

**CLASS II PERMISSIVE CHANGE
TEST REPORT**

Report Number: 104058883MPK-001
Project Numbers: G104058883, G104323265
Original Issue Date: September 09, 2019
Revision Issue Date: May 06, 2020


Product Designation: Remote Control for Ceiling Fan
Model Tested: K6019-01, K6266-02
**Model(s) Not Tested but declared equivalent
by the client:** K6266-03, K6266-04, K6019-04
K5580-01, K5580-02, K5580-03, K5580-04, K6266-13

FCC ID: IN2TX45
IC: 3558A-TX45
to
FCC CFR47 Part 15 Subpart C (15.231)
Industry Canada RSS-210 Issue 9
FCC Part 15, Subpart B
Industry Canada ICES-003


**For
Hunter Fan Company**

Test Performed by:
Intertek
1365 Adams Court
Menlo Park, CA 94025 USA

Test Authorized by:
Hunter Fan Company
545 E. Algonquin Road
Arlington Heights, Illinois 60005 USA

Prepared by: 
Gerardo Narvaez

Date: September 09, 2019

Reviewed by: 
Krishna Vemuri

Date: September 09, 2019

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| Report No. 104058883MPK-001 | |
|---|--|
| Equipment Under Test: | Remote Control for Ceiling Fan |
| Trade Name: | Hunter Fan Company |
| Model Tested: | K6019-01, K6266-02 |
| Model(s) Not Tested but declared equivalent by the client: | K6266-03, K6266-04, K6019-04, K5580-01, K5580-02, K5580-03, K5580-04, K6266-13 |
| Serial Number: | 09055 (K6019-01 Continuous Tx), 09168 (K6019-01 Normal), 15465 (K6266-02 Continuous Tx), 15468 (K6266-02 Normal) |
| Applicant: | Hunter Fan Company |
| Contact: | Julian Martin |
| Address: | Hunter Fan Company 545 E. Algonquin Road Arlington Heights, Illinois 60005 |
| Country: | USA |
| Tel. Number: | (901) 248-2810 |
| Email: | jmartin@hunterfan.com |
| Applicable Regulation: | FCC 47 CFR PT 15.231, Industry Canada RSS-210 Issue 9, FCC Part 15, Subpart B, Industry Canada ICES-003 Issue 6 |
| Test Site Location: | ITS – Site 1 1365 Adams Drive Menlo Park, CA 94025 |
| Date(s) of Test: | August 25-26, 2019 |

We attest to the accuracy of this report: (Revision 1.0 and 2.0):

| | | |
|--|---|---|
|  Aaron Chang EMC Project Engineer |  Hung Huynh Engineer |  Krishna K Vemuri Engineering Team Lead |
|--|---|---|

We attest to the accuracy of this report (Revision 3.0):


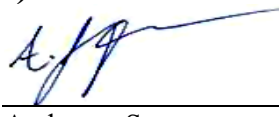
| | |
|--|--|
|  Gerardo Narvaez EMC Project Engineer |  Anderson Soungpanya EMC Team Leader |
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1.0 Summary of Tests

| TEST | REFERENCE FCC 15.231 | REFERENCE RSS-210 | RESULTS |
|--|-------------------------|----------------------|-----------------------------|
| Field Strength Of Fundamental | 15.231(b) | RSS-210, A.1.2(a) | Complies |
| Transmitter Radiated Emissions | 15.231(b) | RSS-210, A.1.2(a) | Complies |
| Line Conducted Emissions | 15.207 | RSS-GEN | Not Applicable ² |
| Radiated Emission from Digital Part and Receiver | 15.109 | ICES 003 | Complies |
| AC Line Conducted Emission | 15.107 | ICES 003 | Not Applicable ² |
| Antenna Requirement | 15.203 | RSS-GEN | Complies ¹ |

¹ EUT utilizes an internal Antenna.

² EUT is battery powered.

2.0 General Description

2.1 Product Description

Hunter Fan Company supplied the following description of the EUT:

The EUT was a handheld wireless transmitter used for remote control of a ceiling fan and light assembly.

For more information, refer to the following product specification, declared by the manufacturer.

| Overview of the EUT | |
|--------------------------------------|--|
| Applicant name & address: | Hunter Fan Company 545 E. Algonquin Road Arlington Heights, Illinois 60005 USA |
| Contact info / Email: | Julian Martin / jmartin@hunterfan.com |
| Model: | K6019-01, K6266-02, K6266-03, K6266-04, K6019-04 |
| FCC Identifier: | IN2TX45 |
| IC Identifier: | 3558A-TX45 |
| Operating Frequency: | 433.94 MHz |
| Number of Channels: | 1 |
| Type of Modulation: | ASK |
| Antenna Type: | Permanent PCB Trace |

EUT receive date: August 25, 2019
EUT receive condition: The EUT was received in good condition with no apparent damage. As declared by the Applicant it is identical to the production units.
Test start date: August 25, 2019
Test completion date: August 26, 2019

Variant Models:

The following variant models were not tested as part of this evaluation but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

- K6266-03: identical as K6266-02 with Casablanca branding
- K6266-04: identical as K6266-02 with a different brand of battery per customer requirements
- K6019-04: identical as K6019-01 but manufacture at new facility
- K5580-01, K5580-02, K5580-03, K5580-04, K6266-13: identical to K6266-02. Existing remotes without mounting cradles

2.2 Related Submittal(s) Grants

None

2.3 Test Methodology

Radiated emissions and AC mains conducted emissions measurements were performed according to the procedures in ANSI C63.10: 2013, ANSI C63.4-2014, RSS-210 Issue 9, RSS-GEN Issue 5. Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Data Sheet" of this report

2.4 Test Facility

The radiated emission test site and conducted measurement facility used to collect the data is 10m semi-anechoic chamber located in Menlo Park, California. This test facility and site measurement data have been fully placed on file with the FCC and Industry Canada (Site # 2042L-1).

