22	eq. Level day day 40 43.20 40 39.98 60 43.19 60 39.87 40 42.18	Correct Factor dB 9.97 9.97 10.02	Measurement  dBuV  53.17  49.95  53.21  49.89	Limit Ov dBuV d 64.76 -11. 54.76 -4.8 62.59 -9.3 52.59 -2.7	B Detection   59 QP   31 AV   38 QP   70 AV   79 QP	30.000  Or Comment
No. Mk. Free MH  1 0.17  2 0.17  3 0.22  4 0.22  5 0.27	eq. Level day day 40 43.20 40 39.98 60 43.19 60 39.87 40 42.18 40 38.97	Correct Factor dB 9.97 9.97 10.02 10.02	Measure- ment dBuV 53.17 49.95 53.21 49.89 52.20	Limit Ov dBuV d 64.76 -11. 54.76 -4.8 62.59 -9.3 52.59 -2.7 60.99 -8.7	B Detection   59 QP   31 AV   38 QP   70 AV   79 QP   00 AV	30.000  Or Comment  OG  OG  OG  OG
No. Mk. Free MH  1 0.17 2 0.17 3 0.22 4 0.22 5 0.27 6 * 0.27	eq. Level dBuV 40 43.20 40 39.98 60 43.19 60 39.87 40 42.18 40 38.97 60 37.49	Correct Factor dB 9.97 9.97 10.02 10.02 10.02	Measure- ment  dBuV  53.17  49.95  53.21  49.89  52.20  48.99	Limit Ov dBuV d 64.76 -11. 54.76 -4.8 62.59 -9.3 52.59 -2.7 60.99 -8.7	B Detection   59 QP   31 AV   38 QP   70 AV   79 QP   00 AV   04 QP	30.000  Or Commer  OG  GG  OG
No. Mk. Free MH  1 0.17 2 0.17 3 0.22 4 0.22 5 0.27 6 * 0.27 7 0.32	eq. Level dBuV 40 43.20 40 39.98 60 43.19 60 39.87 40 42.18 40 38.97 60 37.49 60 34.34	Correct Factor dB 9.97 9.97 10.02 10.02 10.02 10.02	Measurement  dBuV  53.17  49.95  53.21  49.89  52.20  48.99  47.51	Limit Ov dBuV d 64.76 -11. 54.76 -4.8 62.59 -9.3 52.59 -2.7 60.99 -8.7 50.99 -2.0 59.55 -12.	B Detects 59 QP 31 AV 38 QP 70 AV 79 QP 00 AV 04 QP	G G G G
No. Mk. Free MH  1 0.17 2 0.17 3 0.22 4 0.22 5 0.27 6 * 0.27 7 0.32 8 0.32	eq. Level day day 40 43.20 40 39.98 60 43.19 60 39.87 40 42.18 40 38.97 60 37.49 60 34.34 40 38.03	Correct Factor  dB  9.97  9.97  10.02  10.02  10.02  10.02  10.02  10.02	Measurement  dBuV  53.17  49.95  53.21  49.89  52.20  48.99  47.51  44.36	Limit Ov dBuV d 64.76 -11. 54.76 -4.8 62.59 -9.3 52.59 -2.7 60.99 -8.7 50.99 -2.0 59.55 -12. 49.55 -5.7	B Detector 59 QP 31 AV 38 QP 70 AV 79 QP 00 AV 04 QP 19 AV	30.000  Or Commer  OG  G  G  G  G
0.009  No. Mk. Free  Mil-  1 0.17  2 0.17  3 0.22  4 0.22  5 0.27  6 * 0.27  7 0.32  8 0.32  9 0.37	eq. Level dBuV 40 43.20 40 39.98 60 43.19 60 39.87 40 42.18 40 38.97 60 37.49 60 34.34 40 38.03	Correct Factor  dB  9.97  9.97  10.02  10.02  10.02  10.02  10.02  10.02  10.02	Measure-ment  dBuV  53.17  49.95  53.21  49.89  52.20  48.99  47.51  44.36  48.05	Limit Ov dBuV d 64.76 -11.  54.76 -4.8 62.59 -9.3 52.59 -2.7 60.99 -8.7 50.99 -2.0 59.55 -12. 49.55 -5.7 58.41 -10.	B Detection   59 QP   31 AV   38 QP   70 AV   79 QP   00 AV   04 QP   19 AV   36 QP   63 AV	30.000  Or Comment  G  G  G  G  G  G





