

TEST REPORT

Product Name : Bluetooth Stereo Alarm Clock with Qi
Wireless, Speaker Phone and USB Charging
Model Number : iBTW41, iBTW41X
(X could be single or multiple digits by any
alphabets denote different cabinet color)
FCC ID : EMOIBTW41C

Prepared for : SDI Technologies Inc.
Address : 1299, Main Street, Rahway, NJ 07065, U.S.A.

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Report Number : EDG2205250146E00402R
Date(s) of Tests : May 25, 2022 to June 17, 2022
Date of issue : June 17, 2022

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TEST REPORT DESCRIPTION

Applicant : SDI Technologies Inc.
 : 1299, Main Street, Rahway, NJ 07065, U.S.A.

Manufacturer : SDI Technologies Inc.
 : 1299, Main Street, Rahway, NJ 07065, U.S.A.

Factory : DONGGUAN SYNST ELECTRONICS CO.,LTD
 : THE SCIENCE & TECHNOLOGY INDUSTRIAL PARK, HOUIE TOWN,
 DONGGUAN, GUANGDONG, CHINA

EUT : Bluetooth Stereo Alarm Clock with Qi Wireless, Speaker Phone and USB
 : Charging
 iBTW41, iBTW41X

Model Name : (X could be single or multiple digits by any alphabets denote different cabinet
 : color)

Trademark : iHome

Measurement Procedure Used:

| APPLICABLE STANDARDS | |
|---|-------------|
| STANDARD | TEST RESULT |
| FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C | PASS |

The above equipment was tested by DONGGUAN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Date of Test : May 25, 2022 to June 17, 2022

Prepared by : Xia Yang

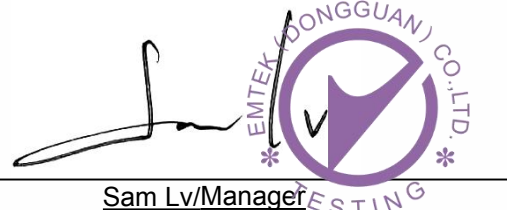
Xia Yang/Editor

Reviewer : Tim Dong

Tim Dong/Supervisor

Approve & Authorized Signer : Sam Lv

Sam Lv/Manager



Modified Information

| Version | Report No. | Revision Data | Summary |
|---------|----------------------|---------------|------------------|
| Ver.1.0 | EDG2205250146E00402R | June 17, 2022 | Original Version |
| | | | |
| | | | |
| | | | |



1. SUMMARY OF TEST RESULTS

| EMISSION | | |
|--|--|---------|
| Description of Test Item | Standard & Limits | Results |
| Conducted Emission | FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013 | Pass |
| Radiated Emission | FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013 | Pass |
| Note: N/A is an abbreviation for Not Applicable. | | |



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

| | | |
|-----------------------------|---|--|
| EUT | : | Bluetooth Stereo Alarm Clock with Qi Wireless, Speaker Phone and USB Charging |
| Model Number | : | iBTW41, iBTW41X (X could be single or multiple digits by any alphabets denote different cabinet color) All models of products are the same, only the model number is different Here we selected iBTW41 for all the test |
| Power Supply | : | AC 100-240V 50/60Hz |
| Operation Frequency for WPT | : | 111-205kHz |
| Modulation | : | FSK |
| Antenna Type: | : | Induction Coil antenna |
| Temperature Range | : | -10° C ~ +60° C |
| Date of Test | : | May 25, 2022 to June 17, 2022 |

2.2. Input / Output Ports

| Port # | Name | Type* | Cable Max. >3m | Cable Shielded | Comments |
|--------|------------|-------|----------------|----------------|----------|
| 1 | Enclosure | N/E | -- | -- | None |
| 2 | DC IN port | I/O | No | Unshielded | 1 port |

* Note: For the purposes of the present document, the following symbols apply:

| | |
|-----|---|
| AC | AC Power Port |
| DC | DC Power Port |
| N/E | Non-Electrical |
| I/O | Signal Input or Output Port (Not Involved in Process Control) |
| TP | Telecommunication Ports |

