



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

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Report No.: GZEM170200087001  
Page: 1 of 17  
FCC ID: TAPMC-STW1521A

# TEST REPORT

**Application No.:** GZEM1702000870HS  
**Applicant:** Guangdong Midea Consumer Electric Manufacturing Co., Ltd  
**Address of Applicant:** 19 Sanle Road, Beijiao, Shunde, Foshan, Guangdong  
**Manufacturer:** Same as the applicant  
**Address of Manufacturer:** Same as the applicant  
**Factory:** Same as the applicant  
**Address of Factory:** Same as the applicant  
**FCC ID:** TAPMC-STW1521A

### Equipment Under Test (EUT):

**EUT Name:** Induction cooker  
**Model No.:** MC-STW1521  
**Standards:** 47 CFR PART 18:2016  
**Date of Receipt:** 2017-02-24  
**Date of Test:** 2017-03-06 to 2017-03-08  
**Date of Issue:** 2017-04-20

|                      |              |
|----------------------|--------------|
| <b>Test Result :</b> | <b>Pass*</b> |
|----------------------|--------------|

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



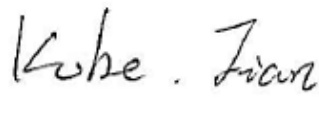
Kobe Jian  
EMC Laboratory Manager

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.

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. All test results in this report can be traceable to National or International Standards.

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 00              |         | 2017-04-20 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |                                                                                                                     |                                  |  |
|--------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------|--|
| Authorized for issue by: |                                                                                                                     |                                  |  |
| Tested By                | <br>Allen_Zhou /Project Engineer | 2017-03-06 to 2017-03-08<br>Date |  |
| Checked By               | <br>Kobe_Jian /Reviewer          | 2017-03-14<br>Date               |  |

## 2 Test Summary

| Emission Part                                               |                      |                   |             |        |
|-------------------------------------------------------------|----------------------|-------------------|-------------|--------|
| Item                                                        | Standard             | Method            | Requirement | Result |
| Conducted Disturbance at Mains Terminals (9KHz-30MHz)       | 47 CFR Part 18: 2016 | FCC OST/MP-5:1986 | 18.307(a)   | Pass   |
| Radiated Disturbance (Magnetic field Strength) (9KHz-30MHz) | 47 CFR Part 18: 2016 | FCC OST/MP-5:1986 | 18.305(b)   | Pass   |

N/A: Not applicable

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## 4 General Information

### 4.1 Details of E.U.T.

Power Supply: AC 120V,60Hz  
 Cable: 2 wires about 1.5m unscreened AC mains cable

### 4.2 Description of Support Units

The EUT has been tested with water and ceramic enamel pot supplied by SGS.

### 4.3 Measurement Uncertainty

| No. | Item                             | Measurement Uncertainty |
|-----|----------------------------------|-------------------------|
| 1   | Conduction Emission              | 3.45dB (9kHz to 150kHz) |
|     |                                  | 3.0dB (150kHz to 30MHz) |
| 2   | Radiated Power                   | 3.64dB                  |
| 3   | Radiated Emission                | 4.5dB (30MHz-1GHz )     |
|     |                                  | 4.8dB (1GHz-6GHz )      |
| 4   | Radiated Immunity                | 1.64dB                  |
| 5   | Conducted Immunity               | 0.96dB                  |
| 6   | ESD                              | 6 %                     |
| 7   | EFT (Electrical Fast Transients) | 5 %                     |
| 8   | Surge Immunity                   | 5 %                     |
| 9   | Voltage Dips and Interruptions   | 4 %                     |
| 10  | 20 System                        | 1.5dB                   |
| 11  | Temperature Test                 | 1 °C                    |
| 12  | Humidity Test                    | 3%                      |
| 13  | DC power Test                    | 0.5 %                   |

#### 4.4 Standards Applicable for Testing

**Table 1 : Tests Carried Out Under 47 CFR Part 18: 2015**

| Item                                                          | Status |
|---------------------------------------------------------------|--------|
| Conducted Disturbance at Mains Terminals (9KHz-30MHz)         | √      |
| Conducted Disturbance at Mains Terminals (150KHz-30MHz)       | ×      |
| Radiated Disturbance (30MHz-1GHz)                             | ×      |
| Radiated Disturbance (Magnetic field Strength) (9KHz-30MHz)   | √      |
| Radiated Disturbance (Magnetic field Strength) (150KHz-30MHz) | ×      |
| Conducted Disturbance at Mains Terminals (450KHz-30MHz)       | ×      |

× Indicates that the test is not applicable  
 √ Indicates that the test is applicable

#### 4.5 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

## 4.6 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 (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.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

- **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

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-2460, C-2584, G-449 and T-1179 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.