:UT:	Buffet Induc	tion Warme	er	Model	Name:		5950275
emperature:	22 ℃			Relativ	e Humi	dity:	55%
est Voltage:	AC 120V/60	) Hz					
erminal:	Neutral						
est Mode:	Three Units	working					
Remark:	Only worse	case is rep	orted				
50	Managay / Mall	XXX		العامد عامامان	Apple on a	QP:	
	W. Luph Man				MANAGER PART	nue A	Mav
-10 0.009 No. Mk. Fre	Reading eq. Level	Correct	(MHz)  Measure- ment	Limit	Over	No. alexander	30.000
0.009	eq. Level				Over	Detector	
0.009 No. Mk. Fre	eq. Level	Correct Factor	Measure- ment	Limit		Detector	30.000
No. Mk. Fre	eq. Level day day 40 46.27	Correct Factor	Measure- ment	Limit dBuV	dB		30.000
No. Mk. Fre	eq. Level dz dBuV 40 46.27 40 43.15	Correct Factor dB 10.12	Measure- ment dBuV 56.39	dBuV 64.76 54.76	dB -8.37	QP	30.000
0.009  No. Mk. Fre  Mh  1 0.17  2 * 0.17	dBuV 40 46.27 40 43.15 60 40.18	Correct Factor dB 10.12 10.12	Measure- ment dBuV 56.39 53.27	dBuV 64.76 54.76	dB -8.37 -1.49	QP AVG	30.000
No. Mk. Free MH 1 0.17 2 * 0.17 3 0.22	eq. Level dBuV 40 46.27 40 43.15 60 40.18 60 37.30	Correct Factor  dB  10.12  10.12  10.11	Measure- ment dBuV 56.39 53.27 50.29	dBuV 64.76 54.76 62.59 52.59	dB -8.37 -1.49 -12.30	QP AVG QP	30.000
No. Mk. Free MH 1 0.17 2 * 0.17 3 0.22 4 0.22	eq. Level day day 40 46.27 40 43.15 60 40.18 60 37.30 79 38.20	Correct Factor  dB  10.12  10.12  10.11  10.11	Measure- ment dBuV 56.39 53.27 50.29 47.41	dBuV 64.76 54.76 62.59 52.59	dB -8.37 -1.49 -12.30 -5.18 -12.59	QP AVG QP AVG	30.000
No. Mk. Free MH  1 0.17 2 * 0.17 3 0.22 4 0.22 5 0.27	eq. Level dz dBuV d40 46.27 d40 43.15 d60 40.18 d60 37.30 d79 38.20 d79 35.30	Correct Factor  dB  10.12  10.12  10.11  10.11  10.09	Measure- ment dBuV 56.39 53.27 50.29 47.41 48.29	Limit  dBuV  64.76  54.76  62.59  52.59  60.88  50.88	dB -8.37 -1.49 -12.30 -5.18 -12.59	QP AVG QP AVG QP	30.000
No. Mk. Free MH  1 0.17 2 * 0.17 3 0.22 4 0.22 5 0.27 6 0.27	eq. Level dBuV 40 46.27 40 43.15 60 40.18 60 37.30 79 38.20 79 35.30 60 38.03	Correct Factor  dB  10.12  10.12  10.11  10.11  10.09  10.09	Measure- ment dBuV 56.39 53.27 50.29 47.41 48.29 45.39	Limit  dBuV  64.76  54.76  62.59  52.59  60.88  50.88	dB -8.37 -1.49 -12.30 -5.18 -12.59 -5.49	QP AVG QP AVG QP AVG	30.000
No. Mk. Free MH  1 0.17 2 * 0.17 3 0.22 4 0.22 5 0.27 6 0.27 7 0.32	eq. Level dBuV 40 46.27 40 43.15 60 40.18 60 37.30 79 38.20 79 35.30 60 38.03 60 35.05	Correct Factor  dB  10.12  10.12  10.11  10.11  10.09  10.09  10.08	Measure- ment  dBuV  56.39  53.27  50.29  47.41  48.29  45.39  48.11	Limit  dBuV  64.76  54.76  62.59  52.59  60.88  50.88  59.55  49.55	dB -8.37 -1.49 -12.30 -5.18 -12.59 -5.49 -11.44	QP AVG QP AVG QP AVG QP	30.000
No. Mk. Free MH  1 0.17 2 * 0.17 3 0.22 4 0.22 5 0.27 6 0.27 7 0.32 8 0.32	eq. Level day day 40 46.27 40 43.15 60 40.18 60 37.30 79 38.20 79 35.30 60 38.03 60 35.05 60 30.80	Correct Factor  dB  10.12  10.12  10.11  10.11  10.09  10.09  10.08	Measure- ment dBuV 56.39 53.27 50.29 47.41 48.29 45.39 48.11 45.13	Limit  dBuV  64.76  54.76  62.59  52.59  60.88  50.88  59.55  49.55	dB -8.37 -1.49 -12.30 -5.18 -12.59 -5.49 -11.44 -4.42	QP AVG QP AVG QP AVG AVG	30.000
No. Mk. Free MH  1 0.17 2 * 0.17 3 0.22 4 0.22 5 0.27 6 0.27 7 0.32 8 0.32 9 0.52	eq. Level dBuV 40 46.27 40 43.15 60 40.18 60 37.30 79 38.20 79 35.30 60 38.03 60 35.05 60 30.80 60 27.62	Correct Factor  dB  10.12  10.12  10.11  10.11  10.09  10.09  10.08  10.08	Measurement dBuV 56.39 53.27 50.29 47.41 48.29 45.39 48.11 45.13 40.82	Limit  dBuV  64.76  54.76  62.59  52.59  60.88  59.55  49.55  56.00  46.00	dB -8.37 -1.49 -12.30 -5.18 -12.59 -5.49 -11.44 -4.42 -15.18	QP AVG QP AVG QP AVG QP AVG QP	30.000