2.7. Description of Support Device

| No. | Equipment | Trade name | Model | S/N | Power Cord |
|-----|---------------|------------|-------|-----|------------|
| 1. | Wireless Load | N/A | 15w | N/A | N/A |
| 2. | / | / | / | / | / |

2.8. Measurement Uncertainty

| Test Item | Uncertainty |
|---|---|
| Conducted Emission Uncertainty | 3.16dB(9k~150kHz Conduction 2#) 2.90dB(150k-30MHz Conduction 2#) |
| Radiated Emission Uncertainty (3m Chamber) | 3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V) 4.46dB (1~6GHz) |



3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. Conducted Emission Test Equipment

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | DUE CAL. |
|--------------------|-----------------|--------------|---------------|--------------|--------------|
| Test Receiver | Rohde & Schwarz | ESCS30 | 828985/018 | May 20, 2022 | May 19, 2023 |
| L.I.S.N. | Schwarzbeck | NNLK8129 | 8129203 | May 20, 2022 | May 19, 2023 |
| 50Ω Coaxial Switch | Anritsu | MP59B | M20531 | May 20, 2022 | May 19, 2023 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100006 | May 20, 2022 | May 19, 2023 |
| Voltage Probe | Rohde & Schwarz | TK9416 | N/A | May 20, 2022 | May 19, 2023 |
| I.S.N | Rohde & Schwarz | ENY22 | 1109.9508.02 | May 20, 2022 | May 19, 2023 |

3.2. For 3m Radiated Emission Measurement 9K-30M (3m chamber 1#)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | DUE CAL. |
|-------------------|-----------------|------------------|--------------|--------------|--------------|
| EMI Test Receiver | Rohde & Schwarz | ESU | 1302.6005.26 | May 20, 2022 | May 19, 2023 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | 1519-012 | May 20, 2022 | May 19, 2023 |
| Cable | | 3M SF104-26.5 | 295838/4 | May 20, 2022 | May 19, 2023 |
| Cable | | 6M SF104-26.5 | 295840/4 | May 20, 2022 | May 19, 2023 |

3.3. For 3m Radiated Emission Measurement 30M-1G (3m chamber 1#)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|-------------------|-----------------|-----------|--------------|--------------|---------------|
| EMI Test Receiver | Rohde & Schwarz | ESU | 1302.6005.26 | May 20, 2022 | May 19, 2023 |
| Pre-Amplifier | HP | 8447F | 2944A07999 | May 20, 2022 | May 19, 2023 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 142 | May 20, 2022 | May 19, 2023 |
| Cable | Schwarzbeck | AK9513 | ACRX1 | May 20, 2022 | May 19, 2023 |
| Cable | Rosenberger | N/A | FP2RX2 | May 20, 2022 | May 19, 2023 |
| Cable | Schwarzbeck | AK9513 | CRPX1 | May 20, 2022 | May 19, 2023 |
| Cable | Schwarzbeck | AK9513 | CRRX2 | May 20, 2022 | May 19, 2023 |

