FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report ClearSky Siren Chime Model: CS-902

FCC PART 15, SUBPART B and C; FCC 15.231; and RSS-210 & RSS GEN TEST REPORT

for

CLEARSKY SIREN CHIME

Model: CS-902

Prepared for

ECOLINK INTELLIGENT TECHNOLOGY, INC. 2055 CORTE DEL NOGAL CARLSBAD, CALIFORNIA 92011

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DATE: DECEMBER 23, 2020

| | REPORT | | APPENDICES | | | TOTAL | |
|-------|--------|---|------------|---|----|-------|----|
| | BODY | A | В | С | D | E | |
| PAGES | 21 | 2 | 2 | 2 | 13 | 42 | 82 |

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TABLE OF CONTENTS

| Section / Title | PAGE |
|---|------|
| GENERAL REPORT SUMMARY | 4 |
| SUMMARY OF TEST RESULTS | 5 |
| 1. PURPOSE | 6 |
| 1.1 Decision Rule & Risk | 6 |
| 2. ADMINISTRATIVE DATA | 7 |
| 2.1 Location of Testing | 7 |
| 2.2 Traceability Statement | 7 |
| 2.3 Cognizant Personnel | 7 |
| 2.4 Date Test Sample was Received | 7 |
| 2.5 Disposition of the Test Sample | 7 |
| 2.6 Abbreviations and Acronyms | 7 |
| 3. APPLICABLE DOCUMENTS | 8 |
| 4. DESCRIPTION OF TEST CONFIGURATION | 9 |
| 4.1 Description of Test Configuration – Emissions | 9 |
| 4.1.1 Cable Construction and Termination | 9 |
| 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT | 10 |
| 5.1 EUT and Accessory List | 10 |
| 5.2 Emissions Test Equipment | 11 |
| 6. TEST SITE DESCRIPTION | 12 |
| 6.1 Test Facility Description | 12 |
| 6.2 EUT Mounting, Bonding and Grounding | 12 |
| 6.3 Measurement Uncertainty | 12 |
| 7. TEST PROCEDURES | 13 |
| 7.1 RF Emissions | 13 |
| 7.1.1 Conducted Emissions Test | 13 |
| 7.1.2 Radiated Emissions Test | 14 |
| 7.1.3 RF Emissions Test Results | 16 |
| 7.1.4 Sample Calculations | 17 |
| 7.1.5 Duty Cycle Calculation | 17 |
| 7.1.6 99 % Bandwidth | 19 |
| 7.1.7 -20 dB Bandwidth | 19 |
| 7.1.8 Transmission Time | 20 |
| 8 CONCLUSIONS | 2.1 |

LIST OF APPENDICES

| APPENDIX | TITLE | | |
|----------|--|--|--|
| | | | |
| A | Laboratory Accreditations and Recognitions | | |
| В | Modifications to the EUT | | |
| С | Models Covered Under This Report | | |
| D | Diagrams, Charts, and Photos | | |
| | Test Setup Diagrams | | |
| | Antenna and Effective Gain Factors | | |
| | Radiated and Conducted Emissions Photos | | |
| Е | Data Sheets | | |

LIST OF FIGURES

| FIGURE | TITLE | |
|--------|--|--|
| | | |
| 1 | Conducted Emissions Test Setup | |
| 2 | Layout of the Semi-Anechoic Test Chamber | |

LIST OF TABLES

| TABLE | TITLE |
|-------|----------------------------|
| | |
| 1 | Conducted Emission Results |
| 2 | Radiated Emission Results |

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report ClearSky Siren Chime Model: CS-902

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the United States government.

Device Tested: ClearSky Siren Chime

> Model: CS-902 S/N: N/A

Product Description: The ClearSky Siren Chime is a wall-wart or plug-in device for home security and automation

applications. Clock frequencies: 4 MHz and 38.4 MHz. Dimensions: 4.1 cm (L) X 8.0 cm

(H) X 12.5 cm (H).

Modifications: The EUT was not modified to meet the specifications.

Ecolink Intelligent Technology, Inc. Customer:

> 2055 Corte Del Nogal Carlsbad, California 92011

Test Dates: December 9, 10 and 14, 2020

Test Specifications covered by accreditation:

Test Specifications: Emissions requirements

CFR Title 47, Part 15, Subpart B;

CFR Title 47, Part 15, Subpart C, sections 15.205, 15.207, 15.209, and 15.231;

RSS-210 and RSS-Gen



Test Procedures: ANSI C63.4 and ANSI C63.10

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION | RESULTS | | |
|------|--|--|--|--|
| 1 | Conducted RF Emissions, 150 kHz – 30 MHz | Complies with the Class B limits of CFR Title 47, Part 15 Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.207; and the limits of RSS-210 and RSS-Gen Highest reading in relation to spec limit 45.49 dBuV/m (AVG) @ 0.470 MHz (*U = 2.73 dB) | | |
| 2 | Spurious Radiated RF Emissions, 9 kHz – 3.45 GHz (Transmitter and Digital portion) | Complies with the Class B limits of CFR Title 47, Part 15 Subpart B; the limits of CFR Title 47, Part 15 Subpart C, sections 15.205, 15.209, and 15.231; and the limits of RSS-210 and RSS-Gen Highest reading in relation to spec limit 76.66 dBuV/m (AVG) @ 345 MHz (*U = 3.19 dB) | | |
| 3 | -20 dB Bandwidth | Complies with limits of CFR Title 47, Part 15 Subpart C, section 15.231 (c); and the limits of RSS-210 | | |
| 4 | Transmission Time | Complies with limits of CFR Title 47, Part 15 Subpart C, section 15.231 (a)(1) and (a)(2); and the limits of RSS-210 | | |

^{*}U = Expanded Uncertainty with a coverage factor of k=2

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the ClearSky Siren Chime, Model: CS-902. The emissions measurements were performed according to the measurement procedure described in ANSI C63.4 and ANSI C63.10. The tests were performed to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15 Subpart B section, 15.109; the specification limits defined by CFR Title 47, Part 15 Subpart C sections 15.205, 15.207, 15.209 and 15.231; and the specifications limits defined by RSS-210 and RSS-Gen.

1.1 Decision Rule & Risk

If a measured value exceeds a specification limit it implies non-compliance. If the value is below a specification limit it implies compliance. Measurement uncertainty of the laboratory is reported with all measurement results but generally not taken into consideration unless a standard, rule or law requires it to be considered.

Qualification test reports are only produced for products that are in compliance with the test requirements, therefore results are always in conformity. Otherwise, an engineering report or just the data is provided to the customer.

When performing a measurement and making a statement of conformity, in or out-of-specification to manufacturer's specifications or Pass/Fail against a requirement, there are two possible outcomes:

- The result is reported as conforming with the specification
- The result is reported as not conforming with the specification

The decision rule is defined below.

When the test result is found to be below the limit but within our measurement uncertainty of the limit, it is our policy that the final acceptance decision is left to the customer, after discussing the implications and potential risks of the decision.

When the test result is found to be exactly on the specification, it is our policy, in the case of unwanted emissions measurements to consider the result non-compliant, however, the final decision is left to the customer, after discussing the implications and potential risks of the decision.

When the test result is found to be over the specification limit under any condition, it is our policy to consider the result non-compliant.

In terms of uncertainty of measurement, the laboratory is a calibrated and tightly controlled environment and generally exceptionally stable, the measurement uncertainties are evaluated without the considering of the test sample. When it comes to the test sample however, as most testing is performed on a single sample rather than a sample population, and that sample is often a preproduction representation of the final product, that test sample represents a significantly higher source of measurement uncertainty. We advise our customers of this and that when in doubt (small test to limit margins), they may wish to perform statistical sampling on a population to gain a higher confidence in the results. All lab reported results are that of a single sample in any event.



2. ADMINISTRATIVE DATA

2.1 **Location of Testing**

The emissions tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

2.2 **Traceability Statement**

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 **Cognizant Personnel**

Ecolink Intelligent Technology, Inc.

David Shepard Product Compliance/QA Specialist

Director of Engineering Jay Stone

Compatible Electronics Inc.

Kyle Fujimoto **Test Engineer** James Ross **Test Engineer**

2.4 **Date Test Sample was Received**

The test sample was received prior to the date of this report.

2.5 **Disposition of the Test Sample**

The test sample has not been returned to Ecolink Intelligent Technology, Inc. as of the date of this report.

2.6 **Abbreviations and Acronyms**

The following abbreviations and acronyms may be used in this document.

EMI Electromagnetic Interference **EUT Equipment Under Test**

P/N Part Number S/N Serial Number

FCC Federal Communications Commission

Declaration of Conformity DoC

N/A Not Applicable Tx **Transmit** Receive Rx Incorporated Inc

Limited Liability Company LLC

RFRadio Frequency **BLE** Bluetooth Low Energy Code of Federal Regulations **CFR**

PCB Printed Circuit Board

DC Direct Current

LED Light Emitting Diode

3.

APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this emission Test Report.

| SPEC | TITLE |
|--|---|
| FCC Title 47, Part 15 Subpart B | FCC Rules – Radio frequency devices (including digital devices) –Unintentional Radiators |
| FCC Title 47, Part 15 Subpart C | FCC Rules – Radio frequency devices (including digital devices) – Intentional Radiators |
| RSS-210 Issue 10: 2019 | License-exempt Radio Apparatus: Category I Equipment |
| RSS-Gen Issue 5: 2019 + Amendment 1 | General Requirements for Compliance of Radio Apparatus |
| ANSI C63.4: 2014 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |
| ANSI C63.10: 2013 | American National Standard of procedure for compliance testing of unlicensed wireless devices |

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration – Emissions

The ClearSky Siren Chime, Model: CS-902 (EUT) is a solitary unit that connnected directly to the public AC mains (via an extension cord). The EUT was continuously transmitting at 345 MHz or receiving depending on the test performed.

The EUT was tested for emissions while in the X, Y and Z axis. The X orientation is when the EUT is parallel to the ground. The Y orientation is when the EUT is perpendicular to the ground mounted vertically. The Z orientation is when the EUT is perpendicular to the ground mounted horizontally.

The final radiated emissions data for the EUT was taken in the configuration described above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

The EUT contained no external cables.

LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT 5.

5.1 EUT and Accessory List

| EQUIPMENT | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|----------------------------|--------------------------------------|-----------------|------------------|------------------------------|
| CLEARSKY SIREN CHIME (EUT) | ECOLINK INTELLIGENT TECHNOLOGY, INC. | CS-902 | N/A | XQC-CS902 IC: 9863B-CS902 |
| EXTENSION CORD | GENERIC | N/A | N/A | N/A |



5.2 **Emissions Test Equipment**

| EQUIPMENT TYPE | MANU- FACTURER | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE | CAL. CYCLE |
|------------------------------------|--------------------------------|-----------------|------------------|---------------------|------------|
| | RADIA | TED EMISSION | S TEST EQUIPM | ENT | |
| TDK TestLab | TDK RF Solutions, Inc. | 9.22 | 700145 | N/A | N/A |
| MXE EMI Receiver, 3 Hz – 44 GHz | Keysight Technologies, Inc. | N9038A | MY59050117 | October 5, 2020 | 1 Year |
| Loop Antenna | Com-Power | AL-130R | 121090 | February 5, 2019 | 2 Year |
| CombiLog Antenna | Com-Power | AC-220 | 061093 | June 5, 2019 | 2 Year |
| Horn Antenna | Com-Power | AH-118 | 10050113 | February 4, 2020 | 2 Year |
| Preamplifier | Com-Power | PA-118 | 181653 | February 5, 2020 | 1 Year |
| System Controller | Sunol Sciences Corporation | SC110V | 112213-1 | N/A | N/A |
| Turntable | Sunol Sciences Corporation | 2011VS | N/A | N/A | N/A |
| Antenna-Mast | Sunol Sciences Corporation | TWR95-4 | 112213-3 | N/A | N/A |
| Computer | Hewlett Packard | p6716f | MXX1030PX0 | N/A | N/A |
| LCD Monitor | Hewlett Packard | 52031a | 3CQ046N3MG | N/A | N/A |

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 of this report for emissions test location.

6.2 EUT Mounting, Bonding and Grounding

For frequencies 1 GHz and below: The EUT was mounted on a 0.6 by 1.2 meter non-conductive table 0.8 meters above the ground plane.

For frequencies above 1 GHz: The EUT was mounted on a 0.6 by 1.2 meter non-conductive table 1.5 meters above the ground plane.

The EUT was not grounded.

6.3 Measurement Uncertainty

Compatible Electronics' U_{lab} value is less than U_{cispr} , thus based on this – compliance is deemed to occur if no measured disturbance exceeds the disturbance limit

$$u_{\rm c}(y) = \sqrt{\sum_i c_i^2 \ u^2(x_i)}$$

| Measurement | | U_{cispr} | $U_{lab} = 2 uc (y)$ |
|---|----------------------|-------------|--|
| Conducted disturbance (mains port) | (150 kHz - 30 MHz) | 3.4 dB | 2.73 dB |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) | (30 MHz – 1 000 MHz) | 6.3 dB | 3.27 dB (Vertical) 3.19 dB (Horizontal) |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) | (1 GHz - 6 GHz) | 5.2 dB | 3.95 dB |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) | (6 GHz – 18 GHz) | 5.5 dB | 3.95 dB |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) | (18 GHz – 26.5 GHz) | N/A | 4.69 dB |
| Radiated disturbance (electric field strength on an open area test site or alternative test site) | (26.5 GHz – 40 GHz) | N/A | 4.55 dB |

Report Number: **B01214D1** Page 13 of 21

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The EMI Receiver was used as a measuring meter. A quasi-peak and/or average reading was taken only where indicated in the data sheets. A 10 dB attenuator was used for the protection of the EMI Receiver input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the EMI Receiver. The output of the second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding, and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI 63:4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by computer software. The final qualification data is located in Appendix E.

The six highest emissions are listed in Table 1.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15 Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Section 15.207 for conducted emissions.

7.1.2 Radiated Emissions Test

The EMI Receiver was used as the measuring meter. An internal preamplifier was used to increase the sensitivity of the instrument during emissions tests up to 1000 MHz, and an external preamplifier was used to increase the sensitivity of the instrument during emissions tests above 1 GHz. The EMI Receiver was initially used with the Analyzer mode feature activated. In this mode, the EMI receiver can then record the actual frequency to be measured. This final reading is then taken accurately in the EMI Receiver mode, which considers the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. The effective measurement bandwidth used for the radiated emissions test was according to the frequency measured.

The frequencies below 1 GHz, except for the fundamental frequency and the 2nd harmonic of the fundamental frequency, were quasi-peaked using the quasi-peak detector of the EMI Receiver.

The harmonic frequencies above 1 GHz, the fundamental frequency, and the 2nd harmonic were averaged using the duty cycle correction calculation.

All other frequencies above 1 GHz were averaged using the average detector of the EMI Receiver.

The EMI test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is in full compliance with ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna to ensure accurate results.

The EUT was tested at a 3-meter test distance. The six highest emissions are listed in Table 2.

Radiated Emissions Test (Continued)

The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER |
|-------------------|---------------------------------------|------------------|
| 9 kHz to 150 kHz | 200 Hz | Loop Antenna |
| 150 kHz to 30 MHz | 9 kHz | Loop Antenna |
| 30 MHz to 1 GHz | 120 kHz | CombiLog Antenna |
| 1 GHz to 3.45 GHz | 1 MHz | Horn Antenna |

Test Results:

The EUT complies with the Class B limits of CFR Title 47, Part 15, Subpart B; the limits of CFR Title 47, Part 15, Subpart C sections 15.205, 15.209 and 15.231; and the limits of RSS-210 and RSS-Gen for radiated emissions.



