

Applicant: LEADER PREMIUMS LIMITED

Product: Bamboo wireless charger

Model No.: AB0402

Trademark: N/A

Test Standards: FCC Part 15 Subpart C

Test Result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C,

for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: February 06, 2023

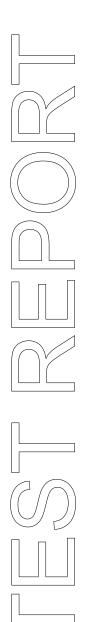
Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The 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 No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2023-02-06



Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: +86 755 83448688 Fax: +86 755 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: LEADER PREMIUMS LIMITED

Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO, CHINA

Telephone: --Fax: --

1.3 Description of EUT

Product: Bamboo wireless charger

Manufacturer: LEADER PREMIUMS LIMITED

Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO,

CHINA

Trademark: N/A
Model Number: AB0402
Additional Model Name N/A
Additional Trade Name N/A

Rating: Input: DC5V, 2A or 9V, 2A; Wireless Output: DC5V, 1A or DC9V, 1.1A

Note: DC5V, 1A for charging watch, defined as Coil 1; DC9V, 1.1A for

charging phone, defined as Coil 2

Hardware Version: wirelesscharging- AB0402

Software Version: leader.2023.03

Serial No.: AB0402

Operation Frequency: See below table

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Chamie | (MHz) | Chamie | (MHz) | Chamie | (MHz) | Chamie | (MHz) |
| 01 | 0.1115 | 06 | 0.140 | 11 | 0.165 | 16 | 0.190 |

The report refers only to the sample tested and does not apply to the bulk.

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| 02 | 0.120 | 07 | 0.145 | 12 | 0.170 | 17 | 0.195 |
|------|-------|-----------|-------|----|-------|----|-------|
| 03 | 0.125 | 08 | 0.150 | 13 | 0.175 | 18 | 0.200 |
| 04 | 0.130 | 09 | 0.155 | 14 | 0.180 | 19 | 0.205 |
| 05 | 0.135 | 10 | 0.160 | 15 | 0.185 | | |
| | | ncy (MHz) | | | | | |
| CH13 | | 0.17 | 5 MHz | | | | |

Modulation Type: MSK

Antenna Designation Two inductive Loop Antennas with gain 0dBi Max (Declared by the applicant)

1.4 Submitted Sample

1 Samples

1.5 Test Duration

2023-02-01 to 2023-02-06

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 9kHz-30MHz Uncertainty =4.3dB

Radiated Emissions below 30MHz-1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

Date: 2023-02-06



| 2.0 Test Equipment | | | | | | | |
|--------------------|--------------|----------------------|--------------|--------------|------------|--|--|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date | | |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2022-06-17 | 2023-06-16 | | |
| LISN | R&S | EZH3-Z5 | 100294 | 2022-06-17 | 2023-06-16 | | |
| LISN | R&S | EZH3-Z5 | 100253 | 2022-06-17 | 2023-06-16 | | |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2022-06-17 | 2023-06-16 | | |
| Loop Antenna | EMCO | 6507 | 00078608 | 2021-06-18 | 2024-06-17 | | |
| Spectrum | R&S | FSIQ26 | 100292 | 2022-06-17 | 2023-06-16 | | |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2022-06-17 | 2023-06-16 | | |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2021-07-02 | 2024-07-01 | | |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2022-06-17 | 2023-06-16 | | |
| Power sensor | Anritsu | MA2491A | 32263 | 2022-06-17 | 2023-06-16 | | |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2021-07-02 | 2024-07-01 | | |
| 9*6*6 Anechoic | | | N/A | 2022-07-01 | 2023-06-30 | | |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2022-06-17 | 2023-06-16 | | |
| EMI Test Receiver | RS | ESH3 | 860904/006 | 2022-06-17 | 2023-06-16 | | |
| Spectrum | HP/Agilent | ESA-L1500A | US37451154 | 2022-06-17 | 2023-06-16 | | |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2022-06-17 | 2023-06-16 | | |
| Spectrum | RS | FSP | 1164.4391.38 | 2023-01-04 | 2024-01-03 | | |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8 M/FA | | 2022-06-17 | 2023-06-16 | | |
| RF Cable | Zhengdi | 7m | | 2022-06-17 | 2023-06-16 | | |
| RF Switch | EM | EMSW18 | 060391 | 2022-06-17 | 2023-06-16 | | |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2022-06-17 | 2023-06-16 | | |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2022-06-17 | 2023-06-16 | | |
| LISN | SCHAFFNER | NNB42 | 00012 | 2023-01-04 | 2024-01-03 | | |

2.2 Automation Test Software

For Conducted Emission Test

| Name | Version | | |
|--------|-------------------|--|--|
| EZ-EMC | Ver.EMC-CON 3A1.1 | | |

For Radiated Emissions

| Name | Version |
|---|---------|
| EMI Test Software BL410-EV18.91 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06 |

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

| Standard | Test Type | Result | Notes |
|---------------------------------------|---------------|--------|---------------------------------|
| FCC Part 15, Paragraph 15.203 | Antenna | Pass | Compliant |
| | requirements | | |
| FCC Part 15, Paragraph 15.207 | Conducted | Pass | Compliant |
| | Emission Test | | |
| ECC Post 15 Possessed 15 200 (a) (b) | General | D | G1:t |
| FCC Part 15, Paragraph 15.209 (a) (f) | Requirement | Pass | Compliant Compliant Compliant |
| FCC Part 15, Paragraph 15.215 | 20dB | Pass | Compliant |
| | Bandwidth | | |
| | Testing | | |

3.2 Test Standards

FCC Part 15 Subpart C , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

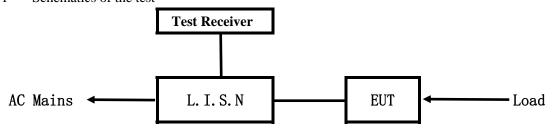
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

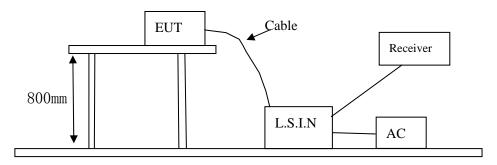


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

| Device | Manufacturer | Model | FCC ID | |
|-----------------|---------------------------|--------|----------------|--|
| Bamboo wireless | LEADER PREMIUMS LIMITED | AB0402 | 2APYY-AB0402 | |
| charger | LEADER I REMIONIS ENVITED | AD0402 | ZAI I I-AD0402 | |

