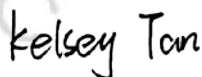


TEST REPORT

Product Name: UVC sterilization bag
Trademark: N/A
JUVC-HC-01
XXXX-XX-XX
Model Number: The 1st to 6th "X" can be replaced by "A" to "Z", or by blank, to represent the product feature description.
The 7th to 8th "X" can be replaced by "0" to "9", or by blank, to represent the product feature.
Prepared For: JAVA Innovation Co., Limited
Address: A515 Founder Technology Industrial park,
North of Songbai Road, Shiyan Town, Bao'an District,
Shenzhen.
Manufacturer: JAVA Innovation Co., Limited
Address: A515 Founder Technology Industrial park,
North of Songbai Road, Shiyan Town, Bao'an District,
Shenzhen.
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: BCTC Building & 1-2F, East of B Building, Pengzhou
Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong
Street, Bao'an District, Shenzhen, China
Sample Received Date: Apr. 20, 2020
Sample tested Date: Apr. 20, 2020 to Apr. 28, 2020
Issue Date: Apr. 28, 2020
Report No.: BCTC2004001363E
Test Standards: EN 55014-1:2017, EN 55014-2:2015
Test Results: PASS

Compiled by:



Kelsey Tan

Reviewed by:



Eric Yang

Approved by:



Zero Zhou/Manager

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2004001363E	Apr. 28, 2020	Original	valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

EMISSION		
Standard	Test Item	Test result
EN 55014-1	Disturbance voltages(CE)	Pass
EN 55014-1	Discontinuous disturbance (Clicks)	N/A ¹
EN 55014-1	Disturbance power(DP)	N/A ²
EN 55014-1	Magnetic field induced current in a 2m loop antenna(ME)	N/A ³
EN 55014-1	Magnetic field strength	N/A ³
EN 55014-1	Radiated disturbance (RE)	Pass

IMMUNITY (EN 55014-2)		
Standard	Test Item	Test result
IEC 61000-4-2	Electrostatic discharge immunity Test (ESD)	Pass
IEC 61000-4-3	Radio frequency electromagnetic fields(RS)	N/A ⁵
IEC 61000-4-4	Fast transients immunity Test (EFT)	N/A ⁴
IEC 61000-4-5	Surges immunity Test	N/A ⁴
IEC 61000-4-6	Injected currents immunity Test (CS)	N/A ⁴
IEC 61000-4-11	Voltage dips and interruptions immunity Test (DIPS)	N/A ⁴

Remark:

1. The Product has no switching operations, automatic programme or other electrically controlled or operated functions
2. The Product shall be evaluated for emissions in the 30 MHz to 1 000 MHz range by testing in accordance with method b as described in clause 4.3.4.2 of EN55014-1.
3. It only apply to induction cooking appliances.
4. The EUT is powered by the DC by USB port, the test item is not applicable.
5. The Product is belong to category II.

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test item	Value (dB)
Disturbance voltages (150K-30MHZ)	3.20
Disturbance power(DP)	3.70
Radiated disturbance (30MHz-1000MHz)	4.80

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Ratings: DC 5V from adapter

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Data Cable	Power Cord
1.	Adapter	UGreen	CD122	---	---	---

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Test Mode

Test item	Test Mode	Test Voltage
Disturbance voltages(150KHz-30MHz)	Working	AC 230V/50Hz
Radiated disturbance(30MHz-1GHz)	Working	AC 230V/50Hz
Electrostatic discharge (ESD) B <input checked="" type="checkbox"/> Air Discharge: $\pm 8\text{kV}$ <input checked="" type="checkbox"/> Contact Discharge: $\pm 4\text{kV}$ <input checked="" type="checkbox"/> HCP & VCP: $\pm 4\text{kV}$	Working	AC 230V/50Hz
Radio frequency electromagnetic fields(RS) A 80MHz-1000MHz, 3V/m,80% Front, Rear, Left, Right H/V	Working	AC 230V/50Hz
All test mode were tested and passed, only Disturbance voltages, Radiated disturbance, shows (*) is the worst case mode which were recorded in this report.		

