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TEST REPORT

Report No.: CQASZ20210300220E
Applicant: ShenZhen YingBoJingKong Technology Co., Ltd.
Address of Applicant: No. 602, West of 6th Floor, Building 713, PengJi Industrial Zone, Liantang Street, Luohu District, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Sous Vide
Model No.: ISV-100W, ISV-200W, ISV-300W
Test Model No.: ISV-100W
Brand Name: N/A
FCC ID: 2AZDEISV10W
Standards: 47 CFR Part 15, Subpart B, Class B
Date of Receipt: 2021-3-6
Date of Test: 2021-3-6 to 2021-3-13
Date of Issue: 2021-3-22
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Jun Li
(Jun Li)
Reviewed By: Ares Liu
(Ares Liu)
Approved By: Sheek Luo
(Sheek Luo)



1 Version

Revision History of Report

Report No.	Version	Description	Issue Date
CQASZ20210300220E	Rev.01	Initial report	2021-3-22

2 Test Summary

Test Item	Test Requirement	Test method	Result
Radiated Emission	47 CFR Part 15B	ANSI C63.4-2014	PASS
Conducted Emission (150KHz to 30MHz)	47 CFR Part 15B	ANSI C63.4-2014	PASS

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement Range (MHz)
Below 1.705	30
1.705 to 108	1000
108 to 500	2000
500 to 1000	5000

Remark:

The tested sample(s) and the sample information are provided by the client.

The highest frequency of the internal sources of the EUT is below 108 MHz.

3 Contents

	Page
1 VERSION.....	2
2 TEST SUMMARY.....	3
3 CONTENTS.....	4
4 GENERAL INFORMATION.....	5
4.1 CLIENT INFORMATION.....	5
4.2 GENERAL DESCRIPTION OF EUT.....	5
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD.....	5
4.4 TEST ENVIRONMENT AND MODE.....	6
4.5 DESCRIPTION OF SUPPORT UNITS.....	6
4.6 TEST LOCATION.....	6
4.7 DEVIATION FROM STANDARDS.....	6
4.8 ABNORMALITIES FROM STANDARD CONDITIONS.....	6
4.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	6
4.10 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2).....	7
5 EQUIPMENT LIST.....	8
6 TEST RESULTS AND MEASUREMENT DATA.....	9
6.1 CONDUCTED EMISSIONS.....	9
6.2 RADIATED EMISSION.....	13
APPENDIX 1 PHOTOGRAPHS OF TEST SETUP.....	17
APPENDIX 2 PHOTOGRAPHS OF EUT.....	18

4 General Information

4.1 Client Information

Applicant:	ShenZhen YingBoJingKong Technology Co., Ltd.
Address of Applicant:	No. 602, West of 6th Floor, Building 713, PengJi Industrial Zone, Liantang Street, Luohu District, Shenzhen, Guangdong, China
Manufacturer:	ShenZhen YingBoJingKong Technology Co., Ltd.
Address of Manufacturer:	No. 602, West of 6th Floor, Building 713, PengJi Industrial Zone, Liantang Street, Luohu District, Shenzhen, Guangdong, China
Factory:	ShenZhen YingBoJingKong Technology Co., Ltd.
Address of Factory:	No. 602, West of 6th Floor, Building 713, PengJi Industrial Zone, Liantang Street, Luohu District, Shenzhen, Guangdong, China

4.2 General Description of EUT

Product Name:	Sous Vide
Model No.:	ISV-100W, ISV-200W, ISV-300W
Test Model No.:	ISV-100W
Brand Name:	N/A
Power Supply:	AC120V/60Hz

4.3 Product Specification subjective to this standard

Sample Type:	<input type="checkbox"/> Mobile <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Fix Location
Test voltage:	120V 60Hz
Test Mode:	
Normal working	Keep the EUT at Normal working

Note:

Model No.: ISV-100W, ISV-200W, ISV-300W

Only the model ISV-100W was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.