3.0 System Test Configuration

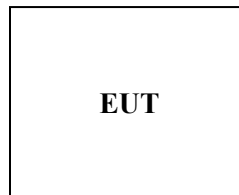
3.1 Support Equipment and description

No support equipment was used for testing.

3.2 Block Diagram of Test Setup

| Equipment Under Test | | | |
|----------------------|--------------------|--------------|--------------------------------|
| Description | Manufacturer | Model Number | Serial Number |
| Ceiling Fan Remote | Hunter Fan Company | K6019-01 | 09055 (K6019-01 Continuous Tx) |
| | | | 09168 (K6019-01 Normal) |
| | | K6266-02 | 15465 (K6266-02 Continuous Tx) |
| | | | 15468 (K6266-02 Normal) |

The diagram shown below details the interconnection of the EUT and support equipment. For specific layout, refer to the test configuration photograph in the relevant section of this report.



| | |
|--|--|
| S = Shielded U = Unshielded | F = With Ferrite m = Length in Meters |
|--|--|

3.3 Justification

For radiated emission measurements the EUT is placed on a non-conductive table.

Class II permissive change testing was performed based on:

K6019-01: identical as K5579-01 with different color and button shape

K6266-02: identical as K5579-01 with different shape

K6266-03: identical as K6266-02 with Casablanca branding

K6266-04: identical as K6266-02 with a different brand of battery per customer requirements

K6019-04: identical as K6019-01 but manufacture at new facility

3.4 Software Exercise Program

The EUT exercise program used during radiated and conducted testing was provided by Hunter Fan Company

3.5 Mode of Operation during test

During transmitter testing, the transmitter was setup to continuously transmit.

3.6 Modifications required for Compliance

No modifications were installed by Intertek Testing Services during compliance testing in order to bring the product into compliance.

3.7 Additions, deviations and exclusions from standards

No additions, deviations or exclusion have been made from standard.

4.0 Measurement Results

4.1 Fundamental Field Strength

4.1.1 Requirements

The field strength of emissions, measured at 3 meters, from intentional radiators operated under this section shall not exceed the following:

| Fundamental frequency (MHz) | Field strength of fundamental (microvolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------------|--|--|
| 40.66-40.70 | 2,250 | 225 |
| 70-130 | 1,250 | 125 |
| 130-174 | ¹ 1,250 to 3,750 | ¹ 125 to 375 |
| 174-260 | 3,750 | 375 |
| 260-470 | ¹ 3,750 to 12,500 | ¹ 375 to 1,250 |
| Above 470 | 12,500 | 1,250 |

¹Linear interpolations.

4.1.2 Procedure

Tests are performed in accordance with ANSI C63.10-2013.

The EUT was placed on a non-conducting table 80 cm (below 1 GHz) or 1.5 meters (above 1 GHz) above the ground plane (turntable). The antenna to EUT distance was 3 meters.

The transmitter configured to transmit continuously. The turntable containing the EUT was rotated through 360 degrees and the receive antenna height was varied from 1 to 4 meters to locate the worst-case emissions levels. Measurements were made with the antenna in both the horizontal and vertical polarizations. EUT was tested at horizontal and vertical orientations, the possible orientations used by the end users. The worst-case data is recorded in this report.

New or fully charged batteries were used during measurement.

4.1.3 Test Results

K6019-01:

| Frequency (MHz) | Measured Field Strength @3m dB(μ V/m) | Lim @3m dB(μ V/m) | Margin (dB) | Height (m) | Angle ($^{\circ}$) | Antenna Polarization | Correction (dB) | Detection |
|-----------------|--|------------------------|-------------|------------|----------------------|----------------------|-----------------|-----------|
| 433.940 | 62.62 | 80.8 | -18.18 | 4.00 | 288 | Vertical | -6.79 | QPK |

K6266-02:

| Frequency (MHz) | Measured Field Strength @3m dB(μ V/m) | Lim @3m dB(μ V/m) | Margin (dB) | Height (m) | Angle ($^{\circ}$) | Antenna Polarization | Correction (dB) | Detection |
|-----------------|--|------------------------|-------------|------------|----------------------|----------------------|-----------------|-----------|
| 433.940 | 62.64 | 80.8 | -18.16 | 2.50 | 233.5 | Horizontal | -6.79 | QPK |

| | |
|-------------------|-----------------|
| Results | Complies |
| Test date: | August 26, 2019 |

4.2 Transmitter Radiated Emissions
FCC Rules: 15.231, 15.209, 15.205; RSS-210;

4.2.1 Requirements

The field strength of emissions, measured at 3 meters, from intentional radiators operated under this section shall not exceed the following:

| Fundamental frequency (MHz) | Field strength of fundamental (microvolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------------|--|--|
| 40.66-40.70 | 2,250 | 225 |
| 70-130 | 1,250 | 125 |
| 130-174 | ¹ 1,250 to 3,750 | ¹ 125 to 375 |
| 174-260 | 3,750 | 375 |
| 260-470 | ¹ 3,750 to 12,500 | ¹ 375 to 1,250 |
| Above 470 | 12,500 | 1,250 |

¹Linear interpolations.

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

4.2.2 Procedure

Tests are performed according to the procedures in ANSI C63.10-2013.