## 4.7 Deviation from Standards

None

## 4.8 Abnormalities from Standard Conditions

None

## 5 Equipment List

| <b>Conducted Disturbance at Mains Terminals (9KHz-30MHz)</b> |                     |                            |                     |                 |                     |
|--------------------------------------------------------------|---------------------|----------------------------|---------------------|-----------------|---------------------|
| <b>Equipment</b>                                             | <b>Manufacturer</b> | <b>Model No</b>            | <b>Inventory No</b> | <b>Cal Date</b> | <b>Cal Due Date</b> |
| Shielding Room                                               | Zhong Yu            | 8 x 3 x 3.8 m <sup>3</sup> | EMC0306             | N/A             | N/A                 |
| Two-line v-network                                           | R&S                 | ENV216                     | EMC0118             | 2017-01-20      | 2018-01-19          |
| LISN                                                         | SCHAFFNER CHASE     | MN2050D/1                  | EMC0102             | 2016-09-22      | 2017-09-21          |
| EMI Test Receiver                                            | Rohde & Schwarz     | ESCS30                     | EMC0506             | 2016-12-02      | 2017-12-01          |
| Coaxial Cable                                                | SGS                 | 2m                         | EMC0107             | 2016-07-24      | 2018-07-23          |
| Voltage Probe                                                | SGS                 | N/A                        | EMC0106             | 2016-04-05      | 2018-04-04          |
| Conical metal housing                                        | SGS-EMC             | N/A                        | EMC0167             | 2016-04-19      | 2018-04-18          |

| <b>Radiated Disturbance (Magnetic field Strength) (9KHz-30MHz)</b> |                             |                 |                     |                 |                     |
|--------------------------------------------------------------------|-----------------------------|-----------------|---------------------|-----------------|---------------------|
| <b>Equipment</b>                                                   | <b>Manufacturer</b>         | <b>Model No</b> | <b>Inventory No</b> | <b>Cal Date</b> | <b>Cal Due Date</b> |
| EMI Test Receiver                                                  | Rohde & Schwarz             | ESIB26          | EMC0522             | 2017-01-20      | 2018-01-19          |
| EMI Test Receiver                                                  | Rohde & Schwarz             | ESCI            | EMC0056             | 2017-01-20      | 2018-01-19          |
| RI High frequency Cable                                            | SGS                         | 20 m            | EMC0528             | 2016-04-19      | 2018-04-18          |
| Trilog Broadband Antenna 30-1000MHz                                | SCHWARZBECK MESS-ELEKTRONIK | VULB 9160       | EMC2025             | 2016-09-08      | 2019-09-07          |
| Bi-log Type Antenna                                                | Schaffner -Chase            | CBL6112B        | EMC0524             | 2016-09-08      | 2019-09-07          |
| Bilog Type Antenna                                                 | Schaffner -Chase            | CBL6143         | EMC0519             | 2014-05-04      | 2017-05-03          |
| Horn Antenna 1-18GHz                                               | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D      | EMC2026             | 2016-09-09      | 2019-09-08          |
| 1-26.5 GHz Pre-Amplifier                                           | Agilent                     | 8449B           | EMC0521             | 2017-01-20      | 2018-01-19          |
| Amplifier                                                          | HP                          | 8447F           | EMC2065             | 2016-07-04      | 2017-07-03          |
| PRE AMPLIFIER MH648A                                               | ANRITSU CORP                | MH648A          | EMC2086             | 2016-12-02      | 2017-12-01          |
| Active Loop Antenna                                                | EMCO                        | 6502            | EMC0523             | 2016-02-27      | 2018-02-26          |
| Broad-Band Horn Antenna (14)15-26.5(40)GHz                         | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9170       | EMC2041             | 2014-05-26      | 2017-05-25          |
| High Pass Filter(915MHz)                                           | FSY MICROWAVE               | HM1465-9SS      | EMC2079             | 2017-01-20      | 2018-01-19          |
| 2.4GHz filter                                                      | Micro-Tronics               | BRM 50702       | EMC2069             | 2017-01-20      | 2018-01-19          |
| 10m Semi-Anechoic Chamber                                          | ETS                         | N/A             | EMC0530             | 2016-04-30      | 2018-04-29          |



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

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| General used equipment |              |          |              |            |              |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment              | Manufacturer | Model No | Inventory No | Cal Date   | Cal Due Date |
| DMM                    | Fluke        | 73       | EMC0006      | 2016-09-01 | 2017-08-31   |
| DMM                    | Fluke        | 73       | EMC0007      | 2016-09-01 | 2017-08-31   |

## 6 Emission Test Results

### 6.1 Conducted Disturbance at Mains Terminals (9KHz-30MHz)

|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:  | 47 CFR Part 18: 2016                                                                                                                 |
| Test Method:       | FCC OST/MP-5:1986                                                                                                                    |
| Frequency Range:   | 9kHz to 30MHz                                                                                                                        |
| Limit:             |                                                                                                                                      |
| 0.009MHz – 0.05MHz | 110dB(μV) quasi-peak                                                                                                                 |
| 0.05MHz – 0.15MHz  | 90dB(μV)-80dB(μV) quasi-peak                                                                                                         |
| 0.15MHz – 0.5MHz   | 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average                                                                              |
| 0.5MHz – 5MHz      | 56dB(μV) quasi-peak, 46dB(μV) average                                                                                                |
| 5MHz – 30MHz       | 60dB(μV) quasi-peak, 50dB(μV) average                                                                                                |
| Detector:          | Peak for pre-scan (200Hz resolution bandwidth) 0.009MHz to 0.15MHz<br>Peak for pre-scan (9KHz resolution bandwidth) 0.15MHz to 30MHz |

