

TEST REPORT

Product Name : Long Distance Wireless Charger

Model Number : QI30

FCC ID : 2ARK8-QI30

Prepared for : Loctek Ergonomic Technology Corp

Address : 588 Qihang South Road Binhai Industrial Zone Yinzhou

District Ningbo, Zhejiang 315145 P.R. China

Prepared by : EMTEK (SHENZHEN) CO., LTD.

Address : Building69, Majialong Industry Zone, Nanshan District,

Shenzhen, Guangdong, China

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Report Number : ES200610009W01

Date(s) of Tests : July 02, 2020 to August 03, 2020

Date of issue : August 04, 2020

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TEST REPORT DESCRIPTION

Applicant : Loctek Ergonomic Technology Corp

Address : 588 Qihang South Road Binhai Industrial Zone Yinzhou District Ningbo,

Zhejiang 315145 P.R. China.

Manufacturer : Loctek Ergonomic Technology Corp

Address : 588 Qihang South Road Binhai Industrial Zone Yinzhou District Ningbo,

Zhejiang 315145 P.R. China.

EUT : Long Distance Wireless Charger

Model Name : QI30

Trademark : N/A

We hereby certify that:

Date of Test

The above equipment was tested by EMTEK (NINGBO) 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 the requirements of FCC Rules Part 15C

July 02, 2020 to August 03, 2020

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

Prepared by : Sewen Guo /Editor

Reviewer : Joe Xia/Supervisor

Approved & Authorized Signer : Lisa Wang/Manager

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Modified Information

| Version | Report No. | Revision Data | Summary |
|---------|----------------|---------------|------------------|
| Ver.1.0 | ES200610009W01 | 1 | 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 : Long Distance Wireless Charger

Model Number : QI30

Power Rating : Input : DC 24~36V

Output: Wireless charge 5W/10W

Modulation: ASK

Operation Frequency:

for WPT

110KHz-175KHz

Maximum Power Rate : 77.59 dBuV/m

Antenna Type: : Induction Coil antenna

Antenna Gain: 0 dBi

Date of Test : July 02, 2020 to August 03, 2020

2.2. Input / Output Ports

| Port # | Name | Type* | Cable Max. >3m | Cable Shielded | Comments |
|-----------|---------|-------|-------------------|-------------------|----------|
| 1 | AC port | AC | No | N/A | None |
| 2 | Type-C | DC | No | N/A | None |

^{*} 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

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2.3. Independent Operation Modes

1. Wireless Charging(Full load)

2. ON

2.4. Test Manner

| Test Items | Test Voltage | Operation Modes | |
|--------------------|--------------|-----------------|--|
| Conducted Emission | AC 120V/60Hz | Mode A.1 | |
| Radiated Emission | AC 120V/60Hz | Mode A.1 | |

2.5. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2018.11.30

The certificate is valid until 2022.10.28

The Laboratory has been assessed and proved to be in compliance

with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

The Certificate Registration Number is L2291

Accredited by FCC, August 09, 2018

Designation Number: CN1204

Test Firm Registration Number: 882943 Accredited by A2LA, August 08, 2018

The Certificate Registration Number is 4321.01

Accredited by Industry Canada, November 09, 2018 The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK(SHENZHEN) CO., LTD.

Site Location : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen,

Guangdong, China



2.6. Description of Support Device

| No. | Equipment | Trade name | Model | S/N | Power Cord |
|-----|------------------------------|------------|-----------------|-----|------------|
| 1 | AC/DC Switching Power Supply | 1 | W52RA198-290018 | 1 | / |

2.7. Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Parameter | Uncertainty |
|--------------------------|-------------|
| Radio Frequency | ±1x10^-5 |
| Conducted Emissions Test | ±2.0dB |
| Radiated Emission Test | ±2.0dB |
| Occupied Bandwidth Test | ±1.0dB |
| Temperature | ±0.5°C |
| Humidity | ±3% |

Measurement Uncertainty for a level of Confidence of 95%



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 | 05/18/2020 | 05/17/2021 |
| L.I.S.N. | Schwarzbeck | NNLK8129 | 8129203 | 05/18/2020 | 05/17/2021 |
| 50Ω Coaxial Switch | Anritsu | MP59B | M20531 | 05/18/2020 | 05/17/2021 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100006 | 05/18/2020 | 05/17/2021 |
| Voltage Probe | Rohde & Schwarz | TK9416 | N/A | 05/18/2020 | 05/17/2021 |
| I.S.N | Rohde & Schwarz | ENY22 | 1109.9508.02 | 05/18/2020 | 05/17/2021 |

