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FCC TEST REPORT

FCC ID : ZWSLESAIRD01

: Audyssey Laboratories Inc. **Applicant**

Address : 350 S. Figueroa St., Suite 233, Los Angeles, CA 90071, USA

Equipment Under Test (EUT):

Product Name : Lower East Side Audio Dock Air

: AUD01000300010X Model No.

Standards : FCC CFR47 Part 15 Section 15.247:2009

Date of Test : September 12 ~ September 30, 2011

Date of Issue : October 18, 2011

: Hunk yan / Engineer **Test Engineer**

Thelo zhang : Philo zhong / Manager **Reviewed By**

Test Result : PASS

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, China

Tel:+86-755-27553488

Fax:+86-755-27553868

The sample detailed above has been tested to the requirements of Council Directives ANSI C63.4:2003. The test results have been reviewed against the Directives above and found to meet their essential requirements.

The results shown in this test report refer only to the sample(s) tested, This Test report cannot be reproduced, except in full, without prior written permission of the Company.

2 Test Summary

Test Items	Test Requirement	Result
Mains Terminal Disturbance Voltage, 150kHz to 30MHz	15.207(a)	PASS
Dodisted Saurieus Emissieus	15.205(a)	
Radiated Spurious Emissions	15.209	PASS
(9kHz to 25GHz)	15.247(d)	
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3)	PASS
Power Spectral Density	15.247(e)	PASS
Maximum Permissible Exposure	1 1207(L)(1)	DACC
(Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

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4 General Information

4.1 Client Information

Applicant : Audyssey Laboratories Inc.

Address of Applicant : 350 S. Figueroa St., Suite 233, Los Angeles, CA 90071, USA

Manufacturer : BCD China Electronics Manufacturing (Shenzhen) Ltd.

Address of Manufacturer : 3/F, Bldg B2, Xin An No. 3 Industrial Park, Hang Cheng Industrial

Zone, Qian Jin Road, Xi Xiang, Bao An District, Shenzhen, Guangdong,

China 518126

4.2 General Description of E.U.T.

Product Name : Lower East Side Audio Dock Air

Model No. : AUD01000300010X

X can be 0-9, A-Z

Difference Description : Only for marketing purpose

4.3 Details of E.U.T.

Technical Data : Adapter input: 100 ~ 127VAC, 50/60Hz, 0.18A

Adapter output: -22VDC, 0.5A

+22VDC, 0.5A

Operation Frequency : 2412MHz ~ 2462MHz

Antenna Gain : 6 dBi

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

The customer requested FCC tests for a Lower East Side Audio Dock Air. The standards used were FCC CFR47 Part 15 Section 15.247, Section 15.209, and Section 15.207.

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4.6 Test Facility

The test facility has a test site registered with the following organizations:

• IC – Registration No.: IC7760A

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, August 3, 2010.

• FCC – Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered 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 880581, May 26, 2011.

4.7 Test Location

All the tests were performed at:

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen, China

5 Equipment Used during Test

Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal. Date	Due Date	Uncertainty
EMC Analyzer	Agilent/ E7405A	MY451149 43	W2008001	9k-26.5GHz	Aug.13- 2011	Aug.12 -2012	±1dB
Trilog Broadband Antenne	SCHWARZB ECK MESS- ELEKTROM / VULB9163	336	W2008002	30-3000 MHz	Aug.13- 2011	Aug.12 -2012	±1dB
Broad- band Horn Antenna	SCHWARZB ECK MESS- ELEKTROM / BBHA 9120D(1201)	667	W2008003	1-18GHz	Aug.13- 2011	Aug.12 -2012	f < 10 GHz : ±1dB 10GHz < f < 18 GHz : ±1.5dB
Broadband Preamplifie r	SCHWARZB ECK MESS- ELEKTROM / BBV 9718	9718-148	W2008004	0.5-18GHz	Aug.13- 2011	Aug.12 -2012	±1.2dB
10m Coaxial Cable with N-male Connectors	SCHWARZB ECK MESS- ELEKTROM / AK 9515 H	-	-	-	Aug.13- 2011	Aug.12 -2012	-
10m 50 Ohm Coaxial Cable	SCHWARZB ECK MESS- ELEKTROM / AK 9513	-	-	-	Aug.13- 2011	Aug.12 -2012	-
Positioning Controller	C&C LAB/ CC-C-IF	-	-	-	Aug.13- 2011	Aug.12 -2012	-
Color Monitor	SUNSPO/ SP-14C	-	-	-	Aug.13- 2011	Aug.12 -2012	-
Test Receiver	ROHDE&SC HWARZ/ ESPI	101155	W2005001	9k-3GHz	Aug.13- 2011	Aug.12 -2012	±1dB
Two-Line V-Network	ROHDE&SC HWARZ/ ENV216	100115	W2005002	50Ω/50μΗ	Aug.13- 2011	Aug.12 -2012	±10%
Active Loop Antenna	Beijing Dazhi / ZN30900A	-	-	-	Aug.13- 2011	Aug.12 -2012	±1dB
MP3 Player	Ipod Player/A1285	5K85004U 3R0	-	-	Aug.13- 2011	Aug.12 -2012	±0.5dB
Wireless Router	TP-LINK TL-WR840N	-	-	-	Aug.13- 2011	Aug.12 -2012	±0.5dB