The EUT was placed on a non-conducting table 80 cm (below 1 GHz) or 1.5 meters (above 1 GHz) above the ground plane (turntable). Radiated test was performed at an antenna to EUT distance of 3 meters.

The spectrum from 30 MHz to the 10th harmonic was investigated with the transmitter configured to continuously transmit. The turntable containing the EUT was rotated through 360 degrees and the receive antenna height was varied from 1 to 4 meters to locate the worst-case emissions levels. Measurements were made with the antenna in both the horizontal and vertical polarizations. EUT was tested at horizontal and vertical orientations, the possible orientations used by the end users. The worst-case data is recorded in this report.

New or fully charged batteries were used during measurement.

4.2.3 Field Strength Calculation

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$FS = RA + AF + CF - AG$; if measurement is performed at a distance other than specified in the rule, a Distance Correction Factor (DCF) shall be added.

Where FS = Field Strength in dB(μ V/m)

RA = Receiver Amplitude (including preamplifier) in dB(μ V); AF = Antenna Factor in dB(1/m)

CF = Cable Attenuation Factor in dB; AG = Amplifier Gain in dB

Assume a receiver reading of 52.0 dB(μ V) is obtained. The antennas factor of 7.4 dB(1/m) and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving field strength of 32 dB(μ V/m). This value in dB(μ V/m) was converted to its corresponding level in μ V/m.

RA = 52.0 dB(μ V)

AF = 7.4 dB(1/m)

CF = 1.6 dB

AG = 29.0 dB

$FS = 52.0 + 7.4 + 1.6 - 29.0 = 32$ dB(μ V/m).

Level in μ V/m = Common Antilogarithm [(32 dB μ V/m)/20] = 39.8 μ V/m.

4.2.4 Test Result

K6019-01:

| Frequency (MHz) | Measured Field Strength @3m (dBuV/m) | Limit @3m (dBuV/m) | Margin (dB) | Antenna Height (m) | Angle ° | Antenna Polarization | Correction | Detector |
|-----------------|--------------------------------------|--------------------|-------------|--------------------|---------|----------------------|------------|----------|
| 867.854 | 30.59 | 80.8 | -33.85 | 1.02 | 19.75 | Horizontal | -1.22 | QPK |
| 1301.867 | 45.58 | 74 | -28.42 | 2.51 | 0 | Vertical | -18.71 | PK |
| 1301.867 | 45.58 | 54 | -8.42 | 2.51 | 0 | Vertical | -18.71 | PK |
| 1301.733 | 43.22 | 74 | -30.78 | 1.02 | 0 | Horizontal | -18.71 | PK |
| 1301.733 | 43.22 | 54 | -10.78 | 1.02 | 0 | Horizontal | -18.71 | PK |
| 1735.867 | 44.33 | 74 | -29.67 | 1.01 | 84.5 | Vertical | -16.97 | PK |
| 1735.867 | 44.33 | 54 | -9.67 | 1.01 | 84.5 | Vertical | -16.97 | PK |
| 2169.867 | 30.13 | 74 | -43.87 | 2.51 | 326.75 | Vertical | -16.05 | PK |
| 2169.867 | 30.13 | 54 | -23.87 | 2.51 | 326.75 | Vertical | -16.05 | PK |

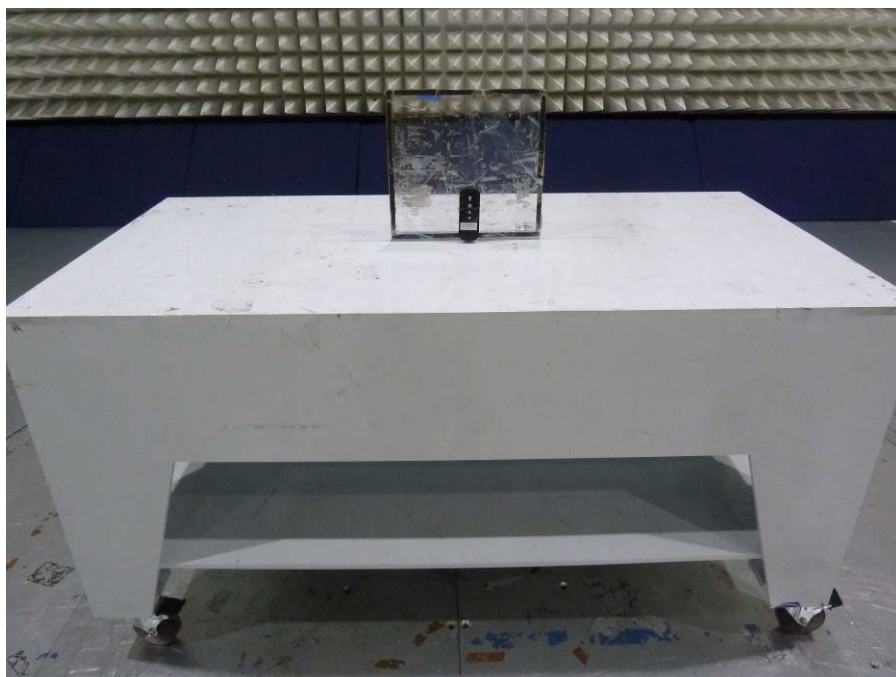
K6266-02:

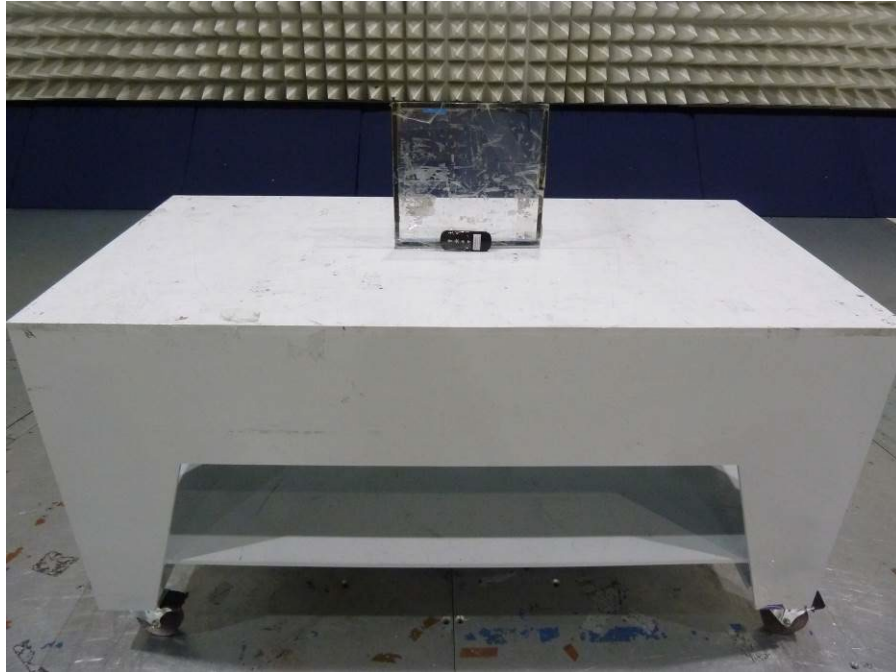
| Frequency (MHz) | Measured Field Strength @3m (dBuV/m) | Limit @3m (dBuV/m) | Margin (dB) | Antenna Height (m) | Angle ° | Antenna Polarization | Correction | Detector |
|-----------------|--------------------------------------|--------------------|-------------|--------------------|---------|----------------------|------------|----------|
| 867.854 | 41.26 | 80.8 | -39.54 | 0.99 | 314.75 | Horizontal | -1.22 | QPK |
| 1301.867 | 48.69 | 74 | -25.31 | 2.51 | 0 | Vertical | -18.71 | PK |
| 1301.867 | 48.69 | 54 | -5.31 | 2.51 | 0 | Vertical | -18.71 | PK |
| 1301.600 | 47.09 | 74 | -26.91 | 1.02 | 0 | Horizontal | -18.71 | PK |
| 1301.600 | 47.09 | 54 | -6.91 | 1.02 | 0 | Horizontal | -18.71 | PK |
| 1735.600 | 44.4 | 74 | -29.6 | 1.01 | 134 | Vertical | -16.98 | PK |
| 1735.600 | 44.4 | 54 | -9.6 | 1.01 | 134 | Vertical | -16.98 | PK |
| 2169.733 | 27.76 | 74 | -46.24 | 2.51 | 309.75 | Vertical | -16.06 | PK |
| 2169.733 | 27.76 | 54 | -26.24 | 2.51 | 309.75 | Vertical | -16.06 | PK |

| | |
|-------------------|---------------------------|
| Results | Complies |
| Test date: | August 25-26, 2019 |

4.1.5 Test Configuration Photographs

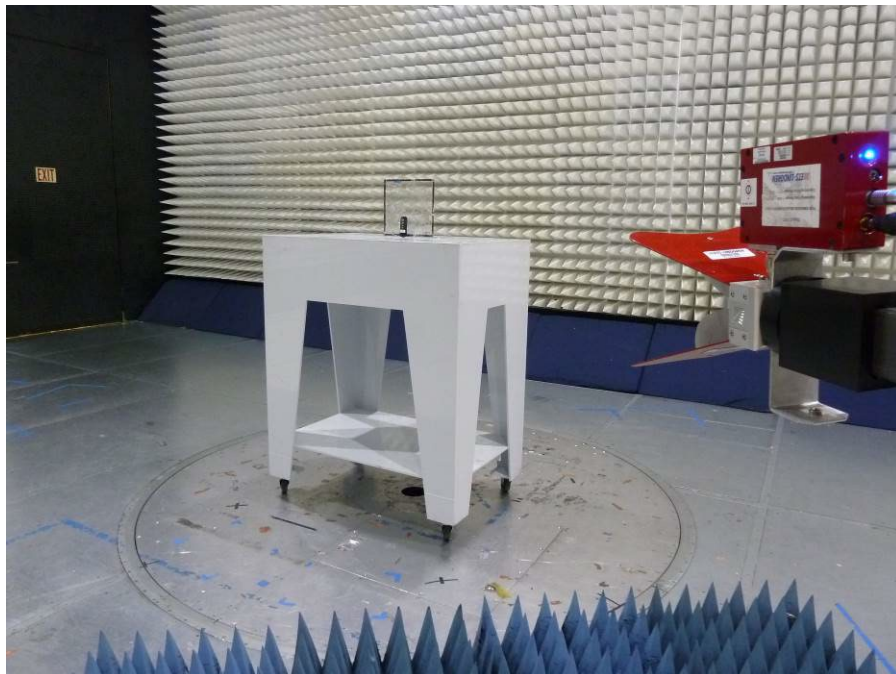
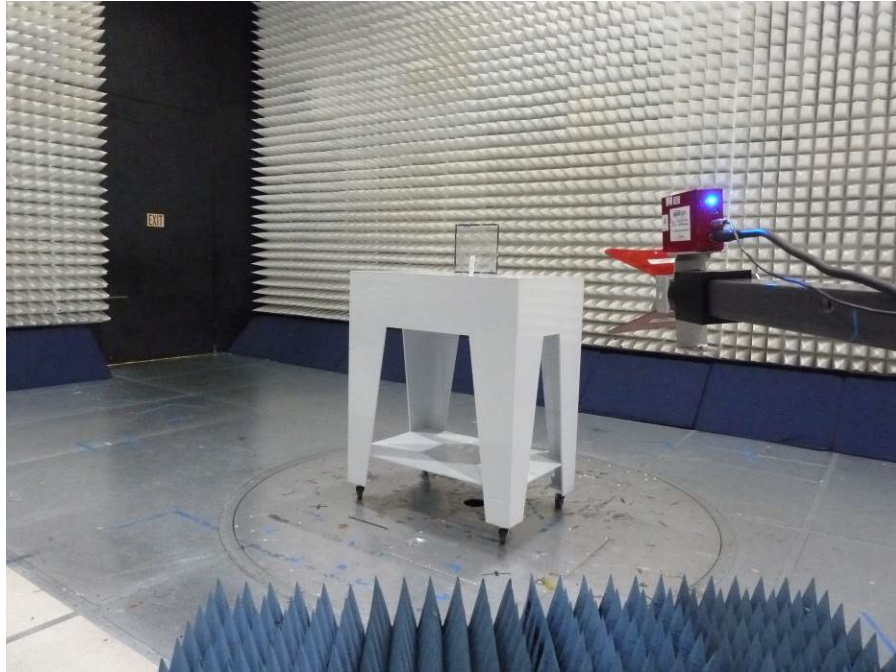
The following photographs show the testing configurations used.