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 | t Receiver Rohde & Schwarz ESU 130 | | 1302.6005.26 | 05/18/2020 | 05/17/2021 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | 1519-012 | 05/18/2020 | 05/17/2021 |
| Cable | | 3M SF104-26.5 | 295838/4 | 05/18/2020 | 05/17/2021 |
| Cable | | 6M SF104-26.5 | 295840/4 | 05/18/2020 | 05/17/2021 |

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 | 05/18/2020 | 05/17/2021 |
| Pre-Amplifier | HP | 8447F | 2944A07999 | 05/18/2020 | 05/17/2021 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 142 | 05/18/2020 | 05/17/2021 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170399 | 05/18/2020 | 05/17/2021 |
| Horn Antenna | Schwarzbeck | BBHA 9120 | D143 | 05/18/2020 | 05/17/2021 |
| Cable | Schwarzbeck | AK9513 | ACRX1 | 05/18/2020 | 05/17/2021 |
| Cable | Rosenberger | N/A | FP2RX2 | 05/18/2020 | 05/17/2021 |
| Cable Schwarzbeck A | | AK9513 | CRPX1 | 05/18/2020 | 05/17/2021 |
| | | AK9513 | CRRX2 | 05/18/2020 | 05/17/2021 |

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4. 20DB BANDWIDTH

4.1. Test Procedure

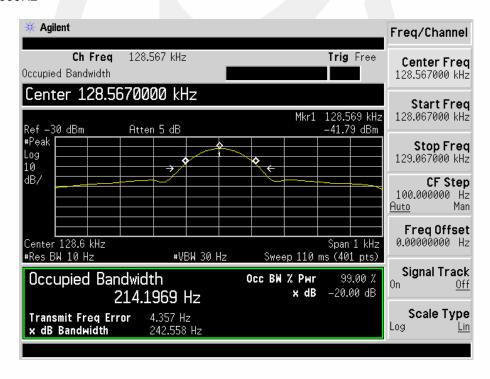
Set to the maximum power setting and enable the EUT transmit continuously Set RBW =1%-5%OBW
Set the video bandwidth (VBW) =3*RBW
Set Span= 1KHz
Set Detector = Peak.
Set Trace mode = max hold.
Set Sweep = auto couple.
Measure and record the results in the test report.

4.2. Test Results

Temperature: 24° C Test Date: July 3, 2020

Humidity: 53 % Test By: XW

20dB Band=242.558Hz

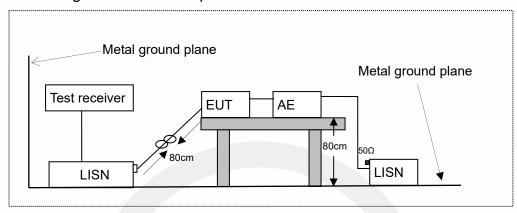


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5. POWER LINE CONDUCTED EMISSION MEASUREMENT

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

| F | reque | псу | Limit (| (dBμV) |
|------|-------|-------|------------------|---------------|
| | (MHz | 2) | 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 $1.5 \text{ m} \times 1.0 \text{ m}$.

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.

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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

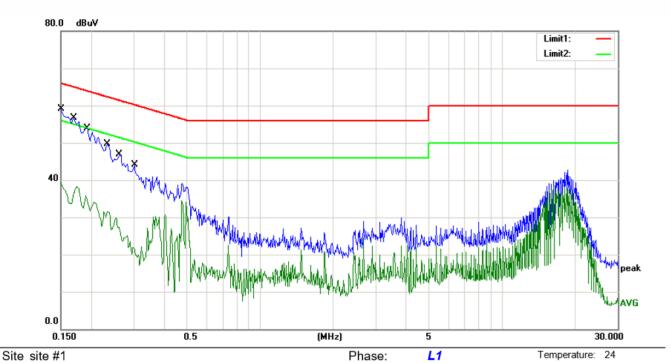
Pass.

