EMC Test Report

Applicant	:	**BAOERMA ELECTRICAL GROUP CO.,LTD**
Address	:	**No.789 Xintang Road Fuhai Town Cixi City Ningbo Zhejiang**
Product Name	:	**Double drum Washing Machine**
Report Date	:	**Jun. 07, 2024**

Shenzhen Anbotek Compliance Laboratory Limited

Contents

TEST REPORT

Applicant	:	BAOERMA ELECTRICAL GROUP CO.,LTD
Manufacturer	:	BAOERMA ELECTRICAL GROUP CO.,LTD
Product Name	:	Double drum Washing Machine
Test Model No.	:	XPB110-2012S
Reference Model No.	:	N/A
Trade Mark	:	N/A
Rating(s)	:	AC 100-110V, 50Hz, 520W
Test Standard(s)	:	**J55014-1 (H27)**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements.
This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: May 21, 2024

Date of Test: May 21, 2024 to May 27, 2024

Prepared By: We Zeng

(We Zeng)

Approved & Authorized Signer: KingKongJin

(KingKong Jin)

1. General Information

1.1. Client Information

Applicant	:	BAOERMA ELECTRICAL GROUP CO.,LTD
Address	:	No.789 Xintang Road Fuhai Town Cixi City Ningbo Zhejiang
Manufacturer	:	BAOERMA ELECTRICAL GROUP CO.,LTD
Address	:	No.789 Xintang Road Fuhai Town Cixi City Ningbo Zhejiang
Factory	:	BAOERMA ELECTRICAL GROUP CO.,LTD
Address	:	No.789 Xintang Road Fuhai Town Cixi City Ningbo Zhejiang

1.2. Description of Device (EUT)

Product Name	:	Double drum Washing Machine
Test Model No.	:	XPB110-2012S
Reference Model No.	:	N/A
Trade Mark	:	N/A
Test Power Supply	:	AC 100V, 50Hz
Test Sample No.	:	1-1-1
Adapter	:	N/A
Remark: (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

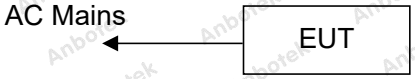
1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	on mode (50Hz)

For Mode 1 Block Diagram of Test Setup



1.5. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Disturbance power (30MHz~300MHz)	3.4dB
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.6. Test Summary

Test Items	Test Modes	Status
Disturbance Voltage on AC Mains	Mode1	P
Disturbance Power	Mode1	P
Note: P: Pass N: N/A, not applicable		

1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:434132
Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A
Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location
Shenzhen Anbotek Compliance Laboratory Limited.
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.8. Test Equipment List

Disturbance Voltage on AC Mains						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	2024-01-17	2025-01-16
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2024-01-17	2025-01-16
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

Disturbance Power						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2024-01-17	2025-01-16
2	Absorbing Clamp	TESEQ	MDS 21B	58885	2024-01-18	2025-01-17
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

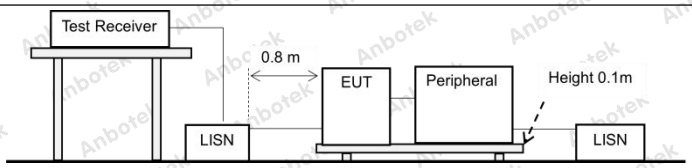
2. Disturbance Voltage on AC Mains

<table>
<tr><td>Test Requirement:</td><td>Table 1</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency range</td><td colspan="2">Mains ports
Disturbance voltage</td></tr>
<tr><td>MHz</td><td>Quasi-peak
dBµV</td><td>Average
dBµV</td></tr>
<tr><td rowspan="2">0,15 to 0,50</td><td colspan="2">Decreasing linearly with the logarithm of the frequency from:</td></tr>
<tr><td>66 to 56</td><td>59 to 46</td></tr>
<tr><td>0,50 to 5</td><td>56</td><td>46</td></tr>
<tr><td>5 to 30</td><td>60</td><td>50</td></tr>
<tr><td colspan="3">The lower limit applies at the transition frequencies.</td></tr>
</table>
</td></tr>
<tr><td>Test Method:</td><td>CISPR 16-2-1</td></tr>
<tr><td>Procedure:</td><td>An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.
Remark: Level= Read Level+ Cable Loss+ LISN Factor</td></tr>
</table>

2.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: on mode (50Hz)