7.1.3 **RF Emissions Test Results**

Table 1 CONDUCTED EMISSION RESULTS ClearSky Siren Chime, Model: CS-902

| Frequency MHz | Average Corrected Reading* dBµV/m | Average Specification Limit dBµV/m | Delta (Cor. Reading – Spec. Limit) dB |
|------------------|---|--|---|
| 0.470 (BL) (Tx) | 45.49 | 46.57 | -1.08 |
| 0.454 (BL) (Tx) | 45.21 | 46.60 | -1.40 |
| 0.466 (BL) (Tx) | 45.01 | 46.54 | -1.53 |
| 0.462 (BL) (Tx) | 44.82 | 46.53 | -1.71 |
| 0.474 (BL) (Tx) | 43.44 | 46.50 | -3.06 |
| 0.458 (BL) (Rx) | 43.29 | 46.56 | -3.27 |

Table 2 RADIATED EMISSION RESULTS ClearSky Siren Chime, Model: CS-902

| Frequency MHz | Corrected Reading* | Specification Limit | Delta (Cor. Reading – Spec. Limit) dB |
|---------------------|--------------------|---------------------|---|
| 345.00 (H) (X-Axis) | 76.66 (AV) | 77.26 | -0.60 |
| 161.20 (H) (Y-Axis) | 41.16 (QP) | 43.50 | -2.34 |
| 345.00 (H) (Z-Axis) | 74.68 (AV) | 77.26 | -2.58 |
| 160.30 (H) (Y-Axis) | 40.89 (QP) | 43.50 | -2.61 |
| 161.90 (H) (Y-Axis) | 40.78 (QP) | 43.50 | -2.72 |
| 345.00 (V) (X-Axis) | 74.22 (AV) | 77.26 | -3.04 |

Notes:

- The complete emissions data is given in Appendix E of this report.
- (V) Vertical
- Horizontal (H)
- (BL) Black Lead
- (WL) White Lead
- Receiving (Rx)
- Transmitting (Tx)
- (AV) Average
- (QP) Quasi-Peak

7.1.4 **Sample Calculations**

A correction factor for the antenna, cable and a distance factor (if any) must be applied to the meter reading before a true field strength reading can be obtained. This Corrected Meter Reading is then compared to the specification limit in order to determine compliance with the limits.

Conversion to logarithmic terms: Specification limit (µV/m) log x 20 = Specification Limit in dBuV/m

To correct for distance when measuring at a distance other than the specification

For measurements below 30 MHz: (Specification distance / test distance) log x 40 = distance factor For measurements above 30 MHz: (Specification distance / test distance) log x 20 = distance factor

Note: When using an Active Antenna, the Antenna factor shall be subtracted due to the combination of the internal amplification and antenna loss.

Corrected Meter Reading = meter reading + F - A + C

F = antenna factorwhere:

A= amplifier gain C = cable loss

The correction factors for the antenna and the amplifier gain are attached in Appendix D of this report. The data sheets are attached in Appendix E.

The distance factor D is 0 when the test is performed at the required specification distance.

When the limit is in terms of magnetic field, the following equation applies:

$$H[dB(\mu A/m)] = V[dB(\mu V)] + L_C[dB] - G_{PA}[dB] + AF^H[dB(S/m)]$$

H is the magnetic field strength (to be compared with the limit), where:

V is the voltage level measured by the receiver or spectrum analyzer,

 L_C is the cable loss, G_{PA} is the gain of the preamplifier (if used), and AF^H is the magnetic antenna factor.

The G_{PA} term is only included in the equation when an external preamplifier is used in the measurement chain, in front of the receiver or spectrum analyzer. An external preamplifier is not usually necessary (or even advisable, due to risk of saturating the input mixer of the receiver) when an active loop antenna is used. In that case, the antenna factor of the loop already includes the gain of its built-in preamplifier.

If the "electrical" antenna factor is used instead, the above equation becomes:

$$H[dB(\mu A/m)] = V[dB(\mu V)] + L_C[dB] - G_{PA}[dB] + AF^E[dB(m^{-1})] - 51.5[dB\Omega]$$

 AF^{E} is the "electric" antenna factor, as provided by the antenna where:

calibration laboratory.

When the limit is in terms of electric field, the following equation applies:

$$E[dB(\mu V/m)] = V[dB(\mu V)] + L_C[dB] - G_{PA}[dB] + AF^E[dB(m^{-1})]$$

or, if the magnetic antenna factor is used:

$$E[dB(\mu V/m)] = V[dB(\mu V)] + L_C[dB] - G_{PA}[dB] + AF^H[dB(S/m)] + 51.5[dB\Omega]$$

The display of the receiver (or spectrum analyzer) shall not be configured in units of current, e.g. µA or dB(μA). That conversion is calculated inside the receiver (or spectrum analyzer) using its input impedance, which is 50 Ω , while the magnetic field calculation is based on the free-space impedance of 377 Ω .

FCC Part 15 Subpart B and C; FCC Section 15,231; and RSS-210 and RSS-GEN Test Report ClearSky Siren Chime Model: CS-902

7.1.5 **Duty Cycle Calculation**

The fundamental and harmonics were measured at a 3-meter test distance. The EMI Receiver was used to obtain the final test data. The final qualification data sheets are in Appendix E.

Where

 $\delta(dB) = 20 \log \left[\sum_{i} (nt_{i} + mt_{2} + ... + \xi t_{x}) / T \right]$ *n* is the number of pulses of duration *t*1 m is the number of pulses of duration t2 ξ is the number of pulses of duration txT is the period of the pulse train or 100 ms if the pulse train length is greater than 100 ms

Duty Cycle Correction Factor = -18.73 dB

Time of One Small Pulse = $148 \mu s$

Time of One Large Pulse = $282 \mu s$

Number of Small Pulses = 42

Number of Large Pulses = 19

Total On Time = $11926 \mu s = 11.574 ms$

The time between pulses is greater than 100 ms

Duty Cycle = 11.574 ms / 100 ms = 11.574 %

FCC Part 15 Subpart B and C; FCC Section 15,231; and RSS-210 and RSS-GEN Test Report ClearSky Siren Chime Model: CS-902

7.1.6 99 % Bandwidth

The 99 % bandwidth was measured using an EMI Receiver.

The following steps were performed for measuring the 99 % bandwidth per RSS-GEN, Issue 5, clause 6.7:

- 1. Set RBW to 1 % to 5 % of the actual occupied bandwidth.
- 2. Set VBW to greater than 3 times the RBW.
- 3. Set the EMI Receiver to the occupied bandwidth Function set at 99 %
- 4. Set the peak detector to max hold.
- 5. Set the sweep time to auto
- 6. Allow the trace to stabilize.

Please note that this was only used to determine the emission bandwidth and that there are no limits or pass/fail criteria for this test. Please see the data sheets located in Appendix E.

7.1.7 -20 dB Bandwidth

The -20 dB bandwidth was measured using an EMI Receiver.

The following steps were performed for measuring the -20 dB bandwidth:

- 1. Set RBW to at least 1% of the maximum occupied bandwidth allowed.
- 2. Set VBW to greater than 3 times the RBW.
- 3. Set the peak detector to max hold.
- 4. Set the sweep time to auto
- 5. Allow the trace to stabilize.
- 6. Set the markers to -20 dB of the peak fundamental emission

Test Results:

The EUT complies with limits of CFR Title 47, Part 15, Subpart C section 15.231 (c); and the limits of RSS-210.

7.1.8 **Transmission Time**

The transmission time was measured using an EMI Receiver.

The following steps were performed for measuring transmission time:

- 1. Set RBW = 120 kHz.
- 2. Set VBW = 510 kHz
- 3. Span = 0 Hz
- 4. Set the sweep time to 10 seconds
- 5. Push a button on the EUT, which automatically activated the transmitter.
- 6. Allow the trace to stabilize.
- 7. Set the 1st marker to start of the transmission
- 8. Set the 2nd marker for 5 seconds after the start of the transmission
- 9. Verify the transmission does not go beyond the 2nd marker.

Test Results:

The EUT complies with limits of CFR Title 47, Part 15, Subpart C section 15.231 (a)(1) and (a)(2); and the limits of RSS-210.

8. CONCLUSIONS

The ClearSky Siren Chime, Model: CS-902 (EUT), as tested, meets all the specification limits defined in RSS-210, RSS-Gen, the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B; and the specification limits defined in CFR Title 47, Part, 15, Subpart C, sections 15.205, 15.207, 15.209 and 15.231.



APPENDIX A

LABORATORY ACCREDITATIONS AND RECOGNITIONS

LABORATORY ACCREDITATIONS AND RECOGNITIONS



For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025. For the most up-to-date version of our scopes and certificates please visit http://celectronics.com/quality/scope/

Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfilment of the requirements of ISO/IEC 17025: 2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001: 2008 Quality Management Systems — Requirements."

Innovation, Science and Economic Development Canada Lab Code 2154A

APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B, FCC 15.231, RSS-210, and RSS-Gen specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during the testing.



APPENDIX C

MODELS COVERED UNDER THIS REPORT

MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

ClearSky Siren Chime Model: CS-902 S/N: N/A

There are no additional models or part numbers covered under this report.



APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

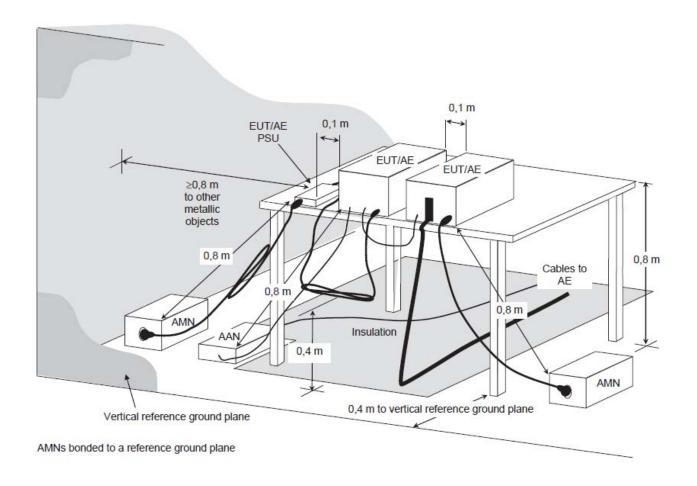
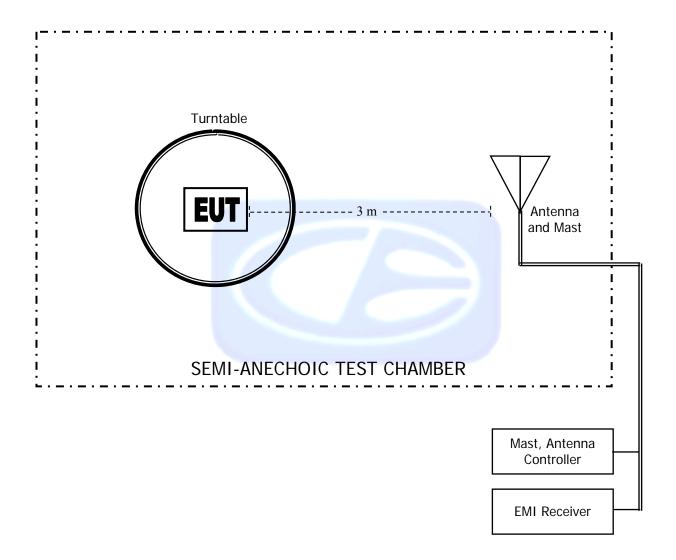


FIGURE 2: LAYOUT OF THE SEMI -ANECHOIC TEST CHAMBER



COM-POWER AL-130R LOOP ANTENNA

S/N: 121090

CALIBRATION DATE: FEBRUARY 5, 2019

| | , | |
|--------------------|--------------------|--------------------|
| FREQUENCY (MHz) | MAGNETIC (dB/m) | ELECTRIC (dB/m) |
| 0.009 | 16.1 | -35.4 |
| 0.01 | 15.6 | -35.9 |
| 0.02 | 14.8 | -36.7 |
| 0.03 | 15.6 | -35.9 |
| 0.04 | 15.1 | -36.4 |
| 0.05 | 14.4 | -37.0 |
| 0.06 | 14.6 | -36.9 |
| 0.07 | 14.4 | -37.1 |
| 0.08 | 14.3 | -37.1 |
| 0.09 | 14.5 | -36.9 |
| 0.10 | 14.1 | -37.3 |
| 0.20 | 14.1 | -37.3 |
| 0.30 | 14.0 | -37.4 |
| 0.40 | 14.0 | -37.4 |
| 0.50 | 14.2 | -37.2 |
| 0.60 | 14.2 | -37.2 |
| 0.70 | 14.2 | -37.2 |
| 0.80 | 14.2 | -37.3 |
| 0.90 | 14.3 | -37.2 |
| 1.00 | 14.5 | -37.0 |
| 2.00 | 14.5 | -36.9 |
| 3.00 | 14.5 | -36.9 |
| 4.00 | 14.7 | -36.8 |
| 5.00 | 14.6 | -36.9 |
| 6.00 | 14.6 | -36.9 |
| 7.00 | 14.6 | -36.9 |
| 8.00 | 14.6 | -36.9 |
| 9.00 | 14.6 | -36.9 |
| 10.00 | 14.8 | -36.6 |
| 11.00 | 14.9 | -36.6 |
| 12.00 | 14.8 | -36.6 |
| 13.00 | 14.8 | -36.7 |
| 14.00 | 14.6 | -36.8 |
| 15.00 | 14.5 | -36.9 |
| 16.00 | 14.5 | -37.0 |
| 17.00 | 14.6 | -36.9 |
| 18.00 | 14.7 | -36.7 |
| 19.00 | 14.8 | -36.6 |
| 20.00 | 14.9 | -36.6 |
| 21.00 | 14.6 | -36.8 |
| 22.00 | 14.2 | -37.2 |
| 23.00 | 13.7 | -37.7 |
| 24.00 | 13.7 | -38.2 |
| 25.00 | 13.0 | -38.5 |
| 26.00 | 12.9 | -38.6 |
| 27.00 | 13.0 | -38.5 |
| 28.00 | 13.1 | -38.4 |
| 29.00 | 13.1 | -38.4 |
| 30.00 | 12.9 | -38.5 |
| 30.00 | 12.7 | 30.5 |

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61093

CALIBRATION DATE: JUNE 5, 2019

| FREQUENCY (MHz) | FACTOR (dB) | FREQUENCY (MHz) | FACTOR (dB) |
|--------------------|-------------|--------------------|-------------|
| 30 | 22.10 | 200 | 15.30 |
| 35 | 20.90 | 250 | 16.80 |
| 40 | 20.10 | 300 | 19.00 |
| 45 | 19.40 | 350 | 19.60 |
| 50 | 18.40 | 400 | 21.70 |
| 60 | 15.10 | 450 | 21.60 |
| 70 | 12.00 | 500 | 22.20 |
| 80 | 11.60 | 550 | 22.70 |
| 90 | 13.50 | 600 | 24.20 |
| 100 | 14.70 | 650 | 24.40 |
| 120 | 15.90 | 700 | 24.50 |
| 125 | 15.90 | 750 | 25.40 |
| 140 | 14.80 | 800 | 26.30 |
| 150 | 15.50 | 850 | 26.70 |
| 160 | 19.80 | 900 | 27.50 |
| 175 | 15.20 | 950 | 27.80 |
| 180 | 14.90 | 1000 | 27.90 |

COM POWER AH-118

HORN ANTENNA

S/N: 10050113

CALIBRATION DATE: FEBRUARY 4, 2020

| FREQUENCY | FACTOR | FREQUENCY | FACTOR |
|-----------|--------|-----------|--------|
| (GHz) | (dB) | (GHz) | (dB) |
| 1.0 | 24.343 | 10.0 | 38.826 |
| 1.5 | 25.419 | 10.5 | 39.102 |
| 2.0 | 28.838 | 11.0 | 38.259 |
| 2.5 | 28.971 | 11.5 | 39.920 |
| 3.0 | 29.919 | 12.0 | 40.149 |
| 3.5 | 30.674 | 12.5 | 40.576 |
| 4.0 | 31.670 | 13.0 | 40.264 |
| 4.5 | 32.437 | 13.5 | 40.364 |
| 5.0 | 33.414 | 14.0 | 40.424 |
| 5.5 | 34.003 | 14.5 | 41.677 |
| 6.0 | 34.799 | 15.0 | 43.010 |
| 6.5 | 35.381 | 15.5 | 39.799 |
| 7.0 | 37.024 | 16.0 | 40.187 |
| 7.5 | 37.403 | 16.5 | 40.155 |
| 8.0 | 37.445 | 17.0 | 40.507 |
| 8.5 | 37.390 | 17.5 | 41.963 |
| 9.0 | 38.076 | 18.0 | 43.196 |
| 9.5 | 38.809 | | |

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report ClearSky Siren Chime Model: CS-902