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Humidity:

50 %



Power: AC 120V/60Hz

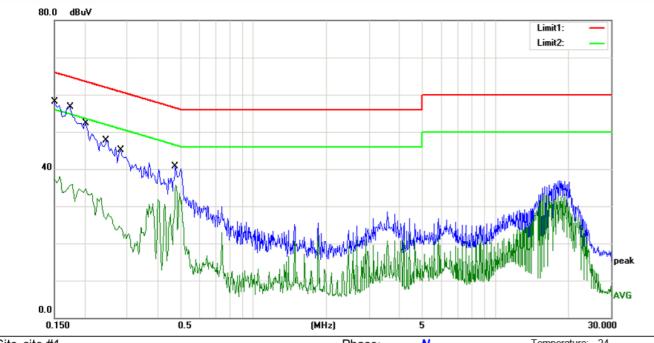
Limit: (CE)FCC PART 15.207_QP

Mode: Full Load

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1500 | 49.00 | 10.10 | 59.10 | 66.00 | -6.90 | QP | |
| 2 | | 0.1500 | 29.20 | 10.10 | 39.30 | 56.00 | -16.70 | AVG | |
| 3 | | 0.1700 | 46.50 | 10.09 | 56.59 | 64.96 | -8.37 | QP | |
| 4 | | 0.1700 | 26.50 | 10.09 | 36.59 | 54.96 | -18.37 | AVG | |
| 5 | | 0.1944 | 42.80 | 10.09 | 52.89 | 63.85 | -10.96 | QP | |
| 6 | | 0.1944 | 23.60 | 10.09 | 33.69 | 53.85 | -20.16 | AVG | |
| 7 | | 0.2340 | 39.60 | 10.09 | 49.69 | 62.31 | -12.62 | QP | |
| 8 | | 0.2340 | 21.40 | 10.09 | 31.49 | 52.31 | -20.82 | AVG | |
| 9 | | 0.2644 | 36.60 | 10.09 | 46.69 | 61.29 | -14.60 | QP | |
| 10 | | 0.2644 | 15.50 | 10.09 | 25.59 | 51.29 | -25.70 | AVG | |
| 11 | | 0.3020 | 34.00 | 10.08 | 44.08 | 60.19 | -16.11 | QP | |
| 12 | | 0.3020 | 10.80 | 10.08 | 20.88 | 50.19 | -29.31 | AVG | |
| | | | | | | | | | |





Site site #1 Phase: N Temperature: 24
Limit: (CE)FCC PART 15.207_QP Power: AC 120V/60Hz Humidity: 50 %

Mode: Full Load

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1500 | 48.00 | 10.07 | 58.07 | 66.00 | -7.93 | QP | |
| 2 | | 0.1500 | 27.30 | 10.07 | 37.37 | 56.00 | -18.63 | AVG | |
| 3 | | 0.1740 | 46.60 | 10.08 | 56.68 | 64.77 | -8.09 | QP | |
| 4 | | 0.1740 | 25.60 | 10.08 | 35.68 | 54.77 | -19.09 | AVG | |
| 5 | | 0.2020 | 42.20 | 10.08 | 52.28 | 63.53 | -11.25 | QP | |
| 6 | | 0.2020 | 24.30 | 10.08 | 34.38 | 53.53 | -19.15 | AVG | |
| 7 | | 0.2460 | 37.50 | 10.08 | 47.58 | 61.89 | -14.31 | QP | |
| 8 | | 0.2460 | 16.50 | 10.08 | 26.58 | 51.89 | -25.31 | AVG | |
| 9 | | 0.2820 | 34.90 | 10.09 | 44.99 | 60.76 | -15.77 | QP | |
| 10 | | 0.2820 | 14.00 | 10.09 | 24.09 | 50.76 | -26.67 | AVG | |
| 11 | | 0.4740 | 30.60 | 10.11 | 40.71 | 56.44 | -15.73 | QP | |
| 12 | | 0.4740 | 24.00 | 10.11 | 34.11 | 46.44 | -12.33 | 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.
- 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