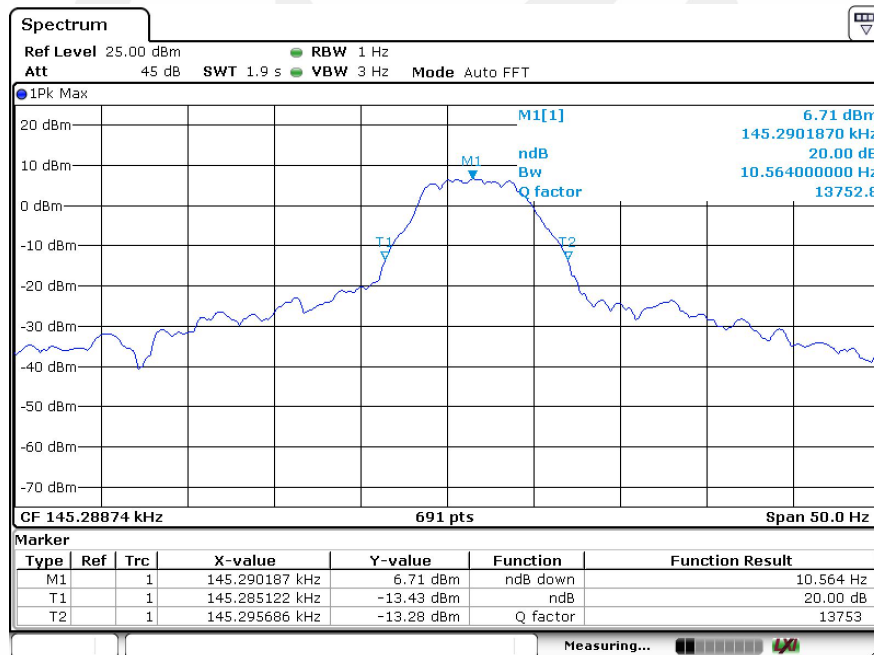
4. 20DB BANDWIDTH

4.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously
 Set RBW = 1Hz.
 Set the video bandwidth (VBW) =3Hz.
 Set Span= 50Hz
 Set Detector = Peak.
 Set Trace mode = max hold.
 Set Sweep = auto couple.
 Measure and record the results in the test report.

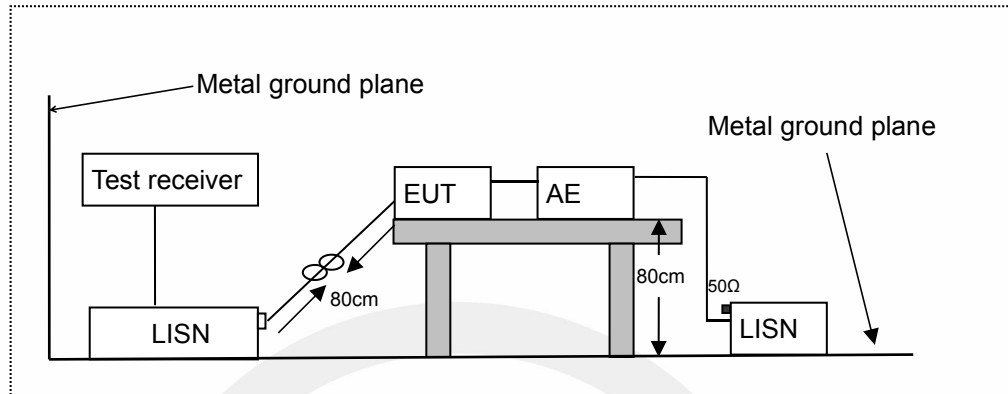
4.2. Test Results

Temperature: 25°C Test Date: 06/15/2022
 Humidity: 54 % Test By: Xia
 20dB Band=10.564 Hz



5. POWER LINE CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network
 AE: Associated equipment
 EUT: Equipment under test

5.2. Limits

FCC Part 15.207

| Frequency (MHz) | Limit (dB μ V) | |
|-----------------|--------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66.0 ~ 56.0 * | 56.0 ~ 46.0 * |
| 0.50 ~ 5.00 | 56.0 | 46.0 |
| 5.00 ~ 30.00 | 60.0 | 50.0 |

NOTE1-The lower limit shall apply at the transition frequencies.
 NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