4.4 Test Environment and Mode

Operating Environment:	
Radiated Emission	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emission	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	CQA

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

No tests were sub-contracted:

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

4.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Conduction emission	3.74dB (9kHz to 150kHz)
		3.34dB (150kHz to 30MHz)
2	Radiated emission	5.12dB (Below 1GHz)
		4.60dB (Above 1GHz)
3	Temperature	0.8°C
4	Humidity	2.0%

5 Equipment List

Conducted Emissions (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver	R&S	ESPI3	CQA-013	2020/9/26	2021/9/25
LISN	R&S	ENV216	CQA-003	2020/10/23	2021/10/22
Coaxial cable (9KHz~300MHz)	CQA	N/A	C021	2020/9/26	2021/9/25

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No.	Cal Date	Cal Due Date
Loop antenna	SCHWARZBECK	FMZB 1516	CQA-060	2020/10/21	2021/10/20
Horn Antenna	R&S	BBHA 9170	CQA-088	2020/9/25	2021/9/24
Horn Antenna	R&S	HF906	CQA-012	2020/9/26	2021/9/25
Bilog Antenna	R&S	HL562	CQA-011	2020/9/26	2021/9/25
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/25	2021/10/24
Preamplifier	MITEQ	AMF-6D- 02001800- 29-20P	CQA-036	2020/10/25	2021/10/24
Coaxial cable (1GHz~40GHz)	CQA	N/A	C007	2020/9/26	2021/9/25
Coaxial cable (9KHz~1GHz)	CQA	N/A	C013	2020/9/26	2021/9/25

	Manufacturer	Software brand
Radiated Emissions test software	Audix	e3
Conducted Emissions test software	Audix	e3

6 Test results and Measurement Data

6.1 Conducted Emissions

Test Requirement: 47 CFR Part 15B

Test Method: ANSI C63.4

Test frequency range: 150kHz to 30MHz

Limit:

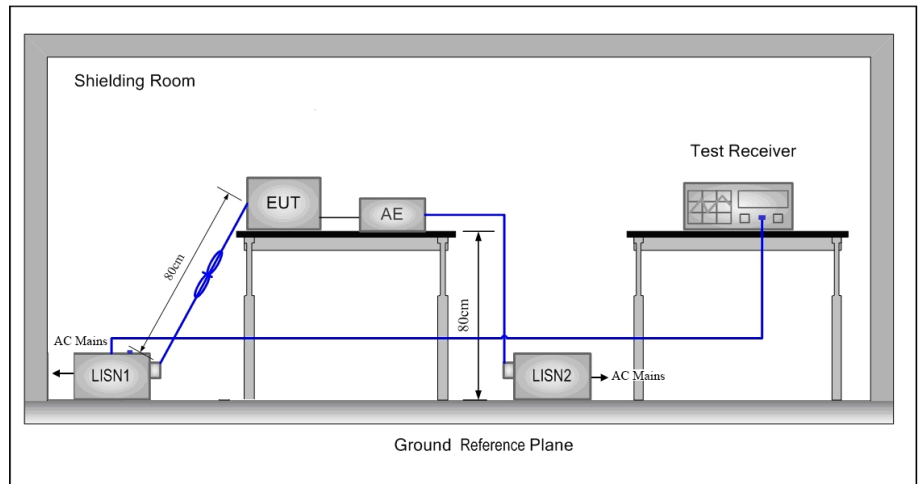
Frequency range (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Procedure:

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50 Ω /50 μ H + 5 Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.

Test Setup:



Instruments Used:

Refer to section 5 for details

Test Mode:

Normal working

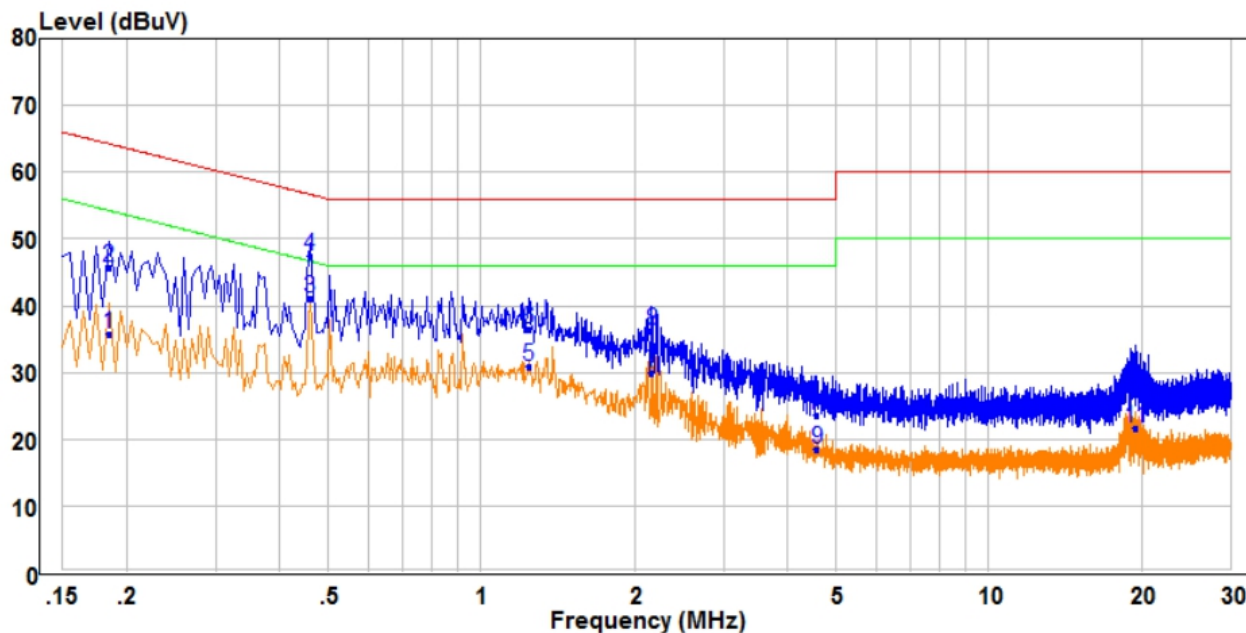
Test Results:

Pass

Measurement Data

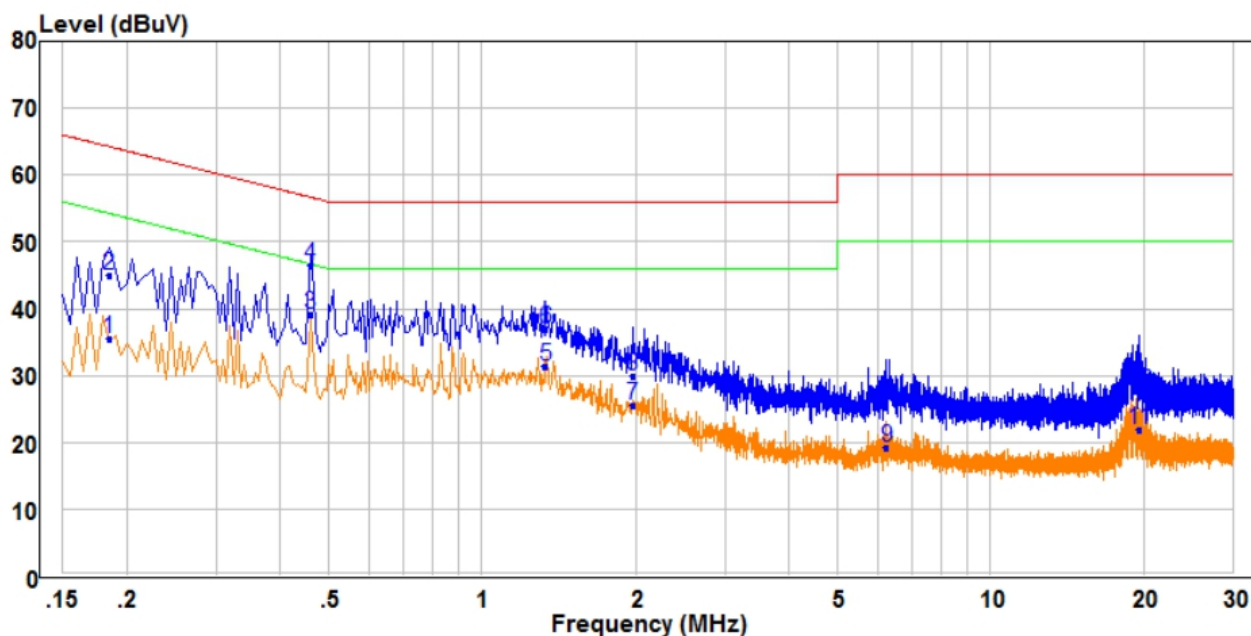
An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



