



FCC PART 18 **TEST REPORT**

For

Continental Conair Limited

35/F, Standard Chartered Tower, Millennium City 1, 388 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong

FCC ID: U43WIH800

Product Type: Report Type:

Class II Permissive Change Commercial Induction Range

Report Number: RSZ190530552-00

Report Date: 2019-06-18

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TABLE OF CONTENTS

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	3
RELATED SUBMITTAL(S)/GRANT(S)	3
TEST METHODOLOGY	
MEASUREMENT UNCERTAINTY	
TEST FACILITY	4
OPERATING CONDITION/TEST CONFIGURATION	5
JUSTIFICATION	5
EUT Exercise Software	
SPECIAL ACCESSORIES	
EQUIPMENT MODIFICATIONS	
SUPPORT EQUIPMENT LIST AND DETAILS	
EXTERNAL CABLE LIST AND DETAILS	
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULT	7
TROCT POLYDMENT LIGHT	0
TEST EQUIPMENT LIST	δ
CONDUCTED EMISSIONS	9
APPLICABLE STANDARD	9
EUT SETUP	
EMI TEST RECEIVER SETUP	9
TEST PROCEDURE	
TEST RESULTS SUMMARY	
TEST DATA	10
RADIATED EMISSIONS	13
APPLICABLE STANDARD	13
EUT SETUP	13
EMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP	
TEST PROCEDURE	14
CORRECTED AMPLITUDE & MARGIN CALCULATION	14
TEST RESULTS SUMMARY	
Trot Data AND Drotte	1.4

Report No.: RSZ190530552-00

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Commercial Induction Range
Model	WIH800
Voltage Range	AC 240V/60Hz
Measure	72.5 cm (L) x 33.0 cm (W) x 11.5 cm (H)
Highest operating frequency	28 kHz
Rated power	3600 Watts
Date of Test	2019/06/14~2019/06/17
Sample serial number	190530552
Received date	2019/05/30
Sample/EUT Status	Good condition

Report No.: RSZ190530552-00

Objective

This report is prepared on behalf of *Continental Conair Limited* 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.

This is a CIIPC application of the device, the difference between the original device and the current one described as following:

(1) The PCB board was changed.

Based on the change made to the device, all the test items were performed.

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 measurements were performed at Bay Area Compliance Laboratory Corporation. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

FCC Part 18 Page 3 of 15

Measurement Uncertainty

Parameter		uncertainty
Conducted Emissions		±1.95dB
Radiated Emissions	Below 1GHz	±4.75dB

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Report No.: RSZ190530552-00

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

FCC Part 18 Page 4 of 15

OPERATING CONDITION/TEST CONFIGURATION

Justification

The EUT was operated at maximum (continuous) RF output power.

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory was used.

Equipment Modifications

No modifications were made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Description Model	
OUKE	Boiler	N/A	N/A

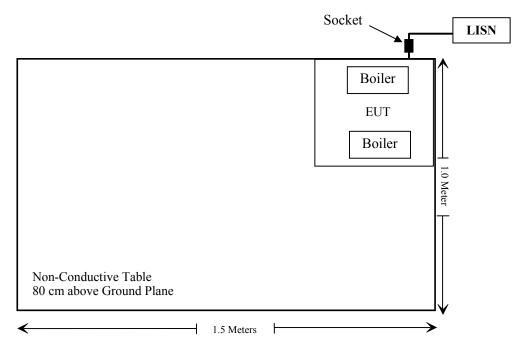
Report No.: RSZ190530552-00

External Cable List and Details

Cable Description	Length (m)	From/Port	То
Unshielded Un-detachable AC Cable	1.7	Socket	EUT

FCC Part 18 Page 5 of 15

Block Diagram of Test Setup



FCC Part 18 Page 6 of 15

SUMMARY OF TEST RESULT

FCC Rules	Description of Test	Results
§18.307	AC Line Conducted Emissions	Compliance
§18.305	Field Strength	Compliance