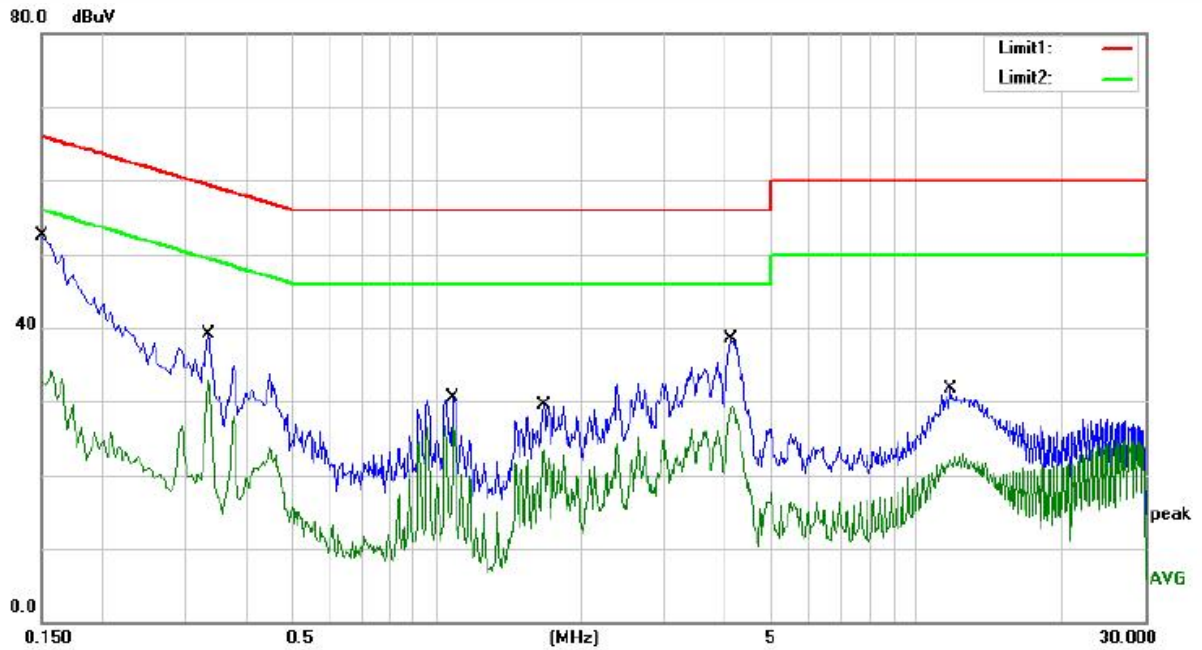
Emission Level (dB μ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB μ V)

Margin (dB) = Emission Level (dB μ V) - Limit (dB μ V)

5.4. Measuring Results

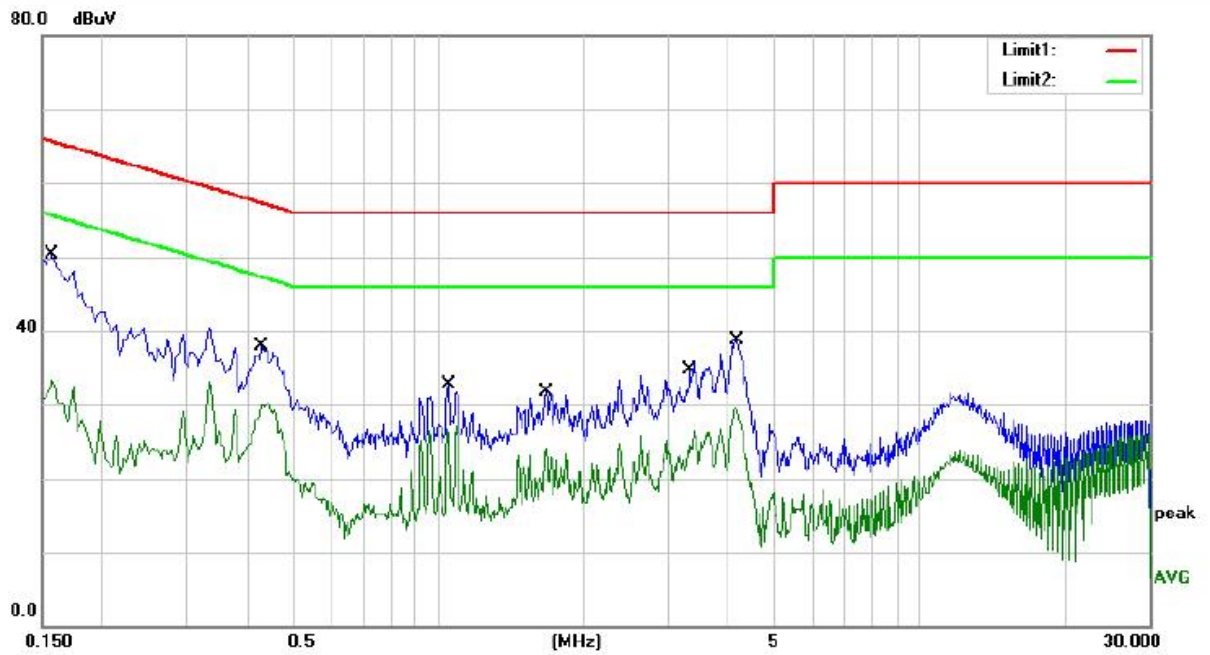
PASS.