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

Disturbance voltages and Discontinuous disturbance Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	Jun. 13, 2019	Jun.12, 2020
LISN	R&S	ENV216	101375	Jun. 13, 2019	Jun.12, 2020
ISN	HPX	ISN T800	S1509001	Jun. 13, 2019	Jun.12, 2020
Software	Frad	EZ-EMC	EMC-CO N 3A1	\	\

Radiated disturbance Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 19, 2018	Jun. 18, 2021
Receiver	R&S	ESR3	102075	Jun. 13, 2019	Jun. 12, 2020
Receiver	R&S	ESRP	101154	Jun. 13, 2019	Jun. 12, 2020
Amplifier	Schwarzbeck	BBV9718	9718-309	Jun. 25, 2019	Jun. 24, 2020
Amplifier	Schwarzbeck	BBV9744	9744-0037	Jun. 25, 2019	Jun. 24, 2020
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163-942	Jun. 22, 2019	Jun. 21, 2020
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

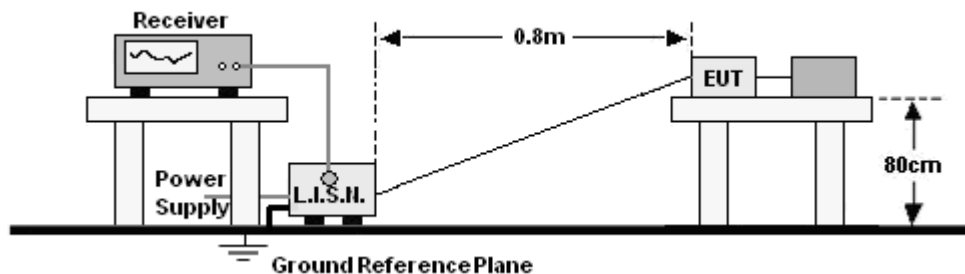
Electrostatic discharge immunity Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
ESD Tester	KIKISUI	KES4201 A	UH002321	Jul. 12, 2019	Jul. 10, 2020

Radio frequency electromagnetic fieldsTest					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	GB42421440	Jun. 17, 2019	Jun. 16, 2020
Power sensor	Keysight	E9300A	US39211305	Jun. 17, 2019	Jun. 16, 2020
Power sensor	Keysight	E9300A	US39211659	Jun. 17, 2019	Jun. 16, 2020
Amplifier	SKET	HAP-801000M-250W	\	Jun. 25, 2019	Jun. 24, 2020
Amplifier	SKET	HAP-801000M-75W	\	Jun. 25, 2019	Jun. 24, 2020
Amplifier	SKET	HAP-801000M-50W	\	Jun. 25, 2019	Jun. 24, 2020
Stacked double Log.-Per. Antenna	Schwarzbeck	STLP 9129	077	\	\
Field Probe	Narda	EP-601	80256	Jul. 07, 2019	Jul. 06, 2020
Signal Generator	Agilent	N5181A	MY50143748	Jun. 13, 2019	Jun. 12, 2020
Software	SKET	EMC-S	1.2.0.18	\	\

6. DISTURBANCE VOLTAGES

6.1 Block Diagram Of Test Setup

For mains ports:



6.2 Limit

At mains ports Limits for Household Appliance

Frequency (MHz)	Limits dB(μ V)	
	Quasi-peak	Average
0,15 ~ 0,50	66 ~ 56*	59 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