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## 4. Radiated Emission Test

#### 4.1 Test Standard and Limit

4.1.1 Test Standard

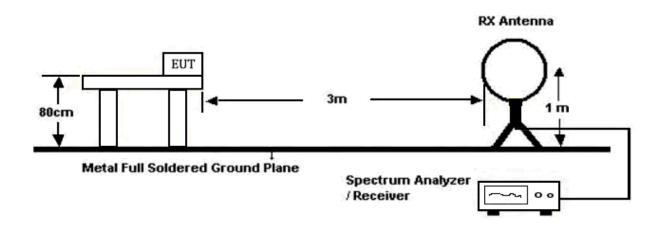
FCC Part 18.305

#### 4.1.2 Test Limit

#### Radiated Emission Limit (9kHz~30MHz)

Frequency (MHz)	Field Strength Limit (microvolt/meter)	Measurement Distance (meters)
0.009~30	1500	30
Note: Emission Level(dBu\	//m)=20log Emission Level(uV/	/m)

#### 4.2 Test Setup



#### 4.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 30MHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) An initial scan was performed in the 3m chamber using the spectrum analyzer in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a loop antenna.
- (3) For the actual test configuration, please see the test setup photo.

#### 4.4 Deviation

For Radiated Emission, test at 3m distance instead of 30m distance. 40dB was plus to the



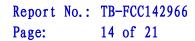
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limit of 30m measurement limit. More details refer to FCC part 15.31(f)(2).

# 4.5 Test Equipment

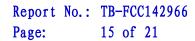
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 08, 2014	Aug.07, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2014	Mar.06, 2015
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2014	Mar.06, 2015
Pre-amplifier	HP	11909A	185903	Mar. 07, 2014	Mar.06, 2015
Pre-amplifier	HP	8447B	3008A00849	Mar. 07, 2014	Mar.06, 2015
Cable	HUBERSUHNER	100	SUCOFLEX	Mar. 07, 2014	Mar.06, 2015
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Loop Antenna	Laplace Instrument	RF300	100020	Aug. 11, 2014	Aug. 10, 2015