Report No.: RSZ190530552-00

FCC Part 18 Page 7 of 15

TEST EQUIPMENT LIST

Manufacturer	Description Model		Serial Number	Calibration Date	Calibration Due Date	
CONDUCTED EMISSIONS						
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2018-07-11	2019-07-11	
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2019-01-25	2020-01-25	
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2019-03-02	2020-03-02	
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR	
Unknown Conducted Emission Cable 78652 UF A210B-1-0720-504504		2018-11-12	2019-11-12			
	RADIATED EMISSIONS					
Sonoma Instrument	Amplifier	310N	186238	2018-11-12	2019-11-12	
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03 -101746-zn	2018-07-11	2019-07-11	
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017-12-22	2020-12-21	
ETS	Passive Loop Antenna	6512	29604	2018-07-14	2021-07-13	
R&S	Auto test Software	EMC32	V9.10	NCR	NCR	

Report No.: RSZ190530552-00

FCC Part 18 Page 8 of 15

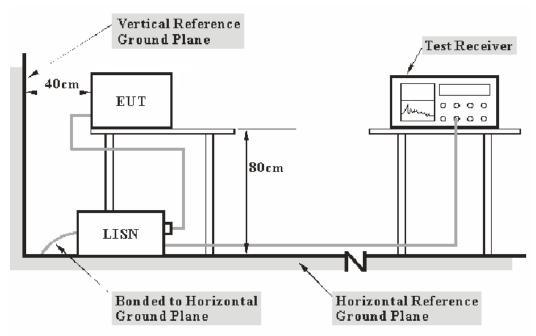
^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

CONDUCTED EMISSIONS

Applicable Standard

FCC §18.307

EUT Setup



Report No.: RSZ190530552-00

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.

The socket was connected to a 240 VAC/ 60Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 9 kHz to 30 MHz.

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

Frequency Range	IF B/W
9 kHz – 150 kHz	200 Hz
150 kHz – 30 MHz	9 kHz

FCC Part 18 Page 9 of 15

Test Procedure

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

All final data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC PART 18,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

Report No.: RSZ190530552-00

In BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_{m} is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

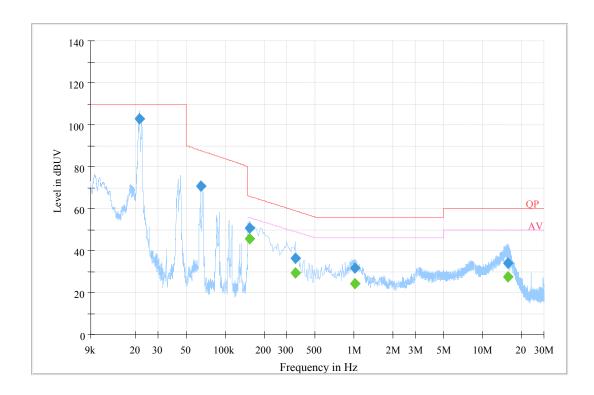
Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2019-06-17.