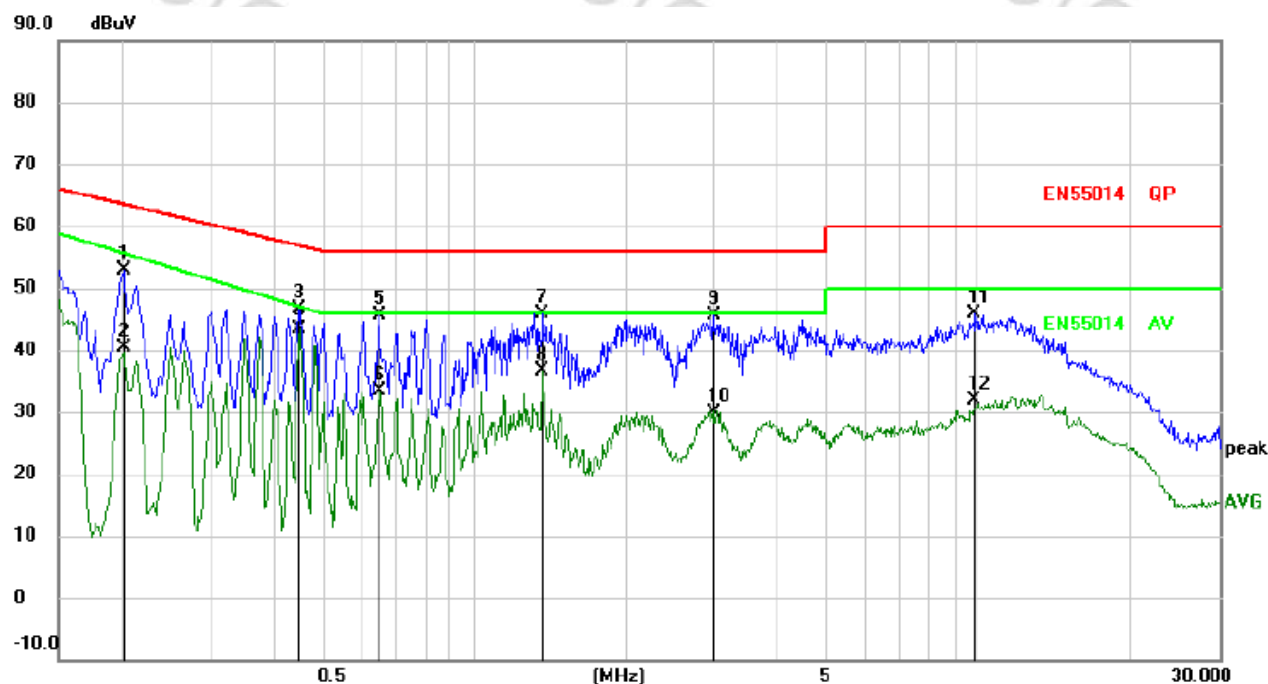
6.3 Test procedure

For mains ports:

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

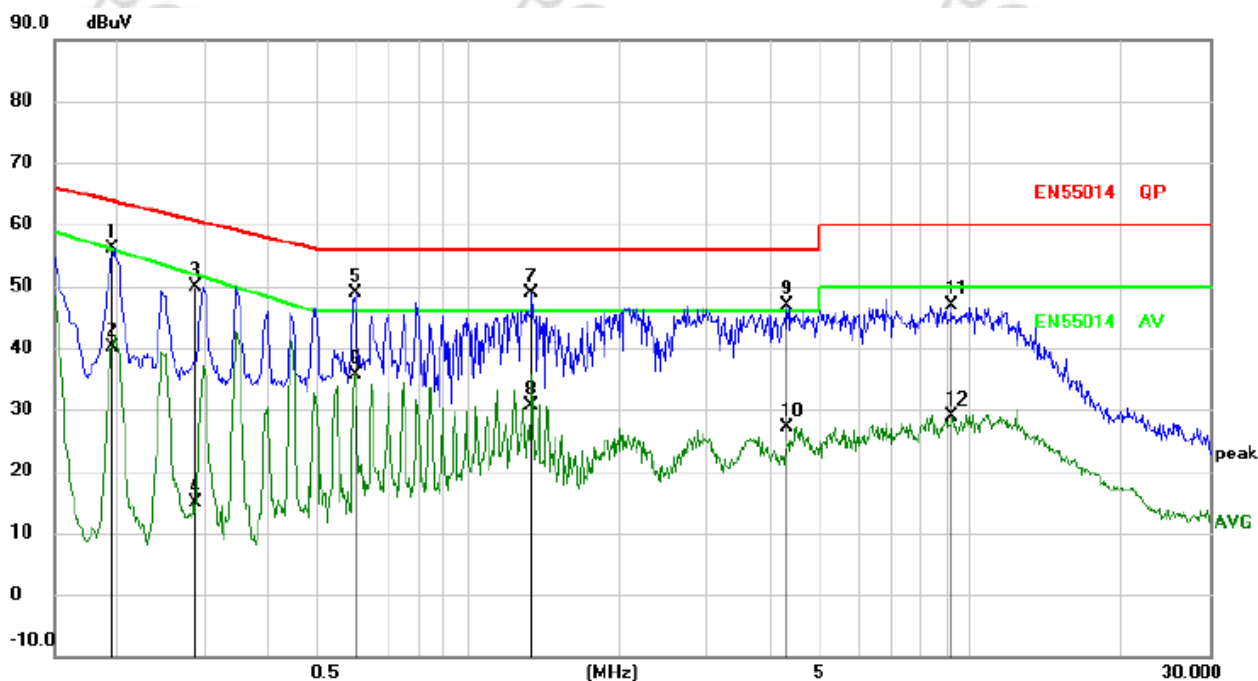
6.4 Test Result

Temperature:	26 °C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Line
Test Voltage :	DC 5V from adapter input AC 230V/50Hz	Test Mode:	Working



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2020	43.52	9.46	52.98	63.53	-10.55	QP	
2		0.2020	30.87	9.46	40.33	55.79	-15.46	AVG	
3		0.4500	37.02	9.54	46.56	56.88	-10.32	QP	
4	*	0.4500	33.94	9.54	43.48	47.14	-3.66	AVG	
5		0.6500	35.92	9.82	45.74	56.00	-10.26	QP	
6		0.6500	23.66	9.82	33.48	46.00	-12.52	AVG	
7		1.3700	36.24	9.58	45.82	56.00	-10.18	QP	
8		1.3700	27.01	9.58	36.59	46.00	-9.41	AVG	
9		2.9900	36.03	9.66	45.69	56.00	-10.31	QP	
10		2.9900	20.19	9.66	29.85	46.00	-16.15	AVG	
11		9.8500	36.31	9.69	46.00	60.00	-14.00	QP	
12		9.8500	22.30	9.69	31.99	50.00	-18.01	AVG	

Temperature:	26 °C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Neutral
Test Voltage :	DC 5V from adapter input AC 230V/50Hz	Test Mode:	Working



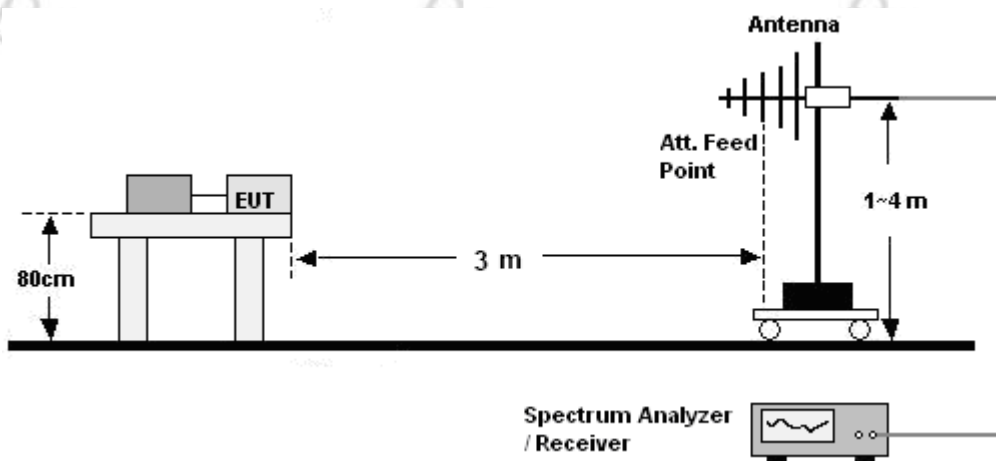
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1955	46.59	9.47	56.06	63.80	-7.74	QP	
2		0.1955	30.78	9.47	40.25	56.14	-15.89	AVG	
3		0.2860	40.35	9.56	49.91	60.64	-10.73	QP	
4		0.2860	5.37	9.56	14.93	52.03	-37.10	AVG	
5	*	0.5947	39.01	9.98	48.99	56.00	-7.01	QP	
6		0.5947	25.62	9.98	35.60	46.00	-10.40	AVG	
7		1.3420	39.24	9.58	48.82	56.00	-7.18	QP	
8		1.3420	20.96	9.58	30.54	46.00	-15.46	AVG	
9		4.3300	37.16	9.75	46.91	56.00	-9.09	QP	
10		4.3300	17.43	9.75	27.18	46.00	-18.82	AVG	
11		9.1579	37.25	9.70	46.95	60.00	-13.05	QP	
12		9.1579	19.16	9.70	28.86	50.00	-21.14	AVG	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