B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A | | | |

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C. Peripherals

| Device | Manufacturer | Model | Rating |
|--------------|--------------|--------|----------------------------------|
| Power Supply | Chenyang | UP0920 | Input: 100-240V~, 50-60Hz, 0.5A; |
| | | | Output: DC5V/3A or DC9V, 2A |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

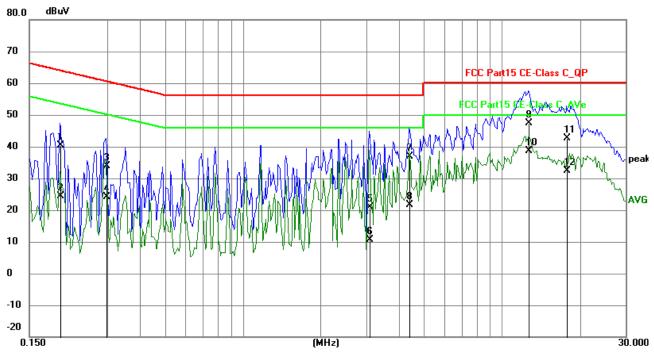
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting (Coil 1 operation)

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1968 | 30.64 | 9.75 | 40.39 | 63.74 | -23.35 | QP | Р |
| 2 | 0.1968 | 14.68 | 9.75 | 24.43 | 53.74 | -29.31 | AVG | Р |
| 3 | 0.2982 | 24.12 | 9.76 | 33.88 | 60.29 | -26.41 | QP | Р |
| 4 | 0.2982 | 14.39 | 9.76 | 24.15 | 50.29 | -26.14 | AVG | Р |
| 5 | 3.0780 | 10.93 | 9.85 | 20.78 | 56.00 | -35.22 | QP | Р |
| 6 | 3.0780 | 0.69 | 9.85 | 10.54 | 46.00 | -35.46 | AVG | П |
| 7 | 4.3962 | 27.02 | 9.90 | 36.92 | 56.00 | -19.08 | QP | П |
| 8 | 4.3962 | 11.84 | 9.90 | 21.74 | 46.00 | -24.26 | AVG | Ъ |
| 9 | 12.6954 | 37.22 | 10.28 | 47.50 | 60.00 | -12.50 | QP | Р |
| 10 | 12.6954 | 28.27 | 10.28 | 38.55 | 50.00 | -11.45 | AVG | Р |
| 11 | 17.7771 | 32.07 | 10.55 | 42.62 | 60.00 | -17.38 | QP | Р |
| 12 | 17.7771 | 21.80 | 10.55 | 32.35 | 50.00 | -17.65 | AVG | Р |

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

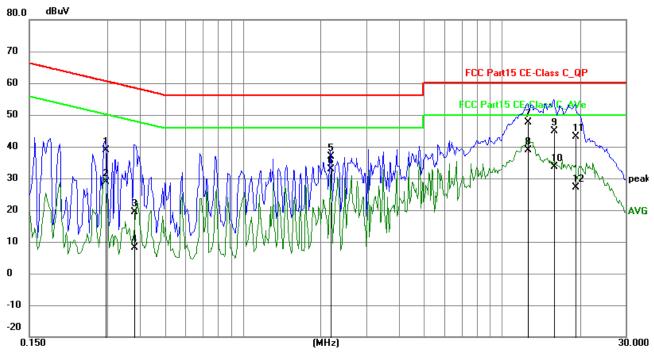
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting (Coil 1 operation)

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.2943 | 29.06 | 9.76 | 38.82 | 60.40 | -21.58 | QP | Р |
| 2 | 0.2943 | 19.21 | 9.76 | 28.97 | 50.40 | -21.43 | AVG | Р |
| 3 | 0.3800 | 9.67 | 9.76 | 19.43 | 58.28 | -38.85 | QP | Р |
| 4 | 0.3800 | -1.54 | 9.76 | 8.22 | 48.28 | -40.06 | AVG | Р |
| 5 | 2.1819 | 26.97 | 9.81 | 36.78 | 56.00 | -19.22 | QP | Р |
| 6 | 2.1819 | 23.04 | 9.81 | 32.85 | 46.00 | -13.15 | AVG | Р |
| 7 | 12.5589 | 37.29 | 10.27 | 47.56 | 60.00 | -12.44 | QP | Р |
| 8 | 12.5589 | 28.61 | 10.27 | 38.88 | 50.00 | -11.12 | AVG | Р |
| 9 | 15.8622 | 34.33 | 10.43 | 44.76 | 60.00 | -15.24 | QP | Р |
| 10 | 15.8622 | 23.27 | 10.43 | 33.70 | 50.00 | -16.30 | AVG | Р |
| 11 | 19.1304 | 32.51 | 10.63 | 43.14 | 60.00 | -16.86 | QP | Р |
| 12 | 19.1304 | 16.53 | 10.63 | 27.16 | 50.00 | -22.84 | AVG | Р |

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C: Conducted Emission on Live Terminal (150kHz to 30MHz)

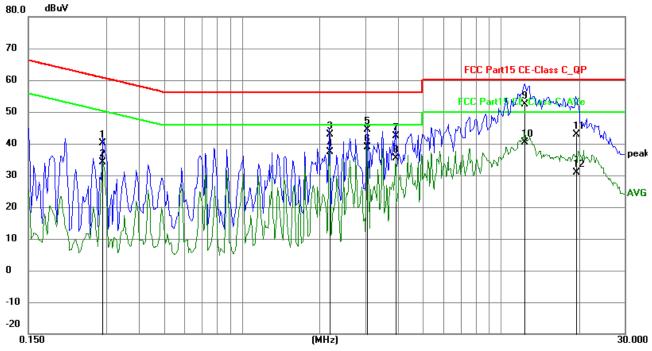
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting (Coil 2 operation)