COM-POWER PA-118

PREAMPLIFIER

S/N: 181653

CALIBRATION DATE: FEBRUARY 5, 2020

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|--------------------|-------------|--------------------|-------------|
| 1.0 | 40.10 | 6.0 | 40.60 |
| 1.1 | 40.10 | 6.5 | 39.50 |
| 1.2 | 40.00 | 7.0 | 39.40 |
| 1.3 | 39.70 | 7.5 | 39.30 |
| 1.4 | 39.60 | 8.0 | 39.20 |
| 1.5 | 39.90 | 8.5 | 40.50 |
| 1.6 | 40.00 | 9.0 | 39.60 |
| 1.7 | 39.70 | 9.5 | 39.50 |
| 1.8 | 39.50 | 10.0 | 38.80 |
| 1.9 | 39.60 | 11.0 | 38.70 |
| 2.0 | 39.90 | 12.0 | 42.20 |
| 2.5 | 40.10 | 13.0 | 40.00 |
| 3.0 | 40.80 | 14.0 | 40.30 |
| 3.5 | 40.60 | 15.0 | 40.20 |
| 4.0 | 40.50 | 16.0 | 41.00 |
| 4.5 | 41.60 | 17.0 | 39.70 |
| 5.0 | 39.20 | 18.0 | 40.90 |
| 5.5 | 40.00 | | |



FRONT VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC. CLEARSKY SIREN CHIME MODEL: CS-902

FCC SUBPART B AND C; RSS-210 AND RSS-GEN – RADIATED EMISSIONS – BELOW 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC. **CLEARSKY SIREN CHIME** MODEL: CS-902 FCC SUBPART B AND C; RSS-210 AND RSS-GEN - RADIATED EMISSIONS - BELOW 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

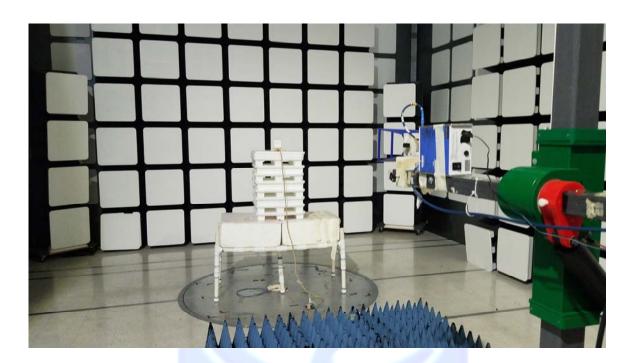
Report Number: **B01214D1**



FRONT VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC.
CLEARSKY SIREN CHIME
MODEL: CS-902
FCC SUBPART B AND C; RSS-210 AND RSS-GEN – RADIATED EMISSIONS – ABOVE 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC.
CLEARSKY SIREN CHIME
MODEL: CS-902
FCC SUBPART B AND C; RSS-210 AND RSS-GEN – RADIATED EMISSIONS – ABOVE 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONs

ClearSky Siren Chime Model: CS-902



FRONT VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC. **CLEARSKY SIREN CHIME** MODEL: CS-902 FCC SUBPART B AND C; RSS-210 AND RSS-GEN - CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC.
CLEARSKY SIREN CHIME
MODEL: CS-902
FCC SUBPART B AND C; RSS-210 AND RSS-GEN – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

CONDUCTED EMISSIONS

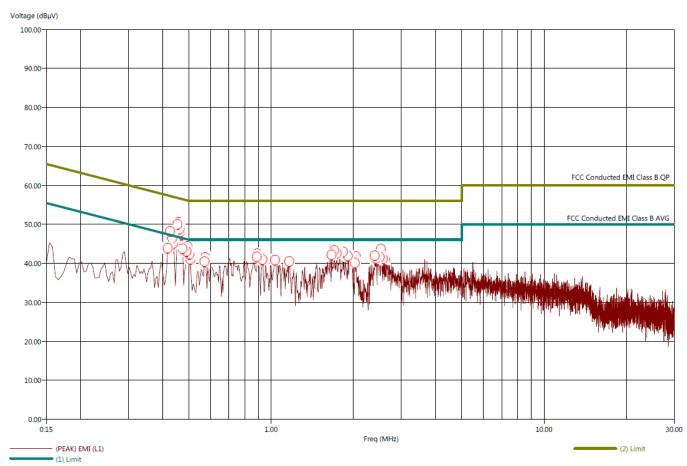
DATA SHEETS

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: FCC Class B - Black Lead File: 1 - CE - Pre-Scan - Black Lead - Tx Mode - FCC Class B - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Siren Chime EUT Condition: The EUT is continuously transmitting at 345 MHz and BLE and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. Model: CS-902 S/N: N/A

12/14/2020 8:39:18 AM Sequence: Preliminary Scan



12/14/2020 8:45:01 AM

Sequence: Final Measurements

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: FCC Class B - Black Lead File: 1 - CE - Final Scan - Black Lead - Tx Mode - FCC Class B - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Stren Chime

EUT Condition: The EUT is continuously transmitting at 345 MHz and BLE and Siren On Constantly

Company: Ecolink Intelligent Technology, Inc. Model: CS-902

S/N: N/A

| Freq | (PEAK) EMI | (QP) EMI | (PEAK) Margin (QP) | (QP) Margin (QP) | (QP) Limit | Cable | Transducer | Filter |
|-------|------------|----------|--------------------|------------------|------------|-------|------------|--------|
| (MHz) | (dBµV) | (dBµV) | (dB) | (dB) | (dBµV) | (dB) | (dB) | (dB) |
| 0.418 | 37.73 | 47.93 | -19.57 | -9.37 | 57.30 | 0.08 | 0.12 | 9.70 |
| 0.426 | 51.34 | 48.33 | -5.94 | -8.95 | 57.28 | 0.08 | 0.12 | 9.70 |
| 0.430 | 50.09 | 45.08 | -7.26 | -12.27 | 57.35 | 0.08 | 0.12 | 9.70 |
| 0.434 | 50.93 | 47.98 | -6.29 | -9.24 | 57.22 | 0.08 | 0.12 | 9.70 |
| 0.438 | 51.20 | 48.14 | -6.03 | -9.09 | 57.23 | 0.08 | 0.12 | 9.70 |
| 0.454 | 51.24 | 48.11 | -5.37 | -8.50 | 56.60 | 0.09 | 0.12 | 9.70 |
| 0.458 | 50.78 | 48.07 | -5.89 | -8.60 | 56.67 | 0.09 | 0.12 | 9.70 |
| 0.462 | 50.89 | 48.00 | -5.64 | -8.53 | 56.53 | 0.09 | 0.12 | 9.70 |
| 0.466 | 50.99 | 47.97 | -5.55 | -8.57 | 56.54 | 0.09 | 0.12 | 9.70 |
| 0.470 | 50.85 | 47.88 | -5.72 | -8.69 | 56.57 | 0.09 | 0.12 | 9.70 |
| 0.474 | 51.02 | 47.90 | -5.48 | -8.60 | 56.50 | 0.09 | 0.12 | 9.70 |
| 0.490 | 46.42 | 43.24 | -9.63 | -12.81 | 56.05 | 0.09 | 0.12 | 9.70 |
| 0.494 | 47.57 | 42.41 | -8.63 | -13.79 | 56.20 | 0.09 | 0.12 | 9.70 |
| 0.498 | 48.61 | 42.78 | -7.55 | -13.38 | 56.16 | 0.09 | 0.12 | 9.70 |
| 0.502 | 48.30 | 43.55 | -7.82 | -12.57 | 56.12 | 0.09 | 0.12 | 9.70 |
| 0.506 | 45.64 | 42.40 | -10.38 | -13.62 | 56.02 | 0.09 | 0.12 | 9.70 |
| 0.570 | 42.89 | 39.85 | -13.11 | -16.15 | 56.00 | 0.09 | 0.12 | 9.68 |
| 0.574 | 42.10 | 39.29 | -13.90 | -16.71 | 56.00 | 0.09 | 0.12 | 9.68 |
| 0.886 | 42.39 | 38.77 | -13.61 | -17.23 | 56.00 | 0.10 | 0.13 | 9.62 |
| 0.890 | 43.06 | 38.68 | -12.94 | -17.32 | 56.00 | 0.10 | 0.13 | 9.62 |
| 0.930 | 41.74 | 39.55 | -14.26 | -16.45 | 56.00 | 0.10 | 0.13 | 9.61 |
| 0.934 | 41.98 | 39.66 | -14.02 | -16.34 | 56.00 | 0.10 | 0.13 | 9.61 |
| 1.034 | 40.65 | 38.08 | -15.35 | -17.92 | 56.00 | 0.10 | 0.13 | 9.61 |
| 1.038 | 42.45 | 38.07 | -13.55 | -17.93 | 56.00 | 0.10 | 0.13 | 9.60 |
| 1.166 | 39.58 | 36.24 | -16.42 | -19.76 | 56.00 | 0.11 | 0.13 | 9.62 |
| 1.666 | 42.29 | 39.65 | -13.71 | -16.35 | 56.00 | 0.14 | 0.14 | 9.67 |
| 1.702 | 43.21 | 39.51 | -12.79 | -16.49 | 56.00 | 0.14 | 0.15 | 9.68 |
| 1.738 | 44.31 | 39.84 | -11.69 | -16.16 | 56.00 | 0.14 | 0.15 | 9.68 |
| 1.742 | 42.92 | 39.71 | -13.08 | -16.29 | 56.00 | 0.14 | 0.15 | 9.68 |
| 1.834 | 42.80 | 39.21 | -13.20 | -16.79 | 56.00 | 0.14 | 0.15 | 9.69 |
| 1.914 | 43.09 | 39.22 | -12.91 | -16.78 | 56.00 | 0.15 | 0.15 | 9.69 |
| 2.026 | 24.51 | 37.11 | -31.49 | -18.89 | 56.00 | 0.15 | 0.15 | 9.70 |
| 2.046 | 39.47 | 35.76 | -16.53 | -20.24 | 56.00 | 0.15 | 0.15 | 9.70 |
| 2.398 | 42.89 | 39.37 | -13.11 | -16.63 | 56.00 | 0.16 | 0.16 | 9.70 |
| 2.418 | 42.50 | 39.40 | -13.50 | -16.60 | 56.00 | 0.16 | 0.16 | 9.70 |
| 2.502 | 42.98 | 39.97 | -13.02 | -16.03 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.526 | 42.83 | 40.37 | -13.17 | -15.63 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.570 | 41.99 | 38.62 | -14.01 | -17.38 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.614 | 41.36 | 37.73 | -14.64 | -18.27 | 56.00 | 0.17 | 0.16 | 9.70 |

12/14/2020 8:45:01 AM Sequence: Final Measurements

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: FCC Class B - Black Lead File: 1 - CE - Final Scan - Black Lead - Tx Mode - FCC Class B - 12-14-2020.set

Operator: Kyle Fujimoto

EUT Type: ClearSky Siren Chime
EUT Condition: The EUT is continuously transmitting at 345 MHz and BLE and Siren On Constantly

Company: Ecolink Intelligent Technology, Inc.

S/N: N/A

| Freq (MHz) | (PEAK) EMI (dBuV) | (AVG) EMI (dBµV) | (PEAK) Margin (AVG) (dB) | (AVG) Margin (AVG) (dB) | (AVG) Limit (dBµV) | Cable (dB) | Transducer (dB) | Filter (dB) |
|---------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|
| 0.418 | (авич) 37.73 | (dbµV) 40.22 | -9.57 | -7.08 | (dbµV) 47.30 | 0.08 | 0.12 | 9.70 |
| 0.416 | 51.34 | 41.42 | 4.06 | -7.08 -5.86 | 47.28 | 0.08 | 0.12 | 9.70 |
| 0.420 | 50.09 | 35.78 | 2.74 | | 47.35 | 0.08 | 0.12 | 9.70 |
| | | | | -11.57 | | | | |
| 0.434 | 50.93 | 43.85 | 3.71 | -3.37 | 47.22 | 0.08 | 0.12 | 9.70 |
| 0.438 | 51.20 | 43.78 | 3.97 | -3.45 | 47.23 | 0.08 | 0.12 | 9.70 |
| 0.454 | 51.24 | 45.21 | 4.63 | -1.40 | 46.60 | 0.09 | 0.12 | 9.70 |
| 0.458 | 50.78 | 42.21 | 4.11 | -4.46 | 46.67 | 0.09 | 0.12 | 9.70 |
| 0.462 | 50.89 | 44.82 | 4.36 | -1.71 | 46.53 | 0.09 | 0.12 | 9.70 |
| 0.466 | 50.99 | 45.01 | 4.45 | -1.53 | 46.54 | 0.09 | 0.12 | 9.70 |
| 0.470 | 50.85 | 45.49 | 4.28 | -1.08 | 46.57 | 0.09 | 0.12 | 9.70 |
| 0.474 | 51.02 | 43.44 | 4.52 | -3.06 | 46.50 | 0.09 | 0.12 | 9.70 |
| 0.490 | 46.42 | 38.75 | 0.37 | -7.30 | 46.05 | 0.09 | 0.12 | 9.70 |
| 0.494 | 47.57 | 33.76 | 1.37 | -12.44 | 46.20 | 0.09 | 0.12 | 9.70 |
| 0.498 | 48.61 | 35.76 | 2.45 | -10.40 | 46.16 | 0.09 | 0.12 | 9.70 |
| 0.502 | 48.30 | 37.56 | 2.18 | -8.56 | 46.12 | 0.09 | 0.12 | 9.70 |
| 0.506 | 45.64 | 38.37 | -0.38 | -7.65 | 46.02 | 0.09 | 0.12 | 9.70 |
| 0.570 | 42.89 | 35.34 | -3.11 | -10.66 | 46.00 | 0.09 | 0.12 | 9.68 |
| 0.574 | 42.10 | 32.04 | -3.90 | -13.96 | 46.00 | 0.09 | 0.12 | 9.68 |
| 0.886 | 42.39 | 32.49 | -3.61 | -13.51 | 46.00 | 0.10 | 0.13 | 9.62 |
| 0.890 | 43.06 | 31.82 | -2.94 | -14.18 | 46.00 | 0.10 | 0.13 | 9.62 |
| 0.930 | 41.74 | 20.82 | -4.26 | -25.18 | 46.00 | 0.10 | 0.13 | 9.61 |
| 0.934 | 41.98 | 32.67 | -4.02 | -13.33 | 46.00 | 0.10 | 0.13 | 9.61 |
| 1.034 | 40.65 | 31.74 | -5.35 | -14.26 | 46.00 | 0.10 | 0.13 | 9.61 |
| 1.038 | 42.45 | 30.45 | -3.55 | -15.55 | 46.00 | 0.10 | 0.13 | 9.60 |
| 1.166 | 39.58 | 28.98 | -6.42 | -17.02 | 46.00 | 0.11 | 0.13 | 9.62 |
| 1.666 | 42.29 | 17.14 | -3.71 | -28.86 | 46.00 | 0.14 | 0.14 | 9.67 |
| 1.702 | 43.21 | 33.08 | -2.79 | -12.92 | 46.00 | 0.14 | 0.15 | 9.68 |
| 1.738 | 44.31 | 33.20 | -1.69 | -12.80 | 46.00 | 0.14 | 0.15 | 9.68 |
| 1.742 | 42.92 | 33.67 | -3.08 | -12.33 | 46.00 | 0.14 | 0.15 | 9.68 |
| 1.834 | 42.80 | 32.84 | -3.20 | -13.16 | 46.00 | 0.14 | 0.15 | 9.69 |
| 1.914 | 43.09 | 32.51 | -2.91 | -13.49 | 46.00 | 0.15 | 0.15 | 9.69 |
| 2.026 | 24.51 | 28.80 | -21.49 | -17.20 | 46.00 | 0.15 | 0.15 | 9.70 |
| 2.046 | 39.47 | 28.75 | -6.53 | -17.25 | 46.00 | 0.15 | 0.15 | 9.70 |
| 2.398 | 42.89 | 33.57 | -3.11 | -12.43 | 46.00 | 0.16 | 0.16 | 9.70 |
| 2.418 | 42.50 | 33.63 | -3.50 | -12.37 | 46.00 | 0.16 | 0.16 | 9.70 |
| 2.502 | 42.98 | 33.86 | -3.02 | -12.14 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.526 | 42.83 | 34.03 | -3.17 | -11.97 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.570 | 41.99 | 32.05 | -4.01 | -13.95 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.614 | 41.36 | 31.14 | -4.64 | -14.86 | 46.00 | 0.17 | 0.16 | 9.70 |
| | | | | | | | | |