4.3 Digital Parts Radiated Emissions
FCC Ref: 15.109, ICES 003

4.3.1 Requirements

Limits for Electromagnetic Radiated Emissions FCC Section 15.109(b), ICES 003, RSS GEN*

| Frequency (MHz) | Class A at 10m dB(μ V/m) | Class B at 3m dB(μ V/m) |
|-----------------|-------------------------------|------------------------------|
| 30-88 | 39 | 40.0 |
| 88-216 | 43.5 | 43.5 |
| 216-960 | 46.4 | 46.0 |
| Above 960 | 49.5 | 54.0 |

* According to FCC Part 15.109(g) an alternative to the radiated emission limits shown above, digital devices may be shown to comply with the limit of CISPR Pub. 22

4.3.2 Procedure

Measurements are conducted with a quasi-peak detector instrument in the frequency range of 30 MHz to 1000 MHz and with the average detector instrument in the frequency range above 1000 MHz. The measuring receiver meets the requirements of Section One of CISPR 16 and the measuring antenna correlates to a balanced dipole.

Measurements of the radiated field are made with the antenna located at a distance of 10 meters from the EUT. If the field-strength measurements at 10m cannot be made because of high ambient noise level or for other reasons, measurements of Class B equipment may be made at a closer distance, for example 3m. An inverse proportionality factor of 20 dB per decade should be used to normalize the measured data to the specified distance for determining compliance.

The antenna is adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth is varied during the measurement to find the maximum field-strength readings.

The antenna-to-EUT polarization (horizontal and vertical) is varied during the measurements to find the maximum field-strength readings.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for a larger EUT.

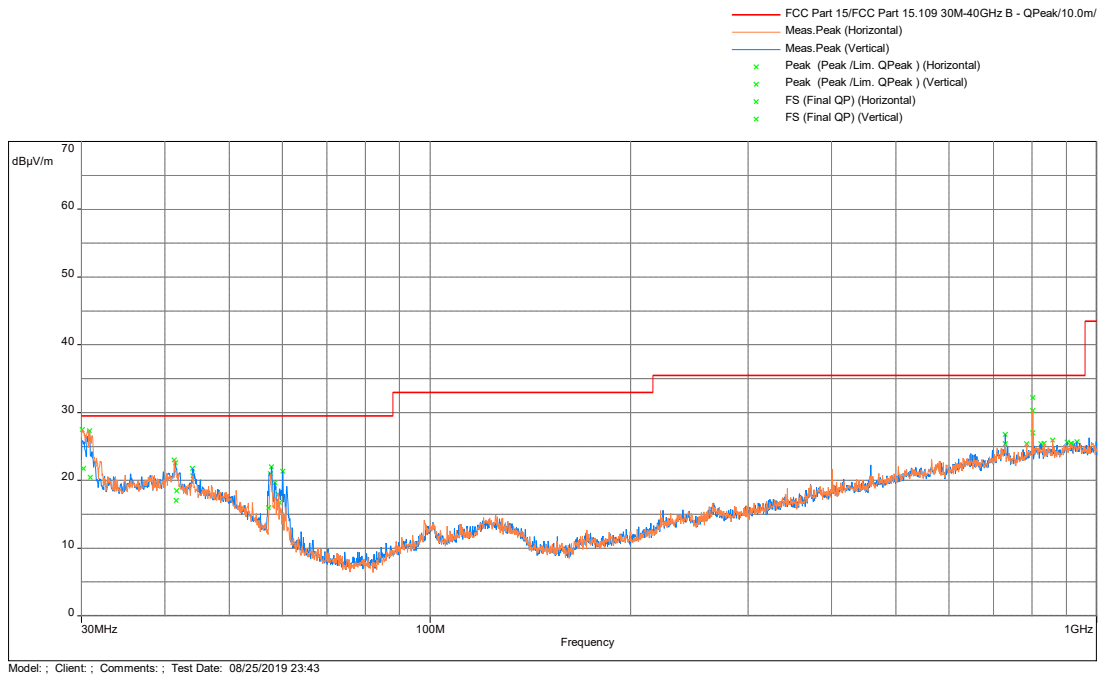
Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material.

Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4-2014.

4.3.4 Test Result

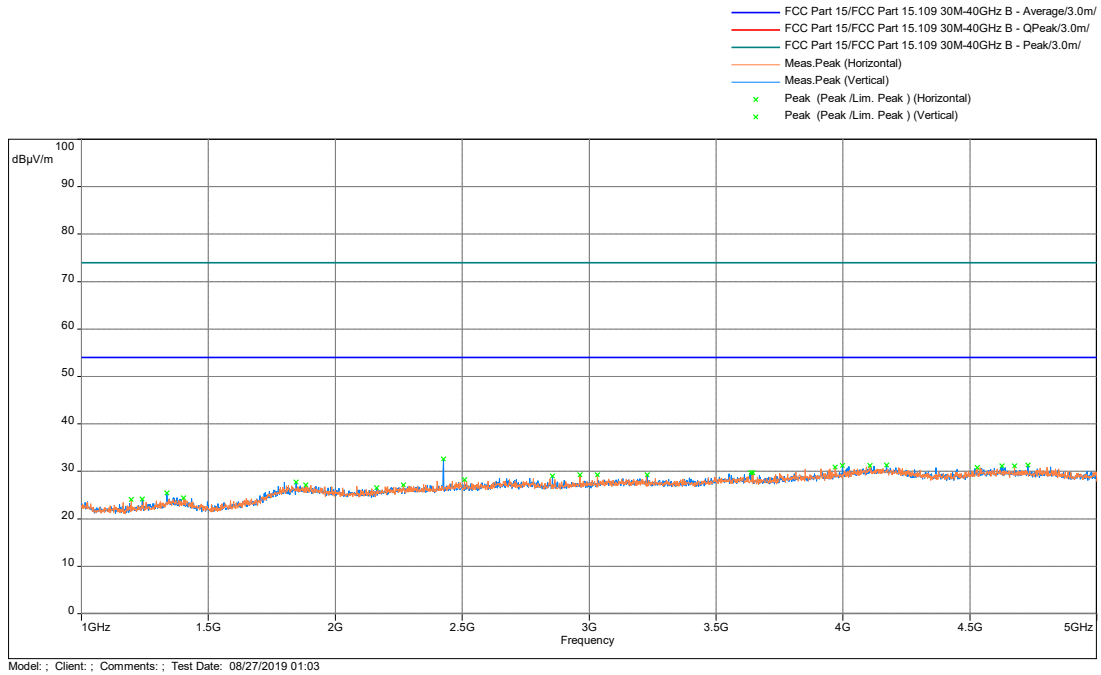
The EUT met the radiated disturbance requirements of FCC & ICES 003 for a Class B device.

15.109 Radiated Emissions 30 MHz – 1 GHz, Class B K6019-01

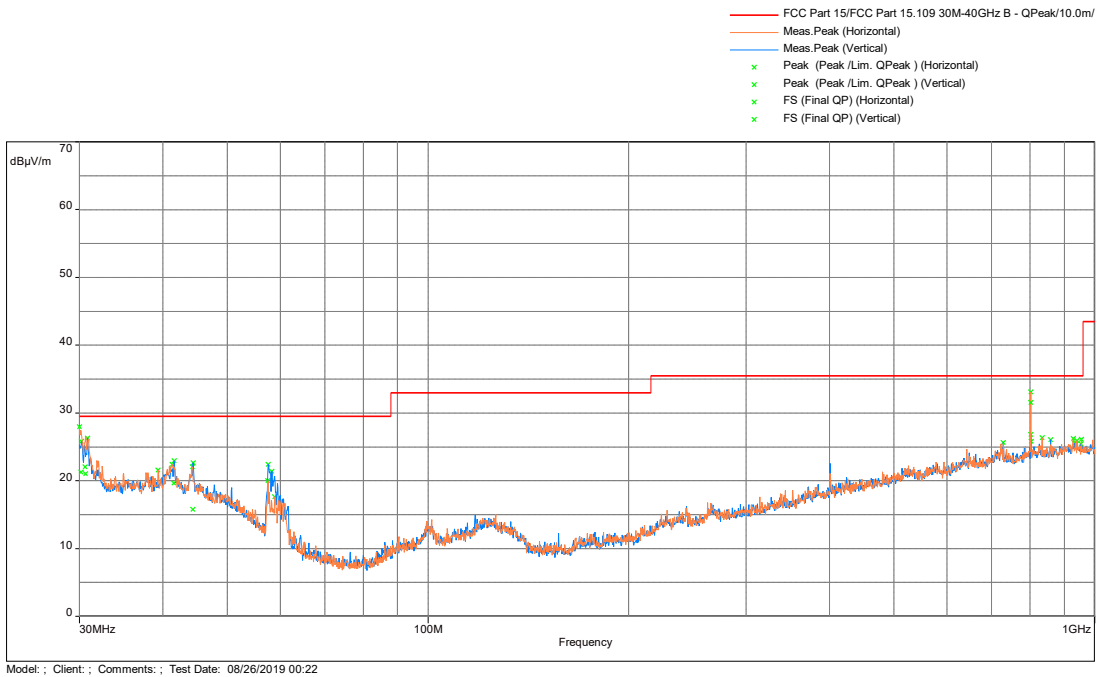


| Frequency (MHz) | QPeak@10m dB(µV/m) | Lim. QPeak dB(µV/m) | Margin (dB) | Angle (°) | Height (m) | Antenna Polarization | Correction (dB) |
|-----------------|--------------------|---------------------|-------------|-----------|------------|----------------------|-----------------|
| 30.238 | 21.76 | 29.5 | -7.74 | 314.25 | 1.58 | Horizontal | 28.47 |
| 30.945 | 20.46 | 29.5 | -9.04 | 40.5 | 4 | Vertical | 27.24 |
| 41.613 | 17.05 | 29.5 | -12.45 | 341.5 | 2.43 | Horizontal | 23.66 |
| 41.668 | 18.46 | 29.5 | -11.04 | 47.25 | 1.83 | Vertical | 25.08 |
| 57.295 | 15.96 | 29.5 | -13.54 | 43.5 | 3.41 | Vertical | 30.38 |
| 801.822 | 32.2 | 35.5 | -3.3 | 2 | 1.55 | Horizontal | 33.83 |