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.2904 | 30.33 | 9.76 | 40.09 | 60.51 | -20.42 | QP | Р |
| 2 | 0.2904 | 24.27 | 9.76 | 34.03 | 50.51 | -16.48 | AVG | Р |
| 3 | 2.1819 | 32.98 | 9.81 | 42.79 | 56.00 | -13.21 | QP | Р |
| 4 | 2.1819 | 27.60 | 9.81 | 37.41 | 46.00 | -8.59 | AVG | Р |
| 5 | 3.0546 | 34.51 | 9.85 | 44.36 | 56.00 | -11.64 | QP | Р |
| 6 | 3.0546 | 28.97 | 9.85 | 38.82 | 46.00 | -7.18 | AVG | П |
| 7 | 3.9282 | 32.51 | 9.88 | 42.39 | 56.00 | -13.61 | QP | Ъ |
| 8 | 3.9282 | 25.47 | 9.88 | 35.35 | 46.00 | -10.65 | AVG | Ъ |
| 9 | 12.3561 | 42.15 | 10.26 | 52.41 | 60.00 | -7.59 | QP | Р |
| 10 | 12.3561 | 30.09 | 10.26 | 40.35 | 50.00 | -9.65 | AVG | Р |
| 11 | 19.4580 | 32.12 | 10.65 | 42.77 | 60.00 | -17.23 | QP | Р |
| 12 | 19.4580 | 20.17 | 10.65 | 30.82 | 50.00 | -19.18 | AVG | Р |

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D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

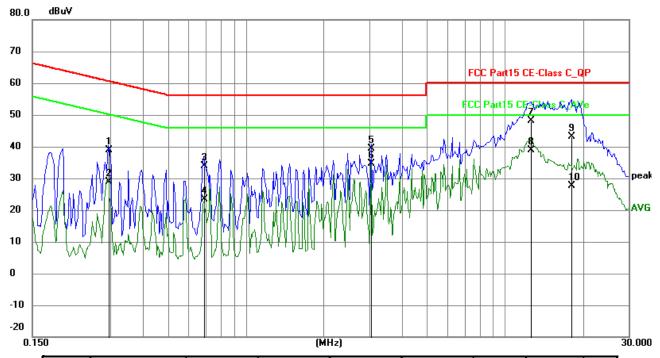
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting (Coil 2 operation)

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.2943 | 29.18 | 9.76 | 38.94 | 60.40 | -21.46 | QP | Р |
| 2 | 0.2943 | 19.13 | 9.76 | 28.89 | 50.40 | -21.51 | AVG | Р |
| 3 | 0.6882 | 24.03 | 9.78 | 33.81 | 56.00 | -22.19 | QP | Р |
| 4 | 0.6882 | 13.57 | 9.78 | 23.35 | 46.00 | -22.65 | AVG | Р |
| 5 | 3.0546 | 29.48 | 9.85 | 39.33 | 56.00 | -16.67 | QP | Р |
| 6 | 3.0546 | 24.89 | 9.85 | 34.74 | 46.00 | -11.26 | AVG | Р |
| 7 | 12.5667 | 37.93 | 10.27 | 48.20 | 60.00 | -11.80 | QP | Р |
| 8 | 12.5667 | 28.69 | 10.27 | 38.96 | 50.00 | -11.04 | AVG | Р |
| 9 | 18.0774 | 32.64 | 10.56 | 43.20 | 60.00 | -16.80 | QP | Р |
| 10 | 18.0774 | 17.14 | 10.56 | 27.70 | 50.00 | -22.30 | AVG | Р |

Date: 2023-02-06



E: Conducted Emission on Live Terminal (150kHz to 30MHz)

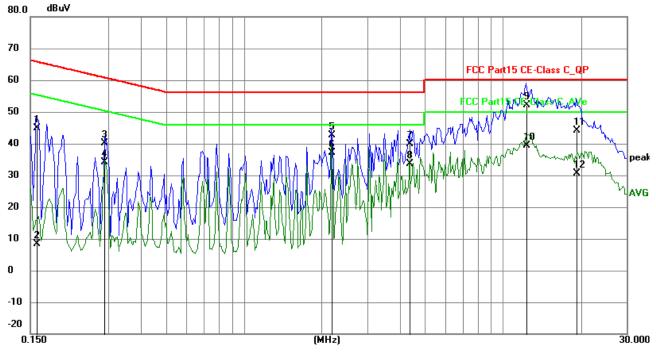
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting (Coil 1+ Coil 2 operation)

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1590 | 34.99 | 9.78 | 44.77 | 65.52 | -20.75 | QP | Р |
| 2 | 0.1590 | -1.30 | 9.78 | 8.48 | 55.52 | -47.04 | AVG | Р |
| 3 | 0.2904 | 30.25 | 9.76 | 40.01 | 60.51 | -20.50 | QP | Р |
| 4 | 0.2904 | 24.34 | 9.76 | 34.10 | 50.51 | -16.41 | AVG | Р |
| 5 | 2.1819 | 32.90 | 9.81 | 42.71 | 56.00 | -13.29 | QP | Р |
| 6 | 2.1819 | 27.27 | 9.81 | 37.08 | 46.00 | -8.92 | AVG | Р |
| 7 | 4.3649 | 30.06 | 9.90 | 39.96 | 56.00 | -16.04 | QP | Р |
| 8 | 4.3649 | 23.64 | 9.90 | 33.54 | 46.00 | -12.46 | AVG | Р |
| 9 | 12.2547 | 41.84 | 10.26 | 52.10 | 60.00 | -7.90 | QP | Р |
| 10 | 12.2547 | 29.04 | 10.26 | 39.30 | 50.00 | -10.70 | AVG | Р |
| 11 | 19.1382 | 33.41 | 10.63 | 44.04 | 60.00 | -15.96 | QP | Р |
| 12 | 19.1382 | 20.08 | 10.63 | 30.71 | 50.00 | -19.29 | AVG | Р |

The report refers only to the sample tested and does not apply to the bulk.