	Freq	Read Level	Factor	Limit Level	Over Limit	Remark	Pol/Phase	
	MHz	dBuV	dB	dBuV	dB			
1	0.185	26.37	9.49	35.86	54.26	-18.40	Average	Line
2	0.185	36.27	9.49	45.76	64.26	-18.50	QP	Line
3	0.460	31.61	9.52	41.13	46.69	-5.56	Average	Line
4	0.460	37.85	9.52	47.37	56.69	-9.32	QP	Line
5	1.240	21.28	9.52	30.80	46.00	-15.20	Average	Line
6	1.240	26.86	9.52	36.38	56.00	-19.62	QP	Line
7	2.160	20.44	9.55	29.99	46.00	-16.01	Average	Line
8	2.160	26.63	9.55	36.18	56.00	-19.82	QP	Line
9	4.590	8.68	9.71	18.39	46.00	-27.61	Average	Line
10	4.590	13.87	9.71	23.58	56.00	-32.42	QP	Line
11	19.490	11.50	10.07	21.57	50.00	-28.43	Average	Line
12	19.490	17.01	10.07	27.08	60.00	-32.92	QP	Line

Neutral Line:



	Read	Limit	Over					
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase	
MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.185	26.07	9.48	35.55	54.26	-18.71	Average	Neutral
2	0.185	35.62	9.48	45.10	64.26	-19.16	QP	Neutral
3	PP	0.460	29.60	9.57	39.17	-7.52	Average	Neutral
4	QP	0.460	36.91	9.57	46.48	-10.21	QP	Neutral
5	1.330	21.62	9.72	31.34	46.00	-14.66	Average	Neutral
6	1.330	27.28	9.72	37.00	56.00	-19.00	QP	Neutral
7	1.975	15.88	9.72	25.60	46.00	-20.40	Average	Neutral
8	1.975	20.32	9.72	30.04	56.00	-25.96	QP	Neutral
9	6.230	9.48	9.80	19.28	50.00	-30.72	Average	Neutral
10	6.230	15.58	9.80	25.38	60.00	-34.62	QP	Neutral
11	19.590	11.87	10.05	21.92	50.00	-28.08	Average	Neutral
12	19.590	17.54	10.05	27.59	60.00	-32.41	QP	Neutral

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

6.2 Radiated Emission

Test Requirement: 47 CFR Part 15B

Test Method: ANSI C63.4

Test site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver setup:

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-peak Value

Limit:

Frequency	Limit (dB μ V/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value

Test Procedure:

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Setup:

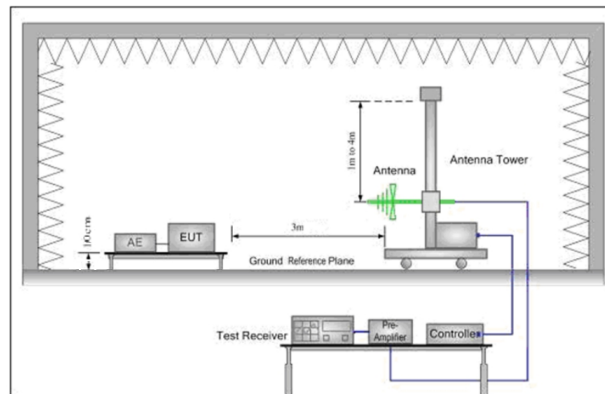


Figure 1. 30MHz to 1GHz

Instruments Used:

Refer to section 5 for details

Test Mode:

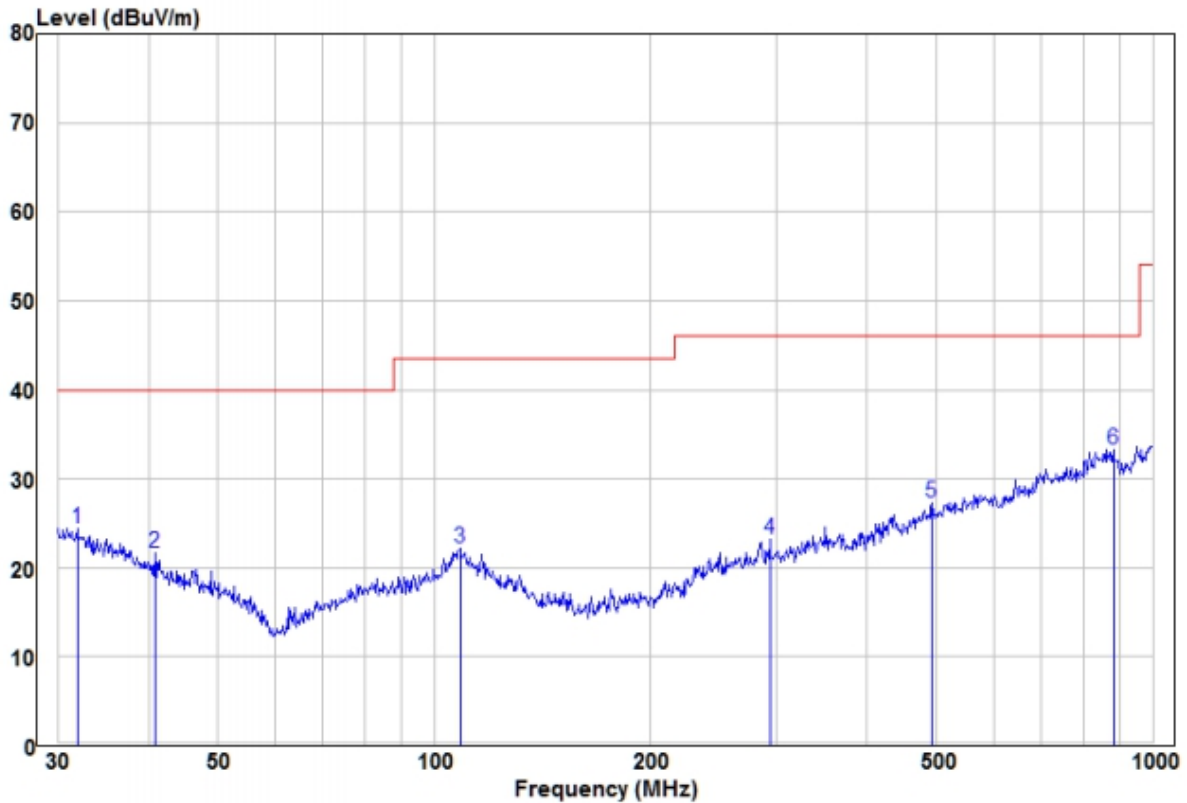
Normal working

Test Results:

Pass

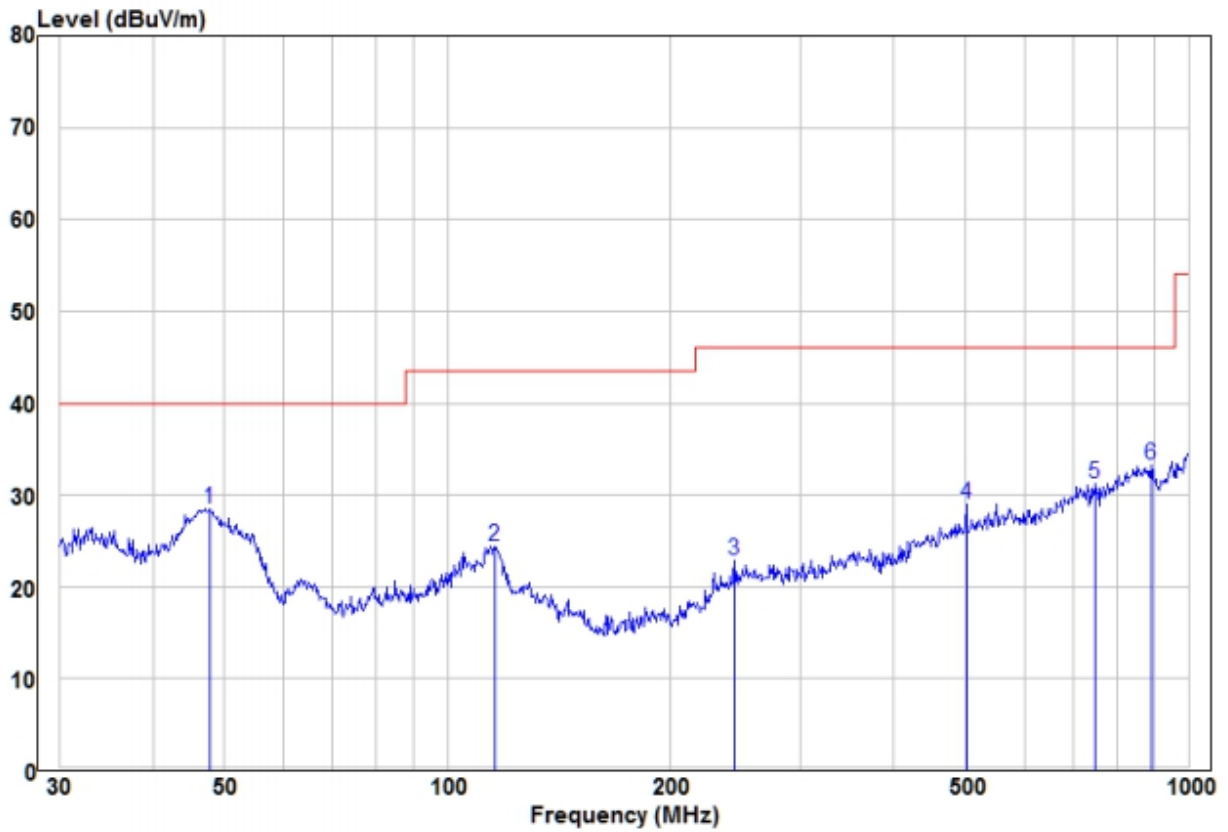
Below 1GHz

Horizontal



	Read Freq	Read Level	Read Factor	Limit Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	31.84	9.00	15.43	24.43	40.00	-15.57	Peak	HORIZONTAL
2	40.84	9.34	12.40	21.74	40.00	-18.26	Peak	HORIZONTAL
3	108.65	12.02	10.24	22.26	43.50	-21.24	Peak	HORIZONTAL
4	293.08	9.69	13.51	23.20	46.00	-22.80	Peak	HORIZONTAL
5	492.47	9.19	18.04	27.23	46.00	-18.77	Peak	HORIZONTAL
6 pp	881.41	9.34	23.92	33.26	46.00	-12.74	Peak	HORIZONTAL

Vertical



	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 pp	47.83	19.41	9.11	28.52	40.00	-11.48 Peak	VERTICAL
2	116.13	13.98	10.50	24.48	43.50	-19.02 Peak	VERTICAL
3	244.23	10.92	11.87	22.79	46.00	-23.21 Peak	VERTICAL
4	501.18	10.79	18.29	29.08	46.00	-16.92 Peak	VERTICAL
5	747.48	9.28	21.90	31.18	46.00	-14.82 Peak	VERTICAL
6	890.73	9.47	23.88	33.35	46.00	-12.65 Peak	VERTICAL

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Test Model No.: ISV-100W

Radiated emission Test Setup (30MHz~1GHz)



