SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

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FEDERAL COMMUNICATIONS COMMISSION
Accredited Registration number: 486818
Designation Number: CN5016
National Voluntary Laboratory Accreditation Program

FCC-Supplier's Declaration of Conformity(SDoC)

Verification No.: GZEM1905013301HSVR

This verification is for the following designated product

Product Description: Automatic Foam Soap Dispenser

Model No.: V-370

Trade Mark: SVAVO

(Product Identification)

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4 & 47 CFR PART 15 regulations for the evaluation of electromagnetic compatibility.

This Device complies with Part 15 of the FCC rules, operation is subject to the following two conditions.

(1) This device may not cause harmful interference and,
(2) This device must accept any interference received, including interference that may cause undesired operation.

Test Report Number(s): GZEM190501330102

FCC Verification Issued on: 2019-06-20

(Identification of regulations / standards)

This declaration is responsible by the manufacturer / importer

SHENZHEN SVAVO INTELLIGENT TECHNOLOGY CO.,LTD.

No.4 Factory, Xinwu Industrial Estate, Shabo Community, Maluan Street, Pingshan District, Shenzhen, China

Test Laboratory

This is the test result that was carried out based on the submitted samples of the product in conformity with the specification of the respective standards.

Kobe Jian
Lab Manager
2019-06-20

(Date)

This verification is only valid for the equipment and configuration described, in conjunction with the test data detailed above.

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TEST REPORT

Application No.:	GZEM1905013301HS
Applicant:	SHENZHEN SVAVO INTELLIGENT TECHNOLOGY CO.,LTD.
Address of Applicant:	No.4 Factory, Xinwu Industrial Estate, Shabo Community, Maluan Street, Pingshan District, Shenzhen, China
Manufacturer:	SHENZHEN SVAVO INTELLIGENT TECHNOLOGY CO.,LTD.
Address of Manufacturer:	No.4 Factory, Xinwu Industrial Estate, Shabo Community, Maluan Street, Pingshan District, Shenzhen, China
Factory:	SHENZHEN SVAVO INTELLIGENT TECHNOLOGY CO.,LTD.
Address of Factory:	No.4 Factory, Xinwu Industrial Estate, Shabo Community, Maluan Street, Pingshan District, Shenzhen, China
Equipment Under Test (EUT):	
EUT Name:	Automatic Foam Soap Dispenser
Model No.:	V-370
Trade Mark:	SVAVO
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2019-06-03
Date of Test:	2019-06-05
Date of Issue:	2019-06-20
Test Result:	**Pass***

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

This report GZEM190501330102 supersedes the previous report GZEM190501330101, issued on 2019-06-12 which is hereby deemed null and void.

Kobe Jian
Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2019-06-12		Original(Null)
02		2019-06-20		Amendment report: Revised product description.

Authorized for issue by:				
Tested By		Michael Huang **Michael_Huang /Project Engineer**		2019-06-05 **Date**
Checked By		Terry Lai **Terry_Lai /Reviewer**		2019-06-20 **Date**

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

This report GZEM190501330102 supersedes the previous report GZEM190501330101, only revised product description as per applicant request.

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4 General Information

4.1 Details of E.U.T.

Power Supply: DC 6V = 4 X DC 1.5V"AAA" batteries
Test Voltage: DC 6V
Cable: N/A

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Use the washing water as load.	/	/	/

4.3 Measurement Uncertainty

EMC

No.	Item	Measurement Uncertainty
1	Conducted Disturbance Voltage at Mains Terminals	±3.63dB (9kHz to 150kHz)
		±3.22dB (150kHz to 30MHz)
2	Disturbance Power	±3.78dB
3	Radiated Emissions	±5.0dB (30MHz-1GHz)
		±5.0dB (1GHz-6GHz)
4	Temperature	±0.4°C
5	Humidity	±1.3%
6	DC power	±0.5 %

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

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4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

- **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584，G-10449 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

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4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-11	2020-01-10
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18

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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	10m
Limit:	
30MHz -88MHz	29.5(dBμV/m) quasi-peak
88MHz-216MHz	33.1(dBμV/m) quasi-peak
216MHz-960MHz	35.6(dBμV/m) quasi-peak
960MHz-1000MHz	43.5(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