Site: site #1 Phase: **N** Temperature: 22.8
 Limit: FCC PART 15 C_QP (CE) Power: AC 120V/60Hz Humidity: 56 %
 Mode: Wireless Charging
 Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.1500 | 41.99 | 10.53 | 52.52 | 66.00 | -13.48 | QP | |
| 2 | | 0.1500 | 22.44 | 10.53 | 32.97 | 56.00 | -23.03 | AVG | |
| 3 | | 0.3380 | 27.09 | 10.32 | 37.41 | 59.25 | -21.84 | QP | |
| 4 | | 0.3380 | 13.43 | 10.32 | 23.75 | 49.25 | -25.50 | AVG | |
| 5 | | 1.0860 | 20.30 | 10.12 | 30.42 | 56.00 | -25.58 | QP | |
| 6 | | 1.0860 | 16.53 | 10.12 | 26.65 | 46.00 | -19.35 | AVG | |
| 7 | | 1.6740 | 19.39 | 10.11 | 29.50 | 56.00 | -26.50 | QP | |
| 8 | | 1.6740 | 13.19 | 10.11 | 23.30 | 46.00 | -22.70 | AVG | |
| 9 | | 4.1340 | 28.37 | 10.07 | 38.44 | 56.00 | -17.56 | QP | |
| 10 | | 4.1340 | 19.23 | 10.07 | 29.30 | 46.00 | -16.70 | AVG | |
| 11 | | 11.8060 | 21.58 | 10.04 | 31.62 | 60.00 | -28.38 | QP | |
| 12 | | 11.8060 | 12.81 | 10.04 | 22.85 | 50.00 | -27.15 | AVG | |



Site: site #1 Phase: **L1** Temperature: 22.8
 Limit: FCC PART 15 C_QP (CE) Power: AC 120V/60Hz Humidity: 56 %
 Mode: Wireless Charging
 Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1580 | 39.70 | 10.52 | 50.22 | 65.57 | -15.35 | QP | |
| 2 | | 0.1580 | 22.78 | 10.52 | 33.30 | 55.57 | -22.27 | AVG | |
| 3 | | 0.4300 | 27.70 | 10.21 | 37.91 | 57.25 | -19.34 | QP | |
| 4 | * | 0.4300 | 22.93 | 10.21 | 33.14 | 47.25 | -14.11 | AVG | |
| 5 | | 1.0500 | 22.63 | 10.12 | 32.75 | 56.00 | -23.25 | QP | |
| 6 | | 1.0500 | 17.05 | 10.12 | 27.17 | 46.00 | -18.83 | AVG | |
| 7 | | 1.6740 | 21.60 | 10.11 | 31.71 | 56.00 | -24.29 | QP | |
| 8 | | 1.6740 | 14.01 | 10.11 | 24.12 | 46.00 | -21.88 | AVG | |
| 9 | | 3.3300 | 24.54 | 10.08 | 34.62 | 56.00 | -21.38 | QP | |
| 10 | | 3.3300 | 19.51 | 10.08 | 29.59 | 46.00 | -16.41 | AVG | |
| 11 | | 4.1580 | 28.69 | 10.06 | 38.75 | 56.00 | -17.25 | QP | |
| 12 | | 4.1580 | 13.87 | 10.06 | 23.93 | 46.00 | -22.07 | AVG | |

