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

for

RING PANIC BUTTON

Part Number: 4AP1S90EN0

Prepared for

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

Prepared by:		
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Approved by:_		

KYLE FUJIMOTO

COMPATIBLE ELECTRONICS INC. 114 OLINDA DRIVE **BREA, CALIFORNIA 92823** (714) 579-0500

DATE: JANUARY 08, 2019

	REPORT		APPENDICES			TOTAL		
	BODY	A	В	С	D	E	F	
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RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

Ring Panic Button
Part Number: 4AP1S90EN0

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 to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the federal government.

Device Tested: Ring Panic Button

P/N: 4AP1S90EN0

S/N: N/A

Product Description: The EUT is a battery powered device for home automation applications. The Panic Button

will be installed on the wall for emergencies and sending alarms.

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

Customer: Ecolink Intelligent Technology, Inc.

2055 Corte Del Nogal Carlsbad, California 92011

Test Dates: January 7 and 8, 2019

Test Specification covered by accreditation:

Test Specifications: Emissions requirements

CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, 15.249, RSS-210 Issue 9 (2017), and RSS-Gen Issue 5 (2018)



Test Procedure: ANSI C63.4: 2014 and ANSI C63.10: 2013

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

RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Ring Panic Button

Part Number: 4AP1S90EN0

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Spurious Radiated RF Emissions, 9 kHz – 9300 MHz (Transmitter, Receiver, and Digital portion)	Complies with the limits of RSS-210, RSS-Gen, CFR Title 47 Part 15 Subpart B Section 15.109 & Subpart C Sections 15.205, 15.209, & 15.249
		Highest reading in relation to spec limit: 93.23 dBuV/m (OP) @ 908.42 MHz (*U = 3.26 dB)

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RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

Ring Panic Button
Part Number: 4AP1S90EN0

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the Ring Panic Button, P/N: 4AP1S90EN0. The emissions measurements were performed according to the measurement procedure described in ANSI C63.4 and ANSI C63.10. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the RSS-210, RSS-Gen, and the Class B specification limits defined by Code of Federal Regulations Title 47, Part 15 Subpart B sections 15.107, 15.109, & Part 15 Subpart C sections 15.205, 15.207, 15.209 and 15.249.

RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

Ring Panic Button

Part Number: 4AP1S90EN0

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.

Anna Poltoratska Project Manager

Compatible Electronics Inc.

Thomas Szynal Test Technician Kyle Fujimoto Test Engineer

2.4 Date Test Sample was Received

The test sample was received on January 07, 2019.

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 test report.

2.6 Abbreviations and Acronyms

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

RF Radio Frequency

EMI Electromagnetic Interference EUT Equipment Under Test

P/N Part Number

FSK/GFSK Frequency Shift Keying/ Gaussian Frequency Shift Keying

S/N Serial Number HP Hewlett Packard

ITE Information Technology Equipment

N/A Not Applicable
Tx Transmit
Rx Receive

SDK Software Development Kit

3. APPLICABLE DOCUMENTS

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

SPEC	TITLE
RSS-210 Issue 9: 2017	License-exempt Radio Apparatus: Category I Equipment
RSS Gen Issue 5: 2018	General Requirements for Compliance of Radio Apparatus
FCC Title 47, Part 15 Subpart C	FCC Rules – Radio frequency devices (including digital devices) – Intentional Radiators
FCC Title 47, Part 15 Subpart B	FCC Rules – Radio frequency devices (including digital devices) – Unintentional Radiators
EN 50147-2: 1997	Anechoic chambers. Alternative test site suitability with respect to site attenuation
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 for Testing Unlicensed Wireless Devices

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration – Emissions

The Ring Panic Button, P/N: 4AP1S90EN0 (EUT) was tested as a stand alone device. A fresh battery was inserted in the EUT prior to the testing.

The EUT was tested for emissions at the low and high channels while in the X, Y and Z axis. During the testing, the EUT was continuously transmitting or receiving, depending on test mode.

The EUT was placed in the standard test mode once the battery was installed. The EUT utilizes FSK/GFSK modulation and was tested at 908.42 MHz and 916 MHz.

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 data for the EUT was taken in the mode described above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

The EUT has no external cables.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	S/N	FCC ID and IC ID
RING PANIC BUTTON (EUT)	ECOLINK INTELLIGENT TECHNOLOGY, INC.	4AP1S90EN0	N/A	FCC ID: XQCBHAPB001 IC: 9863B-BHAPB001



Part Number: 4AP1S90EN0

5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANU- FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CAL. CYCLE		
GENERAL TEST EQUIPMENT US			MENT USED IN I	LAB D			
TDK TestLab	TDK RF Solutions, Inc.	9.22	700145	N/A	N/A		
Computer	Hewlett Packard	p6716f	MXX1030PX0	N/A	N/A		
LCD Monitor	Hewlett Packard	52031a	3CQ046N3MG	N/A	N/A		
EMI Receiver, 20 Hz – 26.5 GHz	Keysight Technologies	N9038A	MY51210150	July 26, 2018	1 Year		
RF RADIATED EMISSIONS AND 99 % BANDWIDTH TEST EQUIPMENT							
EMI Receiver, 20 Hz – 26.5 GHz	Keysight Technologies	N9038A	MY51210150	July 26, 2018	1 Year		
Loop Antenna	Com-Power	AL-130R	121090	February 9, 2017	2 Year		
CombiLog Antenna	Com-Power	AC-220	61060	July 27, 2017	2 Year		
Preamplifier	Com-Power	PAM-118A	551024	May 10, 2018	1 Year		
Horn Antenna	Com-Power	AH-118	071175	February 22, 2018	2 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		

Part Number: 4AP1S90EN0

RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report Ring Panic Button

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 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 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

For frequencies above 1 GHz: The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 1.5 meters above the ground plane.

The EUT was not grounded.

7.

RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

Ring Panic Button

Part Number: 4AP1S90EN0

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 Radiated Emissions Test

The EMI Receiver was used as the measuring meter. A built-in, internal preamplifier was used to increase the sensitivity of the instrument. 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 takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. A quasi-peak reading was taken only for those readings, which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was according to the frequency measured (200 Hz for 9 kHz to 150 kHz, 9 kHz for 150 kHz to 30 MHz, 120 kHz for 30 MHz to 1 GHz and 1 MHz for 1 GHz to 9.3 GHz).

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 in order 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 EUT was tested at a 3-meter test distance. The six highest emissions are listed in Table 1.0.