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Date: 2023-02-06



F: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

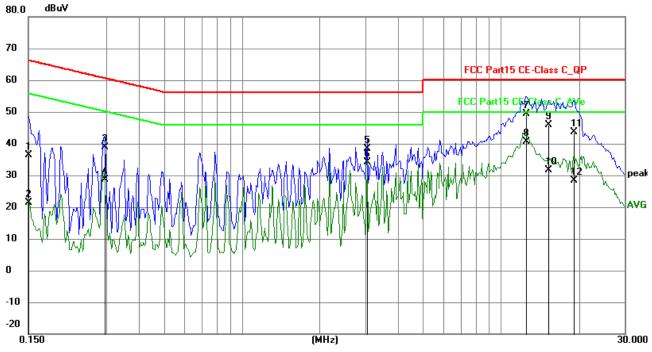
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting (Coil 1+ Coil 2 operation)

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1500 | 26.62 | 9.79 | 36.41 | 66.00 | -29.59 | QP | Р |
| 2 | 0.1500 | 11.57 | 9.79 | 21.36 | 56.00 | -34.64 | AVG | Р |
| 3 | 0.2943 | 29.14 | 9.76 | 38.90 | 60.40 | -21.50 | QP | Р |
| 4 | 0.2943 | 18.88 | 9.76 | 28.64 | 50.40 | -21.76 | AVG | Р |
| 5 | 3.0546 | 28.59 | 9.85 | 38.44 | 56.00 | -17.56 | QP | Р |
| 6 | 3.0546 | 24.19 | 9.85 | 34.04 | 46.00 | -11.96 | AVG | Р |
| 7 | 12.4887 | 39.00 | 10.27 | 49.27 | 60.00 | -10.73 | QP | Р |
| 8 | 12.4887 | 30.32 | 10.27 | 40.59 | 50.00 | -9.41 | AVG | Р |
| 9 | 15.2733 | 35.41 | 10.40 | 45.81 | 60.00 | -14.19 | QP | Р |
| 10 | 15.2733 | 21.27 | 10.40 | 31.67 | 50.00 | -18.33 | AVG | Р |
| 11 | 19.0407 | 33.12 | 10.62 | 43.74 | 60.00 | -16.26 | QP | Р |
| 12 | 19.0407 | 17.83 | 10.62 | 28.45 | 50.00 | -21.55 | AVG | Р |

The report refers only to the sample tested and does not apply to the bulk.

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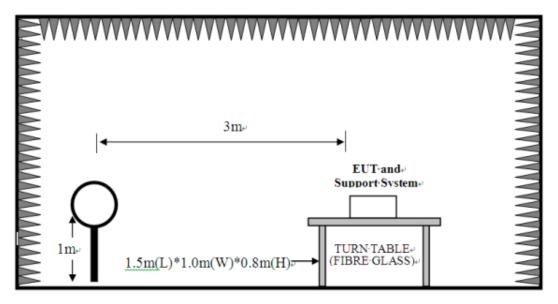


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9 kHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with RBW=120 kHz/VBW=300 kHz; All readings from 9 kHz to 30 MHz are quasi-peak values with RBW=10 kHz/VBW=30 kHz. For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission test in these three bands are based on measurements employing an average detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

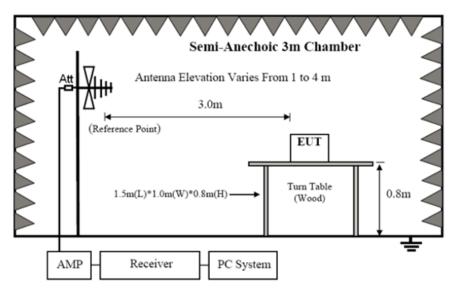
9kHz-30MHz



Date: 2023-02-06



30MHz-1000MHz



6.2 Configuration of the EUT Same as section 5.3 of this report

6.3 EUT Operating Condition Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

B. Frequencies in restricted band are compiled to limit on Paragraph 15.209. Limits for frequency below 30MHz

| Frequency Range (MHz) | Distance (m) | Field strength (V/m) |
|-----------------------|--------------|----------------------|
| 0.009-0.490 | 300 | 2400/F(kHz) |
| 0.490-1.705 | 30 | 24000/F(kHz) |
| 1.705-30 | 30 | 30 |

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Limits for frequency above 30MHz

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6.5 Test result

Date: 2023-02-06

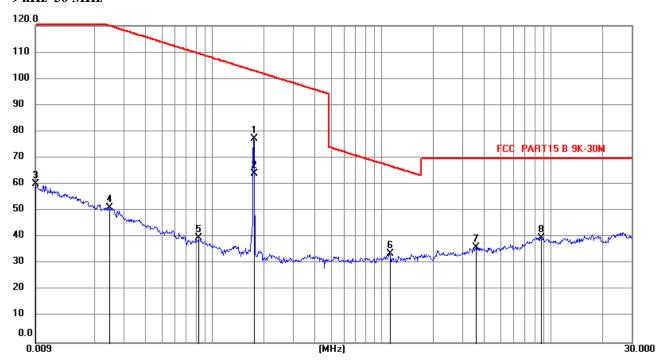


Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



| No. | Frequency (MHz) | Reading () | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|------------|----------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 0.1753 | 67.56 | 9.77 | 77.33 | 102.68 | -25.35 | peak | Р |
| 2 | 0.1753 | 54.38 | 9.77 | 64.15 | 102.68 | -38.53 | AVG | Р |
| 3 | 0.0088 | 50.11 | 9.95 | 60.06 | 128.52 | -68.46 | peak | Р |
| 4 | 0.0245 | 40.92 | 10.28 | 51.20 | 119.68 | -68.48 | peak | Ъ |
| 5 | 0.0830 | 30.04 | 9.79 | 39.83 | 109.14 | -69.31 | peak | Р |
| 6 | 1.1187 | 23.82 | 9.79 | 33.61 | 66.65 | -33.04 | peak | Р |
| 7 | 3.6049 | 26.32 | 9.87 | 36.19 | 69.53 | -33.34 | peak | Р |
| 8 | 8.6875 | 29.66 | 10.09 | 39.75 | 69.56 | -29.81 | peak | Р |

Note: Coil 1 operation

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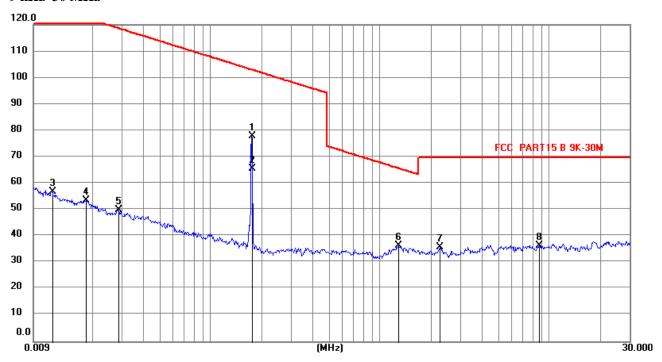


Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



| No. | Frequency (MHz) | Reading () | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|------------|----------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 0.1753 | 68.06 | 9.77 | 77.83 | 102.68 | -24.85 | peak | Р |
| 2 | 0.1753 | 55.64 | 9.77 | 65.41 | 102.68 | -37.27 | AVG | Р |
| 3 | 0.0117 | 46.83 | 10.06 | 56.89 | 126.06 | -69.17 | peak | Р |
| 4 | 0.0183 | 43.37 | 10.30 | 53.67 | 122.20 | -68.53 | peak | Р |
| 5 | 0.0286 | 39.80 | 10.20 | 50.00 | 118.34 | -68.34 | peak | Р |
| 6 | 1.2874 | 26.57 | 9.79 | 36.36 | 65.43 | -29.07 | peak | Р |
| 7 | 2.2659 | 26.08 | 9.81 | 35.89 | 69.51 | -33.62 | peak | Р |
| 8 | 8.7500 | 26.37 | 10.10 | 36.47 | 69.56 | -33.09 | peak | Р |

Note: Coil 2 operation

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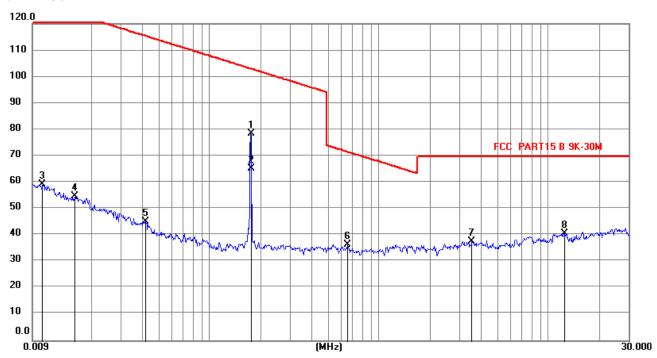


Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



| No. | Frequency (MHz) | Reading () | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|--------------------|------------|----------------|-------------------|-------------------|----------------|----------|-----|
| 1 | 0.1753 | 68.56 | 9.77 | 78.33 | 102.68 | -24.35 | peak | Р |
| 2 | 0.1753 | 55.49 | 9.77 | 65.26 | 102.68 | -37.42 | AVG | Р |
| 3 | 0.0103 | 49.19 | 10.00 | 59.19 | 127.16 | -67.97 | peak | Р |
| 4 | 0.0160 | 44.66 | 10.21 | 54.87 | 123.36 | -68.49 | peak | Р |
| 5 | 0.0417 | 35.21 | 9.95 | 45.16 | 115.08 | -69.92 | peak | Р |
| 6 | 0.6572 | 26.67 | 9.78 | 36.45 | 71.26 | -34.81 | peak | Р |
| 7 | 3.5261 | 27.71 | 9.87 | 37.58 | 69.53 | -31.95 | peak | Р |
| 8 | 12.5000 | 30.29 | 10.27 | 40.56 | 69.57 | -29.01 | peak | Р |

Note: Coil 1+Coil 2 operation

Date: 2023-02-06



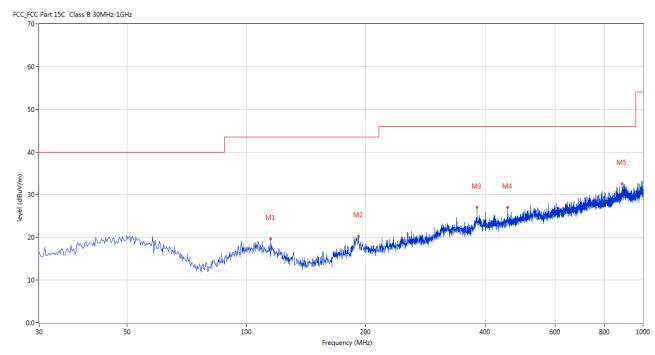
A. General Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 115.096 | 19.69 | -14.44 | 43.5 | -23.81 | Peak | 101.00 | 100 | Horizontal | Pass |
| 2 | 191.465 | 20.31 | -14.15 | 43.5 | -23.19 | Peak | 66.00 | 100 | Horizontal | Pass |
| 3 | 381.295 | 27.05 | -9.18 | 46.0 | -18.95 | Peak | 289.00 | 100 | Horizontal | Pass |
| 4 | 455.966 | 27.07 | -7.95 | 46.0 | -18.93 | Peak | 145.00 | 100 | Horizontal | Pass |
| 5 | 885.569 | 32.59 | -2.03 | 46.0 | -13.41 | Peak | 197.00 | 100 | Horizontal | Pass |

Note: Coil 1 operation

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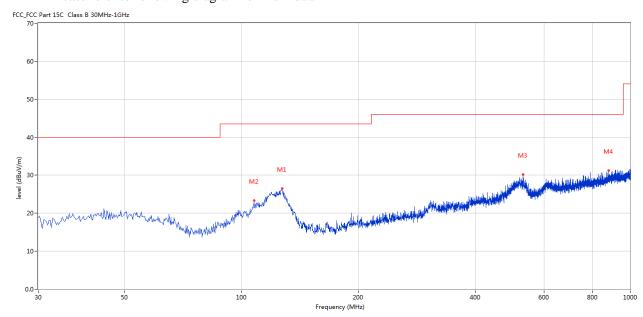
B. General Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (o) | (cm) | | |
| 1 | 127.218 | 26.54 | -16.62 | 43.5 | -16.96 | Peak | 175.00 | 100 | Vertical | Pass |
| 2 | 107.823 | 23.34 | -13.41 | 43.5 | -20.16 | Peak | 126.00 | 100 | Vertical | Pass |
| 3 | 530.395 | 30.19 | -6.45 | 46.0 | -15.81 | Peak | 360.00 | 100 | Vertical | Pass |
| 4 | 879.750 | 31.23 | -1.96 | 46.0 | -14.77 | Peak | 358.00 | 100 | Vertical | Pass |