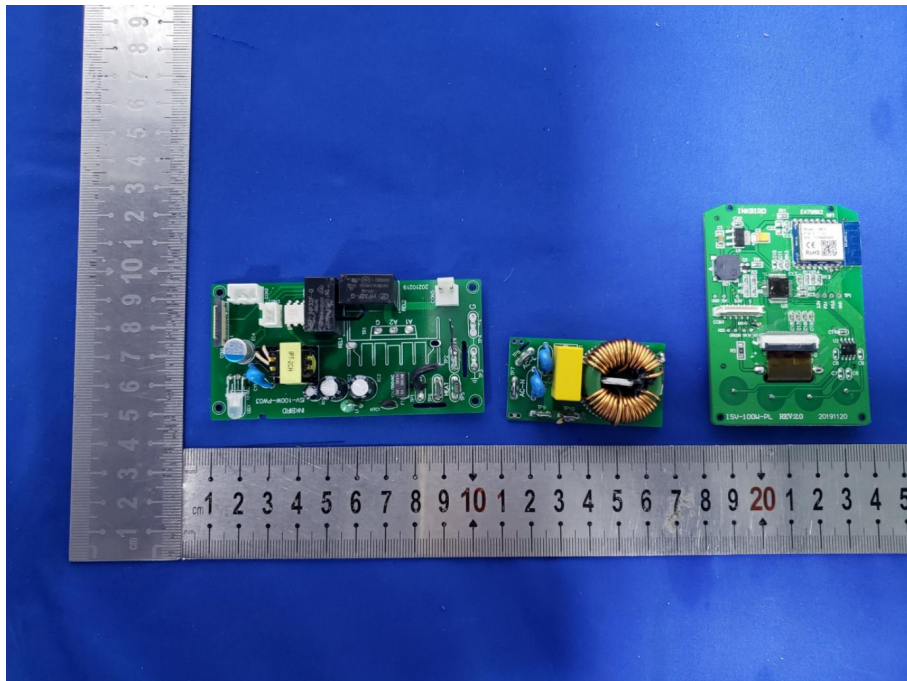
Conducted Emissions Test Setup

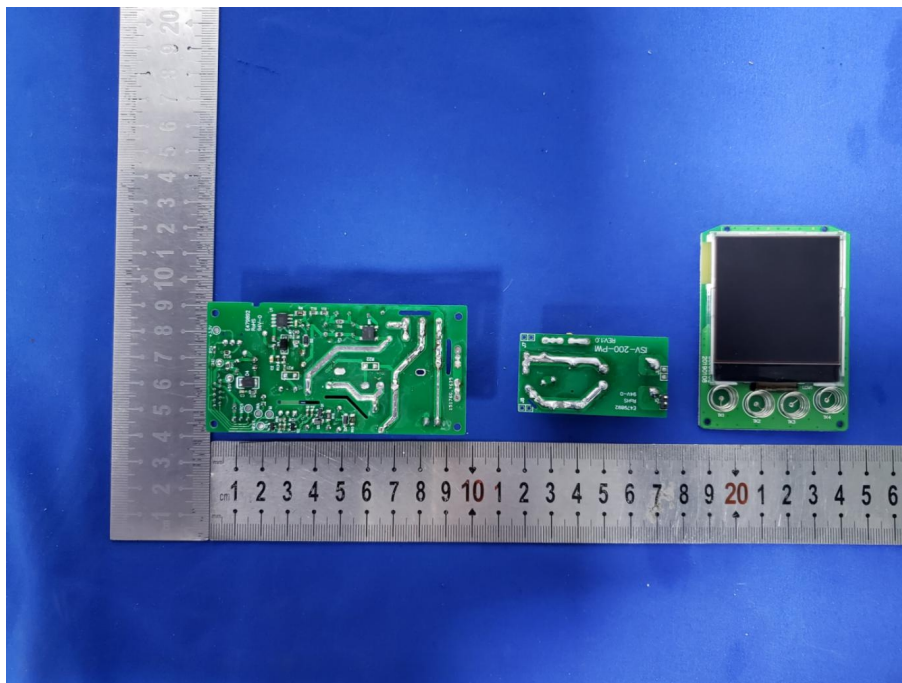


APPENDIX 2 PHOTOGRAPHS OF EUT

Test Model No.: ISV-100W







*** End of Report ***