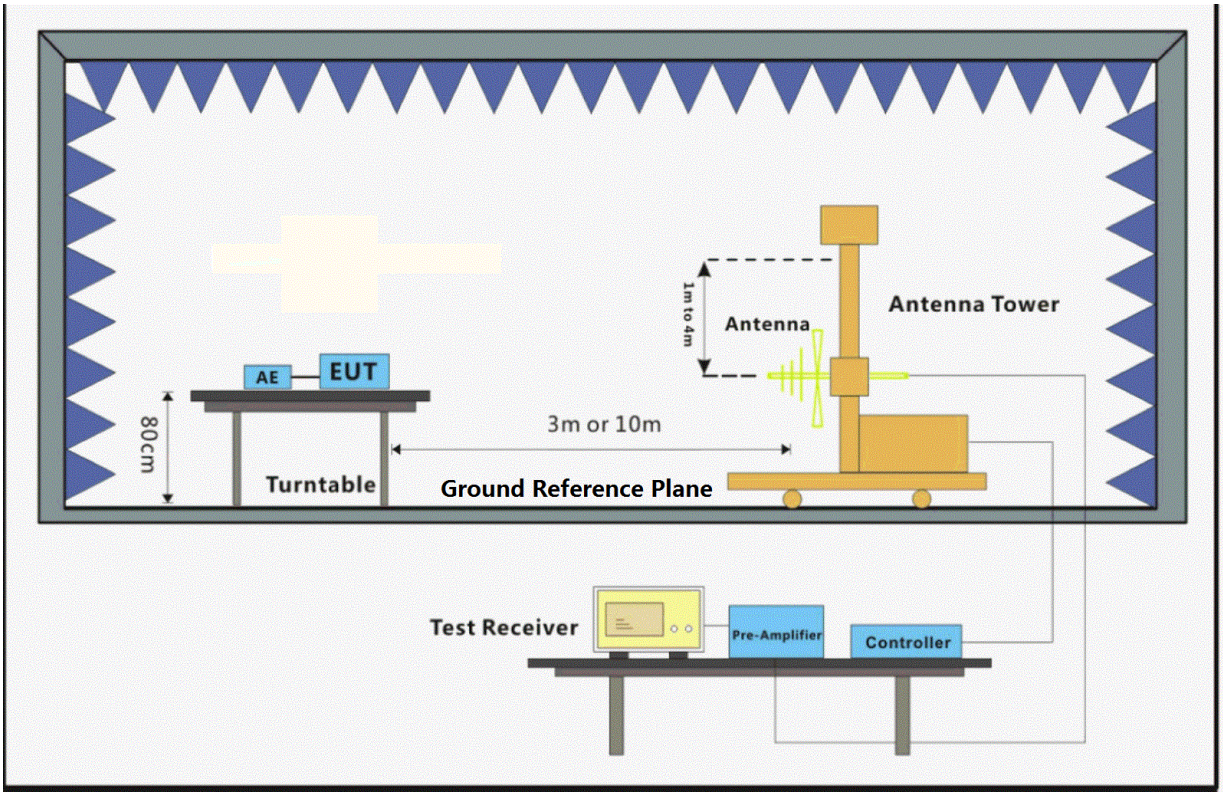
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Test the EUT in ON mode with motor running.