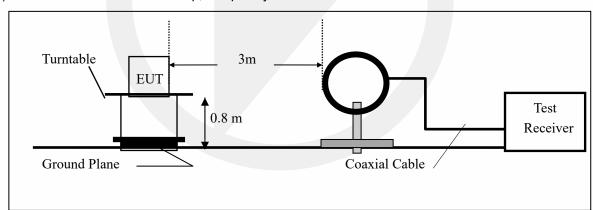
VBW ≥ 3*RBW Sweep = auto

Detector function = QP

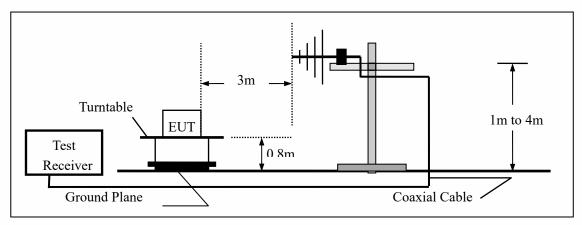
Trace = max hold

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



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6.3. 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 | | | | | | | | |
|-----------------|----------------|------|--|-------------------------|--|--|--|--|
| | Field Streng | gth | Field Strength Limitation Frequency tion at 3m | | | | | |
| Frequency | Limitation |] | Meas | urement Dist | | | | |
| (MHz) | (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 |
| 10.495-0.505 | 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 | 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) |
| 13.36-13.41 | | | |
| | | | |

- 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
 - 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

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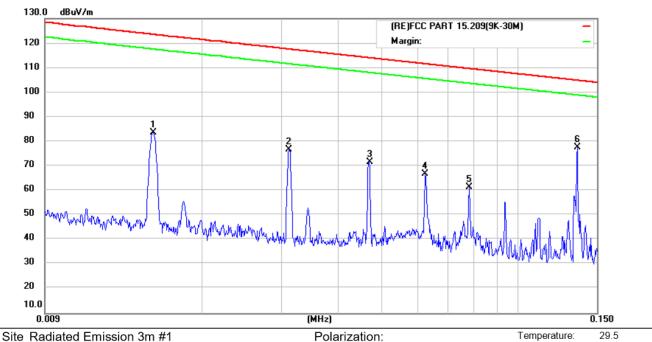


Humidity:

48 %

6.4. Measurement Result

9KHz-150KHz:



Site Radiated Emission 3m #1

Limit: (RE)FCC PART 15.209(9K-30M)

Mode:Full Load

Note:

| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|---------|--------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | 0.0156 | 62.91 | 20.74 | 83.65 | 123.56 | -39.91 | peak | | | |
| 2 | 0.0312 | 55.81 | 20.84 | 76.65 | 117.57 | -40.92 | peak | | | |
| 3 | 0.0470 | 50.60 | 21.10 | 71.70 | 114.04 | -42.34 | peak | | | |
| 4 | 0.0625 | 46.23 | 20.75 | 66.98 | 111.58 | -44.60 | peak | | | |
| 5 | 0.0781 | 40.95 | 20.42 | 61.37 | 109.65 | -48.28 | peak | | | |
| 6 * | 0.1356 | 56.74 | 20.85 | 77.59 | 104.89 | -27.30 | peak | | | |

Power: AC 120V/60Hz

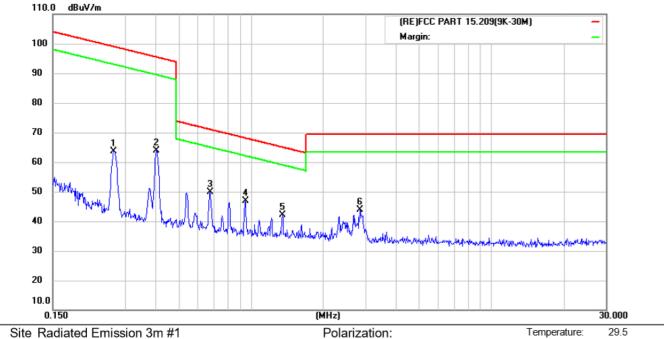
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Humidity:

48 %

150KHz-30MHz:



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15.209(9K-30M)

Mode:Full Load

Note:

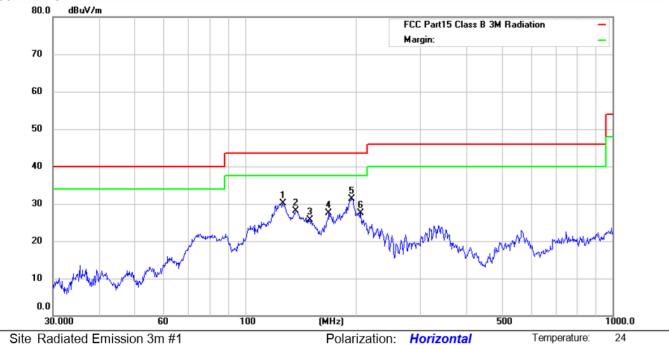
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|---------|--------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | 0.2686 | 42.65 | 21.05 | 63.70 | 98.99 | -35.29 | peak | | | |
| 2 | 0.4040 | 42.79 | 21.05 | 63.84 | 95.47 | -31.63 | peak | | | |
| 3 * | 0.6753 | 28.96 | 20.99 | 49.95 | 71.02 | -21.07 | QP | | | |
| 4 | 0.9481 | 25.81 | 20.96 | 46.77 | 68.08 | -21.31 | QP | | | |
| 5 | 1.3521 | 21.39 | 20.85 | 42.24 | 65.01 | -22.77 | QP | | | |
| 6 | 2.8389 | 23.37 | 20.43 | 43.80 | 69.50 | -25.70 | QP | | | |



55 %

Humidity:

30MHz-1GHz:



Power: AC 120V/60Hz

L. ... ----

Limit: FCC Part15.209

Mode:Full Load

Note:

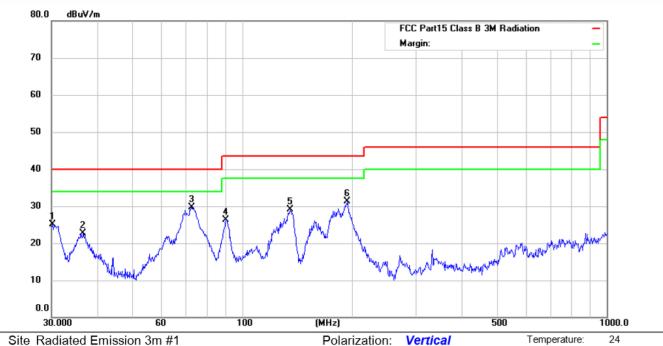
| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 126.7723 | 56.08 | -25.88 | 30.20 | 43.50 | -13.30 | QP | | | |
| 2 | | 137.4202 | 55.63 | -27.43 | 28.20 | 43.50 | -15.30 | QP | | | |
| 3 | | 150.0108 | 52.03 | -26.23 | 25.80 | 43.50 | -17.70 | QP | | | |
| 4 | | 169.0053 | 54.31 | -26.71 | 27.60 | 43.50 | -15.90 | QP | | | |
| 5 | * | 195.1363 | 54.46 | -23.06 | 31.40 | 43.50 | -12.10 | QP | | | |
| 6 | | 206.3975 | 51.14 | -23.64 | 27.50 | 43.50 | -16.00 | QP | | | |

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Humidity:

55 %



Power: AC 120V/60Hz

Site Radiated Emission 3m #1

Limit: FCC Part15.209

Mode:Full Load

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 30.2111 | 50.71 | -25.61 | 25.10 | 40.00 | -14.90 | QP | | | |
| 2 | | 36.6374 | 46.39 | -23.59 | 22.80 | 40.00 | -17.20 | QP | | | |
| 3 | * | 72.8466 | 56.19 | -26.49 | 29.70 | 40.00 | -10.30 | QP | | | |
| 4 | | 90.2204 | 51.14 | -24.74 | 26.40 | 43.50 | -17.10 | QP | | | |
| 5 | | 135.5061 | 56.35 | -27.25 | 29.10 | 43.50 | -14.40 | QP | | | |
| 6 | | 194.4534 | 54.39 | -23.09 | 31.30 | 43.50 | -12.20 | QP | | | |

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7. ANNTENNA APPLICATION

7.1. Antenna Requirement

| 7.1. Antenna Nequir | |
|---------------------|--|
| Standard | Requirement |
| FCC CRF Part 15.203 | 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 §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 §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. |

For intentional device, according to FCC 47 CFR Section 15.203, 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.

7.2. Result

Pass

| Note: The EUT has 1 antenna: The internal antenna gain is 0 dBi; |
|--|
| Antenna use a permanently attached antenna which is not replaceable. Not using a standard antenna jack or electrical connector for antenna replacement The antenna has to be professionally installed (please provide method of installation which in accordance to section 15.203, please refer to the internal photos. |
| |

*** End of Report ***

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