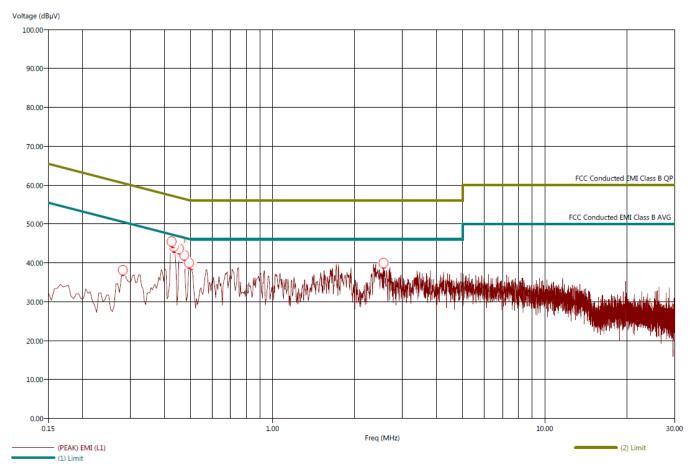
FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: FCC Class B - White Lead File: 2 - CE - Pre-Scan - White Lead - Tx Mode - FCC Class B - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Stren Chime EUT Condition: The EUT is continuously transmitting at 345 MHz and BLE and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. M/N: CS-902 S/N: N/A

12/14/2020 8:58:14 AM Sequence: Preliminary Scan





Title: FCC Class B - White Lead File: 2 - CE - Final Scan - White Lead - Tx Mode - FCC Class B - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Stren Chime EUT Condition: The EUT is continuously transmitting at 345 MHz and BLE and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. Model: CS-902 S/N: N/A

12/14/2020 8:59:26 AM Sequence: Final Measurements

| Freq | (PEAK) EMI | (QP) EMI | (PEAK) Margin (QP) | (QP) Margin (QP) | (QP) Limit | Cable | Transducer | Filter |
|-------|------------|----------|--------------------|------------------|------------|-------|------------|--------|
| (MHz) | (dBµV) | (dBµV) | (dB) | (dB) | (dBµV) | (dB) | (dB) | (dB) |
| 0.282 | 40.13 | 37.52 | -20.34 | -22.95 | 60.47 | 0.07 | 0.12 | 9.70 |
| 0.426 | 45.53 | 44.29 | -11.62 | -12.86 | 57.16 | 0.08 | 0.12 | 9.70 |
| 0.430 | 35.53 | 44.07 | -21.59 | -13.05 | 57.12 | 0.08 | 0.12 | 9.70 |
| 0.434 | 45.86 | 44.41 | -11.41 | -12.86 | 57.27 | 0.08 | 0.12 | 9.70 |
| 0.438 | 45.72 | 44.23 | -11.42 | -12.91 | 57.14 | 0.08 | 0.12 | 9.70 |
| 0.454 | 47.74 | 45.72 | -8.87 | -10.89 | 56.60 | 0.09 | 0.12 | 9.70 |
| 0.458 | 47.67 | 45.70 | -8.93 | -10.90 | 56.59 | 0.09 | 0.12 | 9.70 |
| 0.462 | 47.77 | 46.13 | -8.77 | -10.41 | 56.54 | 0.09 | 0.12 | 9.70 |
| 0.466 | 47.81 | 45.97 | -8.73 | -10.57 | 56.54 | 0.09 | 0.12 | 9.70 |
| 0.470 | 47.73 | 45.99 | -8.80 | -10.54 | 56.53 | 0.09 | 0.12 | 9.70 |
| 0.474 | 47.66 | 45.96 | -8.86 | -10.56 | 56.52 | 0.09 | 0.12 | 9.70 |
| 0.494 | 41.75 | 39.51 | -14.28 | -16.52 | 56.03 | 0.09 | 0.12 | 9.70 |
| 0.498 | 41.32 | 39.21 | -14.70 | -16.81 | 56.02 | 0.09 | 0.12 | 9.70 |
| 0.502 | 41.63 | 39.28 | -14.39 | -16.74 | 56.02 | 0.09 | 0.12 | 9.70 |
| 2.558 | 40.40 | 37.21 | -15.60 | -18.79 | 56.00 | 0.17 | 0.17 | 9.70 |





Title: FCC Class B - White Lead File: 2 - CE - Final Scan - White Lead - Tx Mode - FCC Class B - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Stren Chime EUT Condition: The EUT is continuously transmitting at 345 MHz and BLE and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. Model: CS-902 S/N: N/A

12/14/2020 8:59:26 AM Sequence: Final Measurements

| Freq | (PEAK) EMI | (AVG) EMI | (PEAK) Margin (AVG) | (AVG) Margin (AVG) | (AVG) Limit | Cable | Transducer | Filter |
|-------|------------|-----------|---------------------|--------------------|-------------|-------|------------|--------|
| (MHz) | (dBµV) | (dBµV) | (dB) | (dB) | (dBµV) | (dB) | (dB) | (dB) |
| 0.282 | 40.13 | 31.89 | -10.34 | -18.58 | 50.47 | 0.07 | 0.12 | 9.70 |
| 0.426 | 45.53 | 41.52 | -1.62 | -5.63 | 47.16 | 0.08 | 0.12 | 9.70 |
| 0.430 | 35.53 | 41.07 | -11.59 | -6.05 | 47.12 | 0.08 | 0.12 | 9.70 |
| 0.434 | 45.86 | 39.38 | -1.41 | -7.89 | 47.27 | 0.08 | 0.12 | 9.70 |
| 0.438 | 45.72 | 41.38 | -1.42 | -5.76 | 47.14 | 0.08 | 0.12 | 9.70 |
| 0.454 | 47.74 | 42.35 | 1.13 | -4.26 | 46.60 | 0.09 | 0.12 | 9.70 |
| 0.458 | 47.67 | 42.52 | 1.07 | -4.08 | 46.59 | 0.09 | 0.12 | 9.70 |
| 0.462 | 47.77 | 42.12 | 1.23 | -4.42 | 46.54 | 0.09 | 0.12 | 9.70 |
| 0.466 | 47.81 | 42.18 | 1.27 | -4.36 | 46.54 | 0.09 | 0.12 | 9.70 |
| 0.470 | 47.73 | 41.97 | 1.20 | -4.56 | 46.53 | 0.09 | 0.12 | 9.70 |
| 0.474 | 47.66 | 41.15 | 1.14 | -5.37 | 46.52 | 0.09 | 0.12 | 9.70 |
| 0.494 | 41.75 | 35.56 | -4.28 | -10.47 | 46.03 | 0.09 | 0.12 | 9.70 |
| 0.498 | 41.32 | 35.34 | -4.70 | -10.68 | 46.02 | 0.09 | 0.12 | 9.70 |
| 0.502 | 41.63 | 35.38 | -4.39 | -10.64 | 46.02 | 0.09 | 0.12 | 9.70 |
| 2.558 | 40.40 | 30.48 | -5.60 | -15.52 | 46.00 | 0.17 | 0.17 | 9.70 |

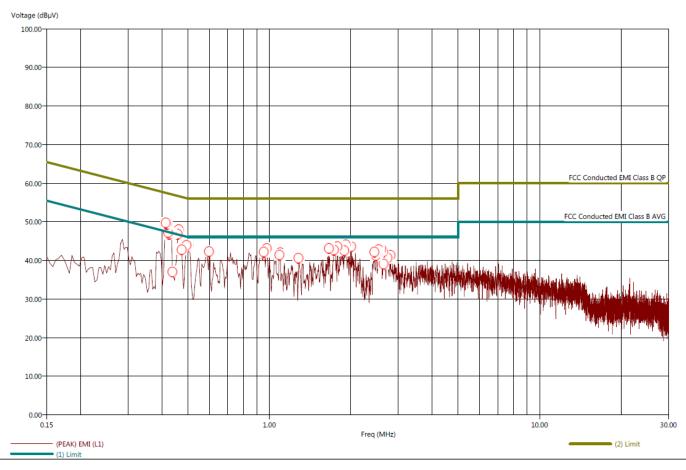


FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: FCC Class B - Black Lead File: 5 - CE - Pre-Scan - Black Lead - Tx Mode - FCC 15.247 - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Siren Chime EUT Condition: The EUT is continuously receiving at 345 MHz and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. Model: CS-902 S/N: N/A

12/14/2020 7:55:17 AM Sequence: Preliminary Scan



FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: FCC Class B - Black Lead File: S - CE - Final Scan - Black Lead - Tx Mode - FCC 15.247 - 12-14-2020.set
Operator: Kyle Fujimoto
EUT Type: ClearSky Siren Chime EUT Condition: The EUT is continuously receiving at 345 MHz and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. Model: CS-902 S/N: N/A

12/14/2020 7:57:44 AM Sequence: Final Measurements

| Freq (MHz) | (PEAK) EMI (dBµV) | (QP) EMI (dBµV) | (PEAK) Margin (QP) (dB) | (QP) Margin (QP) (dB) | (QP) Limit (dBµV) | Cable (dB) | Transducer (dB) | Filter (dB) |
|---------------|----------------------|--------------------|----------------------------|--------------------------|----------------------|---------------|--------------------|----------------|
| 0.414 | 52.20 | 48.48 | -5.23 | -8.95 | 57.42 | 0.08 | 0.12 | 9.70 |
| 0.418 | 52.11 | 48.39 | -5.34 | -9.06 | 57.45 | 0.08 | 0.12 | 9.70 |
| 0.422 | 51.43 | 47.26 | -5.87 | -10.04 | 57.30 | 0.08 | 0.12 | 9.70 |
| 0.426 | 51.94 | 48.46 | -5.47 | -8.95 | 57.41 | 0.08 | 0.12 | 9.70 |
| 0.430 | 52.19 | 48.18 | -5.29 | -9.30 | 57.48 | 0.08 | 0.12 | 9.70 |
| 0.434 | 47.81 | 46.53 | -9.37 | -10.65 | 57.18 | 0.08 | 0.12 | 9.70 |
| 0.438 | 50.18 | 46.66 | -7.03 | -10.55 | 57.20 | 0.08 | 0.12 | 9.70 |
| 0.458 | 48.44 | 47.21 | -8.12 | -9.35 | 56.56 | 0.09 | 0.12 | 9.70 |
| 0.462 | 48.41 | 47.26 | -8.13 | -9.28 | 56.54 | 0.09 | 0.12 | 9.70 |
| 0.466 | 50.30 | 46.87 | -6.41 | -9.84 | 56.71 | 0.09 | 0.12 | 9.70 |
| 0.470 | 48.57 | 47.24 | -7.98 | -9.31 | 56.55 | 0.09 | 0.12 | 9.70 |
| 0.474 | 48.68 | 47.27 | -7.86 | -9.27 | 56.54 | 0.09 | 0.12 | 9.70 |
| 0.494 | 47.82 | 44.52 | -8.21 | -11.51 | 56.03 | 0.09 | 0.12 | 9.70 |
| 0.498 | 49.25 | 44.76 | -6.81 | -11.30 | 56.06 | 0.09 | 0.12 | 9.70 |
| 0.502 | 48.44 | 43.73 | -7.68 | -12.39 | 56.12 | 0.09 | 0.12 | 9.70 |
| 0.506 | 48.67 | 44.15 | -7.34 | -11.86 | 56.01 | 0.09 | 0.12 | 9.70 |
| 0.598 | 43.13 | 40.37 | -12.87 | -15.63 | 56.00 | 0.09 | 0.12 | 9.68 |
| 0.954 | 45.63 | 40.01 | -10.37 | -15.99 | 56.00 | 0.10 | 0.13 | 9.61 |
| 0.958 | 44.27 | 39.19 | -11.73 | -16.81 | 56.00 | 0.10 | 0.13 | 9.61 |
| 0.978 | 43.86 | 39.00 | -12.14 | -17.00 | 56.00 | 0.10 | 0.13 | 9.60 |
| 1.090 | 42.27 | 40.44 | -13.73 | -15.56 | 56.00 | 0.11 | 0.13 | 9.61 |
| 1.098 | 42.30 | 40.44 | -13.70 | -15.56 | 56.00 | 0.11 | 0.13 | 9.61 |
| 1.282 | 32.41 | 36.84 | -23.59 | -19.16 | 56.00 | 0.12 | 0.14 | 9.64 |
| 1.286 | 40.07 | 37.00 | -15.93 | -19.00 | 56.00 | 0.12 | 0.14 | 9.64 |
| 1.662 | 44.73 | 39.72 | -11.27 | -16.28 | 56.00 | 0.14 | 0.14 | 9.67 |
| 1.734 | 45.33 | 40.91 | -10.67 | -15.09 | 56.00 | 0.14 | 0.15 | 9.68 |
| 1.786 | 44.26 | 40.62 | -11.74 | -15.38 | 56.00 | 0.14 | 0.15 | 9.68 |
| 1.790 | 44.03 | 40.74 | -11.97 | -15.26 | 56.00 | 0.14 | 0.15 | 9.68 |
| 1.894 | 45.02 | 40.16 | -10.98 | -15.84 | 56.00 | 0.15 | 0.15 | 9.69 |
| 1.898 | 43.80 | 39.98 | -12.20 | -16.02 | 56.00 | 0.15 | 0.15 | 9.69 |
| 1.918 | 45.07 | 41.34 | -10.93 | -14.66 | 56.00 | 0.15 | 0.15 | 9.69 |
| 1.930 | 45.16 | 41.21 | -10.84 | -14.79 | 56.00 | 0.15 | 0.15 | 9.69 |
| 2.010 | 43.11 | 39.71 | -12.89 | -16.29 | 56.00 | 0.15 | 0.15 | 9.70 |
| 2.450 | 43.53 | 39.85 | -12.47 | -16.15 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.478 | 44.26 | 40.22 | -11.74 | -15.78 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.494 | 43.91 | 40.98 | -12.09 | -15.02 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.514 | 43.79 | 40.43 | -12.21 | -15.57 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.538 | 43.62 | 40.42 | -12.38 | -15.58 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.542 | 43.51 | 40.61 | -12.49 | -15.39 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.598 | 44.21 | 39.96 | -11.79 | -16.04 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.642 | 43.36 | 39.50 | -12.64 | -16.50 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.646 | 42.99 | 39.14 | -13.01 | -16.86 | 56.00 | 0.17 | 0.16 | 9.70 |
| 2.738 | 41.65 | 38.17 | -14.35 | -17.83 | 56.00 | 0.17 | 0.17 | 9.70 |
| 2.810 | 41.93 | 37.44 | -14.07 | -18.56 | 56.00 | 0.18 | 0.17 | 9.70 |
| 2.814 | 41.88 | 37.19 | -14.12 | -18.81 | 56.00 | 0.18 | 0.17 | 9.70 |

Title: FCC Class B - Black Lead File: 5 - CE - Final Scan - Black Lead - Tx Mode - FCC 15.247 - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Siren Chime EUT Condition: The EUT is continuously receiving 345 MHz and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. Model: CS-902 S/N: N/A