6.1.2 Test Setup Diagram



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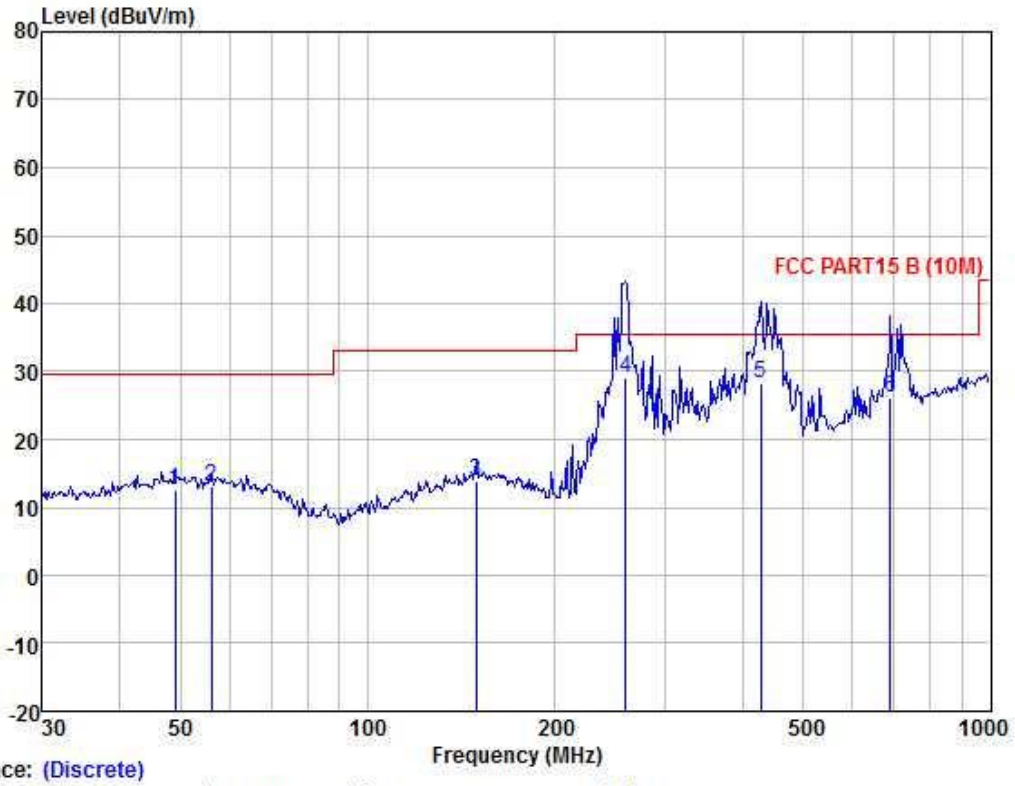
6.1.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Mode:a; Polarization:Horizontal



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	49.014	24.49	13.94	0.70	26.50	12.63	29.50	-16.87	HORIZONTAL	QP
2	56.001	24.95	13.73	0.80	26.49	12.99	29.50	-16.51	HORIZONTAL	QP
3	148.963	25.94	13.02	1.30	26.43	13.83	33.10	-19.27	HORIZONTAL	QP
4	259.234	41.99	12.09	1.68	26.60	29.16	35.60	-6.44	HORIZONTAL	QP
5	428.019	37.49	15.89	2.30	27.39	28.29	35.60	-7.31	HORIZONTAL	QP
6	689.565	29.93	20.73	2.80	27.33	26.13	35.60	-9.47	HORIZONTAL	QP

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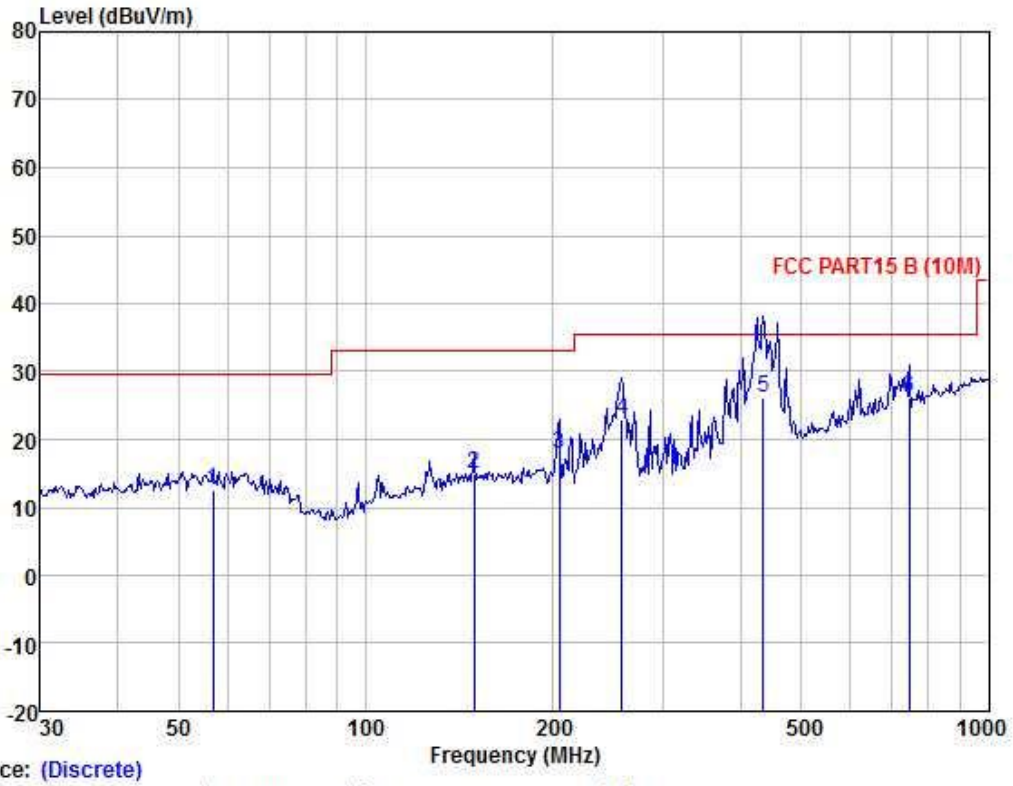
Mode:a; Polarization:Vertical