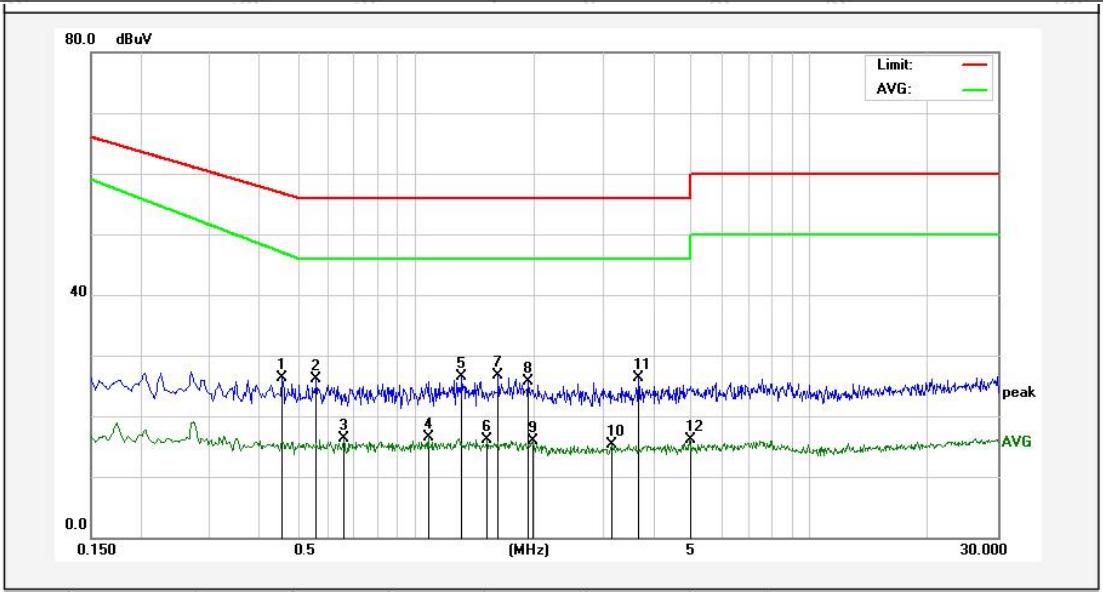
2.2. Test Setup



2.3. Test Data

Temperature:	24 °C	Humidity:	56.9 %	Atmospheric Pressure:	101 kPa

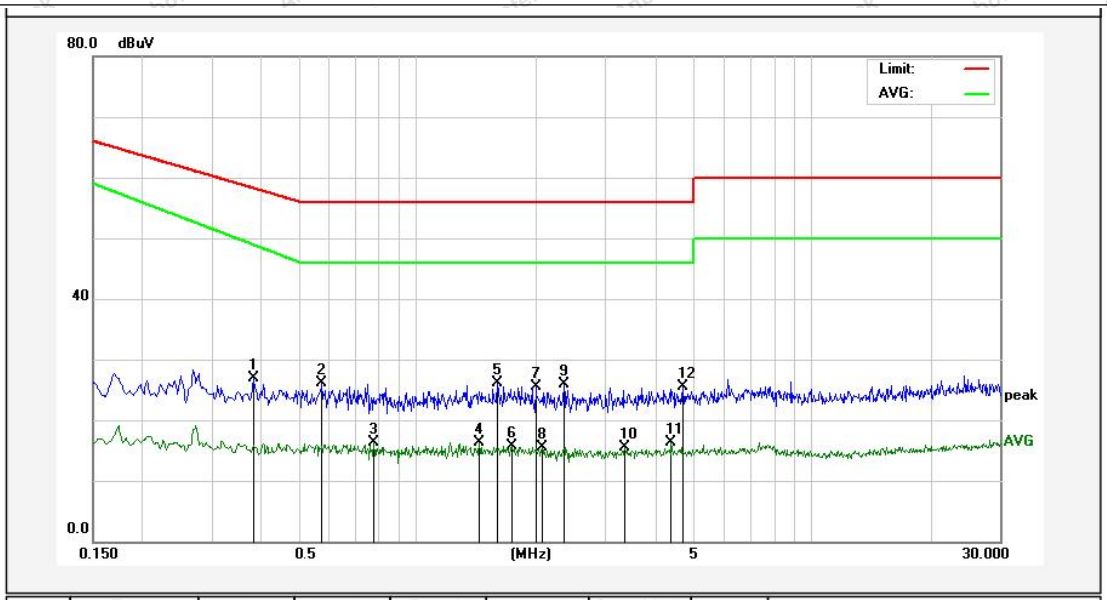
TM1 / Line: Line



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4580	7.23	18.99	26.22	56.73	-30.51	QP	
2	0.5620	6.99	19.06	26.05	56.00	-29.95	QP	
3	0.6580	-2.77	19.09	16.32	46.00	-29.68	AVG	
4	1.0820	-2.31	18.91	16.60	46.00	-29.40	AVG	
5	1.3140	7.57	18.89	26.46	56.00	-29.54	QP	
6	1.5260	-2.70	18.85	16.15	46.00	-29.85	AVG	
7	1.6220	7.91	18.85	26.76	56.00	-29.24	QP	
8	1.9340	6.88	18.81	25.69	56.00	-30.31	QP	
9	1.9860	-2.98	18.81	15.83	46.00	-30.17	AVG	
10	3.1420	-3.49	18.78	15.29	46.00	-30.71	AVG	
11	3.6700	7.59	18.77	26.36	56.00	-29.64	QP	
12	4.9460	-2.68	18.75	16.07	46.00	-29.93	AVG	

Temperature:	24 °C	Humidity:	56.9 %	Atmospheric Pressure:	101 kPa

TM1 / Line: Neutral



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.3820	8.02	18.87	26.89	58.23	-31.34	QP	
2	0.5740	7.14	19.06	26.20	56.00	-29.80	QP	
3	0.7780	-2.75	19.06	16.31	46.00	-29.69	AVG	
4	1.4380	-2.67	18.88	16.21	46.00	-29.79	AVG	
5	1.5980	7.18	18.85	26.03	56.00	-29.97	QP	
6	1.7420	-3.18	18.84	15.66	46.00	-30.34	AVG	