7. RADIATED DISTURBANCE TEST

7.1 Block Diagram Of Test Setup



7.2 Limits

Frequency (MHz)	Quasi-peak limits at 3m dB(μV/m)
30-230	40
230-1000	47

Note: The lower limit shall apply at the transition frequencies.

7.3 Test Procedure

- The Product was placed on the nonconductive turntable 0.8 m above the ground at a chamber.
- Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

7.4 Test Results

Temperature:	26 °C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Horizontal
Test Voltage :	DC 5V from adapter input AC 230V/50Hz	Test Mode:	Working



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		48.1626	32.99	-14.95	18.04	40.00	-21.96	QP		
2		85.5977	42.04	-19.12	22.92	40.00	-17.08	QP		
3		106.3850	34.87	-16.69	18.18	40.00	-21.82	QP		
4	*	206.3976	42.73	-16.15	26.58	40.00	-13.42	QP		
5		349.2500	29.60	-12.25	17.35	47.00	-29.65	QP		
6		618.5369	24.66	-6.63	18.03	47.00	-28.97	QP		

Temperature:	26 °C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Vertical
Test Voltage :	DC 5V from adapter input AC 230V/50Hz	Test Mode:	Working



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Antenna Height cm	Table Degree	
							Detector		degree	Comment
1		32.8637	41.57	-16.74	24.83	40.00	-15.17	QP		
2	*	55.0274	44.27	-15.38	28.89	40.00	-11.11	QP		
3		85.2980	41.79	-19.19	22.60	40.00	-17.40	QP		
4		185.1379	42.86	-17.25	25.61	40.00	-14.39	QP		
5		375.9385	28.40	-11.64	16.76	47.00	-30.24	QP		
6		539.4775	24.36	-7.95	16.41	47.00	-30.59	QP		

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

8. IMMUNITY TEST OF GENERAL THE PERFORMANCE CRITERIA

Product Standard	EN 55014-2:2015
CRITERION A	The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended
CRITERION B	The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
CRITERION C	Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

vertically at a distance of 0.1 meters from the Product with the discharge electrode touching the HCP.

h. At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the Vertical Coupling Plane in sufficiently different positions that the four faces of the Product were completely illuminated. The VCP (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the Product.

9.4 Test Results

Temperature:	26 °C	Relative Humidity:	54 %
Pressure:	101kPa	Test Mode:	Working
Test Voltage :	DC 5V from adapter input AC 230V/50Hz		

Discharge Method	Discharge Position	Voltage (±kV)	Min. No. of Discharge per polarity (Each Point)	Required Level	Performance Criterion
Contact Discharge	Conductive Surfaces	4	10	B	A
	Indirect Discharge HCP	4	10	B	A
	Indirect Discharge VCP	4	10	B	A
Air Discharge	Slots, Apertures, and Insulating Surfaces	8	10	B	A
Note: N/A					