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 53 % RH Atmospheric Pressure: 1011 mbar

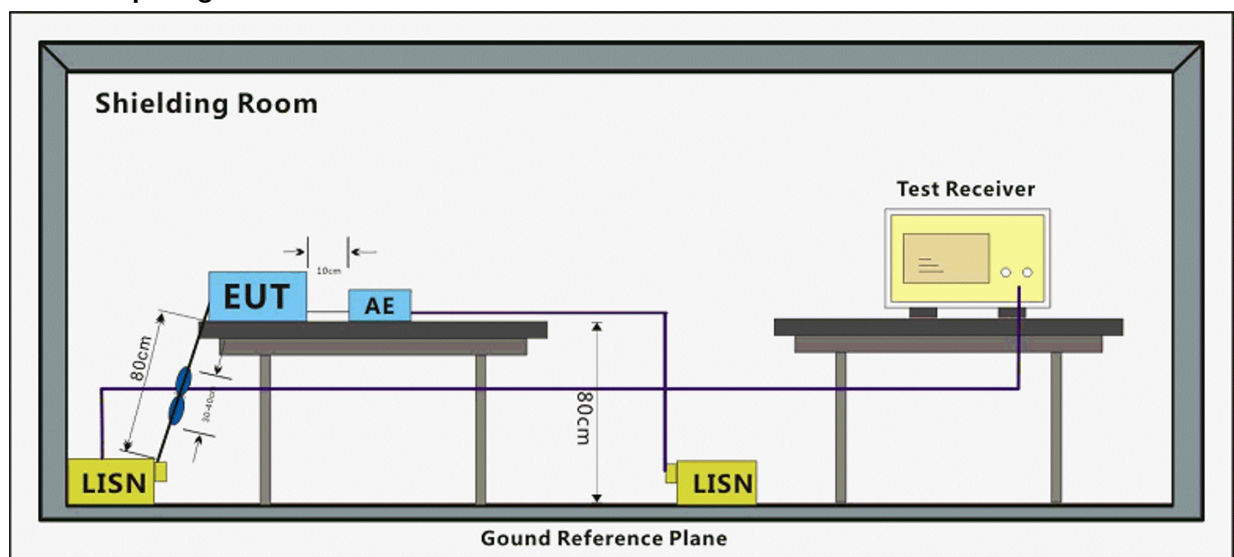
a:heating mode at maximum power.

Pretest these mode to find the worst case: b:heating mode at middle power.

c:heating mode at minimum power.

The worst case for final test: a:heating mode at maximum power.