## 4.6 Test Data



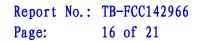


EUT:	Buffet Induction	Warmer	Mod	el Name	:	595027	'5	
Temperature:	22 ℃		Rela	tive Hur	nidity:	55%		
Test Voltage:	AC 120V/60 I	Hz						
Ant. Pol.	Horizontal to	EUT						
Test Mode:	One Unit Wo	rking						
Remark:	Frequency R	ange: 9kH	z~0.15N	ЛHz				
120 Level (dBuV/m)								
110		2				FCC PAR	T18 INDU	CTION
90								
70				3	4		6	
50	1					5		
30 ~~~					<u> </u>	0.01 0.01 0.00	الإستقامية	June
10	Manufactural part	Muchany	and the physical states	Whites Water	ettalla. mala			
-10								
-30								
-50								
-600.009	0.02			0.05		(	).1	0.15
		Fred	juency (Mi	Hz)				
Freq	Level Facto	r Loss	Factor	Level	Line	Limit	Remar	k
MHz		m	<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB		
1 0.020 2 0.025 3 0.049 4 0.074 5 0.098 6 0.123	49.24 16.0 94.61 16.3 64.94 17.9 71.74 19.5 45.00 20.9 61.96 21.2	7 0.09 9 0.17 9 0.19 0 0.18	17.50 17.50 17.50 17.50 17.50 17.50	93.57 65.60 74.02	103.50 103.50 103.50 103.50 103.50 103.50	-9.93 -37.90 -29.48 -54.92		
Emission Level=	Read Level+ (	Correct Fa	actor					



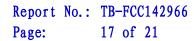


UT:	Buffet Indu	uction Warme	r <b>Mo</b>	del Nam	e:_	59502	75	
emperature:	22 ℃		Rel	ative Hu	midity:	55%		
est Voltage:	AC 120V	//60 Hz						
Ant. Pol.	Vertical to	o EUT						
est Mode:	One Unit	Working						
Remark:	Frequenc	cy Range: 9	9kHz~0.15	MHz				
120 Level (dBuV/m)								
110						FCC PAR	T18 INDU	UCTION
90		2						
70					4			No.
50				3			6	5
NSE .		1			1			
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Table 1								
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-10 -30	0.0		Frequency (I	0.05 1Hz)			0.1	0.15
-10 -30 -50 -60 0.009	0.0		Frequency (I	1Hz)	Line			
-10 -30 -50 -60 0.009	0.0 Level Fa	actor Lo	Frequency (I	IHz) Level		Limit		
-10 -30 -50 -60 0.009	Level Fa	actor Lo	Frequency (I ss Factor	Hz) Level		Limit ———————————————————————————————————		



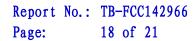


UT:	Buffet Induction	Mod	Model Name :			5950275			
emperature:	22 ℃		Rela	tive Hu	midity:	55%			
est Voltage:	AC 120V/60 H	lz							
Ant. Pol.	Horizontal to E	EUT							
est Mode:	One Unit Work	king							
Remark:	Frequency Ra								
120 Level (dBuV/m)									
110						FCC PART	18 INDUCT	пом	
00						TOO THAT	TO III.DOG		
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70									
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30 V W W W	· · · · · · · · · · · · · · · · · · ·	1	2		harting/helvingspoons	10	20	30	
30 10 -10 -30 0.150.2	0.5 1	Freq Cable	2 Juency (MH	z)	Limit	10 Over			
30 10 -10 -30 0.150.2	0.5	Fred Cable Loss	2 quency (MH Preamp Factor	z)	Limit Line	Over Limit			
30 WWW 10 -10 -30 0.150.2  Freq	ReadAntenna Level Factor dBuV dB/m	Cable Loss dB	2 Juency (MH Preamp Factor dB	Level	Limit Line	Over Limit ———————————————————————————————————			
30 WWW 10 -10 -30 0.150.2  Freq	0.5 1  ReadAntenna Level Factor  dBuV dB/m  53.29 21.70 48.95 22.32	Cable Loss dB 0.30 0.35	Preamp Factor  dB  17.50 17.50	Level  dBuV/m  57.79 54.12	Limit Line dBuV/m 103.50 103.50	Over Limit 			
Freq -30 0.150.2  Freq -MHz 1 0.171 2 0.270 3 0.320 4 0.417	0.5 1  ReadAntenna Level Factor  dBuV dB/m  53.29 21.70 48.95 22.32 45.17 22.47 38.63 22.47	Cable Loss dB 0.30 0.35 0.36 0.38	2 quency (MH Preamp Factor ————————————————————————————————————	Level  dBuV/m  57.79 54.12 50.50 43.98	Limit Line dBuV/m 103.50 103.50 103.50 103.50	Over Limit ———————————————————————————————————			
30 WWW 10 -10 -30 0.150.2  Freq	0.5 1  ReadAntenna Level Factor  dBuV dB/m  53.29 21.70 48.95 22.32 45.17 22.47	Cable Loss dB 0.30 0.35 0.36 0.38 0.55	2 quency (MH Preamp Factor ————————————————————————————————————	Level  dBuV/m  57. 79 54. 12 50. 50 43. 98 43. 40	Limit Line dBuV/m 103.50 103.50 103.50 103.50	Over Limit ———————————————————————————————————			