10. EUT PHOTOGRAPHS

EUT Photo 1



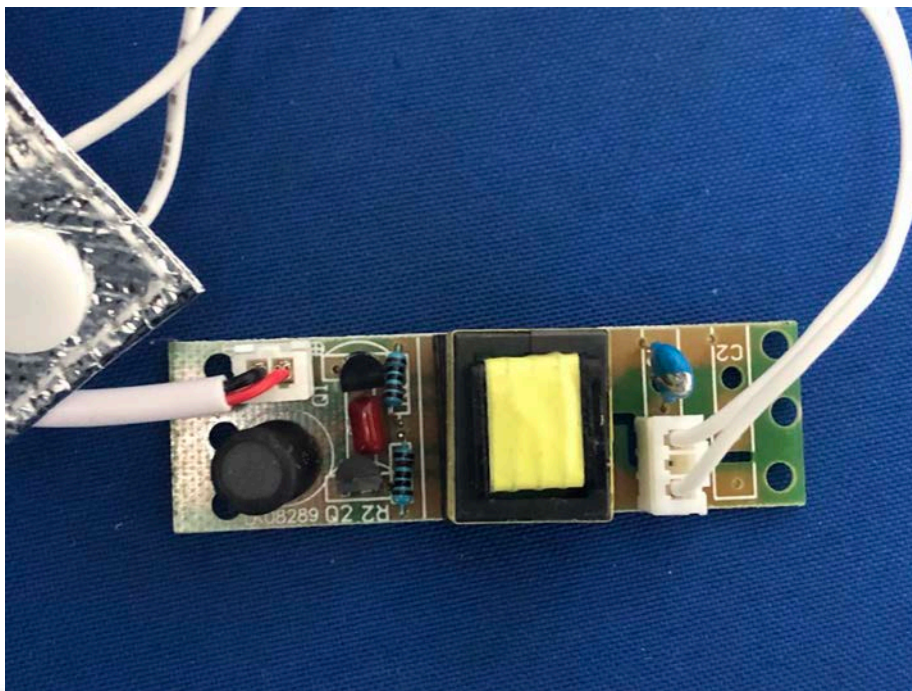
EUT Photo 2



EUT Photo 3



EUT Photo 4

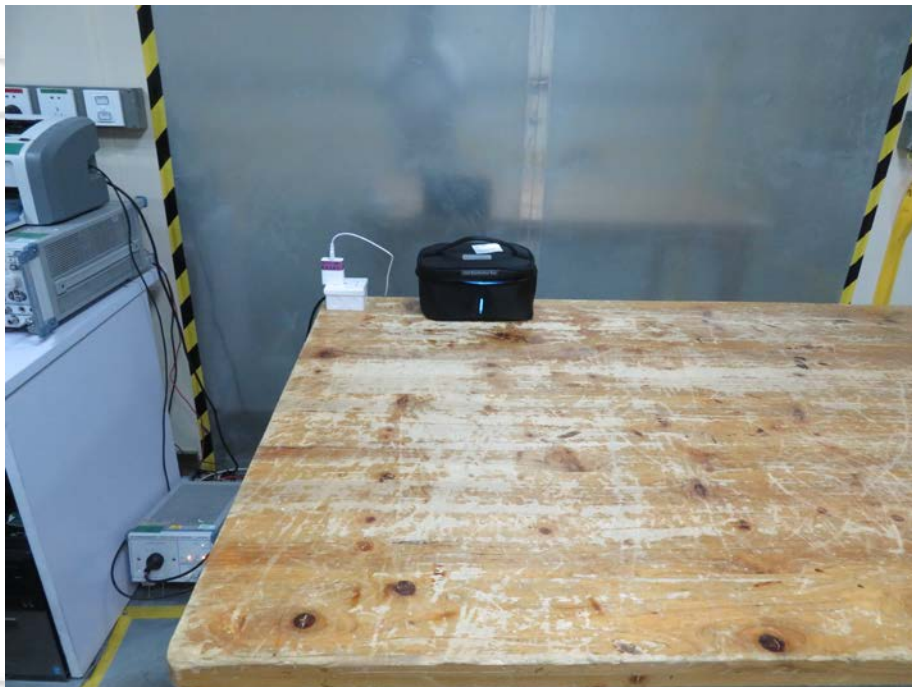


EUT Photo 5

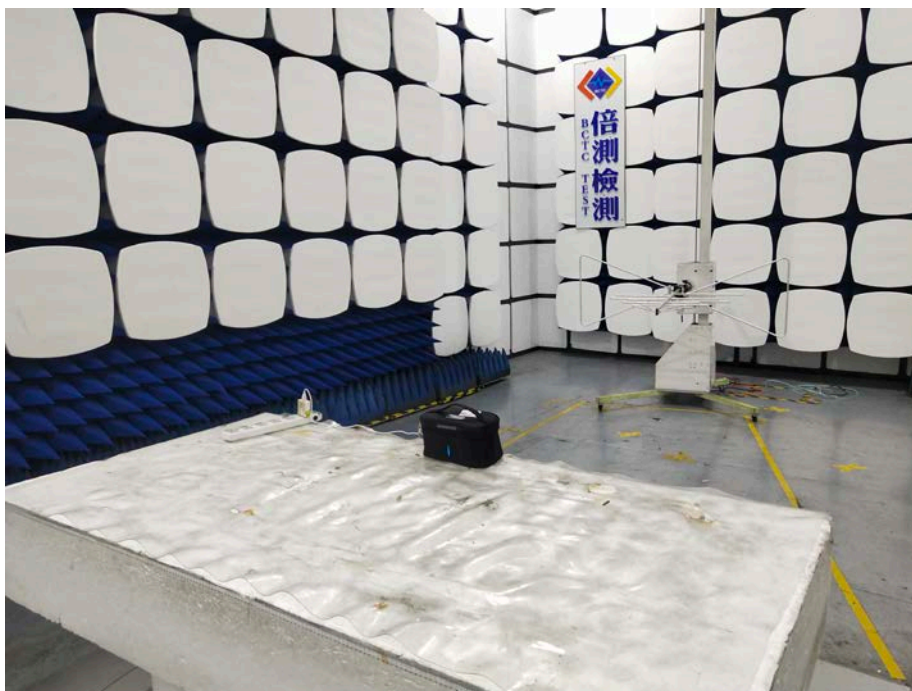


