FCC ID: XBADSA22

for Aeon Labs LLC.

Key Fob Nanomote Panic Button Model No.: DSA22-ZWUS, DSA38-ZWUS

Prepared for : Aeon Labs LLC.

Address : 121 Buckingham drive, unit36 santa claras CA95051 USA

Prepared By : Anbotek Compliance Laboratory Limited

Address : 1/F, 1 /Building, SEC Industrial Park, No. 4 Qianhai Road,

Nanshan District, Shenzhen, 518054, China

Tel: (86) 755-26066544 Fax: (86) 755-26014772

Report Number : 201205782F

Date of Test : May 15~Jun. 05, 2012

Date of Report : Jun. 06, 2012

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APPENDIX I (Photos of EUT) (5 Pages)

TEST REPORT

Applicant : Aeon Labs LLC.

Manufacturer : Aeon Labs LLC.

EUT : Key Fob Nanomote Panic ButtonModel No. : DSA22-ZWUS, DSA38-ZWUS

Serial No. : N/A

Rating : DC 3V, 35mA

Trade Mark : N/A

Measurement Procedure Used:

FCC Part15 Subpart C, Paragraph 15.207, 15.209&15.249

The device described above is tested by Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test : May 15~Jun. 05, 2012					
Prepared by:	Andy chen				
_	(Engineer / Andy Chen)				
Reviewer :	Jery Du				
Keviewei .	(Project Manager / Jerry Du)				
	(Freject Humager, very Bu)				
	70 m. Chen				
Approved & Authorized Signer:					
· · · · · · · · · · · · · · · · · · ·	(Manager /Tom Chen)				

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Key Fob Nanomote Panic Button

Model Number : DSA22-ZWUS, DSA38-ZWUS

(Note: Bouth the samples are the same except the model number & Shape of appliances, so we prepare "DSA22-ZWUS" for EMC test

only.)

Test Power Supply: DC 3V, 35mA

Frequency : 908.42MHz / 908.40MHz

Antenna : Gain is 3dBi

(The antenna used in this product is Monopole antenna)

Applicant : Aeon Labs LLC.

Address : 121 Buckingham drive, unit36 santa claras CA95051 USA

Manufacturer : Aeon Labs LLC.

Address : 121 Buckingham drive, unit36 santa claras CA95051 USA

Date of receiver : May 15, 2012

Date of Test : May 15~Jun. 05, 2012

1.2. Description of Test Facility

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

CNAS - LAB Code: L3503

Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, August 20, 2010.

IC-Registration No.: 8058A-1

Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, August 30, 2010.

Test Location

All Emissions tests were performed at

Anbotek Compliance Laboratory Limited. at 1/F, 1 /Building, SEC Industrial Park, No. 4 Qianhai Road, Nanshan District, Shenzhen, 518054, China

1.3. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

2. MEASURING DEVICE AND TEST EQUIPMENT

The following test equipments were used during test:

Equipment	Manufacturer	Model #	Serial #	Data of Cal.	Due Data
EMI Test Receiver	Rohde & Schwarz	ESCI	100119	Apr. 12, 2012	Apr. 12, 2013
EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	Apr. 12, 2012	Apr. 12, 2013
EMI Test Software	SHURPLE	ESK1	N/A	N/A	N/A
Spectrum Analyzer	Agilent	E4407B	3649A03840	Apr. 12, 2012	Apr. 12, 2013
Signal Generator	Rohde & Schwarz	SMR27	100124	Apr. 12, 2012	Apr. 12, 2013
Signal Generator	Rohde & Schwarz	SML03	102319	Apr. 12, 2012	Apr. 12, 2013
AC Power Source	Sepcial power system	YF650	N/A	N/A	N/A
Absorbing Clamp	Rohde & Schwarz	MDS21	100218	Apr. 12, 2012	Apr. 12, 2013
Power Meter	Rohde & Schwarz	NRVD	101287	Apr. 12, 2012	Apr. 12, 2013
Coaxial Cable	N/A	N/A	N/A	Apr. 12, 2012	Apr. 12, 2013
Coaxial Cable	N/A	N/A	N/A	Apr. 12, 2012	Apr. 12, 2013
Coaxial Cable	N/A	N/A	N/A	Apr. 12, 2012	Apr. 12, 2013
Universal radio Communication tester	Rohde & Schwarz	CMU200	101724	Apr. 12, 2012	Apr. 12, 2013
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
BiConilog Antenna	ETS-LINDGREN	3142C	00042670	Apr. 12, 2012	Apr. 12, 2013
BiConilog Antenna	ETS-LINDGREN	3142C	00042673	Apr. 12, 2012	Apr. 12, 2013
Loop Antenna	ETS-LINGREN	6502	00071730	Apr. 12, 2012	Apr. 12, 2013
Double-ridged Waveguide horn	ETS-LINDGREN	3117	00035926	Apr. 12, 2012	Apr. 12, 2013
Double-ridged Waveguide horn	ETS-LINDGREN	3117	00041545	Apr. 12, 2012	Apr. 12, 2013
Pre-amplifier	Instruments Corporation	EMC011830	1415261	Apr. 12, 2012	Apr. 12, 2013
RF Switch	CD	RSU-M3	706543	Apr. 12, 2012	Apr. 12, 2013
Thermo-/Hygrometer	N/A	TH01	N/A	Apr. 12, 2012	Apr. 12, 2013
Shielding Room	Zhong Yu Electronic	N/A	N/A	N/A	N/A
3m Anechoic Chamber	Zhong Yu Electronic	N/A	N/A	Apr. 12, 2012	Apr. 12, 2013
RF Cable	NK NETWORKS	M17/74-RG213	CH-NR.32115 (EE170)	Apr. 12, 2012	Apr. 12, 2013
Horn Anternna	Instruments Corporation	GTH-0118	9120D-707	Apr. 12, 2012	Apr. 12, 2013

3. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Anbotek Compliance Lavoratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2009 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

ANSI STANDARD C63.4-2009 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

4. Radiation Interference

4.1. Requirements (15.249, 15.209):

FIELD STRENGTH	FIELD STRENGTH	S15.209	
of Fundamental:	of Harmonics	30 - 88 MHz	40 dBuV/m @3M
902-928 MHZ		88 - 216 MHz	43.5
2.4-2.4835 GHz		216 - 960 MHz	46
94 dBμV/m @3m	54 dBμV/m @3m	ABOVE 960 MHz	54dBuV/m

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation.

4.2 Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 5.3.

4.3 Test Results

PASS.

The test curves Please refer the following pages.

Data: (Frequency=908.40MHz)

Horizontal								
Frequen	Cable	Ant	Preamp	Read	Level	Limit	Over	Remark
cy	Loss	Factor	Factor	Level	LCVCI	Lillit	Limit	
MHz	dB	dB/m	dB	$dB\mu V$	$dB\mu V/m$	$dB\mu V/m$	dB	
85.87	0.63	8.43	38.79	59.26	29.53	40.00	-10.47	QP
171.97	0.72	10.31	39.40	58.51	30.14	43.50	-13.36	QP
908.40	1.51	29.00	38.52	98.04	90.03	94.0	-3.97	Peak
1,816.80	1.82	28.02	39.21	55.18	45.81	54.0	-8.19	Peak
2,725.20	2.28	33.16	35.16	43.51	43.79	54.0	-10.21	Peak
3,633.60	2.50	33.31	35.02	39.0	39.79	54.0	-14.21	Peak
4,542.00	2.65	34.40	34.77	33.72	36.0	54.0	-18.00	Peak
5,450.40								
6,358.80								
7,267.20								
8,175.60								
9,084.00								
•								

Vertical								
Frequen	Cable	Ant	Preamp	Read	Level	Limit	Over	Remark
cy	Loss	Factor	Factor	Level			Limit	
MHz	dB	dB/m	dB	$dB\mu V$	dBμV/m	$dB\mu V/m$	dB	
135.96	0.68	9.19	39.0	57.92	28.79	43.50	-14.71	QP
416.16	0.74	11.95	40.09	54.65	27.25	46.00	-18.75	QP
908.40	1.51	29.00	38.52	97.04	89.03	94.0	-4.97	Peak
1,816.80	1.82	28.02	39.21	55.28	45.91	54.0	-8.09	Peak
2,725.20	2.28	33.16	35.16	42.58	42.86	54.0	-11.14	Peak
3,633.60	2.50	33.31	35.02	38.04	38.83	54.0	-15.17	Peak
4,542.00	2.65	34.40	34.77	32.54	34.82	54.0	-19.18	Peak
5,450.40								
6,358.80								
7,267.20								
8,175.60								
9,084.00								

NOTE: " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Data: (Frequency=908.42MHz)