7	1.9980	6.67	18.81	25.48	56.00	-30.52	QP	
8	2.0740	-3.30	18.81	15.51	46.00	-30.49	AVG	
9	2.3460	7.16	18.80	25.96	56.00	-30.04	QP	
10	3.3500	-3.20	18.78	15.58	46.00	-30.42	AVG	
11	4.4020	-2.43	18.76	16.33	46.00	-29.67	AVG	
12	4.7020	6.77	18.75	25.52	56.00	-30.48	QP	

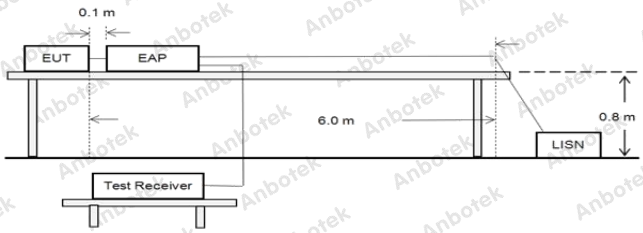
3. Disturbance Power

<table>
<tr><td>Test Requirement:</td><td>Table 2a & 2b</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency range</td><td colspan="2">General</td></tr>
<tr><td>MHz</td><td>Quasi-peak
dBpW</td><td>Average
dBpW</td></tr>
<tr><td rowspan="2">30 to 300</td><td colspan="2">Increasing linearly with the frequency from:</td></tr>
<tr><td>45 to 55</td><td>35 to 45</td></tr>
<tr><td>200 to 300</td><td>0 to 10</td><td>-</td></tr>
<tr><td colspan="3">Key
P = rated power of the motor only.
Additional limits of 200 to 300 for reduction applicable to Table 7 limits.</td></tr>
</table>
</td></tr>
<tr><td>Test Method:</td><td>CISPR 16-2-2</td></tr>
<tr><td>Procedure:</td><td>An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.
Measured Level = Read level + Cable Loss + Clamp Factor</td></tr>
</table>

3.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: on mode (50Hz)