12/14/2020 7:57:44 AM Sequence: Final Measurements

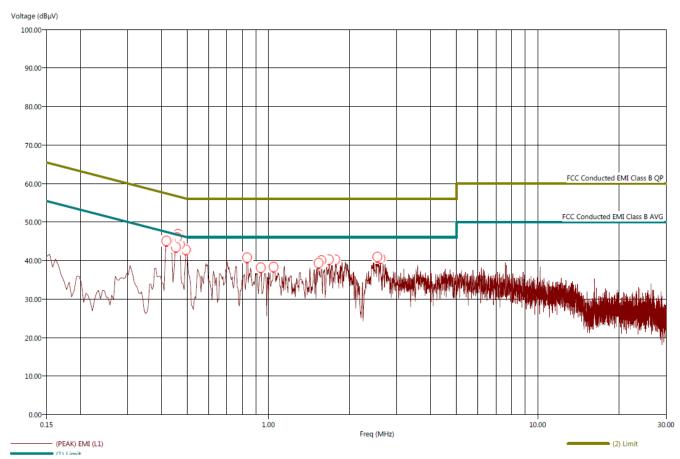
| | | | | Diden Lead | | | | |
|----------------|----------------------|---------------------|-----------------------------|----------------------------|-----------------------|---------------|--------------------|----------------|
| Freq (MHz) | (PEAK) EMI (dBµV) | (AVG) EMI (dBµV) | (PEAK) Margin (AVG) (dB) | (AVG) Margin (AVG) (dB) | (AVG) Limit (dBµV) | Cable (dB) | Transducer (dB) | Filter (dB) |
| 0.414 | 52.20 | 41.69 | 4.77 | -5.74 | 47.42 | 0.08 | 0.12 | 9.70 |
| 0.414 | 52.11 | 41.09 | 4.66 | -6.36 | 47.45 | 0.08 | 0.12 | 9.70 |
| 0.422 | 51.43 | 43.43 | 4.13 | -3.87 | 47.30 | 0.08 | 0.12 | 9.70 |
| 0.426 | 51.94 | 42.09 | 4.53 | -5.32 | 47.41 | 0.08 | 0.12 | 9.70 |
| 0.430 | 52.19 | 39.95 | 4.53 | -5.32 -7.53 | 47.41 47.48 | 0.08 | 0.12 | 9.70 |
| | 47.81 | | | -7.53 -5.97 | 47.18 | | | |
| 0.434 0.438 | | 41.21 41.45 | 0.63 2.97 | -5.76 | 47.18 47.20 | 0.08 | 0.12 | 9.70 9.70 |
| 0.458 | 50.18 48.44 | 43.29 | 1.88 | -3.27 | 46.56 | 0.08 0.09 | 0.12 0.12 | 9.70 |
| | | | | | 46.56 46.54 | | | |
| 0.462 0.466 | 48.41 50.30 | 42.93 41.44 | 1.87 3.59 | -3.61 -5.27 | 46.54 46.71 | 0.09 0.09 | 0.12 0.12 | 9.70 9.70 |
| | 48.57 | | | | 46.71 | | 0.12 | 9.70 |
| 0.470 0.474 | 48.57 | 43.20 41.88 | 2.02 2.14 | -3.35 -4.66 | 46.55 46.54 | 0.09 | 0.12 | 9.70 |
| 0.494 | 48.68 47.82 | 41.88 38.68 | 2.14 1.79 | -4.66 -7.35 | 46.54 46.03 | 0.09 0.09 | 0.12 | 9.70 |
| 0.498 | 49.25 | 38.02 | 3.19 | -7.35 -8.04 | 46.03 | 0.09 | 0.12 | 9.70 |
| | | | | | | | 0.12 | 9.70 |
| 0.502 0.506 | 48.44 48.67 | 36.35 38.71 | 2.32 2.66 | -9.77 -7.30 | 46.12 46.01 | 0.09 0.09 | 0.12 | 9.70 |
| 0.598 | 43.13 | 22.39 | -2.87 | -23.61 | 46.01 | 0.09 | 0.12 | 9.68 |
| 0.954 | 45.63 | 31.20 | -0.37 | -14.80 | 46.00 | 0.10 | 0.12 | 9.61 |
| 0.958 | 44.27 | 30.35 | -1.73 | -15.65 | 46.00 | 0.10 | 0.13 | 9.61 |
| | 43.86 | 30.38 | -2.14 | | | 0.10 | | 9.60 |
| 0.978 1.090 | 43.86 | 33.26 | -2.14 -3.73 | -15.62 -12.74 | 46.00 46.00 | 0.10 | 0.13 0.13 | 9.60 |
| 1.098 | 42.30 | 33.52 | -3.70 | -12.48 | 46.00 | 0.11 | 0.13 | 9.61 |
| | | | | | | | | |
| 1.282 1.286 | 32.41 40.07 | 30.47 31.03 | -13.59 -5.93 | -15.53 -14.97 | 46.00 46.00 | 0.12 0.12 | 0.14 0.14 | 9.64 9.64 |
| 1.662 | 44.73 | 33.40 | -1.27 | -12.60 | 46.00 | 0.14 | 0.14 | 9.67 |
| 1.734 | 45.33 | 34.70 | -0.67 | -11.30 | 46.00 | 0.14 | 0.15 | 9.68 |
| 1.786 | 44.26 | 34.57 | -1.74 | -11.43 | 46.00 | 0.14 | 0.15 | 9.68 |
| 1.790 | 44.03 | 34.37 | -1.97 | -11.63 | 46.00 | 0.14 | 0.15 | 9.68 |
| 1.894 | 45.02 | 34.13 | -0.98 | -11.87 | 46.00 | 0.15 | 0.15 | 9.69 |
| 1.898 | 43.80 | 34.16 | -2.20 | -11.84 | 46.00 | 0.15 | 0.15 | 9.69 |
| 1.918 | 45.07 | 34.90 | -0.93 | -11.10 | 46.00 | 0.15 | 0.15 | 9.69 |
| 1.930 | 45.16 | 34.76 | -0.84 | -11.10 | 46.00 | 0.15 | 0.15 | 9.69 |
| 2.010 | 43.11 | 32.69 | -2.89 | -13.31 | 46.00 | 0.15 | 0.15 | 9.70 |
| 2.450 | 43.53 | 33.39 | -2.47 | -12.61 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.478 | 44.26 | 34.20 | -1.74 | -11.80 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.494 | 43.91 | 34.80 | -2.09 | -11.20 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.514 | 43.79 | 34.19 | -2.03 | -11.81 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.538 | 43.62 | 34.53 | -2.38 | -11.61 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.542 | 43.51 | 34.52 | -2.49 | -11.48 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.598 | 44.21 | 33.40 | -1.79 | -12.60 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.642 | 43.36 | 32.83 | -2.64 | -13.17 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.642 | 42.99 | 32.62 | -3.01 | -13.38 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.738 | 41.65 | 32.62 | -3.01 -4.35 | -13.38 | 46.00 | 0.17 | 0.16 | 9.70 |
| 2.810 | 41.93 | 31.34 | -4.07 | -14.66 | 46.00 | 0.17 | 0.17 | 9.70 |
| 2.814 | 41.88 | 31.34 | -4.07 -4.12 | -14.66 | 46.00 | 0.18 | 0.17 | 9.70 |
| 2.014 | 41.68 | 51.54 | -4.12 | -14.66 | 40.00 | 0.18 | 0.17 | 9.70 |

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: FCC Class B - White Lead File: 6 - CE - Pre-Scan - White Lead - Tx Mode - FCC 15.247 - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Siren
EUT Condition: The EUT is continuously receiving at 345 MHz and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. M/N: CS-902

12/14/2020 8:08:14 AM Sequence: Preliminary Scan





FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: FCC Class B - White Lead File: 6 - CE - Final Scan - White Lead - Tx Mode - FCC 15.247 - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Siren Chime EUT Condition: The EUT is continuously receiving at 345 MHz and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. Model: CS-902 S/N: N/A

12/14/2020 8:10:22 AM Sequence: Final Measurements

| Freq | (PEAK) EMI | (QP) EMI | (PEAK) Margin (QP) | (QP) Margin (QP) | (QP) Limit | Cable | Transducer | Filter |
|-------|------------|----------|--------------------|------------------|------------|-------|------------|--------|
| (MHz) | (dBµV) | (dBµV) | (dB) | (dB) | (dBµV) | (dB) | (dB) | (dB) |
| 0.418 | 45.95 | 44.46 | -11.29 | -12.78 | 57.24 | 0.08 | 0.12 | 9.70 |
| 0.422 | 45.99 | 44.47 | -11.37 | -12.89 | 57.36 | 0.08 | 0.12 | 9.70 |
| 0.426 | 46.31 | 44.30 | -11.11 | -13.12 | 57.42 | 0.08 | 0.12 | 9.70 |
| 0.430 | 45.68 | 44.38 | -11.52 | -12.82 | 57.21 | 0.08 | 0.12 | 9.70 |
| 0.434 | 45.79 | 44.52 | -11.44 | -12.71 | 57.24 | 0.08 | 0.12 | 9.70 |
| 0.454 | 47.47 | 45.62 | -9.01 | -10.86 | 56.47 | 0.09 | 0.12 | 9.70 |
| 0.458 | 47.37 | 45.06 | -9.21 | -11.52 | 56.57 | 0.09 | 0.12 | 9.70 |
| 0.462 | 47.60 | 45.47 | -8.93 | -11.06 | 56.53 | 0.09 | 0.12 | 9.70 |
| 0.466 | 47.17 | 45.08 | -9.41 | -11.50 | 56.58 | 0.09 | 0.12 | 9.70 |
| 0.470 | 47.59 | 45.60 | -8.91 | -10.90 | 56.50 | 0.09 | 0.12 | 9.70 |
| 0.494 | 42.31 | 40.47 | -13.69 | -15.53 | 56.00 | 0.09 | 0.12 | 9.70 |
| 0.498 | 43.18 | 40.80 | -12.83 | -15.21 | 56.01 | 0.09 | 0.12 | 9.70 |
| 0.834 | 40.93 | 36.95 | -15.07 | -19.05 | 56.00 | 0.10 | 0.13 | 9.62 |
| 0.938 | 40.05 | 36.65 | -15.95 | -19.35 | 56.00 | 0.10 | 0.13 | 9.61 |
| 1.046 | 40.47 | 37.37 | -15.53 | -18.63 | 56.00 | 0.10 | 0.13 | 9.61 |
| 1.050 | 40.31 | 37.39 | -15.69 | -18.61 | 56.00 | 0.10 | 0.13 | 9.61 |
| 1.538 | 40.20 | 37.48 | -15.80 | -18.52 | 56.00 | 0.13 | 0.14 | 9.66 |
| 1.574 | 39.76 | 37.39 | -16.24 | -18.61 | 56.00 | 0.13 | 0.14 | 9.67 |
| 1.678 | 41.38 | 38.17 | -14.62 | -17.83 | 56.00 | 0.14 | 0.14 | 9.67 |
| 1.774 | 41.59 | 38.27 | -14.41 | -17.73 | 56.00 | 0.14 | 0.15 | 9.68 |
| 2.542 | 41.64 | 38.60 | -14.36 | -17.40 | 56.00 | 0.17 | 0.17 | 9.70 |
| 2.610 | 41.11 | 37.39 | -14.89 | -18.61 | 56.00 | 0.17 | 0.17 | 9.70 |



Title: FCC Class B - White Lead File: 6 - CE - Final Scan - White Lead - Tx Mode - FCC 15.247 - 12-14-2020.set Operator: Kyle Fujimoto EUT Type: ClearSky Siren Chtme EUT Condition: The EUT is continuously receiving at 345 MHz and Siren On Constantly Company: Ecolink Intelligent Technology, Inc. Model: CS-902 S/N: N/A

12/14/2020 8:10:22 AM Sequence: Final Measurements

| Freq | (PEAK) EMI | (AVG) EMI | (PEAK) Margin (AVG) | (AVG) Margin (AVG) | (AVG) Limit | Cable | Transducer | Filter |
|-------|------------|-----------|---------------------|--------------------|-------------|-------|------------|--------|
| (MHz) | (dBµV) | (dBµV) | (dB) | (dB) | (dBµV) | (dB) | (dB) | (dB) |
| 0.418 | 45.95 | 40.97 | -1.29 | -6.27 | 47.24 | 0.08 | 0.12 | 9.70 |
| 0.422 | 45.99 | 39.16 | -1.37 | -8.20 | 47.36 | 0.08 | 0.12 | 9.70 |
| 0.426 | 46.31 | 37.38 | -1.11 | -10.04 | 47.42 | 0.08 | 0.12 | 9.70 |
| 0.430 | 45.68 | 40.67 | -1.52 | -6.53 | 47.21 | 0.08 | 0.12 | 9.70 |
| 0.434 | 45.79 | 41.02 | -1.44 | -6.21 | 47.24 | 0.08 | 0.12 | 9.70 |
| 0.454 | 47.47 | 39.30 | 0.99 | -7.18 | 46.47 | 0.09 | 0.12 | 9.70 |
| 0.458 | 47.37 | 41.12 | 0.79 | -5.46 | 46.57 | 0.09 | 0.12 | 9.70 |
| 0.462 | 47.60 | 41.24 | 1.07 | -5.29 | 46.53 | 0.09 | 0.12 | 9.70 |
| 0.466 | 47.17 | 41.16 | 0.59 | -5.42 | 46.58 | 0.09 | 0.12 | 9.70 |
| 0.470 | 47.59 | 40.57 | 1.09 | -5.93 | 46.50 | 0.09 | 0.12 | 9.70 |
| 0.494 | 42.31 | 35.48 | -3.69 | -10.52 | 46.00 | 0.09 | 0.12 | 9.70 |
| 0.498 | 43.18 | 35.31 | -2.83 | -10.70 | 46.01 | 0.09 | 0.12 | 9.70 |
| 0.834 | 40.93 | 29.27 | -5.07 | -16.73 | 46.00 | 0.10 | 0.13 | 9.62 |
| 0.938 | 40.05 | 30.51 | -5.95 | -15.49 | 46.00 | 0.10 | 0.13 | 9.61 |
| 1.046 | 40.47 | 30.95 | -5.53 | -15.05 | 46.00 | 0.10 | 0.13 | 9.61 |
| 1.050 | 40.31 | 30.69 | -5.69 | -15.31 | 46.00 | 0.10 | 0.13 | 9.61 |
| 1.538 | 40.20 | 30.43 | -5.80 | -15.57 | 46.00 | 0.13 | 0.14 | 9.66 |
| 1.574 | 39.76 | 29.95 | -6.24 | -16.05 | 46.00 | 0.13 | 0.14 | 9.67 |
| 1.678 | 41.38 | 31.44 | -4.62 | -14.56 | 46.00 | 0.14 | 0.14 | 9.67 |
| 1.774 | 41.59 | 32.14 | -4.41 | -13.86 | 46.00 | 0.14 | 0.15 | 9.68 |
| 2.542 | 41.64 | 31.95 | -4.36 | -14.05 | 46.00 | 0.17 | 0.17 | 9.70 |
| 2.610 | 41.11 | 30.61 | -4.89 | -15.39 | 46.00 | 0.17 | 0.17 | 9.70 |

RADIATED EMISSIONS

DATA SHEETS

12/10/2020 11:28:19 AM

Sequence: Preliminary Scan

Report Number: B01214D1



Model: CS-902

Title: Pre-Scan - FCC Class B

File: 1 - Keysight - Pre-Scan - Y-Axis - SIREN ON - Tx Mode - CS-902 - FCC 15.231 - 12-10-2020.set

Operator: Kyle Fujimoto

EUT Type: ClearSky Siren Chime EUT Condition: The EUT is continuously transmitting at 345 MHz and SIREN ON constantly

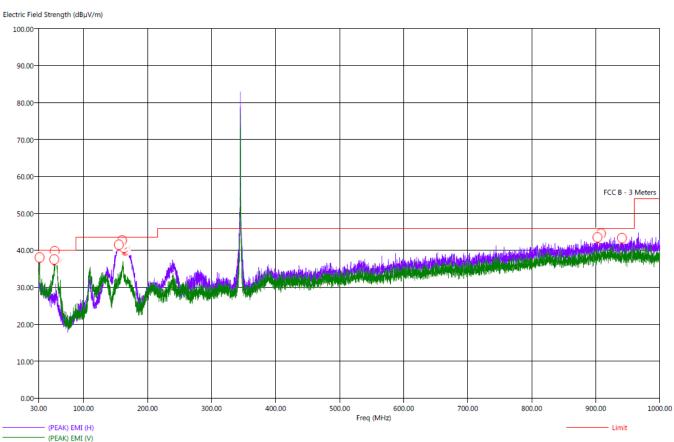
Company: Ecolink Intelligent Technology, Inc.

Model: CS-902

S/N: N/A

Note: The Emissions at 345 MHz and 690 MHz are from the intentional radiator of the EUT and are subject to the limits of FCC 15.231 instead.

FCC Class B





Title: Radiated Final - FCC Class B

File: 1 - Keysight - Final Scan - Y-Axis - SIREN ON - Tx Mode - CS-902 - FCC 15.231 - 12-10-2020.set

Operator: Kyle Fujimoto

EUT Type: ClearSky Siren Chime EUT Condition: The EUT is continuously transmitting at 345 MHz and SIREN ON constantly

Company: Ecolink Intelligent Technology, Inc.