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	56.792	24.40	13.69	0.80	26.49	12.40	29.50	-17.10	VERTICAL	QP
2	148.963	27.15	13.02	1.30	26.43	15.04	33.10	-18.06	VERTICAL	QP
3	204.238	32.67	10.08	1.51	26.46	17.80	33.10	-15.30	VERTICAL	QP
4	257.422	35.85	12.05	1.67	26.59	22.98	35.60	-12.62	VERTICAL	QP
5	434.065	35.23	16.04	2.30	27.40	26.17	35.60	-9.43	VERTICAL	QP
6	744.866	28.94	21.48	2.90	27.30	26.02	35.60	-9.58	VERTICAL	QP

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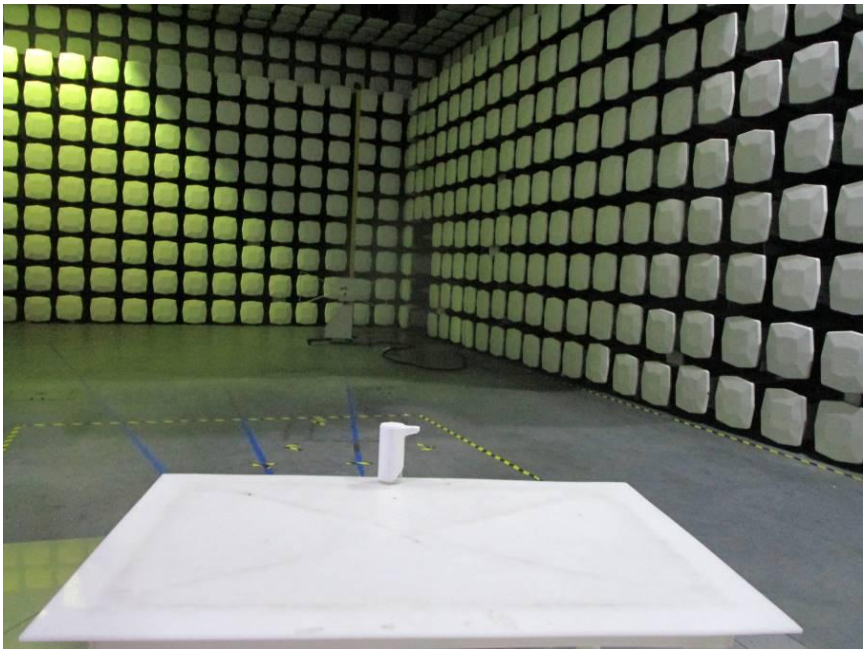
7 Photographs

7.1 Radiated Emissions (30MHz-1GHz) Test Setup



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7.2 EUT Constructional Details