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 9.3 GHz	1 MHz	Horn Antenna

Test Results:

The EUT complies with the **Class B** limits of RSS-210, RSS-Gen, **CFR** Title 47, Part 15, Subpart B; and Subpart C sections 15.205, 15.209 and 15.249 for radiated emissions.

7.1.2 RF Emissions Test Results

Table 1.0 RADIATED EMISSION RESULTS

Ring Panic Button P/N: 4AP1S90EN0

Frequency MHz	Quasi-Peak EMI Reading (dBuV/m)	Specification Limit (dBuV)	Delta (Cor. Reading – Spec. Limit) dB)
908.42 (V) (Y-Axis)	93.23	93.97	-0.74
916.00 (V) (Z-Axis)	92.77	93.97	-1.20
916.00 (H) (X-Axis)	92.56	93.97	-1.41
908.42 (H) (X-Axis)	92.50	93.97	-1.47
908.42 (V) (Z-Axis)	92.43	93.97	-1.54
916.00 (V) (Y-Axis)	92.35	93.97	-1.62

Notes:

- * The complete emissions data is given in Appendix E of this report.
- (V) Vertical
- (H) Horizontal

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8. CONCLUSIONS

The Ring Panic Button, P/N: 4AP1S90EN0, as tested, meets all of the specification limits defined in RSS-210, RSS-Gen, and the Class B limits of FCC Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209 and 15.249.



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 RSS-210, RSS-Gen, FCC Subpart B and FCC 15.249 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

ADDITIONAL MODELS COVERED UNDER THIS REPORT



ADDITIONAL MODELS COVERED **UNDER THIS REPORT**

USED FOR THE PRIMARY TEST

Ring Panic Button P/N: 4AP1S90EN0

S/N: N/A

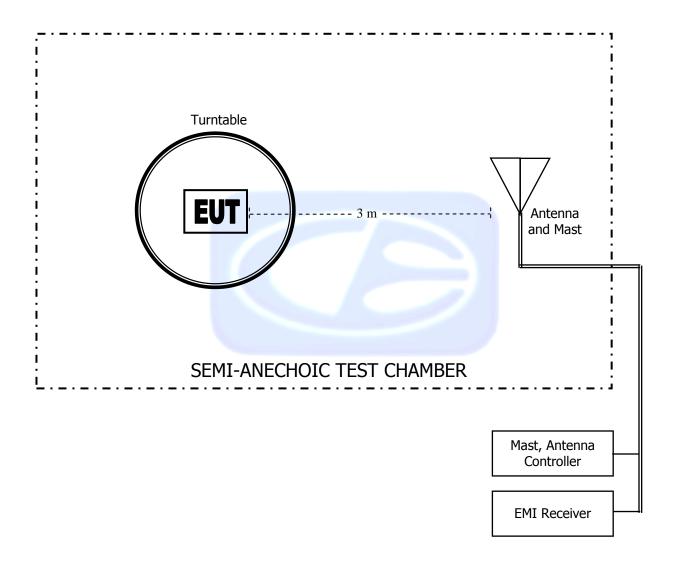
There are no additional models covered under this report.



APPENDIX D

DIAGRAMS AND CHARTS

FIGURE 1: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER



COM-POWER AL-130R

LOOP ANTENNA

S/N: 121090

CALIBRATION DATE: FEBRUARY 9, 2017

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-36.17	15.33
0.01	-35.86	15.64
0.02	-37.30	14.20
0.03	-36.58	14.92
0.04	-36.99	14.51
0.05	-37.66	13.84
0.06	-37.53	13.97
0.07	-37.64	13.86
0.08	-37.52	13.98
0.09	-37.62	13.88
0.1	-37.59	13.91
0.2	-37.79	13.71
0.3	-37.80	13.70
0.4	-37.70	13.80
0.5	-37.79	13.71
0.6	-37.79	13.71
0.7	-37.69	13.81
0.8	-37.49	14.01
0.9	-37.39	14.11
1	-37.39	14.11
2	-37.09	14.41
3	-37.09	14.41
4	-37.19	14.31
5	-36.98	14.52
6	-37.17	14.33
7	-37.05	14.45
8	-36.85	14.65
9	-36.84	14.66
10	-36.75	14.75
15	-37.16	14.34
20	-36.44	15.06
25	-37.88	13.62
30	-39.14	12.36

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: JULY 27, 2017

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)			
30	23.80	200	14.10			
35	24.00	250	15.30			
40	24.70	300	17.70			
45	22.90	350	17.70			
50	22.10	400	19.00			
60	17.60	450	21.30			
70	12.70	500	21.00			
80	11.20	550	22.30			
90	13.10	600	23.40			
100	14.40	650	22.90			
120	15.30	700	24.60			
125	15.00	750	24.50			
140	12.80	800	25.40			
150	16.50	850	26.40			
160	12.90	900	27.20			
175	14.30	950	27.80			
180	14.50	1000	26.80			

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: FEBRUARY 22, 2018

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(GHz)	(dB)	(GHz)	(dB)
1.0	23.71	10.0	40.08
1.5	25.46	10.5	40.75
2.0	29.26	11.0	41.78
2.5	27.95	11.5	41.02
3.0	29.03	12.0	40.32
3.5	29.70	12.5	40.96
4.0	30.71	13.0	40.29
4.5	31.62	13.5	39.48
5.0	33.23	14.0	39.89
5.5	35.07	14.5	42.75
6.0	34.43	15.0	40.98
6.5	34.98	15.5	38.54
7.0	36.75	16.0	39.40
7.5	37.10	16.5	39.40
8.0	37.66	17.0	41.74
8.5	39.29	17.5	42.58
9.0	37.75	18.0	44.68
9.5	38.23		