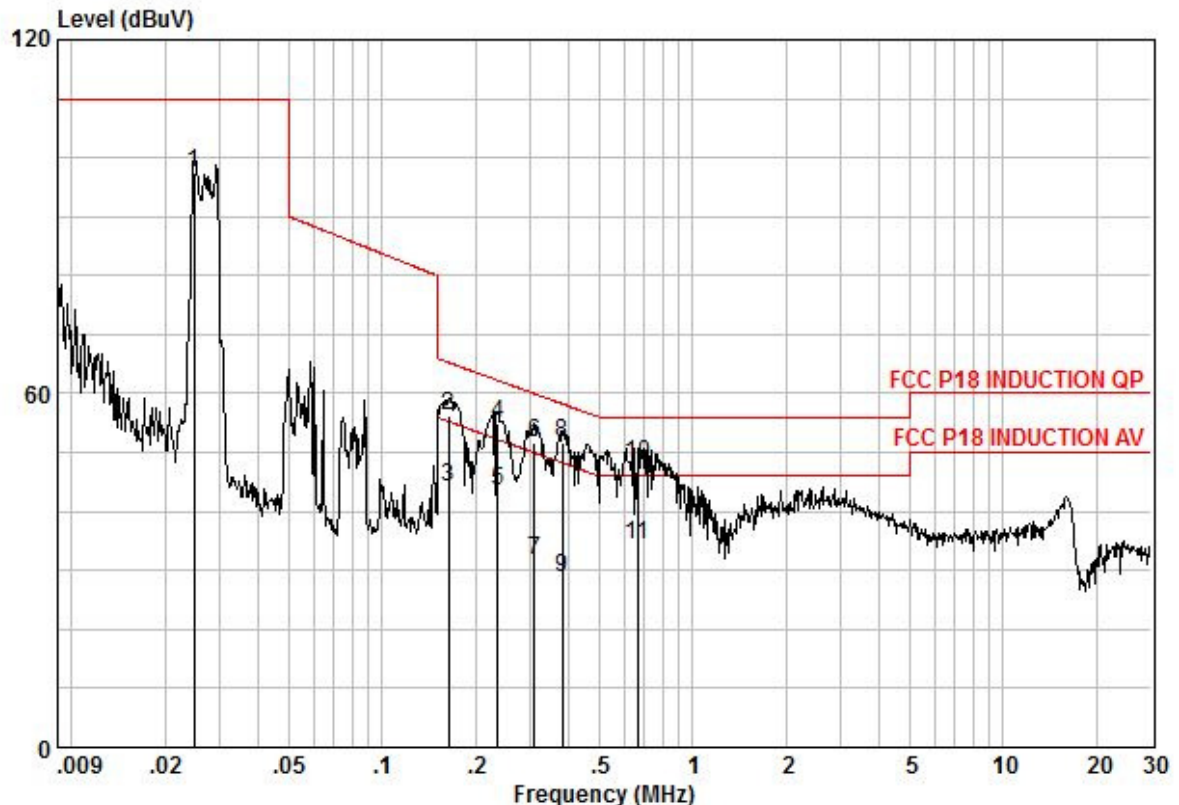
#### 6.1.2 Test Setup Diagram



### 6.1.3 Measurement Data

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.

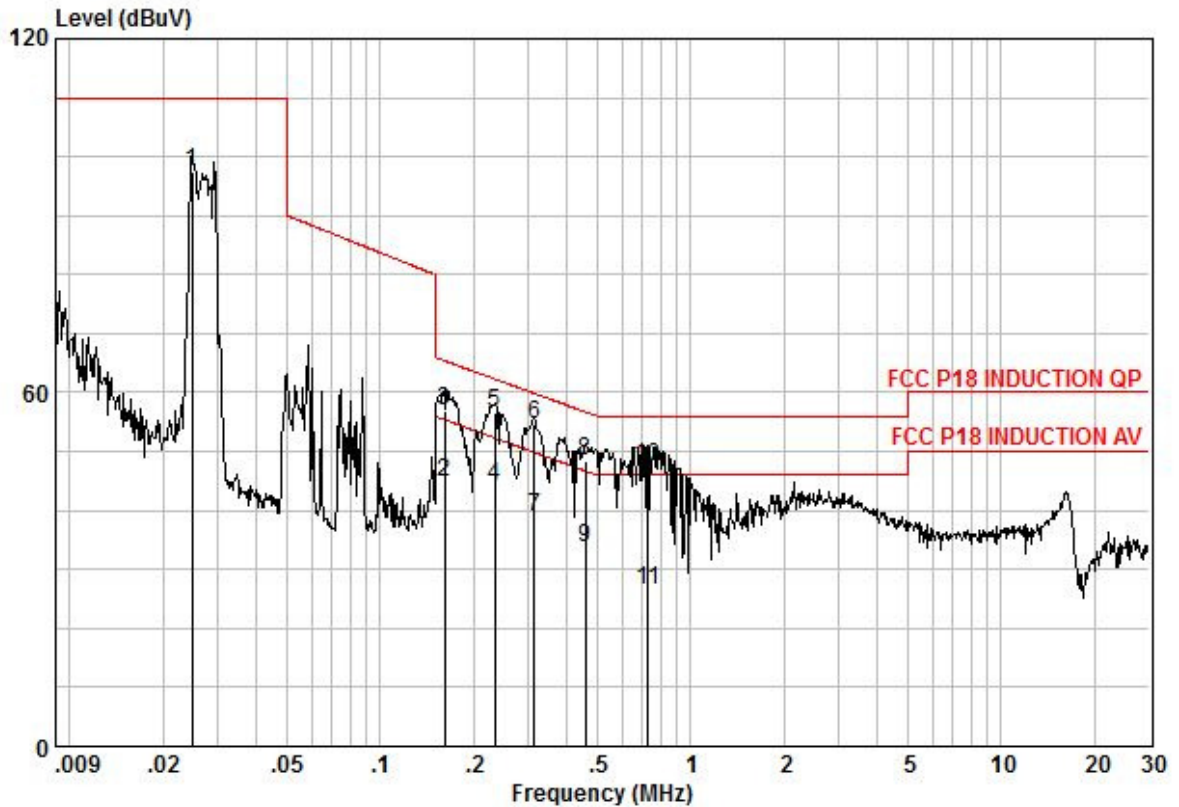
Mode:a; Line:Live Line



Phase : LINE  
 No :  
 Model : STW1521

| Frequency<br>MHz | read<br>level<br>dBuV | Cable<br>Loss<br>dB | LISN<br>Factor<br>dB | Measured<br>level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>limit<br>dB | Remark  |
|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.02             | 87.49                 | 0.10                | 9.91                 | 97.50                     | 110.00                | -12.50              | QP      |
| 0.16             | 46.36                 | 0.10                | 9.69                 | 56.15                     | 65.25                 | -9.10               | QP      |
| 0.16             | 34.31                 | 0.10                | 9.69                 | 44.10                     | 55.25                 | -11.15              | AVERAGE |
| 0.24             | 45.08                 | 0.12                | 9.70                 | 54.89                     | 62.26                 | -7.36               | QP      |
| 0.24             | 33.82                 | 0.12                | 9.70                 | 43.63                     | 52.26                 | -8.62               | AVERAGE |
| 0.31             | 41.80                 | 0.15                | 9.69                 | 51.64                     | 59.99                 | -8.36               | QP      |
| 0.31             | 21.98                 | 0.15                | 9.69                 | 31.82                     | 49.99                 | -18.18              | AVERAGE |
| 0.38             | 41.87                 | 0.17                | 9.70                 | 51.74                     | 58.24                 | -6.50               | QP      |
| 0.38             | 18.95                 | 0.17                | 9.70                 | 28.82                     | 48.24                 | -19.42              | AVERAGE |
| 0.66             | 38.07                 | 0.24                | 9.70                 | 48.01                     | 56.00                 | -7.99               | QP      |
| 0.66             | 24.37                 | 0.24                | 9.70                 | 34.31                     | 46.00                 | -11.69              | AVERAGE |