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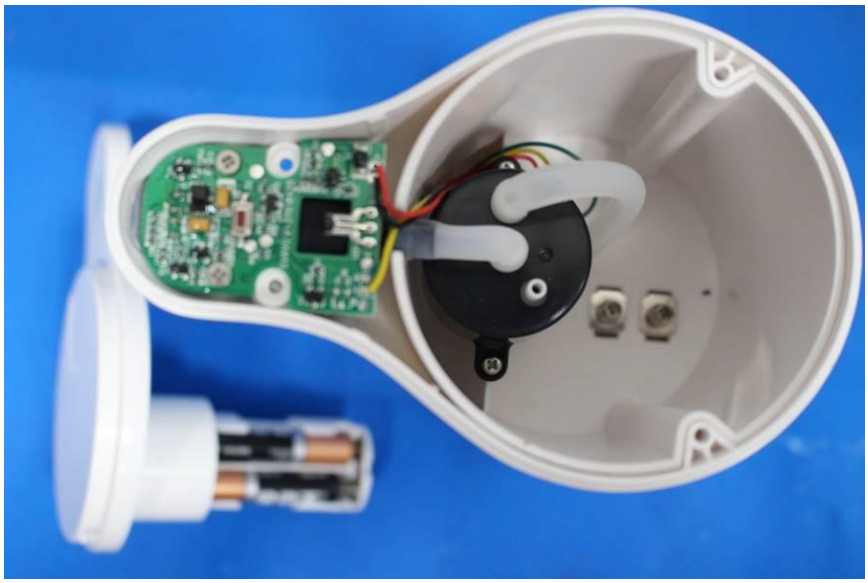

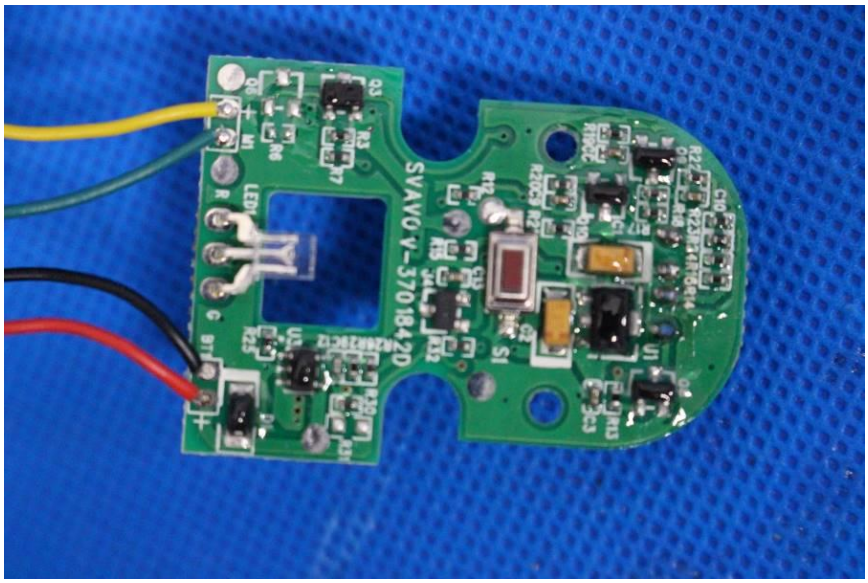

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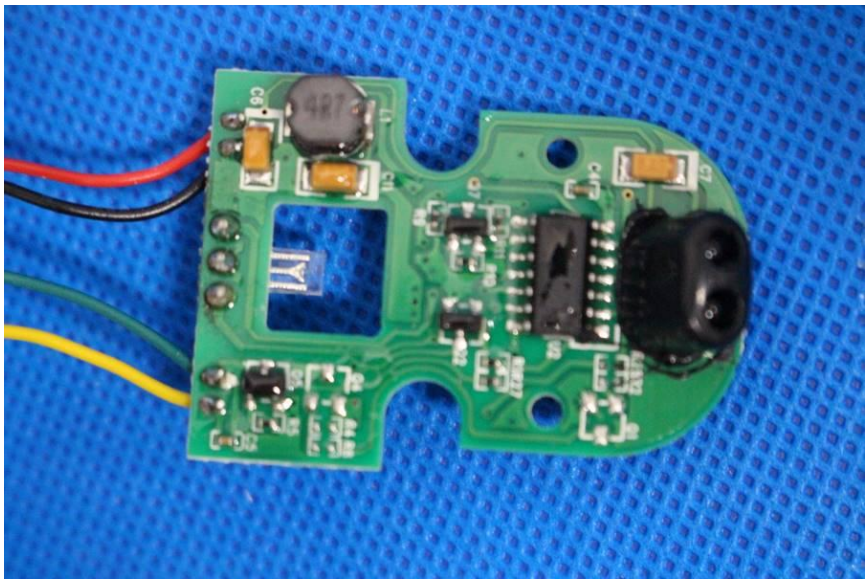