Horizontal								
Frequen	Cable	Ant	Preamp	Read	Level	Limit	Over	Remark
cy	Loss	Factor	Factor	Level	Level	Limit	Limit	
MHz	dB	dB/m	dB	$dB\mu V$	$dB\mu V/m$	$dB\mu V/m \\$	dB	
89.10	0.62	8.43	38.79	59.20	29.06	40.00	-10.94	QP
175.00	0.72	10.31	39.40	59.50	31.13	43.50	-12.37	QP
908.42	1.51	29.00	38.52	98.21	90.20	94.0	-3.8	Peak
1,816.84	1.82	28.02	39.21	54.28	44.91	54.0	-9.09	Peak
2,725.26	2.28	33.16	35.16	41.48	41.76	54.0	-12.24	Peak
3,633.68	2.50	33.31	35.02	38.67	39.46	54.0	-14.54	Peak
4,542.10	2.65	34.40	34.77	33.80	36.08	54.0	-17.92	Peak
5,450.52								
6,358.94								
7,267.36								
8,175.78								
9,084.20								

Vertical								
Frequen	Cable	Ant	Preamp	Read	Level	Limit	Over	Remark
cy	Loss	Factor	Factor	Level	LCVCI	Lillit	Limit	
MHz	dB	dB/m	dB	$dB\mu V$	$dB\mu V/m$	$dB\mu V/m$	dB	
131.90	0.68	9.19	39.0	57.92	28.79	43.50	-14.71	QP
416.35	0.74	11.95	40.09	55.65	28.25	46.00	-17.75	QP
908.42	1.51	29.00	38.52	96.05	88.04	94.0	-5.96	Peak
1,816.84	1.82	28.02	39.21	55.18	45.81	54.0	-8.19	Peak
2,725.26	2.28	33.16	35.16	41.0	41.28	54.0	-12.72	Peak
3,633.68	2.50	33.31	35.02	38.38	39.17	54.0	-14.83	Peak
4,542.10	2.65	34.40	34.77	32.02	34.3	54.0	-19.70	Peak
5,450.52								
6,358.94								
7,267.36								
8,175.78								
9,084.20								

NOTE: " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5. Occupied Bandwidth

5.1. Requirements (15.249):

The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

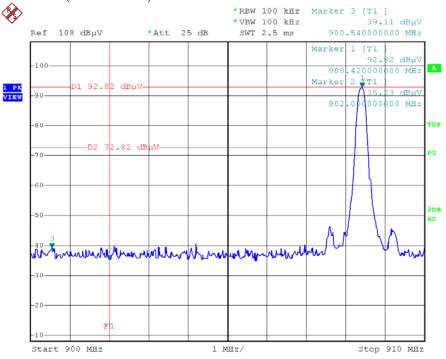
5.2 Test Results

Pass.

Please refer the following plot.

FCC ID: XBADSA22

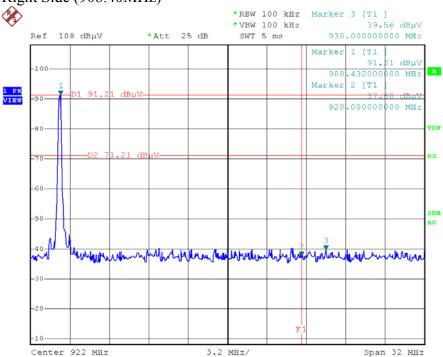
Left Side (908.40MHz)



908.40-Bandedges

Date: 4.JUN.2012 19:46:45

Right Side (908.40MHz)

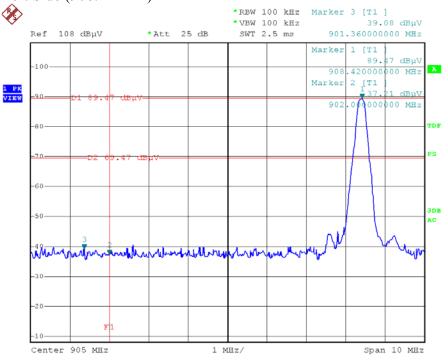


908.40-Bandedges

Date: 4.JUN.2012 19:42:44

FCC ID: XBADSA22

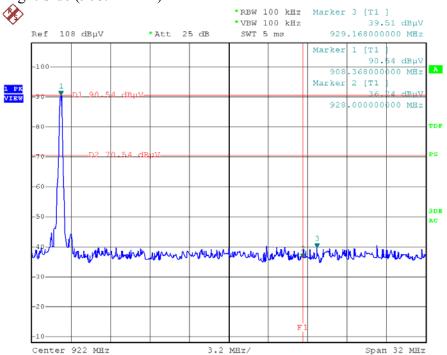
Left Side (908.42MHz)



908.42-Bandedges

Date: 4.JUN.2012 19:32:38

Right Side (908.42MHz)



908.42-Bandedges

Date: 4.JUN.2012 19:37:26