COM-POWER PAM-118A

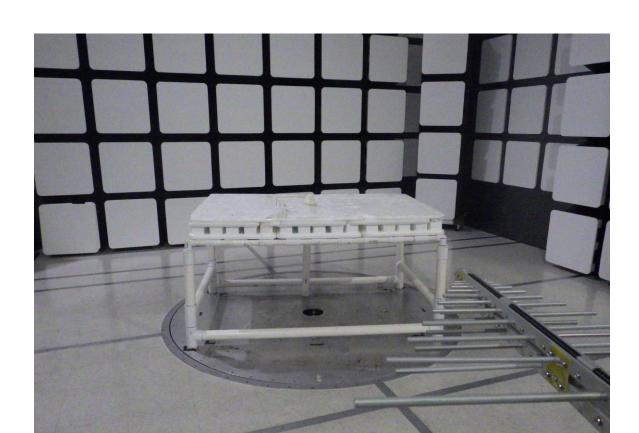
PREAMPLIFIER

S/N: 551024

CALIBRATION DATE: MAY 10, 2018

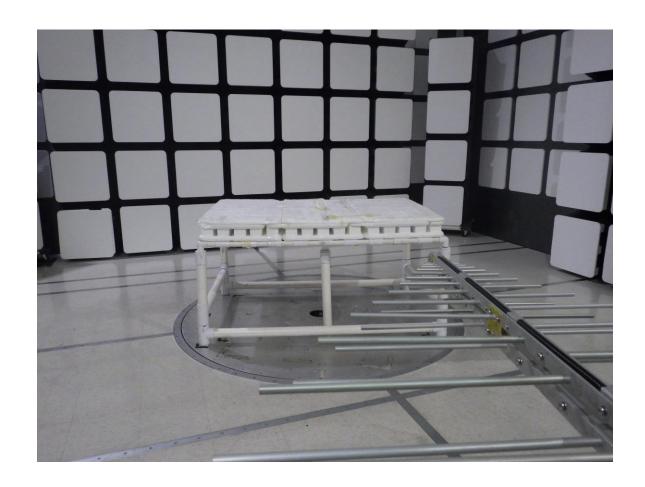
FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	40.99	6.0	39.01
1.1	39.77	6.5	39.00
1.2	39.02	7.0	39.69
1.3	39.44	7.5	38.96
1.4	39.64	8.0	38.57
1.5	40.23	8.5	39.17
1.6	40.17	9.0	38.82
1.7	40.23	9.5	39.30
1.8	39.48	10.0	38.90
1.9	39.85	11.0	38.86
2.0	39.99	12.0	39.87
2.5	40.38	13.0	39.55
3.0	40.64	14.0	38.92
3.5	40.68	15.0	39.33
4.0	40.87	16.0	39.60
4.5	40.04	17.0	40.28
5.0	39.54	18.0	39.58
5.5	39.58		

Part Number: 4AP1S90EN0



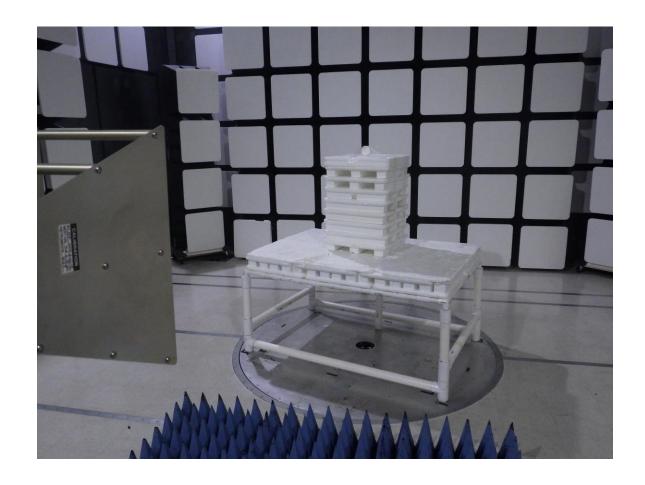
FRONT VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC.
RING PANIC BUTTON
PART NUMBER: 4AP1S90EN0
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz



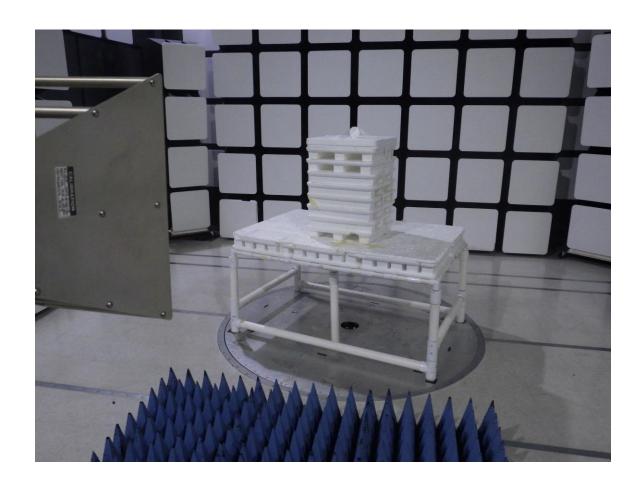
REAR VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC.
RING PANIC BUTTON
PART NUMBER: 4AP1S90EN0
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz



FRONT VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC.
RING PANIC BUTTON
PART NUMBER: 4AP1S90EN0
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz



REAR VIEW

ECOLINK INTELLIGENT TECHNOLOGY, INC.
RING PANIC BUTTON
PART NUMBER: 4AP1S90EN0
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

APPENDIX E

RADIATED DATA SHEETS

RADIATED EMISSIONS DATA SHEETS

FCC 15.249

Date: 01/09/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Kyle Fujimoto

Fundamental - Unit R2 **Low Channel**

From	Level	Pol			Peak / QP /	Table	Ant.		
Freq. (MHz)	(dBuV/m)	(v/h)	Limit	Margin	Avg	Angle (deg)	Height (cm)	Comments	
908.42	86.39	V	93.97	-7.58	Peak	256.50	109.59	X-Axis	
908.42	86.10	V	93.97	-7.87	QP	256.50	109.59	Vertical Polarization	
908.42	93.39	V	93.97	-0.58	Peak	289.50	108.52	Y-Axis	
908.42	93.23	V	93.97	-0.74	QP	289.50	108.52	Vertical Polarization	
908.42	92.62	V	93.97	-1.35	Peak	300.00	104.28	Z-Axis	
908.42	92.43	V	93.97	-1.54	QP	300.00	104.28	Vertical Polarization	
908.42	92.78	Н	93.97	-1.19	Peak	111.50	159.68	X-Axis	
908.42	92.50	Н	93.97	-1.47	QP	111.50	159.68	Horizontal Polarization	
908.42	90.15	Н	93.97	-3.82	Peak	200.00	193.47	Y-Axis	
908.42	89.80	Н	93.97	-4.17	QP	200.00	193.47	Horizontal Polarization	
908.42	91.58	Н	93.97	-2.39	Peak	187.25	161.89	Z-Axis	
908.42	91.40	Н	93.97	-2.57	QP	187.25	161.89	Horizontal Polarization	