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6 Conducted Emission

Test Requirement: FCC CFR47 Part 15 Section 15.207

Test Method: ANSI C63.4:2003

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class B

Limit: 66-56 dBµV between 0.15MHz & 0.5MHz

56 dBμV between 0.5MHz & 5MHz 60 dBμV between 5MHz & 30MHz

The tighter limit applies at the band edges.

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak & Average if maximised peak within 6dB of

Average Limit

EUT Operation:

Operating Environment:

Temperature: 25.5 °C Humidity: 51 % RH

Atmospheric Pressure: 1012 mbar

EUT Operation:

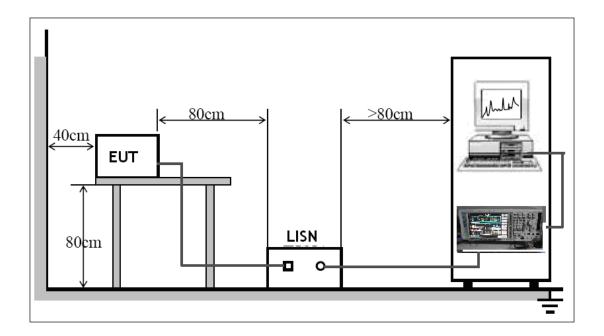
The EUT was tested in continuously transmit mode and normal linking mode. The worse mode is normal linking mode, thus the data show in the report is that mode's only.

The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC CFR47 Part 15 Section 15.207 limits.

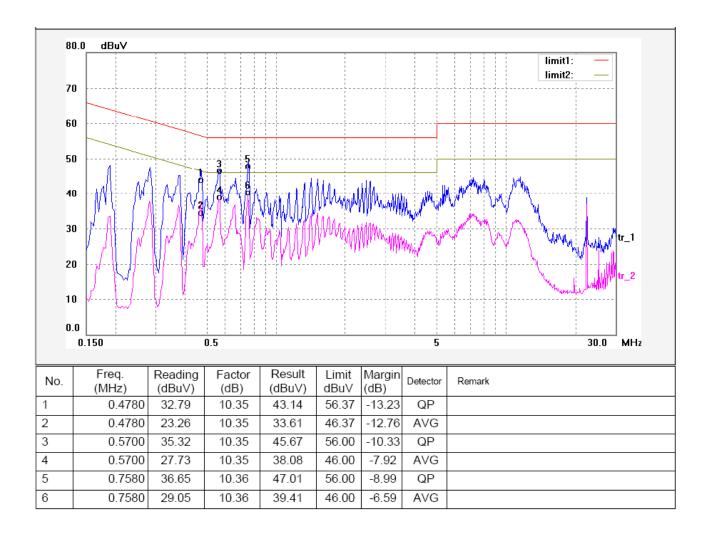


The EUT was placed on the test table in shielding room

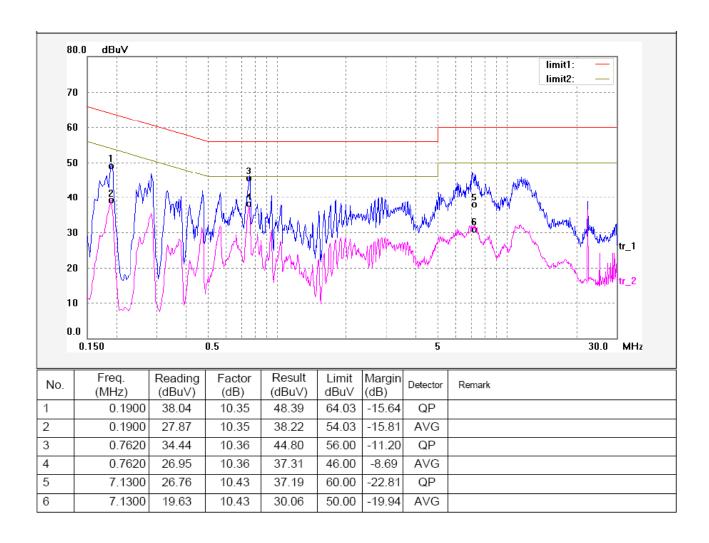
Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