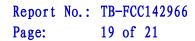


EUT:	Bu	ıffet In	duction W	armer	Mode	el Name	:	5950275		
Temperature:	22	2 ℃			Relat	ive Hun	nidity:	55%		
Test Voltage:	A	C 120	V/60 Hz							
Ant. Pol.	Ve	ertical	to EUT							
Test Mode:	Oı	One Unit Working								
Remark:		Frequency Range: 0.15MHz~30MHz								
120 Level (dBuV/m	1)									_
110								CC PART18	BINDUCTIO	ON
90										
70										
1 0										
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-10										
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-30 0.150.2		0.5	1	Fragu	2	5		10	20	30
				riequ	ency (MHz)	)				
Fi	req L	evel	Factor	Loss	Factor	Level	Line	Limit	Remark	
	Mz	dBu₹	dB/m	₫B	<u>ab</u>	dBuV/m	dBuV/m	<u>dB</u>		
		5.90	21.71	0.30	17.50			-53.09		
2 0.2 3 0.3		1.30	22.32 22.47	0.35 0.36	17.50 17.50			-57.03 -59.25		
4 0.3	367 3	3.93	22.47	0.36	17.50	39.26	103.50	-64.24		
		7.49 3.17	22.47 23.22	0.54 0.65	17.50 17.50			-60.50 -73.96		
<b>Emission Leve</b>	l= Rea	ad Le	vel+ Co	rrect Fa	ctor					



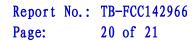


Test Voltage: AC 120V/60 Hz  Ant. Pol. Horizontal to EUT  Test Mode: Three Units Working  Remark: Frequency Range: 9kHz~0.15MHz  Date: 2015-01-15 To 10 FCC PART 1	Time: 15:15:58
Ant. Pol. Horizontal to EUT  Test Mode: Three Units Working  Remark: Frequency Range: 9kHz~0.15MHz  Date: 2015-01-15 To a second policy and the second pol	
Test Mode: Three Units Working  Remark: Frequency Range: 9kHz~0.15MHz  Date: 2015-01-15 11  120 120 110 90 70 50	
Remark: Frequency Range: 9kHz~0.15MHz    120   Level (dBuV/m)   Date: 2015-01-15 1	
120 Level (dBuV/m) 110 FCC PART1 90 70	
110 90 70 50	
90 3 4 5 70 50	8 INDUCTION
70 50	6
50	6
الأربط الكال ا	<b></b>
10	sheham II hashi
-10	
-30	
-50 -60 0.009 0.02 0.05 0.1	0.15
Frequency (MHz)	0.15
ReadAntenna Cable Preamp Limit Over	
Freq Level Factor Loss Factor Level Line Limit	Remark
MHz dBuV dB/m dB dB dBuV/m dBuV/m dB	
1 0.025 98.08 16.39 0.09 17.50 97.06 103.50 -6.44	
2 0.026 98.65 16.50 0.09 17.50 97.74 103.50 -5.76 3 0.051 78.08 18.09 0.17 17.50 78.84 103.50 -24.66 4 0.074 72.40 19.59 0.19 17.50 74.68 103.50 -28.82 5 0.078 73.67 19.89 0.19 17.50 76.25 103.50 -27.25 6 0.130 56.02 21.32 0.24 17.50 60.08 103.50 -43.42	
4 0.074 72.40 19.59 0.19 17.50 74.68 103.50 -24.66	
5 0.078 73.67 19.89 0.19 17.50 76.25 103.50 -27.25	
6 0.130 56.02 21.32 0.24 17.50 60.08 103.50 -43.42	