Report Number: B90108D1



RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Ring Panic Button

Part Number: 4AP1S90EN0

FCC 15.249

Ecolink Intelligent Technology, Inc. Date: 01/09/2019

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Kyle Fujimoto

Fundamental - Unit R3 **High Channel**

Freq.	Level	Pol			Peak / QP /	Table Angle	Ant. Height	
(MHz)	(dBuV/m)	(v/h)	Limit	Margin	Avg	(deg)	(cm)	Comments
916.00	86.63	V	93.97	-7.34	Peak	76.25	102.43	X-Axis
916.00	85.85	V	93.97	-8.12	QP	76.25	102.43	Vertical Polarization
916.00	92.51	V	93.97	-1.46	Peak	288.50	107.44	Y-Axis
916.00	92.35	V	93.97	-1.62	QP	288.50	107.44	Vertical Polarization
916.00	92.96	V	93.97	-1.01	Peak	193.25	155.74	Z-Axis
916.00	92.77	V	93.97	-1.20	QP	193.25	155.74	Vertical Polarization
916.00	92.75	Н	93.97	-1.22	Peak	126.00	154.91	X-Axis
916.00	92.56	Н	93.97	-1.41	QP	126.00	154.91	Horizontal Polarization
916.00	88.06	Н	93.97	-5.91	Peak	231.75	100.41	Y-Axis
916.00	87.89	Н	93.97	-6.08	QP	231.75	100.41	Horizontal Polarization
916.00	92.16	Н	93.97	-1.81	Peak	27.75	159.92	Z-Axis
916.00	91.94	Η	93.97	-2.03	QP	27.75	159.92	Horizontal Polarization

Report Number: B90108D1



RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Ring Panic Button

Part Number: 4AP1S90EN0

FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - Low Channel - Unit R2 Transmit Mode - X-Axis

Ant. Height (cm) Comm	gle H	1 4	Pea Qi Av	Margin	Limit	Pol (v/h)	Level (dBuV/m)	Freq. (MHz)
182.31	.25 1	ık 8	Pe	-16.65	53.97	V	37.32	1816.84
No Emi								2725.26
Detec								
No Emi								3633.68
Detec								
» /								
229.89	9.75 2:	k 2	Pe	-9.77	53.97	V	44.20	4542.10
No Emi								5450.52
Detec								
100.00	.75 1	ık ;	Pe	-5.11	53.97	V	48.86	6358.94
No Emi								7267.36
Detec								
No Emi								8175.78
Detec								
No Emi								9084.20
Detec								

Report Number: B90108D1 RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Ring Panic Button

Part Number: 4AP1S90EN0



FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - Low Channel - Unit R2 Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
1816.84	46.62	V	53.97	-7.35	Peak	75.25	149.95	
2725.26	42.16	V	53.97	-11.81	Peak	280.25	149.89	
3633.68								No Emission
						allon a remain		Detected
4542.10	46.02	V	53.97	-7.95	Peak	47.50	100.00	
5450.52								No Emission
								Detected
6358.94	48.11	V	53.97	-5.86	Peak	300.25	138.37	
7267.36								No Emission
								Detected
8175.78								No Emission
-								Detected
9084.20								No Emission
								Detected

Report Number: B90108D1



RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Ring Panic Button

Part Number: 4AP1S90EN0

FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - Low Channel - Unit R2 Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
1816.84	45.06	V	53.97	-8.91	Peak	90.25	136.58	
2725.26	41.89	V	53.97	-12.08	Peak	283.00	139.56	
2720.20	11100		00.01	12.00	1 our	200.00	100.00	
3633.68								No Emission
						1000		Detected
4542.10	46.94	V	53.97	-7.03	Peak	307.75	149.89	
5450.52								No Emission
								Detected
6358.94								No Emission
								Detected
7267.36								No Emission
								Detected
8175.78								No Emission
								Detected
9084.20								No Emission
								Detected

Report Number: B90108D1 RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Ring Panic Button

Part Number: 4AP1S90EN0

FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - Low Channel - Unit R2 Transmit Mode - X-Axis

	41.59	Н	53.97	-6.47	Peak		(cm)	Comments
2725.26	41.59				reak	123.25	175.02	
2725.26	41.59							
		Н	53.97	-12.38	Peak	235.00	159.98	
					_			
3633.68								No Emission
						-		Detected
4542.10	46.12	Н	53.97	-7.86	Peak	229.50	179.74	
5450.52								No Emission
								Detected
6358.94								No Emission
								Detected
7267.36								No Emission
								Detected
8175.78								No Emission
								Detected
9084.20								No Emission
								Detected

Report Number: B90108D1



FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - Low Channel - Unit R2 Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
1816.84	40.79	Н	53.97	-13.18	Peak	134.75	216.46	
2725.26	39.06	Н	53.97	-14.91	Peak	45.50	142.97	
3633.68								No Emission
						100		Detected
4542.10	45.49	Н	53.97	-8.48	Peak	37.00	189.89	
5450.52								No Emission
								Detected
6358.94								No Emission
								Detected
7267.36								No Emission
								Detected
8175.78								No Emission
								Detected
9084.20								No Emission
								Detected



FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - Low Channel - Unit R2 Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
1816.84	45.47	Н	53.97	-8.50	Peak	166.50	119.86	
2725.26	40.51	Н	53.97	-13.46	Peak	0.00	220.10	
3633.68								No Emission
						The state of the s		Detected
4542.10	45.88	Н	53.97	-8.09	Peak	345.00	100.00	
5450.52								No Emission
								Detected
6358.94	48.27	Н	53.97	-5.70	Avg	0.00	100.00	
7267.36								No Emission
								Detected
8175.78								No Emission
								Detected
9084.20								No Emission
								Detected

Report Number: **B90108D1**RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Part Number: 4AP1S90EN0

FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - High Channel - Unit R3 **Transmit Mode - X-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
1832.00	39.45	V	53.97	-14.52	Peak	300.00	149.89	
2748.00	40.29	V	53.97	-13.68	Peak	0.00	149.89	
3664.00								No Emission
								Detected
							20	
4580.00	44.88	V	53.97	-9.09	Peak	89.75	169.89	
5496.00								No Emission
								Detected
6412.00	47.12	V	53.97	-6.85	Peak	189.75	142.07	
7328.00								No Emission
								Detected
8244.00								No Emission
								Detected
9160.00								No Emission
	_				-			Detected