Live line:



Neutral line:



Photograph – Conducted Emission Test Setup



FCC ID: ZWSLESAIRD01

7 Radiated Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: Base on ANSI C63.4:2003

Test Result: PASS

Frequency Range: 9kHz to 25GHz

Measurement Distance: 3m

15.209 Limit: 40.0 dBuV/m between 30MHz & 88MHz

43.5 dBuV/m between 88MHz & 216MHz 46.0 dBuV/m between 216MHz & 960MHz

54.0 dBuV/m above 960MHz

15.247 (d) Limit: (d) In any 100 kHz bandwidth outside the frequency band in

which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that Contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates

compliance with the peak conducted power limits.

Test mode: The EUT was tested in continuously Transmit mode.

EUT Operation:

Operating Environment:

Temperature: 25.5 °C Humidity: 51 % RH

Atmospheric Pressure: 1012 mbar

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

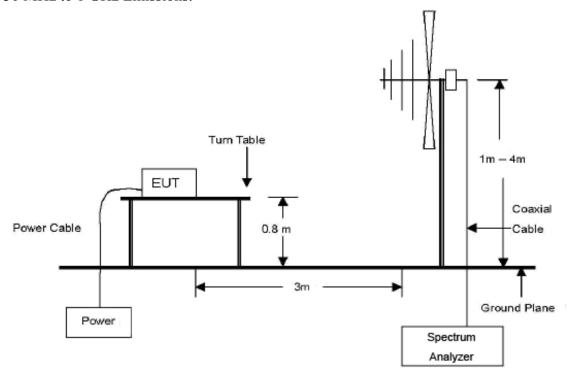
Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Waltek EMC Lab is ±5.03dB.

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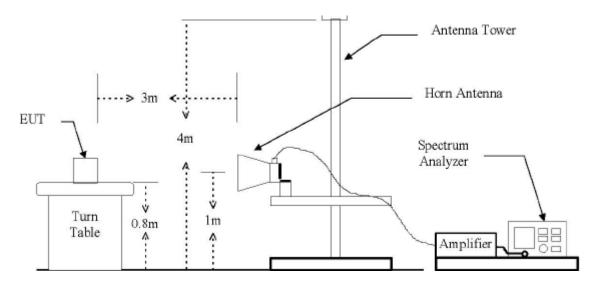
Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003.

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 25 GHz Emissions.



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Spectrum Analyzer Setup

According to FCC Part15 Rules, the system was tested 9kHz to 25000MHz.

 $9kHz \sim 30MHz$

Start Frequency	.9kHz
Stop Frequency	.30MHz
Sweep Speed	. Auto
IF Bandwidth	.10kHz
Video Bandwidth	.10kHz
Resolution Bandwidth	.10kHz

$30MHz \sim 1GHz$

Start Frequency	.30 MHz
Stop Frequency	. 1000MHz
Sweep Speed	. Auto
IF Bandwidth	.120 KHz
Video Bandwidth	.100KHz
Quasi-Peak Adapter Bandwidth	.120 KHz
Quasi-Peak Adapter Mode	. Normal
Resolution Bandwidth	.100KHz

Above 1GHz

Start Frequency	1000 MHz
Stop Frequency	25000MHz
Sweep Speed	Auto
IF Bandwidth	120 KHz
Video Bandwidth	1MHz
Quasi-Peak Adapter Bandwidth	120 KHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth	1MHz

Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are performed in X(normal uses) axis positioning. And all the modes was tested in the report. Only the worst case is shown in the report.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-7dB\mu V$ means the emission is $7dB\mu V$ below the maximum limit for Class B. The equation for margin calculation is as follows:

Summary of Test Results

According to the data in this section, the EUT complied with the FCC CFR47 Part 15 Section 15.209 & 15.247 standards.