Model: CS-902 S/N: N/A Y-Axis (Worst Case)

12/10/2020 11:38:42 AM Sequence: Final Measurements

FCC Class B

| Freq (MHz) | Pol | (PEAK) EMI (dBµV/m) | (QP) EMI (dBµV/m) | (PEAK) Margin (dB) | (QP) Margin (dB) | Limit (dBµV/m) | Transducer (dB) | Cable (dB) | Ttbl Agl (deg) | Twr Ht (cm) |
|---------------|-----|------------------------|----------------------|-----------------------|---------------------|-------------------|--------------------|---------------|-------------------|----------------|
| 31.50 | V | 39.41 | 31.27 | -0.59 | -8.73 | 40.00 | 21.65 | 0.33 | 277.50 | 142.62 |
| 54.40 | v | 40.57 | 33.69 | 0.57 | -6.31 | 40.00 | 17.02 | 0.46 | 145.25 | 111.10 |
| 55.20 | v | 35.80 | 32.67 | -4.20 | -7.33 | 40.00 | 16.84 | 0.46 | 202.75 | 191.16 |
| 56.00 | V | 43.97 | 36.05 | 3.97 | -3.95 | 40.00 | 16.44 | 0.47 | 196.25 | 111.40 |
| 56.70 | V | 43.67 | 36.40 | 3.67 | -3.60 | 40.00 | 16.24 | 0.47 | 204.75 | 142.92 |
| 58.30 | V | 41.67 | 35.54 | 1.67 | -4.46 | 40.00 | 15.79 | 0.47 | 258.50 | 142.98 |
| 58.80 | V | 40.14 | 34.17 | 0.14 | -5.83 | 40.00 | 15.57 | 0.48 | 223.00 | 143.46 |
| 59.10 | V | 39.29 | 32.71 | -0.71 | -7.29 | 40.00 | 15.44 | 0.48 | 89.00 | 127.70 |
| 155.30 | н | 42.39 | 39.35 | -1.11 | -4.15 | 43.50 | 16.28 | 0.86 | 81.00 | 208.89 |
| 160.30 | н | 43.81 | 40.89 | 0.31 | -2.61 | 43.50 | 20.04 | 0.87 | 90.50 | 190.92 |
| 161.20 | н | 45.27 | 41.16 | 1.77 | -2.34 | 43.50 | 22.00 | 0.88 | 81.25 | 196.47 |
| 161.90 | н | 44.34 | 40.78 | 0.84 | -2.72 | 43.50 | 22.08 | 0.88 | 81.00 | 223.16 |
| 163.60 | н | 42.55 | 39.20 | -0.95 | -4.30 | 43.50 | 17.78 | 0.89 | 95.00 | 239.16 |
| 165.10 | н | 42.26 | 39.01 | -1.24 | -4.49 | 43.50 | 15.90 | 0.89 | 78.75 | 143.04 |
| 902.70 | н | 43.89 | 38.21 | -2.11 | -7.79 | 46.00 | 27.60 | 2.45 | 157.00 | 159.04 |
| 908.20 | н | 30.30 | 38.45 | -15.70 | -7.55 | 46.00 | 27.82 | 2.48 | 310.50 | 111.52 |
| 940.80 | н | 44.64 | 38.89 | -1.36 | -7.11 | 46.00 | 27.89 | 2.61 | 202.25 | 317.37 |

12/10/2020 2:23:05 PM

Sequence: Preliminary Scan

Report Number: B01214D1



FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime Model: CS-902

Title: Pre-Scan - FCC Class B

File: 99 - Keysight - Pre-Scan - Z-Axis - SIREN ON - Rx Mode - CS-902 - FCC 15.231 - 12-10-2020.set

Operator: Kyle Fujimoto

EUT Type: ClearSky Siren Chime

EUT Condition: The EUT is continuously receiving at 345 MHz and SIREN ON constantly

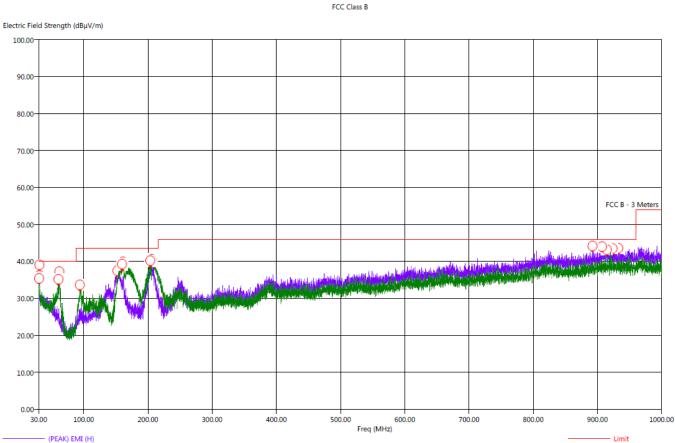
Company: Ecolink Intelligent Technology, Inc.

(PEAK) EMI (V)

Model: CS-902

S/N: N/A
Note: The Emissions at 345 MHz and 690 MHz are from the intentional radiator of the EUT and are subject to the limits of FCC 15.231 instead.

Z-Axis (Worst Case)



12/10/2020 2:48:30 PM

Sequence: Final Measurements

Report Number: B01214D1



Model: CS-902

Title: Radiated Final - FCC Class B

File: 99 - Keysight - Final Scan - Z-Axis - SIREN ON - Rx Mode - CS-902 - FCC 15.231 - 12-10-2020.set

Operator: Kyle Fujimoto
EUT Type: ClearSky Siren Chime
EUT Condition: The EUT is continuously receiving at 345 MHz and SIREN ON constantly

Company: Ecolink Intelligent Technology, Inc.

Model: CS-902 S/N: N/A Z-Axis (Worst Case)

FCC Class B

| Freq | Pol | (PEAK) EMI | (QP) EMI | (PEAK) Margin | (QP) Margin | Limit | Transducer | Cable | Ttbl Agl | Twr Ht |
|--------|-----|---------------|----------|---------------|-------------|----------|------------|-------|----------|--------|
| (MHz) | | $(dB\mu V/m)$ | (dBµV/m) | (dB) | (dB) | (dBµV/m) | (dB) | (dB) | (deg) | (cm) |
| 30.50 | V | 36.46 | 30.03 | -3.54 | -9.97 | 40.00 | 21.89 | 0.32 | 13.25 | 238.80 |
| 31.00 | V | 39.27 | 32.54 | -0.73 | -7.46 | 40.00 | 21.78 | 0.33 | 55.75 | 126.98 |
| 31.30 | V | 38.08 | 31.77 | -1.92 | -8.23 | 40.00 | 21.65 | 0.33 | 275.00 | 174.32 |
| 60.80 | V | 35.66 | 29.76 | -4.34 | -10.24 | 40.00 | 14.70 | 0.48 | 17.00 | 143.28 |
| 62.20 | V | 34.43 | 28.36 | -5.57 | -11.64 | 40.00 | 14.36 | 0.49 | 354.50 | 190.20 |
| 94.00 | V | 34.35 | 30.32 | -9.15 | -13.18 | 43.50 | 14.06 | 0.69 | 79.50 | 111.28 |
| 152.50 | Н | 38.81 | 35.18 | -4.69 | -8.32 | 43.50 | 15.80 | 0.85 | 294.00 | 191.52 |
| 152.70 | Н | 39.38 | 35.88 | -4.12 | -7.62 | 43.50 | 15.87 | 0.85 | 308.50 | 207.22 |
| 159.60 | V | 40.90 | 37.17 | -2.60 | -6.33 | 43.50 | 18.93 | 0.87 | 251.50 | 111.28 |
| 160.20 | V | 40.83 | 37.21 | -2.67 | -6.29 | 43.50 | 19.79 | 0.87 | 259.00 | 111.28 |
| 160.90 | V | 42.03 | 38.05 | -1.47 | -5.45 | 43.50 | 22.00 | 0.88 | 255.75 | 110.50 |
| 203.60 | V | 41.22 | 37.74 | -2.28 | -5.76 | 43.50 | 15.10 | 1.04 | 103.50 | 111.04 |
| 204.70 | V | 41.65 | 38.14 | -1.85 | -5.36 | 43.50 | 15.05 | 1.04 | 105.50 | 111.52 |
| 206.20 | V | 41.71 | 38.61 | -1.79 | -4.89 | 43.50 | 15.10 | 1.05 | 106.75 | 111.04 |
| 892.40 | Н | 44.11 | 38.07 | -1.89 | -7.93 | 46.00 | 27.40 | 2.42 | 6.00 | 365.73 |
| 907.20 | Н | 43.03 | 38.52 | -2.97 | -7.48 | 46.00 | 27.80 | 2.47 | 138.50 | 383.16 |
| 914.80 | Н | 43.96 | 38.85 | -2.04 | -7.15 | 46.00 | 28.00 | 2.50 | 146.00 | 286.44 |
| 923.60 | Н | 43.89 | 38.88 | -2.11 | -7.12 | 46.00 | 27.96 | 2.54 | 148.50 | 222.62 |
| 932.40 | Н | 43.68 | 38.81 | -2.32 | -7.19 | 46.00 | 27.84 | 2.58 | 325.00 | 397.55 |

FUNDAMENTAL AND HARMONICS

DATA SHEETS





FCC 15.231

Ecolink Intelligent Technology, Inc. Date: 12/9/2020

ClearSky Siren Chime Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Fundamental

| <u> </u> | 1 | | | ı | l | l | ı | |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|-------------------------|
| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments |
| 345.00 | 92.95 | V | 97.26 | -4.31 | Peak | 116.75 | 147.52 | X-Axis |
| 345.00 | 74.22 | V | 77.26 | -3.04 | Avg | 116.75 | 147.52 | Vertical Polarization |
| | | | | | | | | |
| 345.00 | 92.87 | V | 97.26 | -4.39 | Peak | 30.00 | 176.35 | Y-Axis |
| 345.00 | 74.14 | V | 77.26 | -3.12 | Avg | 30.00 | 176.35 | Vertical Polarization |
| | | | | | |) | | |
| 345.00 | 92.56 | V | 97.26 | -4.70 | Peak | 81.25 | 121.67 | Z-Axis |
| 345.00 | 73.83 | V | 77.26 | -3.43 | Avg | 81.25 | 121.67 | Vertical Polarization |
| | | | | | | | | |
| 345.00 | 95.39 | Н | 97.26 | -1.87 | Peak | 20.00 | 106.14 | X-Axis |
| 345.00 | 76.66 | Н | 77.26 | -0.60 | Avg | 20.00 | 106.14 | Horizontal Polarization |
| | | | | | | | | |
| 345.00 | 91.89 | Н | 97.26 | -5.37 | Peak | 85.00 | 105.19 | Y-Axis |
| 345.00 | 73.16 | Н | 77.26 | -4.10 | Avg | 85.00 | 105.19 | Horizontal Polarization |
| | | | | | | | | |
| 345.00 | 93.41 | Н | 97.26 | -3.85 | Peak | 289.75 | 137.43 | Z-Axis |
| 345.00 | 74.68 | Н | 77.26 | -2.58 | Avg | 289.75 | 137.43 | Horizontal Polarization |
| | | | | | | | | |
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FCC 15.231

Ecolink Intelligent Technology, Inc. Date: 12/9/2020

ClearSky Siren Chime Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Harmonics

Transmit Mode - X-Axis

| .43 \\ .55 \\ .82 \\ .50 \\ | V | 77.26 57.26 73.97 | -40.10 -38.83 | Peak Avg | 147.50 | 131.40 | |
|-----------------------------|---------------------------------|--------------------------|--|---|--|--|--|
| 1.55 \\ 1.82 \\ 1.50 \\ | V | 73.97 | -38.83 | Avg | | | |
| .50 | | | | | 147.50 | 131.40 | |
| .50 \ | V | | -34.42 | Peak | 66.00 | 100.25 | |
| | | 53.97 | -33.15 | Avg | 66.00 | 100.25 | |
| .77 | V | 73.97 | -29.47 | Peak | 210.50 | 132.17 | |
| | V | 53.97 | -28.20 | Avg | 210.50 | 132.17 | |
| .38 \ | V | 77.26 | -36.88 | Peak | 8.25 | 102.68 | |
| .65 \ | V | 57.26 | -35.61 | Avg | 8.25 | 102.68 | |
| .09 \ | V | 77.26 | -38.17 | Peak | 18.00 | 105.24 | |
| .36 | V | 57.26 | -36.90 | Avg | 18.00 | 105.24 | |
| i.31 \ | V | 77.26 | -41.95 | Peak | 337.00 | 101.25 | |
| .58 | V | 57.26 | -40.68 | Avg | 337.00 | 101.25 | |
| .21 \ | V | 73.97 | -37.76 | Peak | 350.00 | 102.68 | |
| .48 \ | V | 53.97 | -36.49 | Avg | 350.00 | 102.68 | |
| .88 \ | V | 77.26 | -40.38 | Peak | 179.25 | 101.25 | |
| | V | 57.26 | -39.11 | Avg | 179.25 | 101.25 | |
| .13 | V | 77.26 | -39.13 | Peak | 125.25 | 103.26 | |
| | | 57.26 | -37.86 | Avg | 125.25 | 103.26 | |
| | .58 .21 .48 .88 .15 | 58 V 21 V 48 V 88 V 15 V | 58 V 57.26 21 V 73.97 48 V 53.97 88 V 77.26 15 V 57.26 13 V 77.26 | 58 V 57.26 -40.68 21 V 73.97 -37.76 48 V 53.97 -36.49 88 V 77.26 -40.38 15 V 57.26 -39.11 13 V 77.26 -39.13 | 58 V 57.26 -40.68 Avg 21 V 73.97 -37.76 Peak 48 V 53.97 -36.49 Avg 88 V 77.26 -40.38 Peak 15 V 57.26 -39.11 Avg 13 V 77.26 -39.13 Peak | 58 V 57.26 -40.68 Avg 337.00 21 V 73.97 -37.76 Peak 350.00 48 V 53.97 -36.49 Avg 350.00 88 V 77.26 -40.38 Peak 179.25 15 V 57.26 -39.11 Avg 179.25 13 V 77.26 -39.13 Peak 125.25 | 58 V 57.26 -40.68 Avg 337.00 101.25 21 V 73.97 -37.76 Peak 350.00 102.68 48 V 53.97 -36.49 Avg 350.00 102.68 88 V 77.26 -40.38 Peak 179.25 101.25 15 V 57.26 -39.11 Avg 179.25 101.25 13 V 77.26 -39.13 Peak 125.25 103.26 |





FCC 15.231

Ecolink Intelligent Technology, Inc. Date: 12/9/2020

ClearSky Siren Chime Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Harmonics

Transmit Mode - Y-Axis

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|----------|
| 690.00 | 40.09 | V | 77.26 | -37.17 | Peak | 110.75 | 121.55 | |
| 690.00 | 21.36 | V | 57.26 | -35.90 | Avg | 110.75 | 121.55 | |
| 1035.00 | 42.72 | V | 73.97 | -31.25 | Peak | 328.75 | 158.20 | |
| 1035.00 | 23.99 | V | 53.97 | -29.98 | Avg | 328.75 | 158.20 | |
| 1380.00 | 48.91 | V | 73.97 | -25.07 | Peak | 10.00 | 147.58 | |
| 1380.00 | 30.18 | V | 53.97 | -23.80 | Avg | 10.00 | 147.58 | |
| 1725.00 | 40.06 | V | 77.26 | -37.20 | Peak | 212.00 | 125.97 | |
| 1725.00 | 21.33 | V | 57.26 | -35.93 | Avg | 212.00 | 125.97 | |
| 2070.00 | 40.22 | V | 77.26 | -37.04 | Peak | 35.25 | 114.56 | |
| 2070.00 | 21.49 | V | 57.26 | -35.77 | Avg | 35.25 | 114.56 | |
| 2415.00 | 34.93 | V | 77.26 | -42.33 | Peak | 307.75 | 108.11 | |
| 2415.00 | 16.20 | V | 57.26 | -41.06 | Avg | 307.75 | 108.11 | |
| 2760.00 | 38.72 | V | 73.97 | -35.25 | Peak | 174.25 | 104.89 | |
| 2760.00 | 19.99 | V | 53.97 | -33.98 | Avg | 174.25 | 104.89 | |
| 3105.00 | 35.95 | V | 77.26 | -41.31 | Peak | 39.25 | 105.02 | |
| 3105.00 | 17.22 | V | 57.26 | -40.04 | Avg | 39.25 | 105.02 | |
| 3450.00 | 39.15 | V | 77.26 | -38.11 | Peak | 307.00 | 106.05 | |
| 3450.00 | 20.42 | V | 57.26 | -36.84 | Avg | 307.00 | 106.05 | |
| 3.00.00 | | • | 0.120 | 55.5 | 9 | 55.100 | | |



FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime

Model: CS-902

FCC 15.231

Ecolink Intelligent Technology, Inc. Date: 12/9/2020

ClearSky Siren Chime Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Harmonics