Note: Coil 1 operation

Date: 2023-02-06



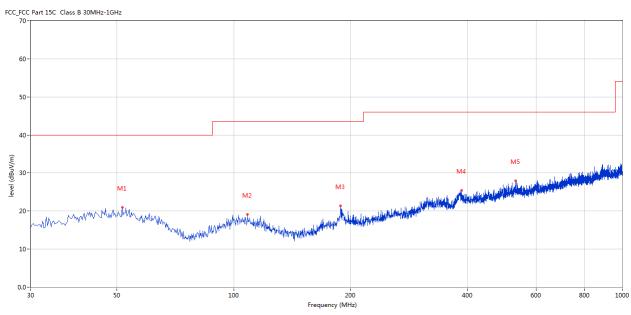
C. General Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Over | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | Limit (dB) | | (o) | (cm) | | |
| 1 | 51.577 | 20.95 | -11.41 | 40.0 | -19.05 | Peak | 108.00 | 100 | Horizontal | Pass |
| 2 | 108.550 | 19.16 | -13.46 | 43.5 | -24.34 | Peak | 1.00 | 100 | Horizontal | Pass |
| 3 | 188.313 | 21.38 | -14.43 | 43.5 | -22.12 | Peak | 310.00 | 100 | Horizontal | Pass |
| 4 | 386.143 | 25.47 | -9.10 | 46.0 | -20.53 | Peak | 174.00 | 100 | Horizontal | Pass |
| 5 | 531.607 | 27.96 | -6.44 | 46.0 | -18.04 | Peak | 191.00 | 100 | Horizontal | Pass |

Note: Coil 2 operation

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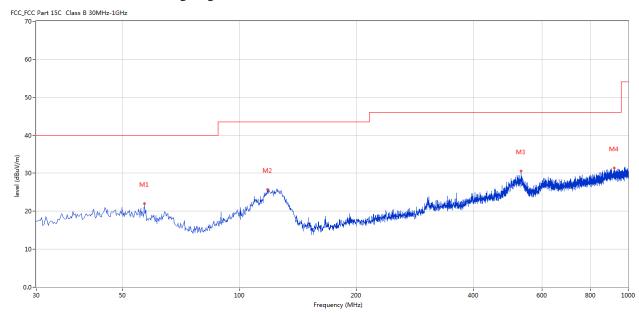
D. General Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (o) | (cm) | | |
| 1 | 56.911 | 22.00 | -12.30 | 40.0 | -18.00 | Peak | 217.00 | 100 | Vertical | Pass |
| 2 | 118.005 | 25.71 | -14.93 | 43.5 | -17.79 | Peak | 168.00 | 100 | Vertical | Pass |
| 3 | 530.637 | 30.65 | -6.45 | 46.0 | -15.35 | Peak | 46.00 | 100 | Vertical | Pass |
| 4 | 919.753 | 31.38 | -1.80 | 46.0 | -14.62 | Peak | 140.00 | 100 | Vertical | Pass |

Note: Coil 2 operation

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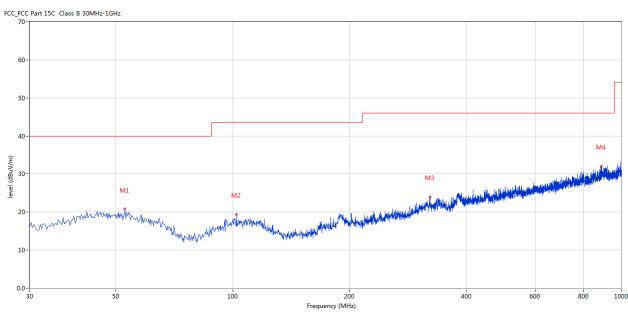
E. General Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Over | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | Limit (dB) | | (o) | (cm) | | |
| 1 | 52.789 | 20.76 | -11.48 | 40.0 | -19.24 | Peak | 140.00 | 100 | Horizontal | Pass |
| 2 | 102.247 | 19.36 | -13.42 | 43.5 | -24.14 | Peak | 187.00 | 100 | Horizontal | Pass |
| 3 | 321.655 | 23.95 | -10.53 | 46.0 | -22.05 | Peak | 199.00 | 100 | Horizontal | Pass |
| 4 | 887.508 | 31.99 | -2.04 | 46.0 | -14.01 | Peak | 182.00 | 100 | Horizontal | Pass |

Note: Coil 1+ Coil 2 operation

Date: 2023-02-06



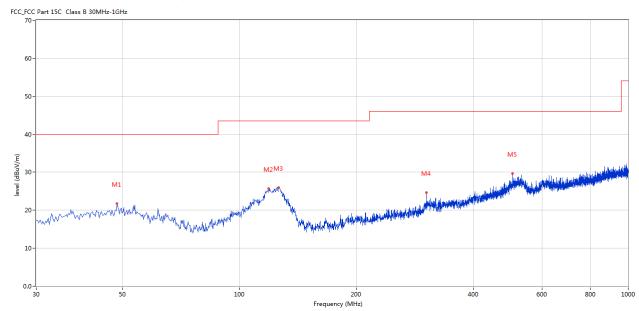
F. General Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (o) | (cm) | | |
| 1 | 48.425 | 21.72 | -11.22 | 40.0 | -18.28 | Peak | 87.00 | 100 | Vertical | Pass |
| 2 | 118.975 | 25.72 | -15.06 | 43.5 | -17.78 | Peak | 193.00 | 100 | Vertical | Pass |
| 3 | 126.006 | 25.95 | -16.48 | 43.5 | -17.55 | Peak | 138.00 | 100 | Vertical | Pass |
| 4 | 302.744 | 24.64 | -10.98 | 46.0 | -21.36 | Peak | 19.00 | 100 | Vertical | Pass |
| 5 | 504.211 | 29.69 | -7.07 | 46.0 | -16.31 | Peak | 19.00 | 100 | Vertical | Pass |

Note: Coil 1+ Coil 2 operation

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7.0 20dB Bandwidth Testing

7.1 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

7.3 Test Data

Coil 1 operation

| Frequency (MHz) | 20dB Bandwidth Emission (kHz) | Limit (kHz) | Result |
|-----------------|-------------------------------|-------------|--------|
| 0.175 | 3.382 | | Pass |