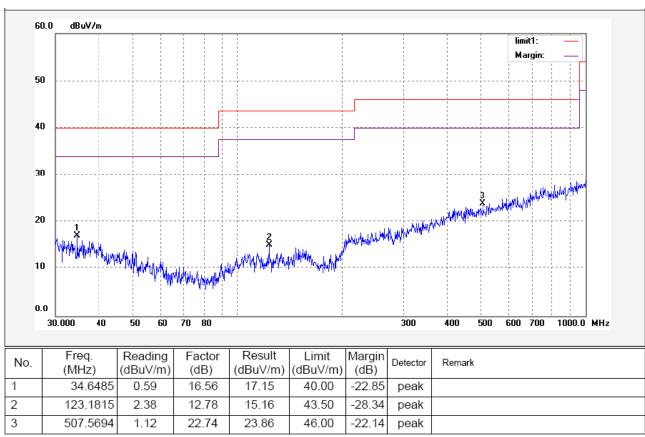
Modulation Technique: IEEE 802.11B Mode

Test mode: continuously recevie mode

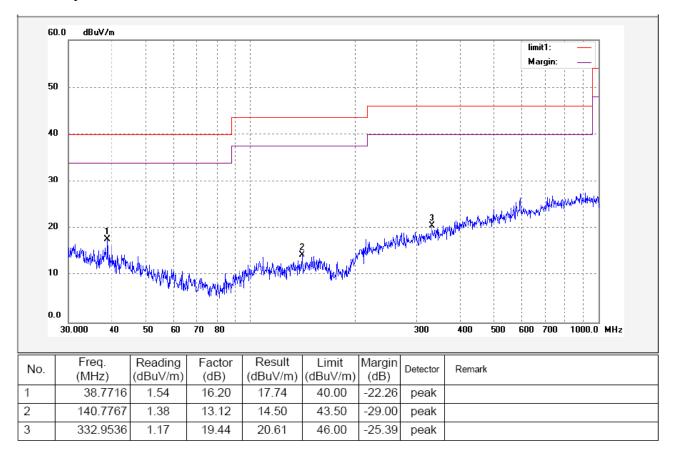
Remark: the EUT was pre-tested at the high, middle and low channel, and the worse case was the low Channel, so the data show was the low channel's only. Because the emissions below 30MHz are more than 20dB below the limit, the data is not show in the report.

Test Frequency: 30MHz ~ 1000MHz

Antenna polarization: Vertical



Antenna polarization: Horizontal

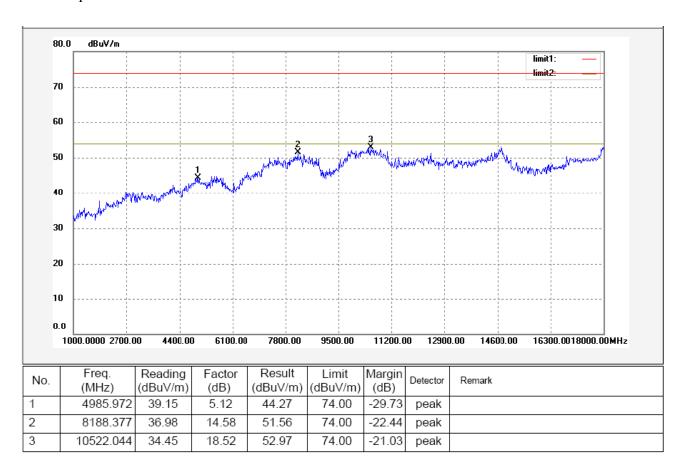


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Test Frequency: Above 1GHz radiation test data:

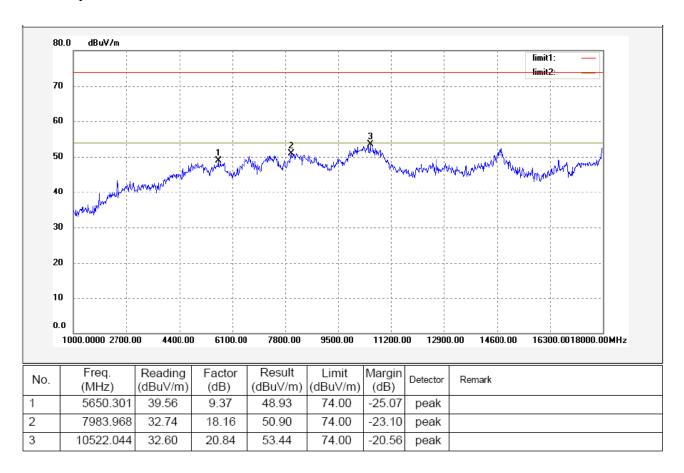
Remark: above 18GHz, the test signal below the noise level, so the data was not perfromed.