Part Number: 4AP1S90EN0

FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - High Channel - Unit R3 **Transmit Mode - Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
1832.00	46.43	V	53.97	-7.54	Peak	75.25	145.05	
2748.00	40.90	V	53.97	-13.08	Peak	85.50	145.00	
3664.00								No Emission
						100		Detected
4580.00	45.83	V	53.97	-8.14	Peak	0.00	149.95	
5496.00								No Emission
								Detected
6412.00	47.70	V	53.97	-6.28	Peak	310.25	100.00	
7328.00								No Emission
								Detected
9244.00								No Emission
8244.00								No Emission
								Detected
9160.00								No Emission
								Detected

COMPATIBLE

Part Number: 4AP1S90EN0

FCC 15.249

Ecolink Intelligent Technology, Inc. Date: 01/07/2019

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - High Channel - Unit R3 Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
1832.00	48.47	V	53.97	-5.50	Peak	270.00	250.00	
2748.00	40.80	V	53.97	-13.17	Peak	80.25	250.00	
3664.00								No Emission
						No.		Detected
4580.00	44.42	V	53.97	-9.55	Peak	270.25	100.00	
5496.00								No Emission
								Detected
6412.00								No Emission
								Detected
7328.00								No Emission
								Detected
8244.00								No Emission
								Detected
9160.00								No Emission
								Detected

FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - High Channel - Unit R3 **Transmit Mode - X-Axis**

Comments	Ant. Height (cm)	Table Angle (deg)	Peak / QP / Avg	Margin	Limit	Pol (v/h)	Level (dBuV/m)	Freq. (MHz)
	118.85	150.00	Peak	-4.66	53.97	Τ	49.31	1832.00
	100.00	199.75	Peak	-11.53	53.97	Н	42.45	2748.00
No Emission								3664.00
Detected		Albert Free						
	176.22	67.00	Peak	-9.18	53.97	Н	44.79	4580.00
					\			
No Emission								5496.00
Detected								
No Emission								6412.00
Detected								
No Emission								7328.00
Detected								
No Emission								8244.00
Detected								
No Emission								9160.00
Detected								

FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - High Channel - Unit R3 **Transmit Mode - Y-Axis**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
1832.00	41.22	Н	53.97	-12.75	Peak	288.25	168.58	
2748.00	39.75	Н	53.97	-14.23	Peak	300.25	139.86	
3664.00								No Emission
						16.00		Detected
4580.00	45.45	Н	53.97	-8.52	Peak	34.25	154.13	
F400 00								No Emission
5496.00								No Emission
								Detected
6412.00								No Emission
0412.00								Detected
								Detected
7328.00								No Emission
								Detected
8244.00								No Emission
								Detected
9160.00								No Emission
								Detected

Report Number: **B90108D1**



FCC 15.249

Date: 01/07/2019 Ecolink Intelligent Technology, Inc.

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Harmonics - High Channel - Unit R3 **Transmit Mode - Z-Axis**

Comments	Ant. Height (cm)	Table Angle (deg)	Peak / QP / Avg	Margin	Limit	Pol (v/h)	Level (dBuV/m)	Freq. (MHz)
	116.46	180.25	Peak	-7.34	53.97	Н	46.63	1832.00
	199.86	22.25	Peak	-13.59	53.97	Н	40.38	2748.00
No Emission								3664.00
Detected		10.00						
	100.00	0.00	Peak	-7.79	53.97	Н	46.18	4580.00
					$\overline{}$			
No Emission								5496.00
Detected								
	100.00	0.00	Peak	-5.64	53.97	Н	48.33	6412.00
No Emission								7328.00
Detected								
No Emission								8244.00
Detected								
No Emission								9160.00
Detected								

Part Number: 4AP1S90EN0



FCC 15.249 and FCC Class B

Ecolink Intelligent Technology, Inc. Date: 01/07/2019

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Tom Szynal

Non-Harmonic Emissions from the Tx and Digital Portion 9 kHz to 30 MHz and 1 GHz to 9.3 GHz - Unit R2 and Unit R3 $\,$

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
								No Emissions Detected
								from 9 kHz to 30 MHz
								for the Non-Harmonic Emissions
			l		L			of the Transmitter for the EUT
								No Emissions Detected
								from 1 GHz to 9.3 GHz
								for the digital portion
								of the EUT
								No Emissions Detected
								from 1 GHz to 9.3 GHz
								for the Non-Harmonic Emissions
								of the Transmitter for the EUT
								Investigated in the X-Axis,
								Y-Axis, and Z-Axis

Part Number: 4AP1S90EN0

FCC Class B

Ecolink Intelligent Technology, Inc. Date: 01/08/2019

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Kyle Fujimoto

Receive Mode - 1 GHz to 5 GHz - Unit R8

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 5 GHz
								for the Receive Mode
								of the EUT
								Investigated in the X-Axis,
						2		Y-Axis, and Z-Axis
								Investigated when receiving
					- 1			at 908.42 MHz and 916 MHz
	 							

1/8/2019 8:19:09 AM Sequence: Preliminary Scan





Title: Radiated Emissions - FCC Class B File: Agilent - Pre-Scan - FCC Class B 908 MHz x-axis worst case 01-08-19.set Operator: Tom Szynal

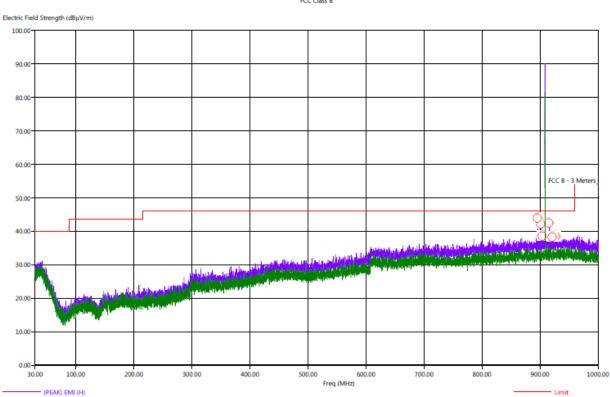
EUT Type: Ring Panic Button
EUT Condition: The EUT is continuously transmitting at 908.42 MHz - X-axis is worst case

Comments: Company: Ecolink Intelligent Technology, Inc. P/N: 4AP1S90EN0

(PEAK) EMI (V)

Note: The Frequency at 908.42 MHz is from the transmitter and is subject to the limits of

FCC 15.249 instead





RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Ring Panic Button

Part Number: 4AP1S90EN0

Title: Radiated Emissions - FCC Class B
File: Agilent - Final Scan - FCC Class B 908 MHz x-axis worst case 01-08-19.set
Operator: Tom Szynal
EUT Type: Ring Panic Button
EUT Condition: The EUT is continuously transmitting at 908.42 MHz - X-Axis worst Case
Comments: Company: Ecolink Intelligent Technology, Inc.
P/N: 4AP1590EN0