Transmit Mode - Z-Axis

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|----------|
| 690.00 | 35.79 | V | 77.26 | -41.47 | Peak | 47.25 | 121.55 | |
| 690.00 | 17.06 | V | 57.26 | -40.20 | Avg | 47.25 | 121.55 | |
| 1035.00 | 40.48 | V | 73.97 | -33.49 | Peak | 119.50 | 146.74 | |
| 1035.00 | 21.75 | V | 53.97 | -32.22 | Avg | 119.50 | 146.74 | |
| 1380.00 | 45.77 | V | 73.97 | -28.20 | Peak | 325.75 | 125.25 | |
| 1380.00 | 27.04 | V | 53.97 | -26.93 | Avg | 325.75 | 125.25 | |
| 1725.00 | 43.97 | V | 77.26 | -33.30 | Peak | 7.25 | 123.16 | |
| 1725.00 | 25.24 | V | 57.26 | -32.03 | Avg | 7.25 | 123.16 | |
| 2070.00 | 41.64 | V | 77.26 | -35.62 | Peak | 321.00 | 107.40 | |
| 2070.00 | 22.91 | V | 57.26 | -34.35 | Avg | 321.00 | 107.40 | |
| 2415.00 | 39.57 | V | 77.26 | -37.69 | Peak | 210.50 | 100.26 | |
| 2415.00 | 20.84 | V | 57.26 | -36.42 | Avg | 210.50 | 100.26 | |
| 2760.00 | 33.50 | V | 73.97 | -40.47 | Peak | 142.25 | 103.64 | |
| 2760.00 | 14.77 | V | 53.97 | -39.20 | Avg | 142.25 | 103.64 | |
| 3105.00 | 37.23 | V | 77.26 | -40.03 | Peak | 338.00 | 102.25 | |
| 3105.00 | 18.50 | V | 57.26 | -38.76 | Avg | 338.00 | 102.25 | |
| 3450.00 | 37.27 | V | 77.26 | -39.99 | Peak | 11.25 | 145.85 | |
| 3450.00 | 18.54 | V | 57.26 | -38.72 | Avg | 11.25 | 145.85 | |





FCC 15.231

Ecolink Intelligent Technology, Inc. Date: 12/9/2020

ClearSky Siren Chime Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Harmonics

Transmit Mode - X-Axis

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|----------|
| 690.00 | 37.33 | Н | 77.26 | -39.93 | Peak | 55.25 | 119.10 | |
| 690.00 | 18.60 | Н | 57.26 | -38.66 | Avg | 55.25 | 119.10 | |
| 1035.00 | 36.86 | Н | 73.97 | -37.11 | Peak | 70.75 | 100.25 | |
| 1035.00 | 18.13 | Н | 53.97 | -35.84 | Avg | 70.75 | 100.25 | |
| 1380.00 | 46.80 | Н | 73.97 | -27.17 | Peak | 61.25 | 134.62 | |
| 1380.00 | 28.07 | Н | 53.97 | -25.90 | Avg | 61.25 | 134.62 | |
| 1725.00 | 39.49 | Н | 77.26 | -37.77 | Peak | 168.25 | 177.73 | |
| 1725.00 | 20.76 | Н | 57.26 | -36.50 | Avg | 168.25 | 177.73 | |
| | | | | | | | | |
| 2070.00 | 38.98 | Н | 77.26 | -38.28 | Peak | 123.50 | 141.37 | |
| 2070.00 | 20.25 | Н | 57.26 | -37.01 | Avg | 123.50 | 141.37 | |
| 2415.00 | 37.31 | Н | 77.26 | -39.95 | Peak | 350.00 | 142.25 | |
| 2415.00 | 18.58 | Н | 57.26 | -38.68 | Avg | 350.00 | 142.25 | |
| 2760.00 | 34.91 | Н | 73.97 | -39.06 | Peak | 344.75 | 145.25 | |
| 2760.00 | 16.18 | Н | 53.97 | -37.79 | Avg | 344.75 | 145.25 | |
| 3105.00 | 36.20 | Н | 77.26 | -41.06 | Peak | 88.25 | 152.25 | |
| 3105.00 | 17.47 | Н | 57.26 | -39.79 | Avg | 88.25 | 152.25 | |
| 3450.00 | 38.08 | Н | 77.26 | -39.18 | Peak | 251.50 | 141.37 | |
| 3450.00 | 19.35 | H | 57.26 | -37.91 | Avg | 251.50 | 141.37 | |
| | | | | | | | | |



FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime

Model: CS-902

FCC 15.231

Ecolink Intelligent Technology, Inc. Date: 12/9/2020

ClearSky Siren Chime Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Harmonics

Transmit Mode - Y-Axis

| Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments |
|-------------------|--|--|--|--|--|--|--|
| 40.09 | Н | 77.26 | -37.17 | Peak | 349.25 | 121.55 | |
| 21.36 | Н | 57.26 | -35.90 | Avg | 349.25 | 121.55 | |
| 40.68 | Н | 73.97 | -33.29 | Peak | 117.50 | 147.82 | |
| 21.95 | Н | 53.97 | -32.02 | Avg | 117.50 | 147.82 | |
| 44.92 | Н | 73.97 | -29.05 | Peak | 21.75 | 103.28 | |
| 26.19 | Н | 53.97 | -27.78 | Avg | 21.75 | 103.28 | |
| 42.79 | Н | 77.26 | -34.47 | Peak | 127.00 | 100.25 | |
| 24.06 | Н | 57.26 | -33.20 | Avg | 127.00 | 100.25 | |
| 43.04 | Н | 77.26 | -34.22 | Peak | 30.50 | 172.00 | |
| 24.31 | Н | 57.26 | -32.95 | Avg | 30.50 | 172.00 | |
| 36.32 | Н | 77.26 | -40.94 | Peak | 310.75 | 172.00 | |
| 17.59 | Н | 57.26 | -39.67 | Avg | 310.75 | 172.00 | |
| 38.26 | Н | 73.97 | -35.72 | Peak | 209.00 | 173.00 | |
| 19.53 | Н | 53.97 | -34.45 | Avg | 209.00 | 173.00 | |
| 35.86 | Н | 77.26 | -41.40 | Peak | 176.50 | 151.88 | |
| 17.13 | Н | 57.26 | -40.13 | Avg | 176.50 | 151.88 | |
| 38.03 | Н | 77.26 | -39.23 | Peak | 175.50 | 151.88 | |
| 19.30 | Н | 57.26 | -37.96 | Avg | 175.50 | 151.88 | |
| | 40.09 21.36 40.68 21.95 44.92 26.19 42.79 24.06 43.04 24.31 36.32 17.59 38.26 19.53 35.86 17.13 | (dBuV/m) (v/h) 40.09 H 21.36 H 40.68 H 21.95 H 44.92 H 26.19 H 42.79 H 24.06 H 36.32 H 17.59 H 38.26 H 19.53 H 35.86 H 17.13 H 38.03 H | (dBuV/m) (v/h) Limit 40.09 H 77.26 21.36 H 57.26 40.68 H 73.97 21.95 H 53.97 44.92 H 73.97 26.19 H 53.97 42.79 H 77.26 24.06 H 57.26 36.32 H 77.26 17.59 H 57.26 38.26 H 73.97 19.53 H 53.97 35.86 H 77.26 17.13 H 57.26 38.03 H 77.26 | (dBuV/m) (v/h) Limit Margin 40.09 H 77.26 -37.17 21.36 H 57.26 -35.90 40.68 H 73.97 -33.29 21.95 H 53.97 -32.02 44.92 H 73.97 -29.05 26.19 H 53.97 -27.78 42.79 H 77.26 -34.47 24.06 H 57.26 -33.20 43.04 H 77.26 -34.22 24.31 H 57.26 -32.95 36.32 H 77.26 -40.94 17.59 H 57.26 -39.67 38.26 H 73.97 -35.72 19.53 H 53.97 -34.45 35.86 H 77.26 -41.40 17.13 H 57.26 -40.13 38.03 H 77.26 -39.23 | Level (dBuV/m) Pol (v/h) Limit (w/h) Margin Avg Avg 40.09 H 77.26 -37.17 Peak 21.36 H 57.26 -35.90 Avg 40.68 H 73.97 -33.29 Peak 21.95 H 53.97 -32.02 Avg 44.92 H 73.97 -29.05 Peak 26.19 H 53.97 -27.78 Avg 42.79 H 77.26 -34.47 Peak 24.06 H 57.26 -33.20 Avg 43.04 H 77.26 -34.22 Peak 24.31 H 57.26 -32.95 Avg 36.32 H 77.26 -40.94 Peak 17.59 H 57.26 -39.67 Avg 38.26 H 73.97 -34.45 Avg 35.86 H 77.26 -41.40 Peak 17.13 H 57.26 | Level (dBuV/m) Pol (v/h) Limit Limit Margin Avg (deg) Avg (deg) 40.09 H 77.26 -37.17 Peak 349.25 21.36 H 57.26 -35.90 Avg 349.25 40.68 H 73.97 -33.29 Peak 117.50 21.95 H 53.97 -32.02 Avg 117.50 44.92 H 73.97 -29.05 Peak 21.75 26.19 H 53.97 -27.78 Avg 21.75 42.79 H 77.26 -34.47 Peak 127.00 43.04 H 77.26 -34.22 Peak 30.50 24.31 H 57.26 -32.95 Avg 30.50 36.32 H 77.26 -40.94 Peak 310.75 17.59 H 57.26 -39.67 Avg 310.75 38.26 H 73.97 -35.72 Peak 209.00 35.86 | Level (dBuV/m) Pol (v/h) Limit Limit Margin Avg (deg) Angle (deg) (cm) 40.09 H 77.26 -37.17 Peak 349.25 121.55 21.36 H 57.26 -35.90 Avg 349.25 121.55 40.68 H 73.97 -33.29 Peak 117.50 147.82 21.95 H 53.97 -32.02 Avg 117.50 147.82 44.92 H 73.97 -29.05 Peak 21.75 103.28 26.19 H 53.97 -27.78 Avg 21.75 103.28 42.79 H 77.26 -34.47 Peak 127.00 100.25 24.06 H 57.26 -33.20 Avg 127.00 100.25 43.04 H 77.26 -34.22 Peak 30.50 172.00 36.32 H 77.26 -40.94 Peak 310.75 172.00 38.26 H 73.97 -35.72 |





FCC 15.231

Ecolink Intelligent Technology, Inc. Date: 12/9/2020

ClearSky Siren Chime Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Harmonics

Transmit Mode - Z-Axis

| Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments |
|-------------------|--|--|--|---|---|---|--|
| 37.87 | Н | 77.26 | -39.39 | Peak | 183.75 | 116.35 | |
| 19.14 | Н | 57.26 | -38.12 | Avg | 183.75 | 116.35 | |
| 40.70 | Н | 73.97 | -33.27 | Peak | 171.75 | 137.49 | |
| 21.97 | Н | 53.97 | -32.00 | Avg | 171.75 | 137.49 | |
| 48.39 | Н | 73.97 | -25.58 | Peak | 350.00 | 162.92 | |
| 29.66 | H | 53.97 | -24.31 | Avg | 350.00 | 162.92 | |
| 40.67 | Н | 77.26 | -36.59 | Peak | 5.50 | 119.94 | |
| 21.94 | Н | 57.26 | -35.32 | Avg | 5.50 | 119.94 | |
| 41.62 | Н | 77.26 | -35.64 | Peak | 272.00 | 148.11 | |
| 22.89 | Н | 57.26 | -34.37 | Avg | 272.00 | 148.11 | |
| 35.40 | Н | 77.26 | -41.86 | Peak | 246.25 | 145.00 | |
| 16.67 | Н | 57.26 | -40.59 | Avg | 246.25 | 145.00 | |
| 35.63 | Н | 73.97 | -38.34 | Peak | 42.50 | 136.25 | |
| 16.90 | Н | 53.97 | -37.07 | Avg | 42.50 | 136.25 | |
| 38.99 | Н | 77.26 | -38.27 | Peak | 8.25 | 152.25 | |
| 20.26 | Н | 57.26 | -37.00 | Avg | 8.25 | 152.25 | |
| 38.91 | Н | 77.26 | -38.35 | Peak | 0.50 | 125.00 | |
| 20.18 | Н | 57.26 | -37.08 | Avg | 0.50 | 125.00 | |
| | 37.87 19.14 40.70 21.97 48.39 29.66 40.67 21.94 41.62 22.89 35.40 16.67 35.63 16.90 38.99 20.26 | (dBuV/m) (v/h) 37.87 H 19.14 H 40.70 H 21.97 H 48.39 H 29.66 H 40.67 H 21.94 H 41.62 H 22.89 H 35.40 H 16.67 H 35.63 H 16.90 H 38.99 H 20.26 H | (dBuV/m) (v/h) Limit 37.87 H 77.26 19.14 H 57.26 40.70 H 73.97 21.97 H 53.97 48.39 H 73.97 29.66 H 53.97 40.67 H 77.26 21.94 H 57.26 41.62 H 77.26 22.89 H 57.26 35.40 H 77.26 16.67 H 57.26 35.63 H 73.97 16.90 H 53.97 38.99 H 77.26 38.91 H 77.26 | (dBuV/m) (v/h) Limit Margin 37.87 H 77.26 -39.39 19.14 H 57.26 -38.12 40.70 H 73.97 -33.27 21.97 H 53.97 -32.00 48.39 H 73.97 -25.58 29.66 H 53.97 -24.31 40.67 H 77.26 -36.59 21.94 H 57.26 -35.32 41.62 H 77.26 -35.64 22.89 H 57.26 -34.37 35.40 H 77.26 -41.86 16.67 H 57.26 -40.59 35.63 H 73.97 -38.34 16.90 H 53.97 -37.07 38.99 H 77.26 -38.27 20.26 H 57.26 -37.00 | (dBuV/m) (v/h) Limit Margin Avg 37.87 H 77.26 -39.39 Peak 19.14 H 57.26 -38.12 Avg 40.70 H 73.97 -33.27 Peak 21.97 H 53.97 -32.00 Avg 48.39 H 73.97 -25.58 Peak 29.66 H 53.97 -24.31 Avg 40.67 H 77.26 -36.59 Peak 21.94 H 57.26 -35.32 Avg 41.62 H 77.26 -35.64 Peak 22.89 H 57.26 -34.37 Avg 35.40 H 77.26 -41.86 Peak 16.67 H 57.26 -40.59 Avg 35.63 H 73.97 -38.34 Peak 16.90 H 53.97 -37.07 Avg 38.99 H 77.26 -38.27 <td>(dBuV/m) (v/h) Limit Margin Avg (deg) 37.87 H 77.26 -39.39 Peak 183.75 19.14 H 57.26 -38.12 Avg 183.75 40.70 H 73.97 -33.27 Peak 171.75 21.97 H 53.97 -32.00 Avg 171.75 48.39 H 73.97 -25.58 Peak 350.00 29.66 H 53.97 -24.31 Avg 350.00 40.67 H 77.26 -36.59 Peak 5.50 21.94 H 57.26 -35.32 Avg 5.50 41.62 H 77.26 -35.64 Peak 272.00 35.40 H 77.26 -41.86 Peak 246.25 16.67 H 57.26 -40.59 Avg 246.25 35.63 H 73.97 -38.34 Peak 42.50 38.99 H<!--</td--><td>(dBuV/m) (v/h) Limit Margin Avg (deg) (cm) 37.87 H 77.26 -39.39 Peak 183.75 116.35 19.14 H 57.26 -38.12 Avg 183.75 116.35 40.70 H 73.97 -32.00 Avg 171.75 137.49 21.97 H 53.97 -32.00 Avg 171.75 137.49 48.39 H 73.97 -25.58 Peak 350.00 162.92 29.66 H 53.97 -24.31 Avg 350.00 162.92 40.67 H 77.26 -36.59 Peak 5.50 119.94 21.94 H 57.26 -35.32 Avg 5.50 119.94 41.62 H 77.26 -35.64 Peak 272.00 148.11 22.89 H 57.26 -34.37 Avg 272.00 148.11 35.40 H 77.26 -41.86<</td></td> | (dBuV/m) (v/h) Limit Margin Avg (deg) 37.87 H 77.26 -39.39 Peak 183.75 19.14 H 57.26 -38.12 Avg 183.75 40.70 H 73.97 -33.27 Peak 171.75 21.97 H 53.97 -32.00 Avg 171.75 48.39 H 73.97 -25.58 Peak 350.00 29.66 H 53.97 -24.31 Avg 350.00 40.67 H 77.26 -36.59 Peak 5.50 21.94 H 57.26 -35.32 Avg 5.50 41.62 H 77.26 -35.64 Peak 272.00 35.40 H 77.26 -41.86 Peak 246.25 16.67 H 57.26 -40.59 Avg 246.25 35.63 H 73.97 -38.34 Peak 42.50 38.99 H </td <td>(dBuV/m) (v/h) Limit Margin Avg (deg) (cm) 37.87 H 77.26 -39.39 Peak 183.75 116.35 19.14 H 57.26 -38.12 Avg 183.75 116.35 40.70 H 73.97 -32.00 Avg 171.75 137.49 21.97 H 53.97 -32.00 Avg 171.75 137.49 48.39 H 73.97 -25.58 Peak 350.00 162.92 29.66 H 53.97 -24.31 Avg 350.00 162.92 40.67 H 77.26 -36.59 Peak 5.50 119.94 21.94 H 57.26 -35.32 Avg 5.50 119.94 41.62 H 77.26 -35.64 Peak 272.00 148.11 22.89 H 57.26 -34.37 Avg 272.00 148.11 35.40 H 77.26 -41.86<</td> | (dBuV/m) (v/h) Limit Margin Avg (deg) (cm) 37.87 H 77.26 -39.39 Peak 183.75 116.35 19.14 H 57.26 -38.12 Avg 183.75 116.35 40.70 H 73.97 -32.00 Avg 171.75 137.49 21.97 H 53.97 -32.00 Avg 171.75 137.49 48.39 H 73.97 -25.58 Peak 350.00 162.92 29.66 H 53.97 -24.31 Avg 350.00 162.92 40.67 H 77.26 -36.59 Peak 5.50 119.94 21.94 H 57.26 -35.32 Avg 5.50 119.94 41.62 H 77.26 -35.64 Peak 272.00 148.11 22.89 H 57.26 -34.37 Avg 272.00 148.11 35.40 H 77.26 -41.86< |