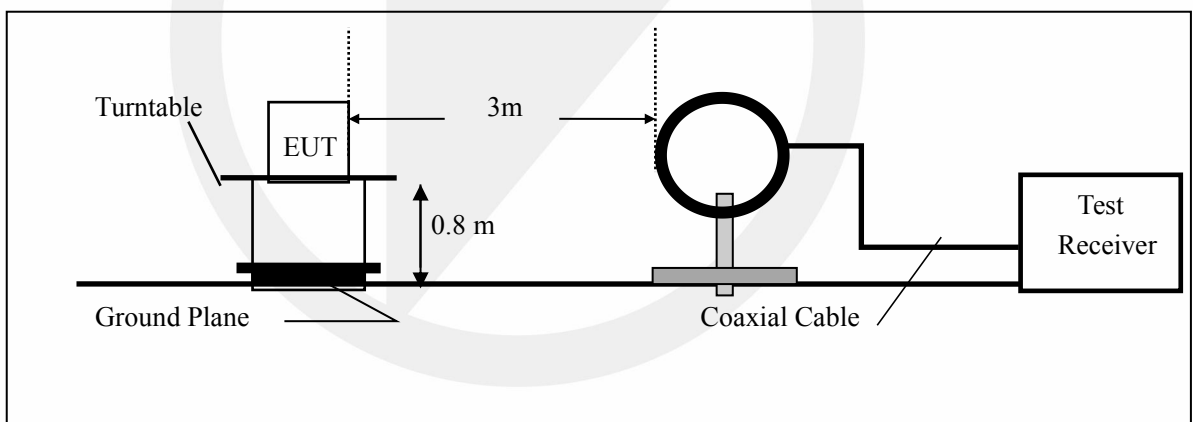
6. RADIATED EMISSION TEST

6.1.Measurement Procedure

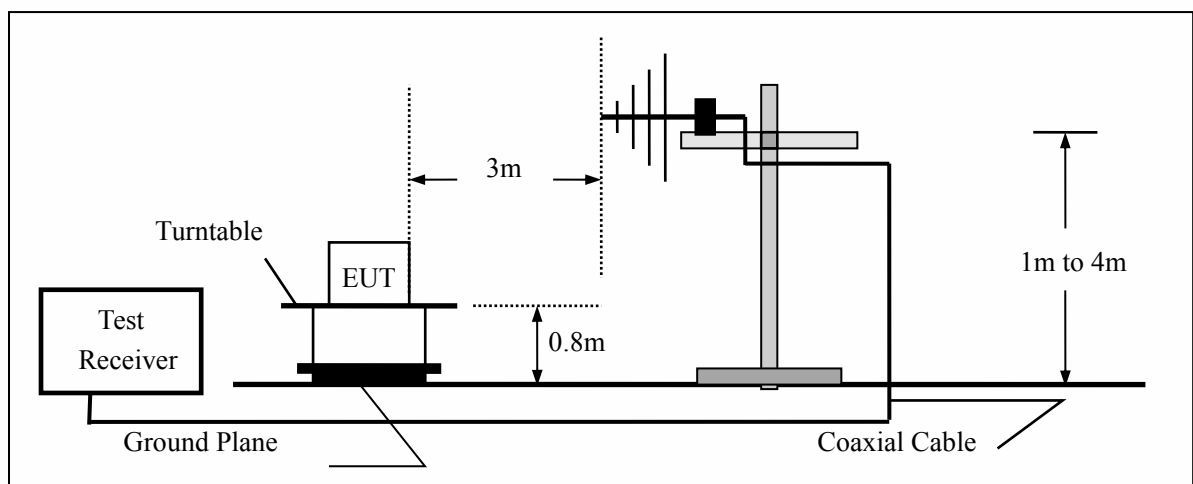
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:
 Span = wide enough to fully capture the emission being measured
 RBW=200Hz for 9KHz to 150KHz,
 RBW=9kHz for 150KHz to 30MHz,
 RBW=120KHz for 30MHz to 1GHz
 VBW $\geq 3 \times$ RBW
 Sweep = auto
 Detector function = QP
 Trace = max hold

6.2.Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3.Measurement Equipment Used