1/8/2019 9:20:51 AM Sequence: Final Measurements

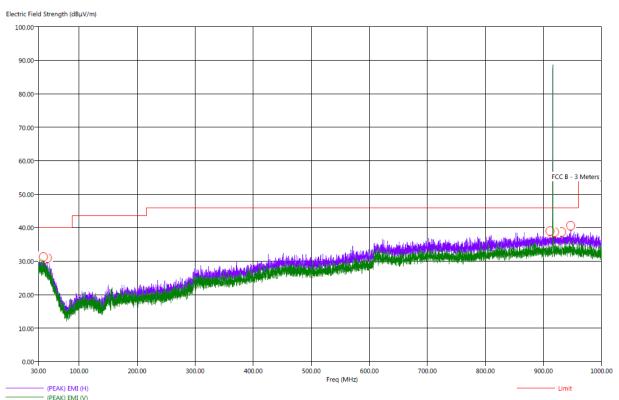
Freq	Pol	(PEAK) EMI	(QP) EMI	(PEAK) Margin	(QP) Margin	Limit	Transducer	Cable	Ttbl Aql	Twr Ht
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dBµV/m)	(dB)	(dB)	(deg)	(cm)
896.00	н	40.18	34.67	-5.82	-11.33	46.00	27.14	2.98	123.25	143.32
901.30	H	39.04	34.43	-6.96	-11.57	46.00	27.22	3.00	293.25	143.32
903.20	н	38.77	33.63	-7.23	-12.37	46.00	27.24	3.01	291.75	175.14
915.60	н	38.75	34.04	-7.25	-11.96	46.00	27.39	3.03	241.50	302.85
920.90	H	39.18	33.60	-6.82	-12.40	46.00	27.45	3.04	57.25	127.20
926.50	н	39.36	33.51	-6.64	-12.49	46.00	27.52	3.05	331.50	207.02





Title: Radiated Emissions - FCC Class B File: Agilent - Pre-Scan - FCC Class B 916 MHz z-axis 01-07-19.set Operator: Tom Szynal EUT Type: Ring Panic Button EUT Condition: The EUT is continuosuly transmitting at 916 MHz - Z-axis is worst case Comments: Company: Ecolink Intelligent Technology, Inc. P/N: 4AP1590EN0 S/N: N/A Note: The Frequency at 916 MHz is from the transmitter and is subject to the limits of FCC 15.249 instead

1/7/2019 4:53:47 PM Sequence: Preliminary Scan





S/N: N/A

Report Number: **B90108D1**RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

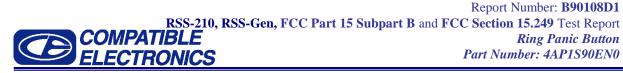
COMPATIBLE Part Number: 4AP1S90EN0

Title: Radiated Emissions - FCC Class B File: Agilent - Final Scan - FCC Class B 916 MHz z-axis worst case 01-07-19.set Operator: Tom Szynal EUT Type: Ring Panic Button
EUT Condition: The EUT is continuously transmitting at 916 MHz - Z-Axis worst Case
Comments: Company: Ecolink Intelligent Technology, Inc.
P/N: 4AP1S90EN0

1/7/2019 5:10:53 PM Sequence: Final Measurements

Freq	Pol	(PEAK) EMI	(QP) EMI	(PEAK) Margin	(QP) Margin	Limit	Transducer	Cable	Ttbl Agl	Twr Ht
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dBµV/m)	(dB)	(dB)	(deg)	(cm)
38.70	н	33.88	27.12	-6.12	-12.88	40.00	24.54	0.89	59.25	222.91
45.40	н	30.21	25.31	-9.79	-14.69	40.00	22.82	0.90	337.00	318.79
911.30	н	38.93	33.67	-7.07	-12.33	46.00	27.34	3.02	113.50	143.26
919.20	H	39.52	33.75	-6.48	-12.25	46.00	27.44	3.04	78.00	398.61
931.20	н	38.72	33.93	-7.28	-12.07	46.00	27.58	3.06	359.00	143.26
946.90	н	39.25	34.02	-6.75	-11.98	46.00	27.77	3.09	4.00	111.32





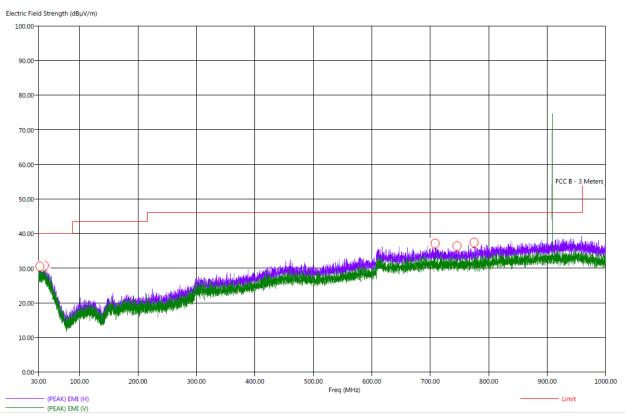
Title: Radiated Emissions - FCC Class B File: Agilent - Pre-Scan - FCC Class B - 908.42 MHz -Rx Mode - X-axis - 01-08-19.set Operator: Kyle Fujimoto EUT Type: Ring Panic Button EUT Condition: The EUT is continuosuly receiving at 908.42 MHz - X-axis is worst case Comments: Company: Ecolink Intelligent Technology, Inc.

1/8/2019 10:00:14 AM Sequence: Preliminary Scan

P/N: 4AP1S90EN0

S/N: N/A

Note: The Frequency at 908.42 MHz is the transmit signal from the accessory unit inside the test chamber and not the EUT.