Coil 2 operation

| Frequency (MHz) | 20dB Bandwidth Emission (kHz) | Limit (kHz) | Result |
|-----------------|-------------------------------|-------------|--------|
| 0.175 | 3.332 | 1 | Pass |

Refer to attached plots:

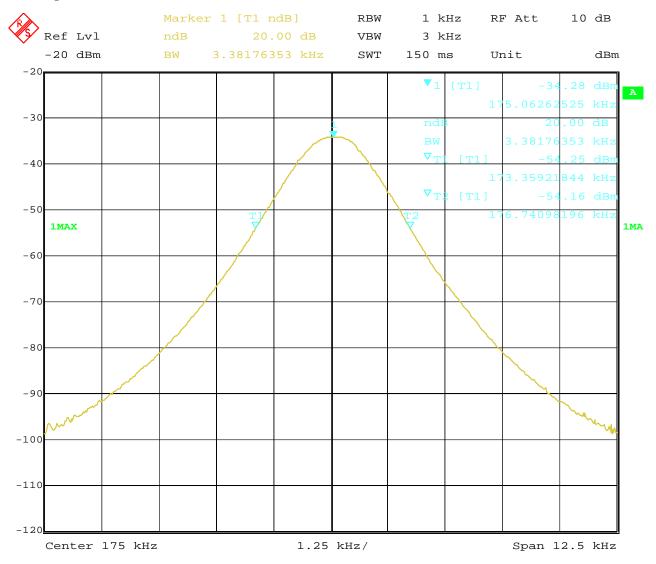
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20dB Bandwidth

Coil 1 operation



Date: 6.FEB.2023 15:40:42

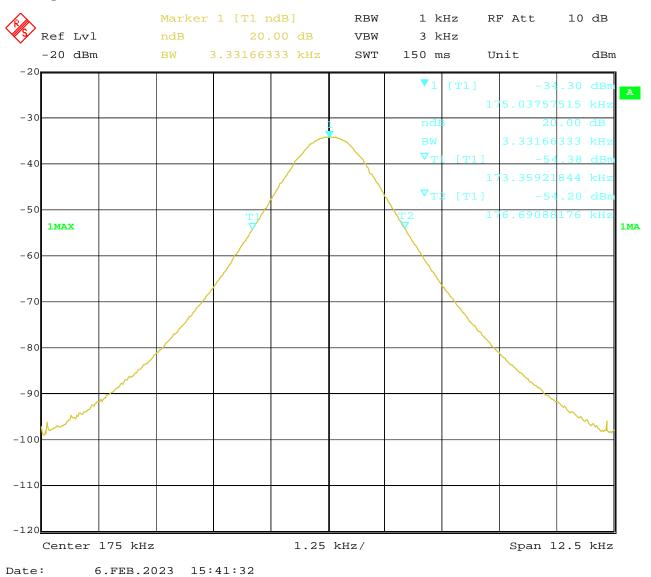
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Date: 2023-02-06



20dB Bandwidth

Coil 2 operation



Date:

Date: 2023-02-06



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8.0 Antenna Requirement

8.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

8.2 Antenna Connected constructions

The antennas are Inductive Loop Antennas. The antenna gain is 0dBi for each one. So it meets the requirement of 15.203

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9.0 FCC ID Label

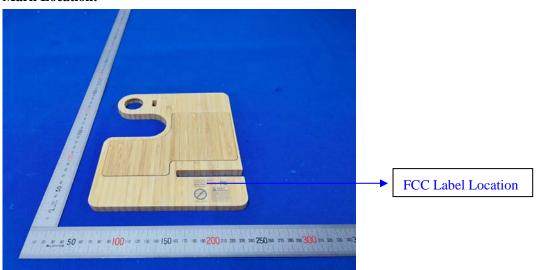
FCC ID: 2APYY-AB0402

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

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



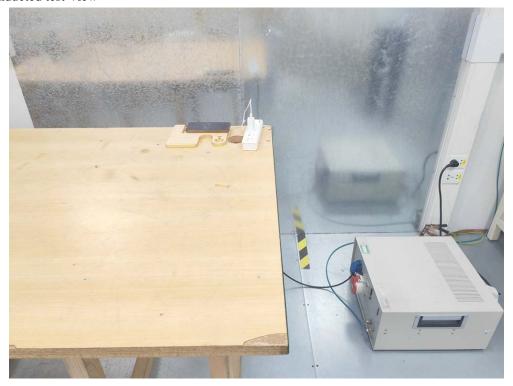
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10.0. Photo of testing

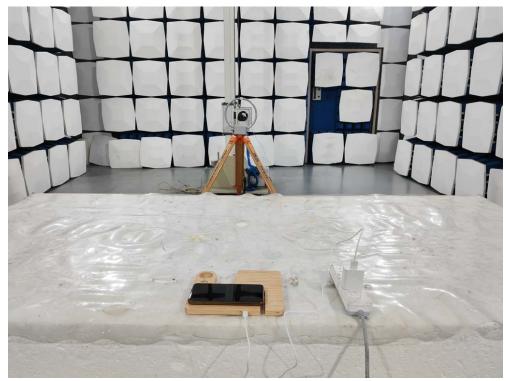
10.1 Conducted test View



Date: 2023-02-06



10.2 Radiated emission test view





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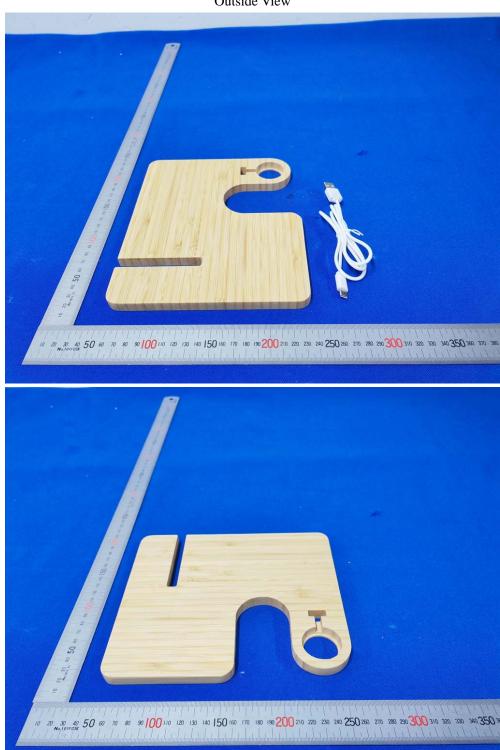
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Date: 2023-02-06



Photographs - EUT

Outside View



The report refers only to the sample tested and does not apply to the bulk.