EUT operation mode: Max power

FCC Part 18 Page 10 of 15

AC 240V/60Hz, Line

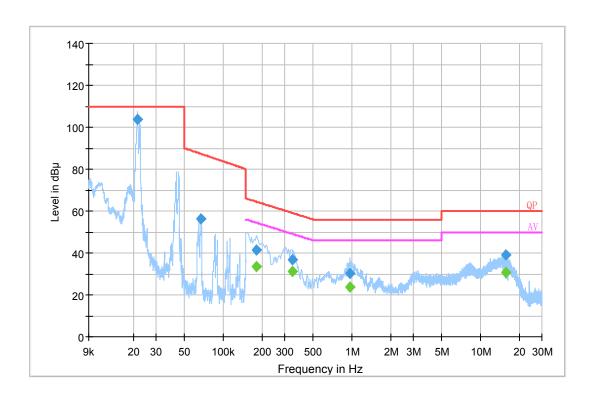


Report No.: RSZ190530552-00

Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.021506	102.6	20.4	110.0	7.4	QP
0.064538	70.5	19.9	87.7	17.2	QP
0.154000	50.9	19.8	65.8	14.9	QP
0.350000	36.3	19.9	59.0	22.7	QP
1.014000	31.5	19.9	56.0	24.5	QP
15.746000	34.2	20.1	60.0	25.8	QP
0.154000	45.5	19.8	55.8	10.3	Ave.
0.350000	29.5	19.9	49.0	19.5	Ave.
1.014000	24.2	19.9	46.0	21.8	Ave.
15.746000	27.5	20.1	50.0	22.5	Ave.

FCC Part 18 Page 11 of 15

AC 240V/60Hz, Neutral



Report No.: RSZ190530552-00

Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.021421	103.7	20.6	110.0	6.3	QP
0.067304	56.1	19.8	87.3	31.2	QP
0.182000	41.5	19.8	64.4	22.9	QP
0.342000	36.8	19.8	59.2	22.4	QP
0.966000	30.3	19.8	56.0	25.7	QP
15.866000	39.1	20.0	60.0	20.9	QP
0.182000	33.4	19.8	54.4	21.0	Ave.
0.342000	31.1	19.8	49.2	18.1	Ave.
0.966000	24.0	19.8	46.0	22.0	Ave.
15.866000	30.9	20.0	50.0	19.1	Ave.

Note:

- Corrected Amplitude = Reading + Correction Factor
 Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation
 Margin = Limit Corrected Amplitude

FCC Part 18 Page 12 of 15

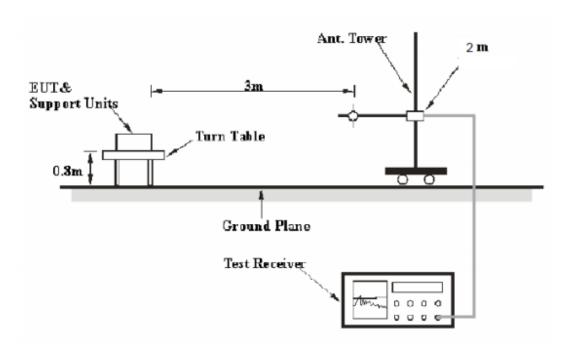
RADIATED EMISSIONS

Applicable Standard

FCC §18.305 and FCC §18.309

EUT Setup

Below 1GHz:



Report No.: RSZ190530552-00

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the FCC MP - 5. The specification used was the FCC part 18 limits.

The socket was connected to 240 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:

Frequency Range	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	QP
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	QP

FCC Part 18 Page 13 of 15

Test Procedure

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

Report No.: RSZ190530552-00

The EUT was in the normal (naïve) operating mode during the final qualification test to represent the worst results.

Corrected Amplitude & Margin 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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 18,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data and Plots

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Baston Chen on 2019-06-14.

EUT operation mode: Max power

FCC Part 18 Page 14 of 15

9 KHz – 30 MHz:

Frequency (MHz)	Corrected Amplitude (dBµV/m)	PK/QP/Ave.	Turntable Position (degree)	Antenna Height (m)	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
2.91	57.98	QP	78	2	40.9	103.52	45.54
3.36	56.35	QP	163	2	40.9	103.52	47.17
7.16	59.54	QP	257	2	34.3	103.52	43.98
9.42	55.42	QP	194	2	32.9	103.52	48.1
15.62	56.29	QP	43	2	32.2	103.52	47.23
18.76	54.78	QP	155	2	32.1	103.52	48.74

Report No.: RSZ190530552-00

Note:

- Corrected Amplitude = Meter Reading + Correction Factor
 Correction Factor = Antenna Factor + Cable Loss Amplifier Gain
 Margin = Limit Corrected Amplitude
- 4) The data below 20dB to the limit was not recorded.

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

FCC Part 18 Page 15 of 15