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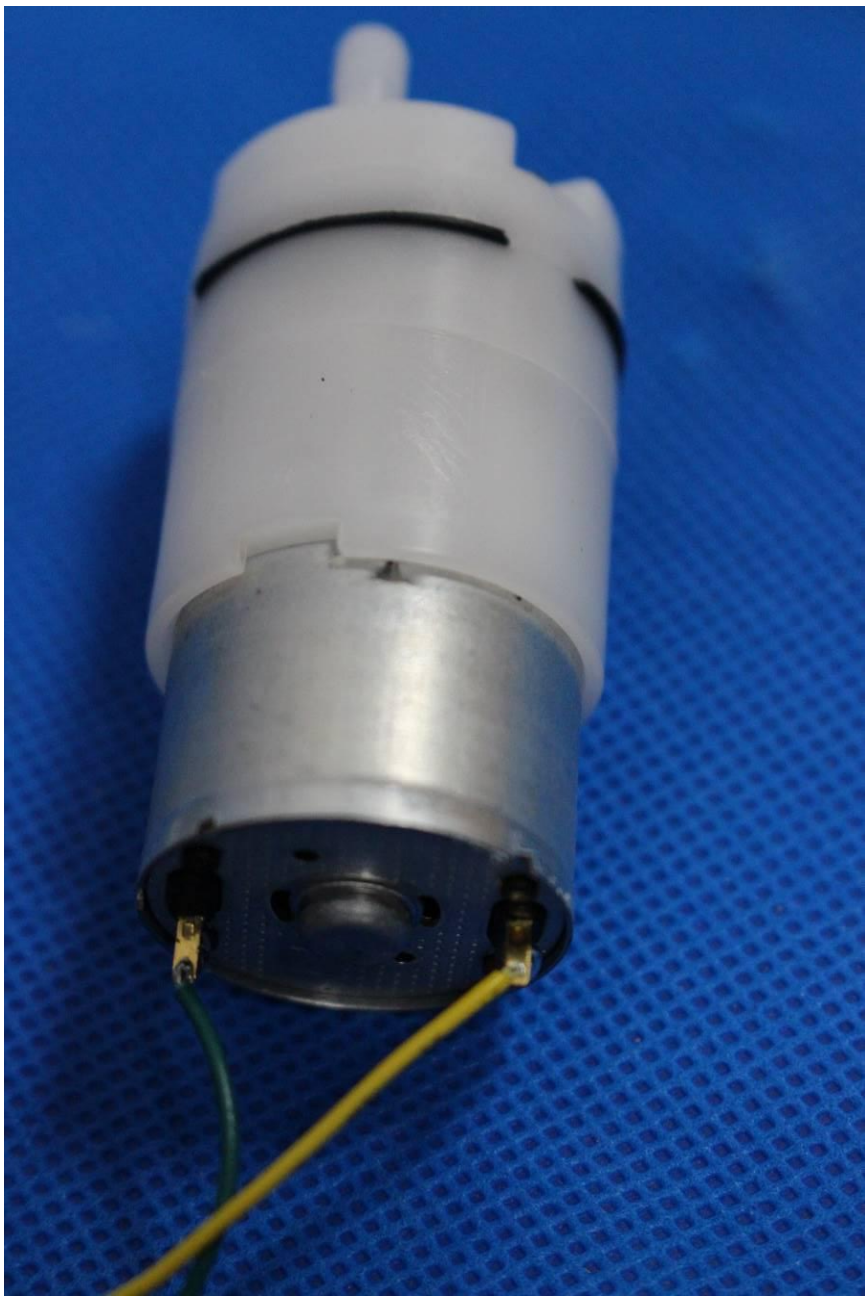

--End of Report--

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