Mode:a; Line:Neutral Line



Phase : NEUTRAL  
 No :  
 Model : STW1521

| Frequency<br>MHz | read<br>level<br>dBuV | Cable<br>Loss<br>dB | LISN<br>Factor<br>dB | Measured<br>level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>limit<br>dB | Remark  |
|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.02             | 87.62                 | 0.10                | 9.78                 | 97.50                     | 110.00                | -12.50              | QP      |
| 0.16             | 35.11                 | 0.10                | 9.55                 | 44.76                     | 55.38                 | -10.62              | AVERAGE |
| 0.16             | 47.38                 | 0.10                | 9.55                 | 57.03                     | 65.38                 | -8.35               | QP      |
| 0.23             | 34.40                 | 0.12                | 9.56                 | 44.07                     | 52.30                 | -8.23               | AVERAGE |
| 0.23             | 46.81                 | 0.12                | 9.56                 | 56.48                     | 62.30                 | -5.82               | QP      |
| 0.31             | 44.92                 | 0.15                | 9.55                 | 54.62                     | 59.86                 | -5.23               | QP      |
| 0.31             | 29.15                 | 0.15                | 9.55                 | 38.85                     | 49.86                 | -11.00              | AVERAGE |
| 0.46             | 38.74                 | 0.19                | 9.55                 | 48.48                     | 56.69                 | -8.21               | QP      |
| 0.46             | 23.92                 | 0.19                | 9.55                 | 33.66                     | 46.69                 | -13.03              | AVERAGE |
| 0.73             | 37.71                 | 0.25                | 9.55                 | 47.51                     | 56.00                 | -8.49               | QP      |
| 0.73             | 16.73                 | 0.25                | 9.55                 | 26.53                     | 46.00                 | -19.47              | AVERAGE |

## 6.2 Radiated Disturbance (Magnetic field Strength) (9KHz-30MHz)

Test Requirement: 47 CFR Part 18: 2015  
 Test Method: FCC OST/MP-5:1986  
 Frequency Range: 9kHz to 30MHz  
 Measurement Distance: 10m  
 Limit:

| Equipment                      | Operating frequency      | RF Power generated by equipment (watts) | Field strength limit (uV/m) | Distance (meters) |
|--------------------------------|--------------------------|-----------------------------------------|-----------------------------|-------------------|
| Induction cooking ranges ..... | Below 90 kHz .....       | Any .....                               | 1,500 .....                 | 430               |
|                                | On or above 90 kHz ..... | Any .....                               | 300 .....                   | 430               |

For Induction cooking ranges and the operating frequency is below 90 kHz, the field strength limit is 1,500  $\mu\text{V/m}@30\text{m}$ ,  
 i.e.  $20\lg(1500)+20\lg(30/10)=63.52+9.54=73.06\text{dBuV/m} @ 10\text{m distance}$ .

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 55 % RH Atmospheric Pressure: 1011 mbar

a:heating mode at maximum power.

Pretest these mode to find the worst case: b:heating mode at middle power.