S/N: N/A

Report Number: **B90108D1**RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE Part Number: 4AP1S90EN0

Title: Radiated Emissions - FCC Class B File: Agilent - Final Scan - FCC Class B - 908.42 MHz -Rx Mode - X-axis - 01-08-19.set Operator: Kyle Fujimoto EUT Type: Ring Panic Button EUT Condition: The EUT is continuously receiving at 908.42 MHz - X-Axis is worst case Comments: Company: Ecolink Intelligent Technology, Inc. P/N: 4AP1S90EN0

1/8/2019 10:09:34 AM Sequence: Final Measurements

Freq	Pol	(PEAK) EMI	(QP) EMI	(PEAK) Margin	(QP) Margin	Limit	Transducer	Cable	Ttbl Agl	Twr Ht
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dBµV/m)	(dB)	(dB)	(deg)	(cm)
32.20	Н	31.73	26.41	-8.27	-13.59	40.00	23.90	0.83	284.00	223.38
40.00	Н	31.89	27.04	-8.11	-12.96	40.00	24.70	0.90	180.25	318.85
41.80	Н	31.79	26.30	-8.21	-13.70	40.00	24.05	0.90	0.00	127.26
708.30	Н	36.88	31.30	-9.12	-14.70	46.00	24.58	2.53	320.75	366.37
745.70	Н	36.66	31.22	-9.34	-14.78	46.00	24.51	2.68	87.50	286.85
775.00	Н	36.28	31.44	-9.72	-14.56	46.00	24.96	2.75	214.25	207.08



1/8/2019 10:26:43 AM

Sequence: Preliminary Scan



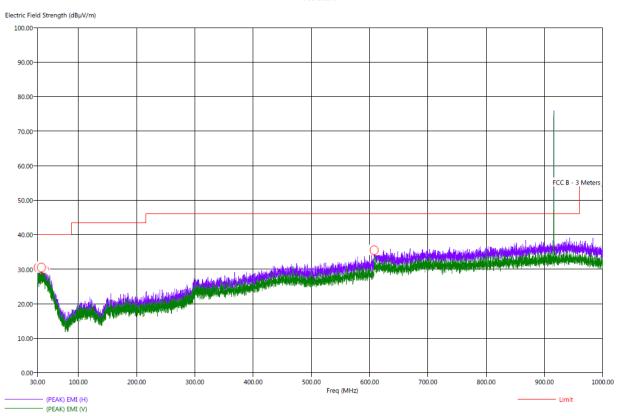


Part Number: 4AP1S90EN0

Title: Radiated Emissions - FCC Class B File: Agilent - Pre-Scan - FCC Class B - 916 MHz -Rx Mode - Z-axis - 01-08-19.set Operator: Kyle Fujimoto EUT Type: Ring Panic Button

EUT Condition: The EUT is continuosuly receiving at 916 MHz - Z-axis is worst case Comments: Company: Ecolink Intelligent Technology, Inc.

Note: The Frequency at 916 MHz is the transmit signal from the accessory unit inside the test chamber and not the EUT.



Report Number: B90108D1



RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE

Ring Panic Button

Part Number: 4AP1S90EN0

Title: Radiated Emissions - FCC Class B File: Agilent - Final Scan - FCC Class B - 916 MHz -Rx Mode - Z-axis - 01-08-19.set Operator: Kyle Fujimoto
EUT Type: Ring Panic Button
EUT Condition: The EUT is continuously receiving at 916 MHz - Z-Axis is worst axis

Comments: Company: Ecolink Intelligent Technology, Inc. P/N: 4AP1S90EN0

S/N: N/A

1/8/2019 10:36:10 AM Sequence: Final Measurements

	no. I	(DEALO EL II	(O.D) EL II	(DEALO A.	(00)	11-11		0.11	West Land	W
Freq	Pol	(PEAK) EMI	(QP) EMI	(PEAK) Margin	(QP) Margin	Limit	Transducer	Cable	Ttbl Agl	Twr Ht
(MHz)		(dBµV/m)	$(dB\mu V/m)$	(dB)	(dB)	(dBµV/m)	(dB)	(dB)	(deg)	(cm)
31.30	Н	32.15	26.51	-7.85	-13.49	40.00	23.85	0.81	124.25	382.67
36.80	V	31.59	26.51	-8.41	-13.49	40.00	24.24	0.87	296.25	175.02
38.80	Н	32.91	26.91	-7.09	-13.09	40.00	24.52	0.89	144.25	302.55
39.10	Н	32.14	26.82	-7.86	-13.18	40.00	24.57	0.89	293.50	111.50
41.20	Н	32.42	26.51	-7.58	-13.49	40.00	24.30	0.90	271.00	366.55
607.80	н	35.84	30.78	-10.16	-15.22	46.00	23.32	2.50	209.25	318.55



BAND EDGES DATA SHEETS



Part Number: 4AP1S90EN0

FCC 15.249

Ecolink Intelligent Technology, Inc. Date: 01/09/2019

Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Kyle Fujimoto

Band Edges - Unit R2

							_	
Eroa	Level	Pol			Peak / QP /	Table	Ant. Height	
Freq. (MHz)	(dBuV/m)	(v/h)	Limit	Margin	Avg	Angle (deg)	(cm)	Comments
908.42	93.39	V	93.97	-0.58	Peak	289.50	108.52	Fundamental - Low Ch.
908.42	93.23	V	93.97	-0.74	QP	289.50	108.52	Y-Axis - Worst Case
901.26	36.21	V	46.00	-9.79	Peak	289.50	108.52	Band Edge
901.26	32.01	V	46.00	-13.99	QP	289.50	108.52	Y-Axis - Worst Case
908.42	92.78	Н	93.97	-1.19	Peak	111.50	159.68	Fundamental - Low Ch.
908.42	92.50	Η	93.97	-1.47	QP	111.50	159.68	X-Axis - Worst Case
						10.0		
901.21	35.02	Н	46.00	-10.98	Peak	111.50	159.68	Band Edge
901.21	32.15	Н	46.00	-13.85	QP	111.50	159.68	X-Axis - Worst Case

Date: 01/09/2019

Ecolink Intelligent Technology, Inc.