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-------------------|-----------------|--------------|---------------|--------------|--------------|
| EMI Test Receiver | Rohde & Schwarz | ESU | 1302.6005.26 | May 20, 2022 | May 19, 2023 |
| Pre-Amplifier | HP | 8447D | 2944A07999 | May 20, 2022 | May 19, 2023 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 142 | May 20, 2022 | May 19, 2023 |
| Loop Antenna | ARA | PLA-1030/B | 1029 | May 20, 2022 | May 19, 2023 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170399 | May 20, 2022 | May 19, 2023 |
| Horn Antenna | Schwarzbeck | BBHA 9120 | D143 | May 20, 2022 | May 19, 2023 |
| Cable | Schwarzbeck | AK9513 | ACRX1 | May 20, 2022 | May 19, 2023 |
| Cable | Rosenberger | N/A | FP2RX2 | May 20, 2022 | May 19, 2023 |
| Cable | Schwarzbeck | AK9513 | CRPX1 | May 20, 2022 | May 19, 2023 |
| Cable | Schwarzbeck | AK9513 | CRRX2 | May 20, 2022 | May 19, 2023 |

6.4.Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

| FCC Part 15.209 | | | | |
|-----------------|---------------------------|------|---|-------------------------|
| Frequency (MHz) | Field Strength Limitation | | Field Strength Limitation Frequency tion at 3m Measurement Dist | |
| | (uV/m) | Dist | (uV/m) | (dBuV/m) |
| 0.009 – 0.490 | 2400 / F(KHz) | 300m | 10000 * 2400/F(KHz) | 20log 2400/F(KHz) + 80 |
| 0.490 – 1.705 | 24000 / F(KHz) | 30m | 100 * 24000/F(KHz) | 20log 24000/F(KHz) + 40 |
| 1.705 – 30.00 | 30 | 30m | 100* 30 | 20log 30 + 40 |
| 30.0 – 88.0 | 100 | 3m | 100 | 20log 100 |
| 88.0 – 216.0 | 150 | 3m | 150 | 20log 150 |
| 216.0 – 960.0 | 200 | 3m | 200 | 20log 200 |
| Above 960.0 | 500 | 3m | 500 | 20log 500 |