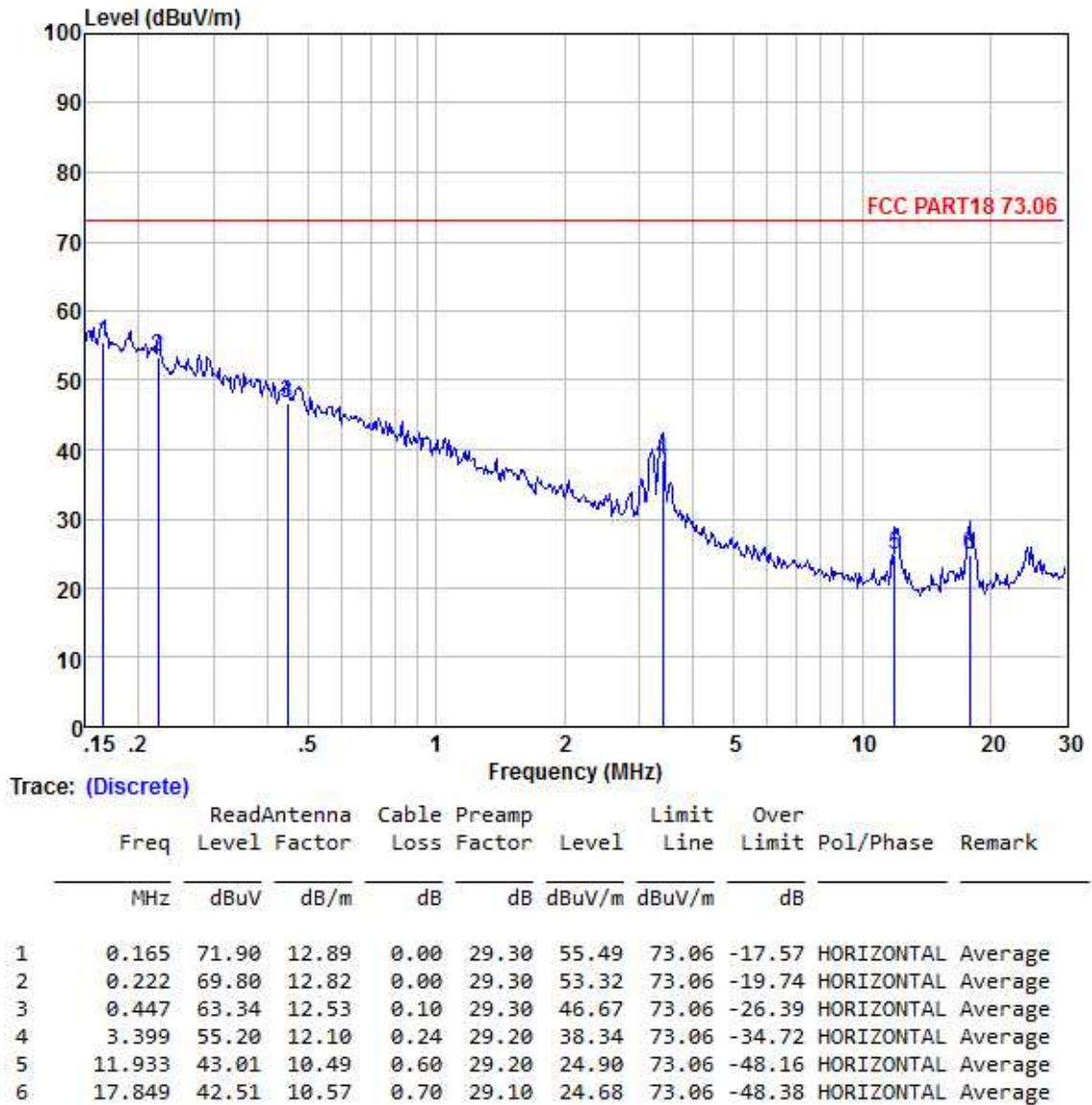
c:heating mode at minimum power.

The worst case for final test: a:heating mode at maximum power.