Radiated Emissions 1000 - 5000 MHz, Peak Scan vs Avg Limit

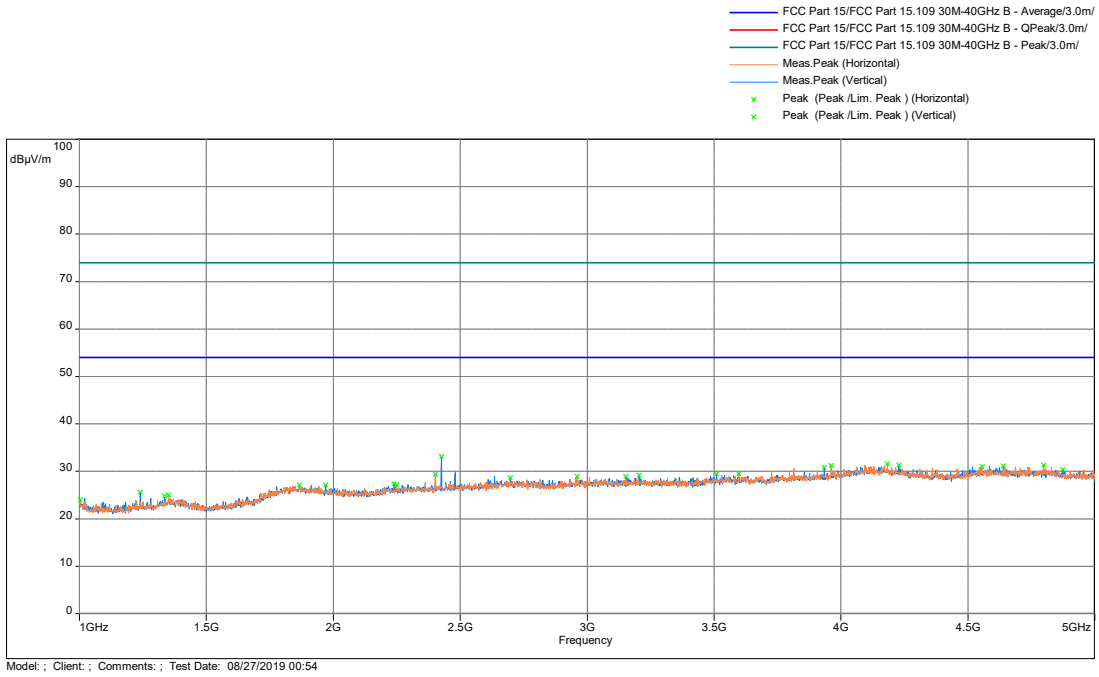


**15.109 Radiated Emissions 30 MHz – 1 GHz, Class B
K6266-02**



| Frequency (MHz) | QPeak@10m dB(µV/m) | Lim. QPeak dB(µV/m) | Margin (dB) | Angle (°) | Height (m) | Antenna Polarization | Correction (dB) |
|-----------------|--------------------|---------------------|-------------|-----------|------------|----------------------|-----------------|
| 30.160 | 21.26 | 29.5 | -8.24 | 11 | 2.19 | Horizontal | 27.96 |
| 30.612 | 22.06 | 29.5 | -7.44 | 80.75 | 3.84 | Vertical | 28.79 |
| 30.638 | 21.06 | 29.5 | -8.44 | 130.25 | 2.13 | Vertical | 27.83 |
| 41.572 | 19.67 | 29.5 | -9.83 | 252.5 | 1.85 | Vertical | 26.27 |
| 44.372 | 15.75 | 29.5 | -13.75 | 206.5 | 1.76 | Vertical | 23.05 |
| 801.820 | 31.56 | 35.5 | -3.94 | 1 | 1 | Horizontal | 33.19 |