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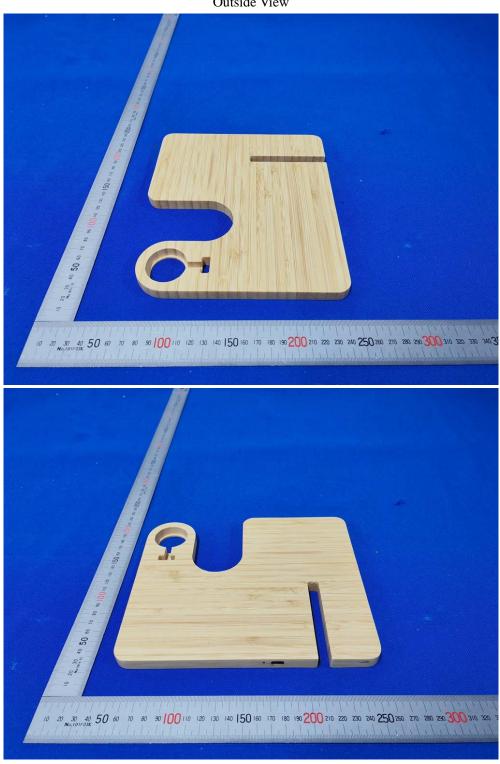
discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Date: 2023-02-06



Outside View



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Date: 2023-02-06



Outside View



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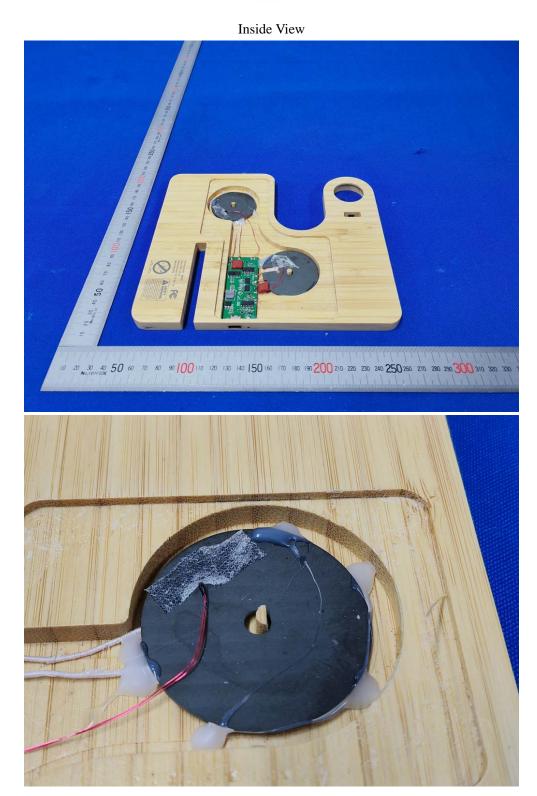
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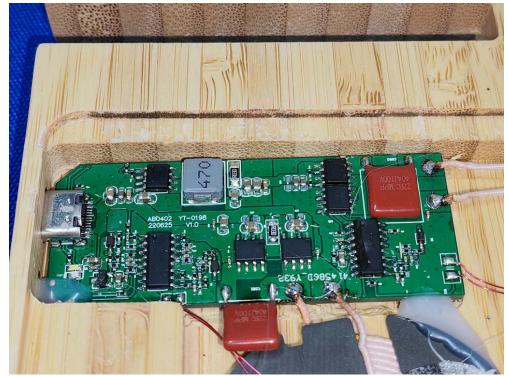
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Inside View





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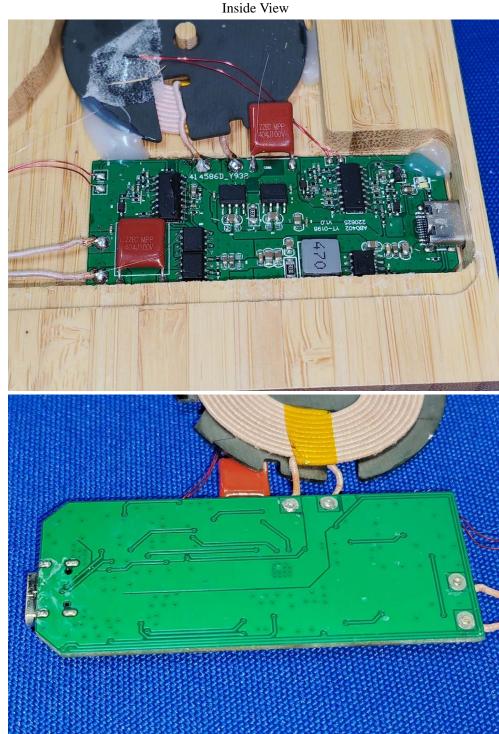
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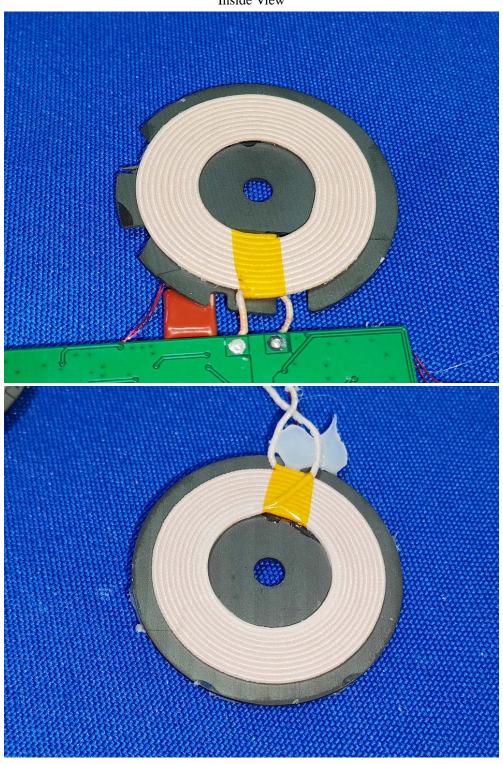
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Inside View



-End of the report-

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