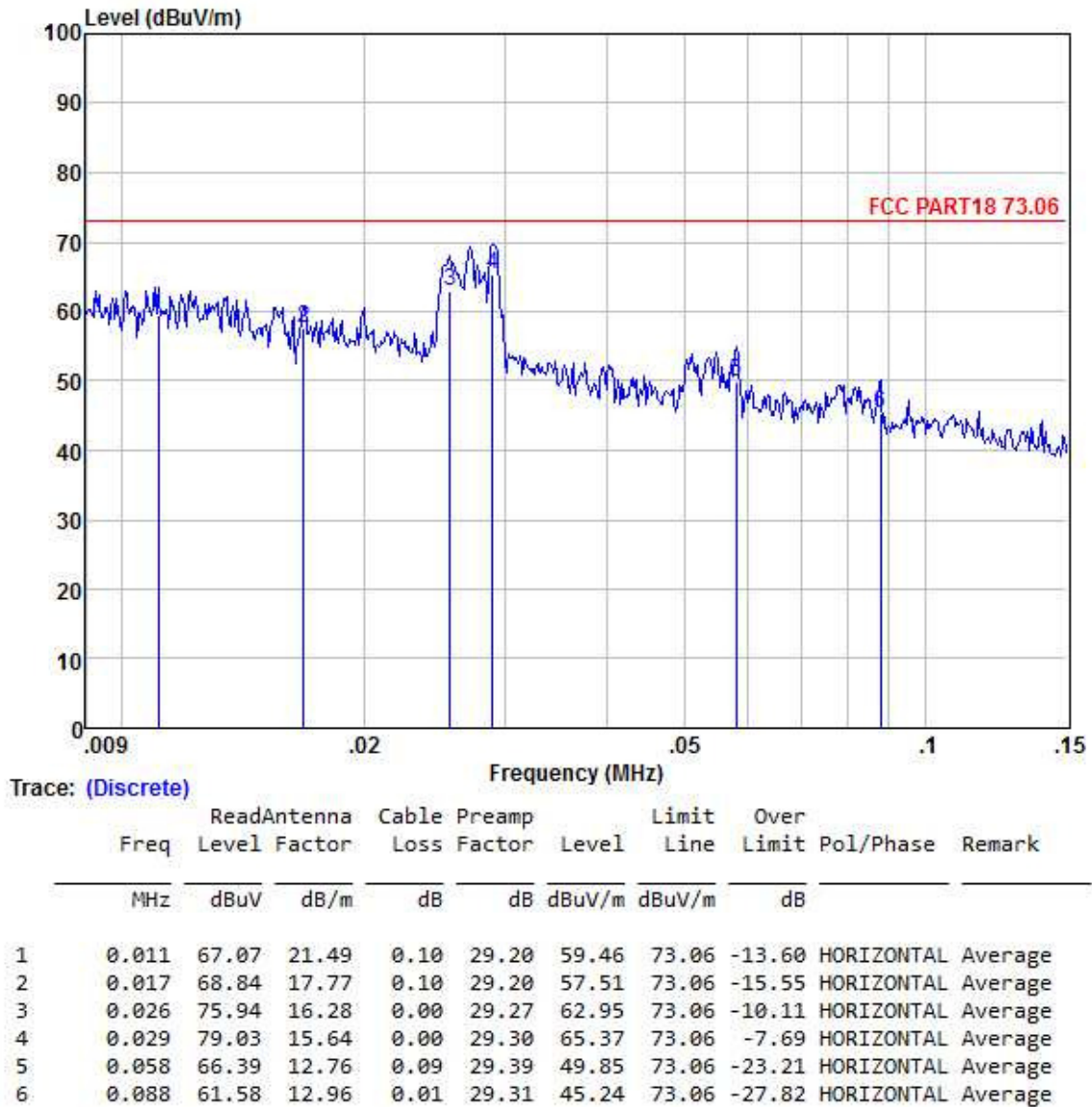
### 6.2.2 Measurement Data

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.

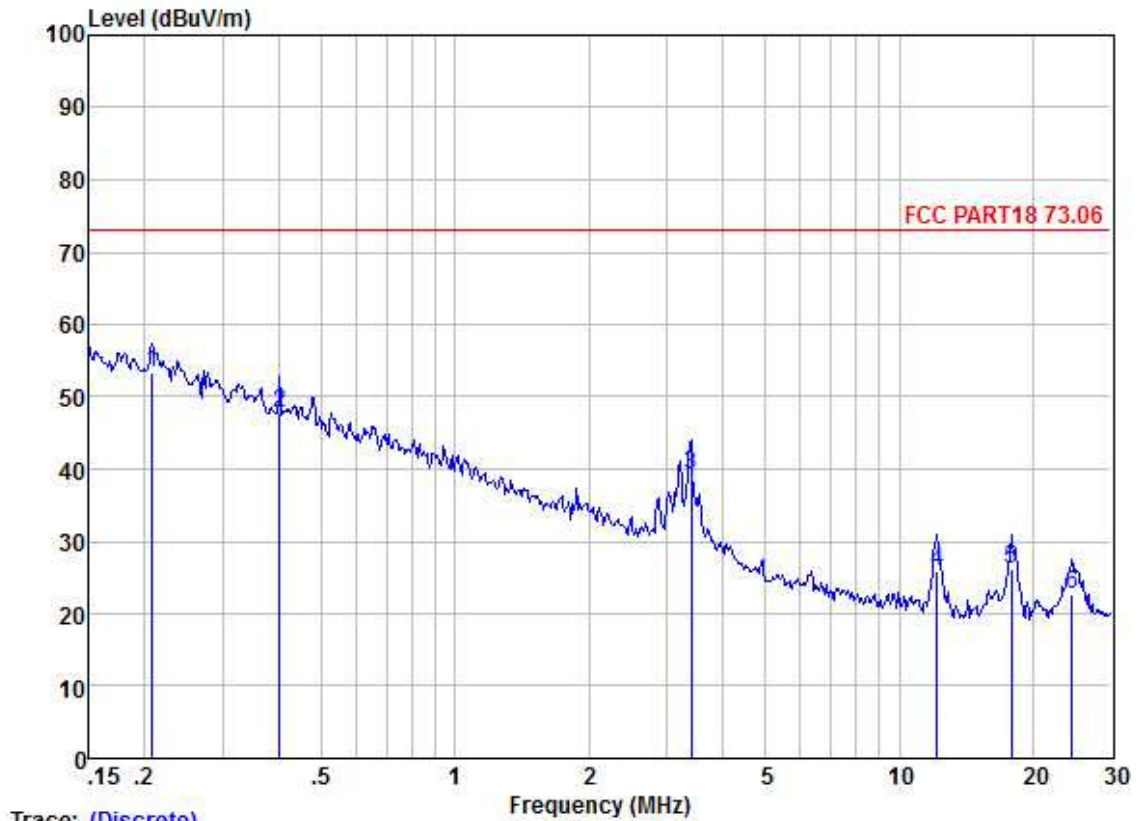
Mode:a; Polarization:Horizontal 150kHz-30MHz