Radiated Emissions 1000 - 5000 MHz, Peak Scan vs Avg Limit

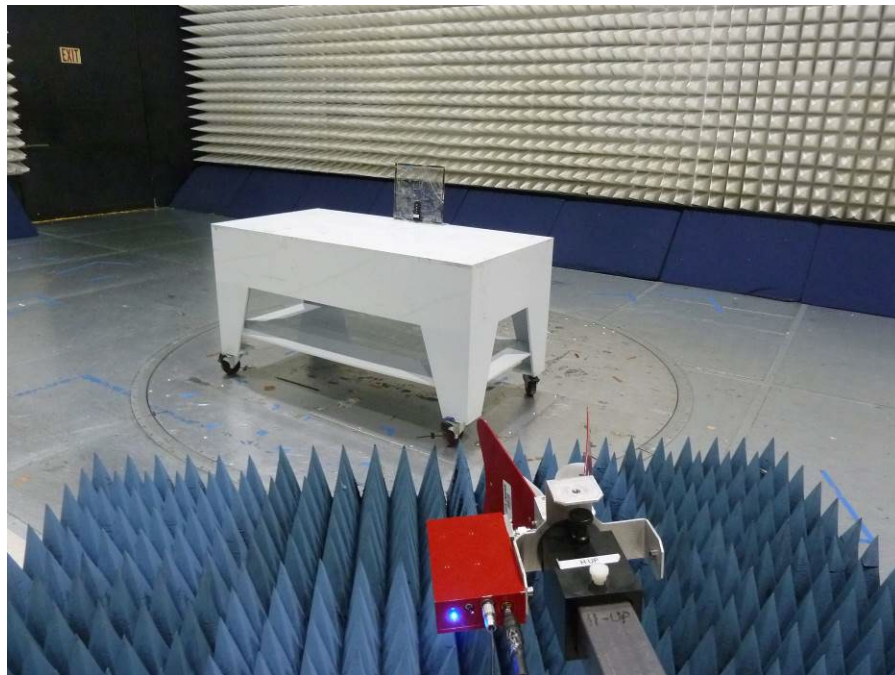
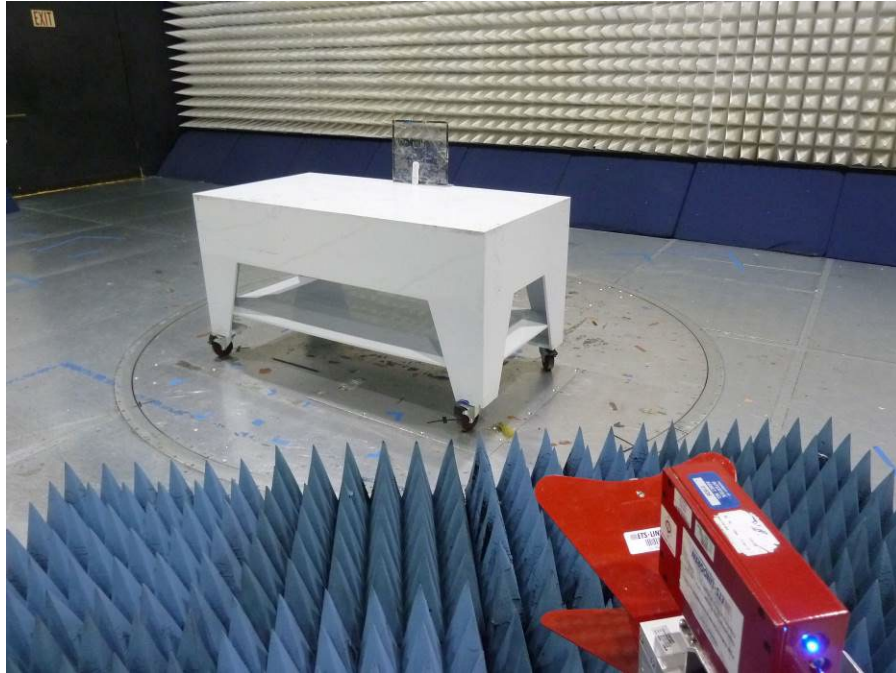


| | |
|-------------------|---------------------------|
| Results | Complies |
| Test date: | August 25-26, 2019 |

4.3.5 Test Configuration Photographs

The following photographs show the testing configurations used.





4.4 AC Line Conducted Emission
FCC Rule 15.107/15.207

4.4.1 Requirement

| Frequency Band MHz | Class B Limit dB(μV) | | Class A Limit dB(μV) | |
|-----------------------|----------------------|------------|----------------------|---------|
| | Quasi-Peak | Average | Quasi-Peak | Average |
| 0.15-0.50 | 66 to 56 * | 56 to 46 * | 79 | 66 |
| 0.50-5.00 | 56 | 46 | 73 | 60 |
| 5.00-30.00 | 60 | 50 | 73 | 60 |

Note: *Decreases linearly with the logarithm of the frequency. At the transition frequency the lower limit applies.

4.4.2 Procedure

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m but may be extended for larger EUT.

Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

EUT was placed in transmission mode then tested for conducted emissions per 15.207 and 15.107.

4.4.3 Test Result

This test is not applicable as the equipment under test is battery powered.

5.0 List of test equipment

Measurement equipment used for emission compliance testing utilized the equipment on the following list:

| Equipment | Manufacturer | Model/Type | Serial No. | Calibration Interval | Cal Due |
|---------------------|-------------------|------------|------------|----------------------|----------|
| EMI Receiver | Rohde and Schwarz | ESR | ITS 01607 | 12 | 10/24/19 |
| EMI Receiver | Rohde and Schwarz | ESU40 | ITS 00961 | 12 | 10/26/19 |
| BI-Log Antenna | Teseq | CBL 6111D | ITS 01058 | 12 | 09/20/19 |
| Pre-Amplifier | Com-Power | PAM-103 | ITS 01645 | 12 | 03/06/20 |
| Active Horn Antenna | ETS Lindgren | 3117-PA | ITS 01636 | 12 | 01/17/20 |

Software used for emission compliance testing utilized the following:

| Name | Manufacturer | Version | Template/Profile |
|---------|--------------|-----------|------------------|
| BAT-EMC | Nexio | 3.16.0.64 | Hunter Fan.bat |

6.0 Document History

| Revision/ Job Number | Writer Initials | Reviewer Initials | Date | Change |
|-------------------------|--------------------|----------------------|--------------------|--|
| 1.0 / G104058883 | AC | KV | September 09, 2019 | Original document |
| 2.0 / G104323265 | HH | KV | May 06, 2020 | Added model K6019-04 to Variant Models. See section 2.1 for details. |
| 3.0 / G104323265 | GN | AS | December 14, 2022 | Updates to Variant Models. See section 2.1 for details. |

END OF REPORT