15.205 Restricted bands of operation

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

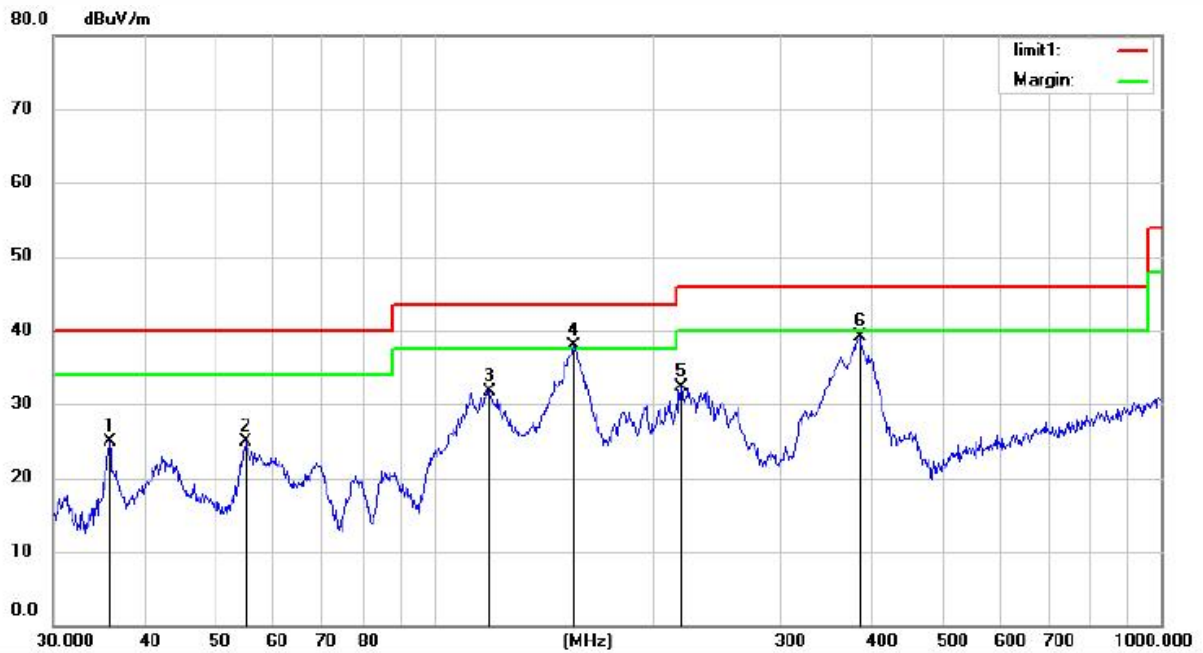
6.5.Measurement Result

| | | | |
|--------------------|---------------|---------------|------------|
| Operation Mode: | Low frequency | Test Date : | 06/15/2022 |
| Frequency Range: | 9KHz~30MHz | Temperature : | 20°C |
| Test Result: | PASS | Humidity : | 55 % |
| Measured Distance: | 3m | Test By: | Xia |

| Freq. (MHz) | Ant.Pol. H/V | Emission Level (dBuV/m) | Limit 3m (dBuV/m) | Over (dB) | Note |
|----------------|-----------------|----------------------------|----------------------|--------------|------|
| 0.14487 | H | 74.74 | 104.38 | -29.64 | PK |
| 0.160 | H | 67.23 | 103.53 | -36.30 | PK |
| 0.259 | H | 65.19 | 99.33 | -34.14 | PK |
| 0.402 | H | 67.34 | 95.51 | -28.17 | PK |
| 0.544 | H | 64.61 | 72.89 | -8.28 | PK |
| 0.14395 | V | 75.93 | 104.44 | -28.51 | PK |
| 0.210 | V | 66.58 | 101.18 | -34.59 | PK |
| 0.351 | V | 65.49 | 96.70 | -31.21 | PK |
| 0.468 | V | 64.04 | 94.19 | -30.15 | PK |
| 0.623 | V | 65.36 | 71.71 | -6.35 | PK |

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

30MHz-1GHz:



Site Chamber #1 Polarization: **Horizontal** Temperature: 22.8
 Limit: FCC PART 15 C 3m(RE) Power: AC 120V/60Hz Humidity: 56 %
 Mode: Wireless Charging
 Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1 | | 35.8746 | 42.48 | -17.60 | 24.88 | 40.00 | -15.12 | QP | | |
| 2 | | 55.2207 | 40.68 | -15.83 | 24.85 | 40.00 | -15.15 | QP | | |
| 3 | | 119.0180 | 50.52 | -18.81 | 31.71 | 43.50 | -11.79 | QP | | |
| 4 | * | 155.9101 | 57.39 | -19.44 | 37.95 | 43.50 | -5.55 | QP | | |
| 5 | | 219.0753 | 47.26 | -14.96 | 32.30 | 46.00 | -13.70 | QP | | |
| 6 | | 385.2805 | 49.57 | -10.54 | 39.03 | 46.00 | -6.97 | QP | | |



Site Chamber #1 Polarization: **Vertical** Temperature: 22.8
 Limit: FCC PART 15 C 3m(RE) Power: AC 120V/60Hz Humidity: 56 %
 Mode: Wireless Charging
 Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1 | ! | 42.0066 | 50.38 | -16.07 | 34.31 | 40.00 | -5.69 | QP | | |
| 2 | | 55.6093 | 46.12 | -15.93 | 30.19 | 40.00 | -9.81 | QP | | |
| 3 | | 119.0180 | 51.08 | -18.81 | 32.27 | 43.50 | -11.23 | QP | | |
| 4 | * | 158.1123 | 59.80 | -19.35 | 40.45 | 43.50 | -3.05 | QP | | |
| 5 | | 218.3084 | 53.23 | -14.98 | 38.25 | 46.00 | -7.75 | QP | | |
| 6 | | 379.9141 | 43.13 | -10.69 | 32.44 | 46.00 | -13.56 | QP | | |

7. ANTENNA REQUIREMENT

The EUT's antenna, permanent attached antenna, used an Induction coil, The antenna's gain meets the requirement.



*** End of Report ***

声明

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