Mode:a; Polarization:Horizontal 9kHz-150kHz



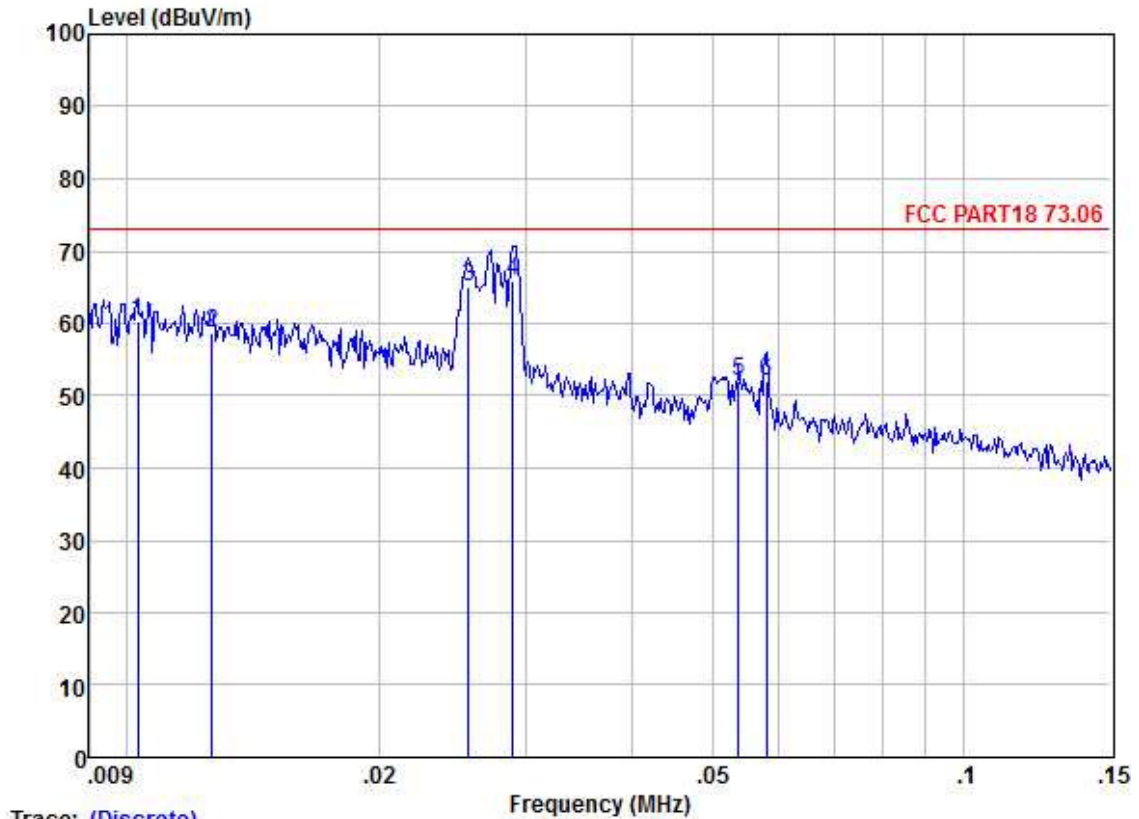
Mode:a; Polarization:Vertical 150kHz-30MHz



Trace: (Discrete)

|      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |       |           |                  |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|------------------|
| Freq | Level       | Factor | Loss   | Factor | Level  | Line   | Limit | Pol/Phase | Remark           |
| MHz  | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB    |           |                  |
| 1    | 0.208       | 69.88  | 12.83  | 0.00   | 29.30  | 53.41  | 73.06 | -19.65    | VERTICAL Average |
| 2    | 0.402       | 64.47  | 12.56  | 0.10   | 29.30  | 47.83  | 73.06 | -25.23    | VERTICAL Average |
| 3    | 3.399       | 55.94  | 12.10  | 0.24   | 29.20  | 39.08  | 73.06 | -33.98    | VERTICAL Average |
| 4    | 12.188      | 43.96  | 10.46  | 0.57   | 29.18  | 25.81  | 73.06 | -47.25    | VERTICAL Average |
| 5    | 17.849      | 43.84  | 10.57  | 0.70   | 29.10  | 26.01  | 73.06 | -47.05    | VERTICAL Average |
| 6    | 24.529      | 40.54  | 10.24  | 0.80   | 29.00  | 22.58  | 73.06 | -50.48    | VERTICAL Average |

Mode:a; Polarization:Vertical 9kHz-150kHz



Trace: (Discrete)

|      | ReadAntenna | Cable  | Preamp | Limit  | Over   |        |       |           |                  |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|------------------|
| Freq | Level       | Factor | Loss   | Factor | Level  | Line   | Limit | Pol/Phase | Remark           |
| MHz  | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB    |           |                  |
| 1    | 0.010       | 67.49  | 21.78  | 0.10   | 29.20  | 60.17  | 73.06 | -12.89    | VERTICAL Average |
| 2    | 0.013       | 67.13  | 20.74  | 0.10   | 29.20  | 58.77  | 73.06 | -14.29    | VERTICAL Average |
| 3    | 0.026       | 78.00  | 16.28  | 0.00   | 29.27  | 65.01  | 73.06 | -8.05     | VERTICAL Average |
| 4    | 0.029       | 79.41  | 15.64  | 0.00   | 29.30  | 65.75  | 73.06 | -7.31     | VERTICAL Average |
| 5    | 0.054       | 68.64  | 12.72  | 0.09   | 29.39  | 52.06  | 73.06 | -21.00    | VERTICAL Average |
| 6    | 0.058       | 68.48  | 12.76  | 0.09   | 29.39  | 51.94  | 73.06 | -21.12    | VERTICAL Average |

--End of Report--