11. EUT TEST SETUP PHOTOGRAPHS

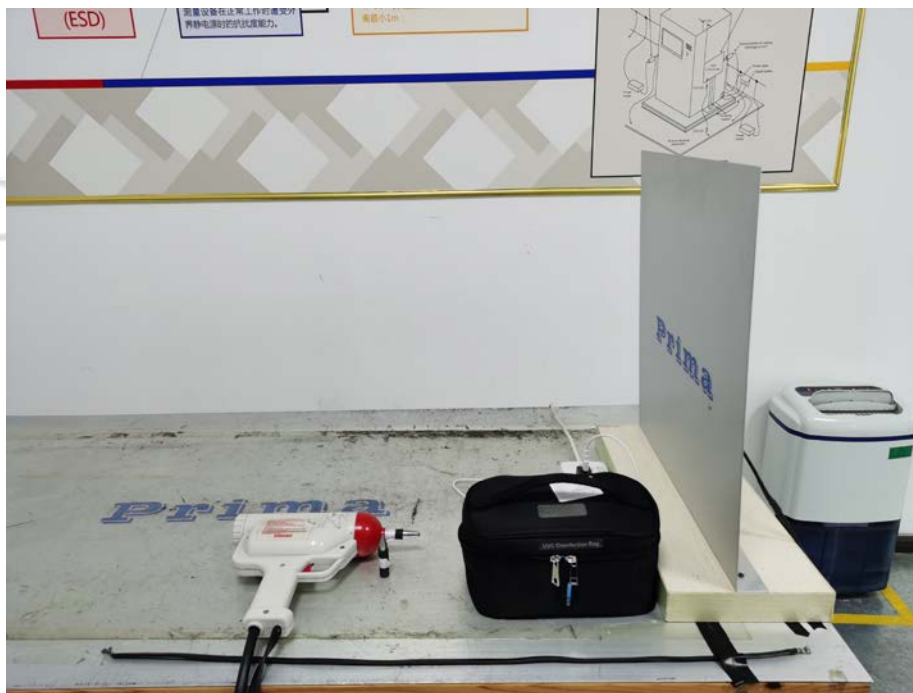
Disturbance voltages



Radiated disturbance



ESD



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