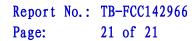


EUT:	Buffet Induction	Warmer	Mode	el Name	:	5950275			
Temperature:	22 °C		Relat	tive Hun	nidity:	55%			
Test Voltage:	AC 120V/60 H	łz							
Ant. Pol.	Vertical to EU	T							
Test Mode:	Three Units V	Three Units Working							
Remark:	Frequency Range: 9kHz~0.15MHz								
120 Level (dBuV/m)					Date: 20	15-01-15 T	ime: 15:13:37		
110					-	CC PART1	8 INDUCTION		
90		1 2							
70				34	5 6				
50				M					
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-10									
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-50									
-600.009	0.02	Frequ	uency (MH:	0.05		0.1	0.15		
		1104	aonoj (mn	-,					
			<b>-</b>						
Freq	ReadAntenna Level Factor		Preamp Factor	Level	Limit Line	Over Limit	Remark		
MHz			<u>a</u> B	dBuV/m	₫B <sub>11</sub> ∇/ <sub>m</sub>	dB			
					5 3375333				
1 0.025 2 0.026			17.50 17.50		103.50	-9.64 -12.95			
3 0.051	61.85 18.09	0.17	17.50	62.61	103.50	-40.89			
2 0.026 3 0.051 4 0.052 5 0.074			17.50 17.50		103.50 103.50				
6 0.079		0.19	17.50		103.50				
Emission Level=	= Read Level+ C	orrect Fa	ctor						
<del></del>									





EUT:	Buffet Induction	n Warmer	Mod	el Name	:	5950275				
Temperature:	<b>22</b> °C		Rela	tive Hur	nidity:	55%				
Test Voltage:	AC 120V/60	AC 120V/60 Hz								
Ant. Pol.	Horizontal to	EUT								
Test Mode:	Three Units	Three Units Working								
Remark:		Frequency Range: 0.15MHz~30MHz								
120 Level (dBuV/m					Date: 20	15-01-15	Time: 15:08	3:38		
110						CC PART1	8 INDUCTION	ON		
90										
70 1 2 2								-		
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-300.150.2	0.5	1 Freq	2 uency (MH:	z) 5		10	20	30		
		•								
Fre	ReadAnten q Level Fact		Preamp Factor	Level	Limit Line	Over Limit	Remark			
Fre	q Level Fact	or Loss	Factor	Level	Line		Remark			





EUT:	Buffet Induction Wa	Mode	el Name	:	5950275					
Temperature:	<b>22</b> °C		Relat	ive Hun	nidity:	55%				
Test Voltage:	AC 120V/60 Hz									
Ant. Pol.	Vertical to EUT									
Test Mode:	Three Units Wor	Three Units Working								
Remark:	Frequency Rang									
120 Level (dBuV/m)			F		Date: 20	15-01-15 1	Time: 15:11:0	2		
110						CC PART1	8 INDUCTION	[		
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		rroqui	oney (mm.	-,						
	D - 14 - 1	C-11- T			T 2 - 2 4	^				
Freq	ReadAntenna Level Factor	Loss F	actor	Level	Limit Line	Over Limit	Remark			
MHz	dBuVdB/m		<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B				
1 0.181 2 0.234	48.36 21.78 49.18 22.13	0.31 0.34	17.50 17.50		103.50 103.50					
2 0.234 3 0.286 4 0.337	45.91 22.41 41.69 22.47	0.35	17.50 17.50	51.17	103.50 103.50	-52.33				
5 0.389	37.42 22.47	0.37	17.50	42.76	103.50	-60.74				
6 0.444	34.97 22.47	0.41	17.50	40.35	103.50	-03.15				
Emission Level=	Poad Lovely Co	root Eco	stor							