FCC 15.231

Ecolink Intelligent Technology, Inc. Date: 12/9/2020

ClearSky Siren Chime Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Non Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz To 3.45 GHz

| Freq. (MHz) | Level (dBuV/m) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments |
|----------------|-------------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|--------------------------------|
| | | | | | | | | No Emissions Detected |
| | | | | | | | | from 9 kHz to 30 MHz |
| | | | | | | | | for the digital portion |
| | | | | | | | | of the EUT |
| | | | | | | | | of the LOT |
| | | | | | | | | No Emissions Detected |
| | | | | | | | | from 1 GHz to 3.45 GHz |
| | | | | | | 2.30 | | for the digital portion |
| | | | | | | | | of the EUT |
| | | | | | | | | |
| | | | | | | | | No Emissions Detected |
| | | | | | | | | from 9 kHz to 30 MHz |
| | | | | | | | | for the Non-Harmonic Emissions |
| | | | | | | | | of the Transmitter for the EUT |
| | | | | | | | | |
| | | | | | | | | No Emissions Detected |
| | | | | | | | | from 1 GHz to 3.45 GHz |
| | | | | | | | | for the Non-Harmonic Emissions |
| | | | | | | | | of the Transmitter for the EUT |
| | | | | | | | | Investigated in the V Avia |
| | | | | | | | | Investigated in the X-Axis, |
| | | | | | | | | Y-Axis, and Z-Axis |
| | | | | | | | | Note: This is for the 345 MHz |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report COMPATIBLE

ClearSky Siren Chime

Model: CS-902

FCC Class B

Ecolink Intelligent Technology, Inc. Date: 12/10/2020

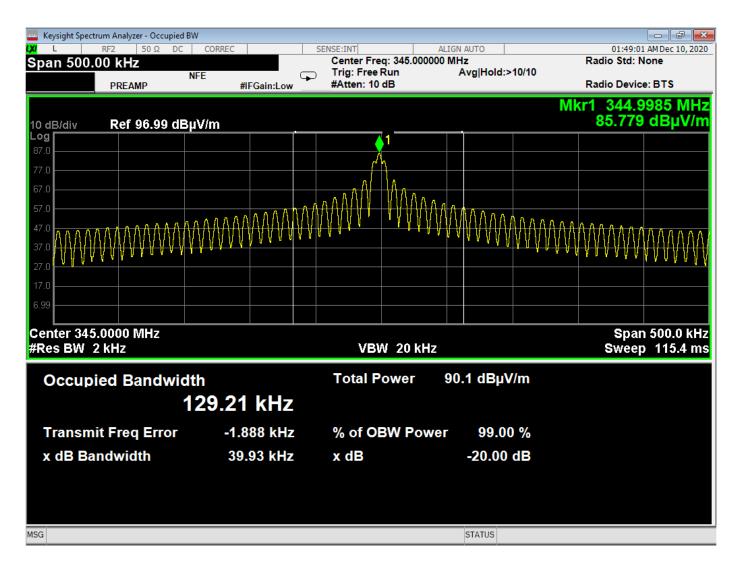
ClearSky Siren Lab: D

Model: CS-902 Tested By: Kyle Fujimoto

Receive Mode - 1 GHz to 3.45 GHz

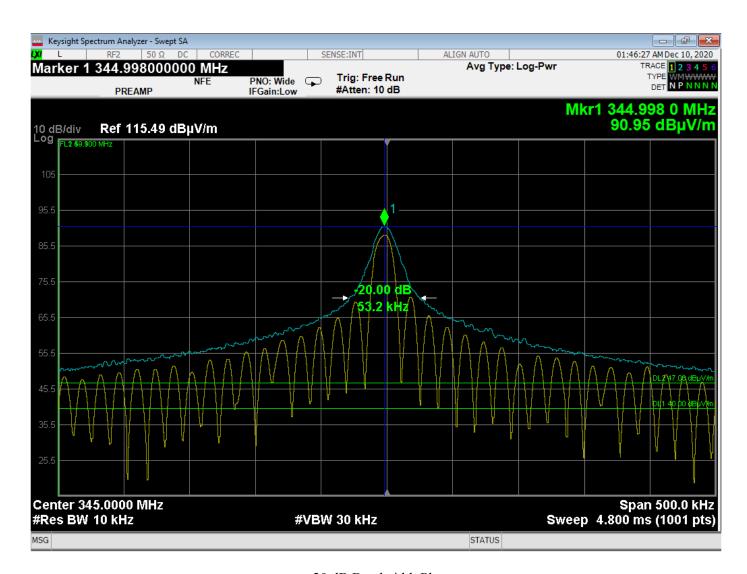
| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Table Angle (deg) | Ant. Height (cm) | Comments |
|----------------|-----------------|--------------|-------|--------|-----------------------|-------------------------|------------------------|-----------------------------|
| | | | | | | | | |
| | | | | | | | | No Emissions Detected |
| | | | | | | | | from 1 GHz to 3.45 GHz |
| | | | | | | | | for the Receive Mode of the |
| | | | | | | | | 345 MHz transmitter |
| | | | | | | | | of the EUT |
| | | | | | | | | |
| | | | | | | | | Investigated in the X-Axis, |
| | | | | | | | | Y-Axis, and Z-Axis |
| | | | | | | 4 | | |
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99 % BANDWIDTH DATA SHEET



99 Percent Bandwidth Plot

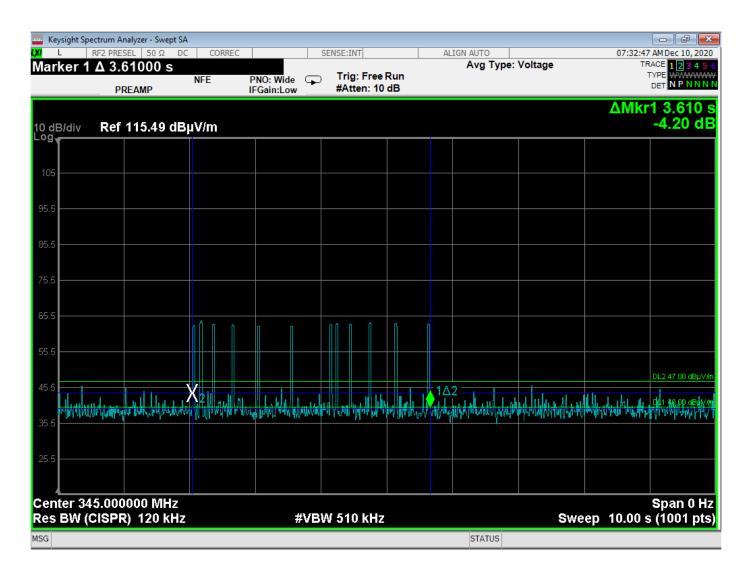
-20 dB BANDWIDTH PLOT DATA SHEET



-20 dB Bandwidth Plot

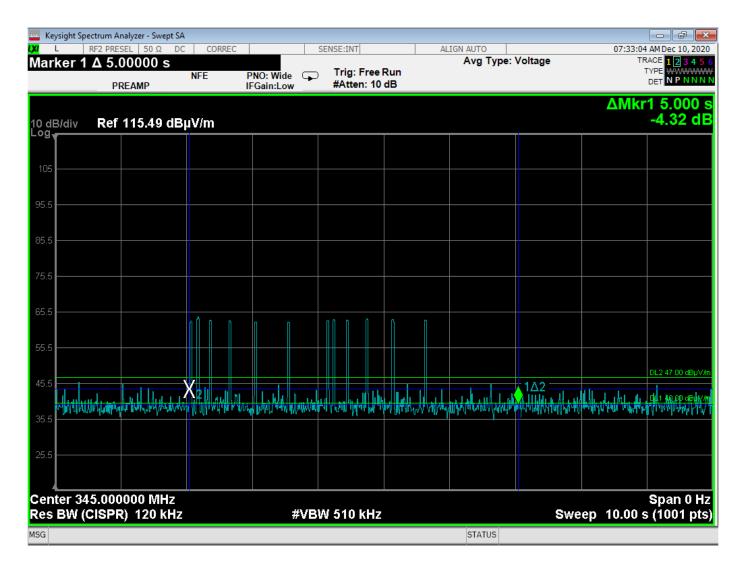
TRANSMISSION TIME DATA SHEET

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report ClearSky Siren Chime Model: CS-902



The total on time of the transmission using a 3.610 second scale.

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report ClearSky Siren Chime Model: CS-902

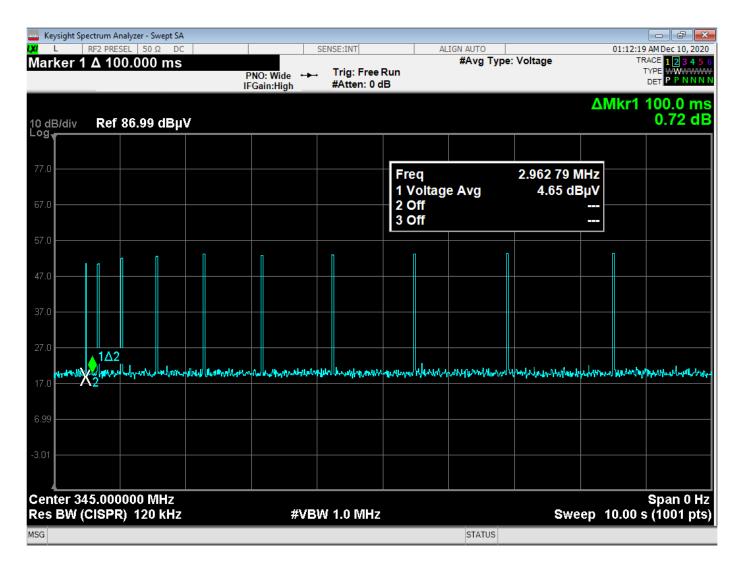


Plot showing the transmission time is less than 5 seconds

DUTY CYCLE

DATA SHEETS

FCC Part 15 Subpart B and C; FCC Section 15.231; and RSS-210 and RSS-GEN Test Report ClearSky Siren Chime Model: CS-902

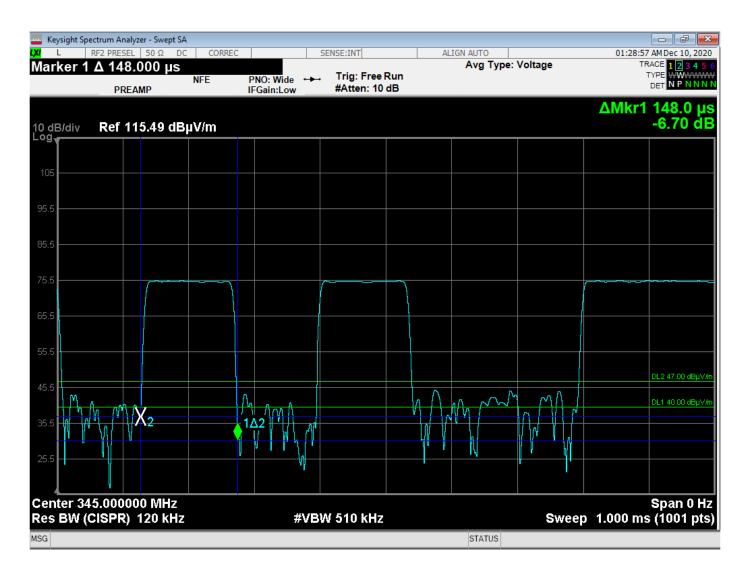


The worst case time between pulse trains is still greater than 100 ms

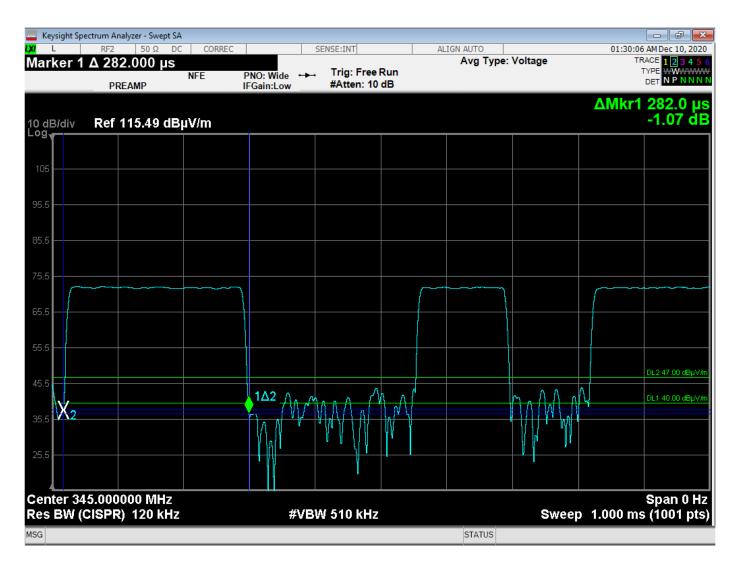
ClearSky Siren Chime Model: CS-902



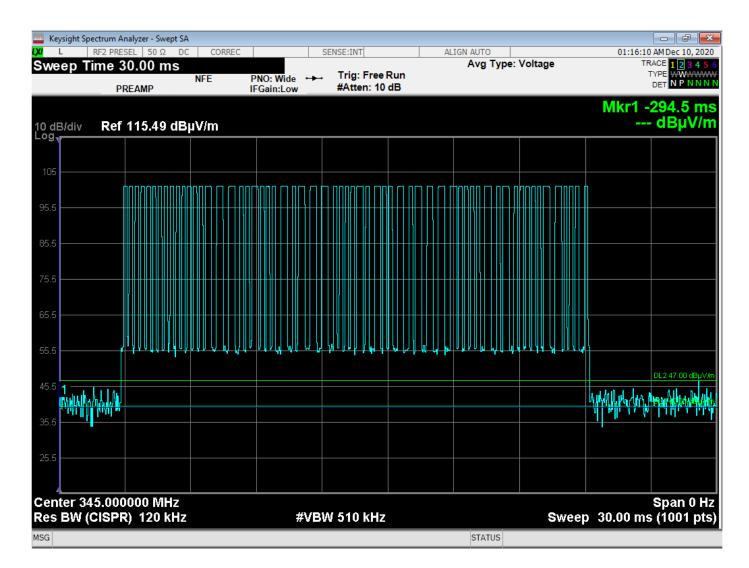
The worst case time of each pulse train before it repeats is 281 ms



Time of Small Pulse = 148 us



Time of Large Pulse = 282 us



Number of Small Pulses = 42 = (42*148 us) = 6216 usNumber of Large Pulses = 19 = (19*282 us) = 5358 us

Total On Time = 11574 us = 11.574 ms

Duty Cycle = 11.574 ms / 100 ms = 11.574 %

The peak to average ratio is -18.73 dB