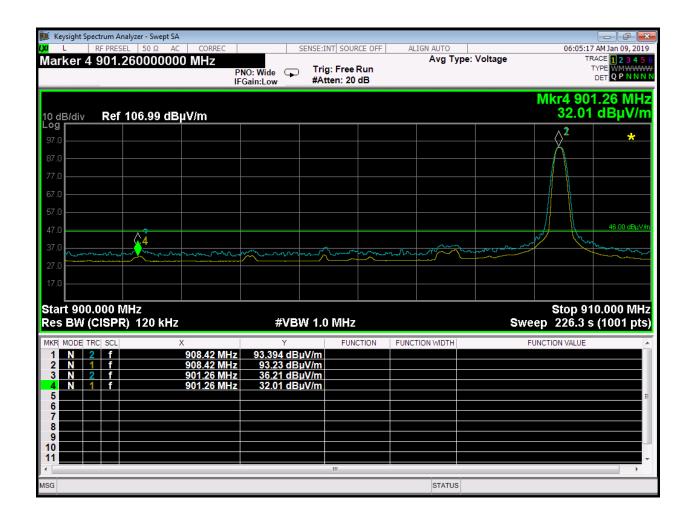
Ring Panic Button Lab: D

Part Number: 4AP1S90EN0 Tested By: Kyle Fujimoto

Band Edges - Unit R3

FCC 15.249

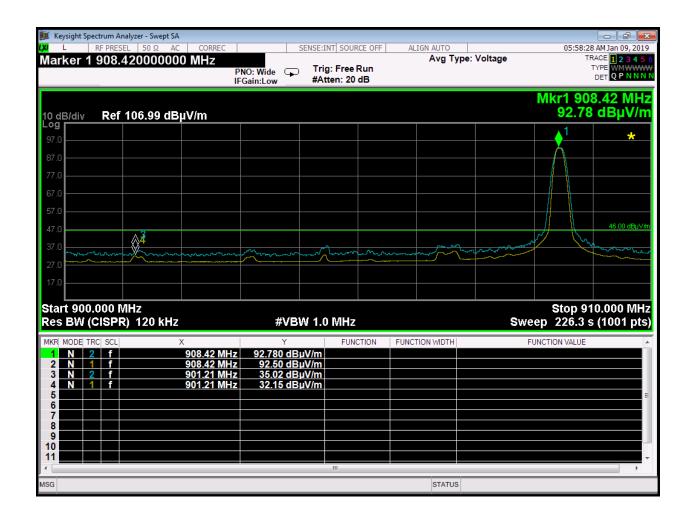
Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
916.00	92.96	V	93.97	-1.01	Peak	193.25	155.74	Fundamental - High Ch.
916.00	92.77	V	93.97	-1.20	QP	193.25	155.74	Z-Axis - Worst Case
928.00	35.17	V	46.00	-30.83	Peak	193.25	155.74	Band Edge
928.00	31.17	V	46.00	-14.83	QP	193.25	155.74	Z-Axis - Worst Case
916.00	92.75	Н	93.97	-1.22	Peak	126.00	154.91	Fundamental - High Ch.
916.00	92.56	Н	93.97	-1.41	QP	126.00	154.91	X-Axis - Worst Case
						No.		
928.00	37.49	Н	46.00	-28.51	Peak	126.00	154.91	Band Edge
928.00	31.01	Н	46.00	-14.99	QP	126.00	154.91	X-Axis - Worst Case
			1					



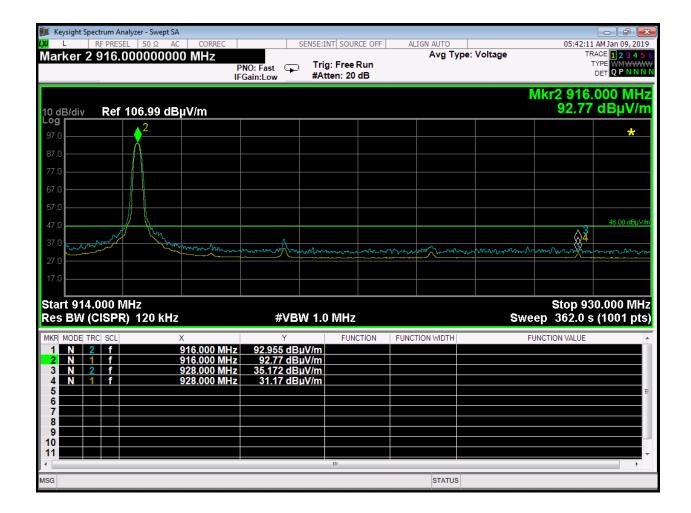
Band Edge - Vertical Polarization - Low Channel - Part Number: 4AP1S90EN0- Y-Axis Worst Case

Report Number: **B90108D1**RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE Part Number: 4AP1S90EN0



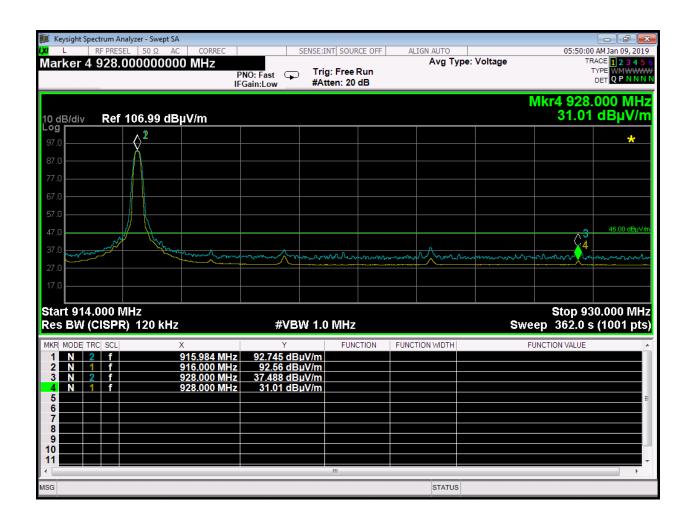
Band Edge - Horizontal Polarization - Low Channel - Part Number: 4AP1S90EN0- X-Axis Worst Case



Band Edge - Vertical Polarization - High Channel - Part Number: 4AP1S90EN0- Z-Axis Worst Case

Report Number: **B90108D1**RSS-210, RSS-Gen, FCC Part 15 Subpart B and FCC Section 15.249 Test Report

COMPATIBLE Part Number: 4AP1S90EN0



Band Edge - Horizontal Polarization - High Channel - Part Number: 4AP1S90EN0 - X-Axis Worst Case



99 % BANDWIDTH DATA SHEETS

Ring Panic Button
Part Number: 4AP1S90EN0



99 Percent BW – 908.42 MHz

MSG

Keysight Spectrum Analyzer - Occupied BW ALIGN AUTO 06:24:25 AM Jan 09, 2019 SENSE: INT SOURCE OF Center Freq: 916.000000 MHz Radio Std: None Center Freq 916.000000 MHz Trig: Free Run Avg|Hold:>10/10 #IFGain:Low #Atten: 20 dB Radio Device: BTS Mkr1 915.9938 MHz 91.493 dBµV/m 10 dB/div Ref 101.99 dBµV/m Log Span 200 kHz Center 916 MHz #Res BW 3 kHz **#VBW 10 kHz** Sweep 27.27 ms **Total Power** 99.7 dBµV/m **Occupied Bandwidth** 74.865 kHz **Transmit Freq Error** -6.129 kHz % of OBW Power 99.00 % x dB Bandwidth 81.58 kHz x dB -20.00 dB

99 Percent BW - 916 MHz

STATUS