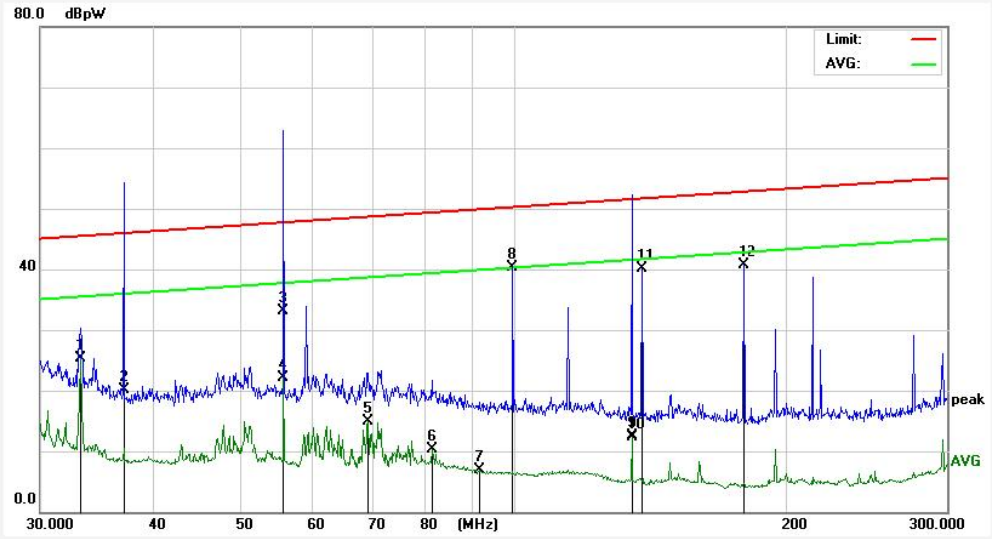
3.2. Test Setup



3.3. Test Data

Temperature:	24 °C	Humidity:	56.9 %	Atmospheric Pressure:	101 kPa

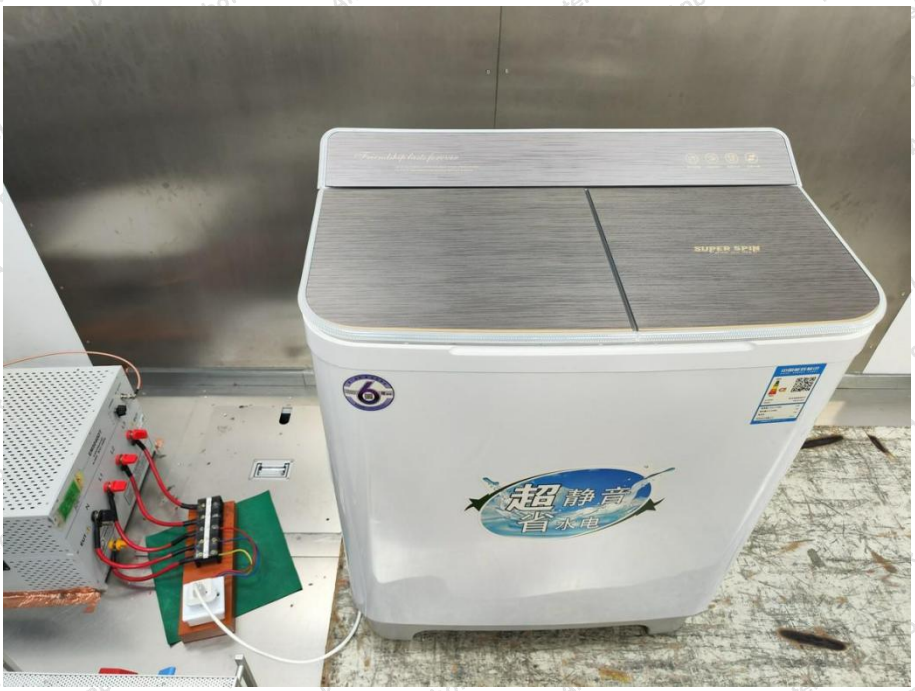
TM1



No.	Freq. (MHz)	Reading (dBpW)	Factor (dB)	Result (dBpW)	Limit (dBpW)	Over Limit (dB)	Detector	Remark
1	33.2400	-0.58	25.81	25.23	35.45	-10.22	AVG	
2	37.0800	-5.45	25.59	20.14	45.92	-25.78	QP	
3	55.8000	8.18	25.02	33.20	47.70	-14.50	QP	
4	55.8000	-2.85	25.02	22.17	37.70	-15.53	AVG	
5	69.1200	-8.93	23.85	14.92	38.62	-23.70	AVG	
6	81.2000	-14.61	24.83	10.22	39.32	-29.10	AVG	
7	91.8399	-17.07	23.88	6.81	39.86	-33.05	AVG	
8	99.7200	16.74	23.66	40.40	50.22	-9.82	QP	
9	134.7600	-9.77	22.22	12.45	51.52	-39.07	QP	
10	134.7600	-9.84	22.22	12.38	41.52	-29.14	AVG	
11	138.3600	18.11	21.98	40.09	51.64	-11.55	QP	
12	179.0800	18.81	21.90	40.71	52.76	-12.05	QP	

APPENDIX I -- TEST SETUP PHOTOGRAPH

Disturbance Voltage on AC Mains



Disturbance Power

APPENDIX II -- Photo documentation

Photo 1	
Photo 2	

Photo 3	

Photo 4	

Photo 5	

Photo 6	

Photo 7	

Photo 8	

Photo 9	

---------- End of Report ----------