Antenna polarization: Vertical



FCC ID: ZWSLESAIRD01

Antenna polarization: Horizontal

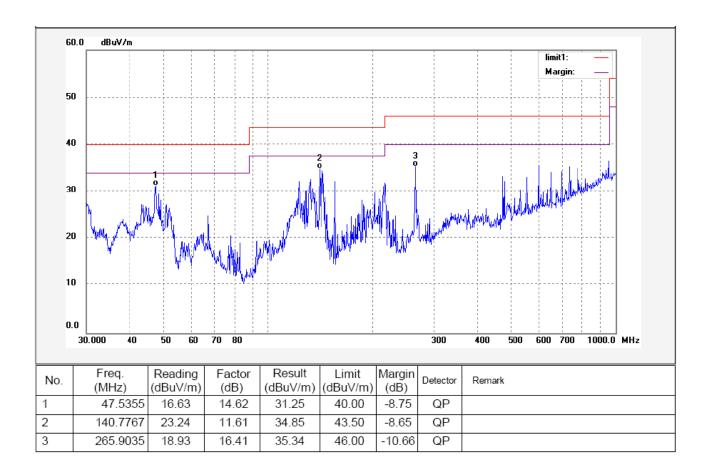


Test mode: continuously transmit mode

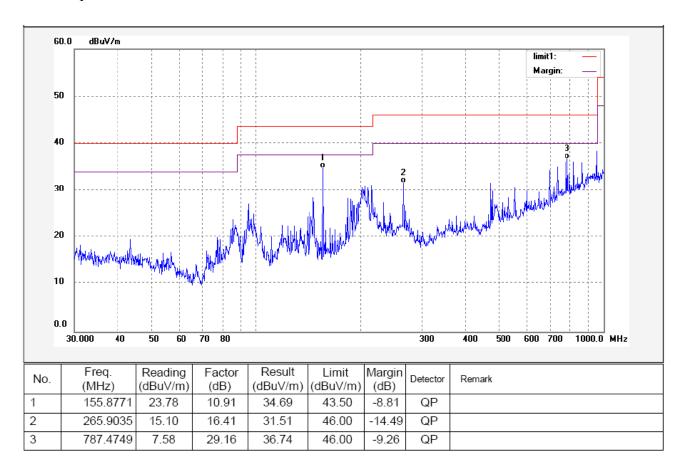
Test Frequency: 30MHz ~ 1000MHz

Remark: the EUT was pretested at the high, middle and low channel, and the worse case was the low Channel, so the data show was the low channel only. Because the emissions below 30MHz are more than 20dB below the limit, the data is not show in the report.

Antenna polarization: Vertical



Antenna polarization: Horizontal



FCC ID: ZWSLESAIRD01

Test Frequency: 1GHz ~ 25GHz

And the below is the Fundamental and Harmonic

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
			Low freq	uency			
2412	AV	Vertical	90.00		(Fund.)	1.0	210
4824	AV	Vertical	36.62	54.00	-17.38	1.1	50
7236	AV	Vertical	31.16	54.00	-22.84	1.5	130
9648	AV	Vertical	34.13	54.00	-19.87	1.2	70
12060	AV	Vertical	35.79	54.00	-18.21	1.3	260
14472	AV	Vertical	29.92	54.00	-24.08	1.1	140
16884	AV	Vertical	38.56	54.00	-15.44	1.5	200
19296	AV	Vertical	26.93	54.00	-27.07	1.3	280
21708	AV	Vertical	33.61	54.00	-20.39	1.2	180
24120	AV	Vertical	30.50	54.00	-23.50	1.1	150
2412	AV	Horizontal	95.91		(Fund.)	2.1	110
4824	AV	Horizontal	43.12	54.00	-10.88	1.8	60
7236	AV	Horizontal	39.44	54.00	-14.56	1.9	190
9648	AV	Horizontal	35.53	54.00	-18.47	2.3	310
12060	AV	Horizontal	31.89	54.00	-22.11	2.0	200
14472	AV	Horizonta	38.82	54.00	-15.18	1.7	70
16884	AV	Horizontal	41.71	54.00	-12.29	1.8	40
19296	AV	Horizontal	34.59	54.00	-19.41	1.9	100
21708	AV	Horizontal	33.01	54.00	-20.99	1.5	160
24120	AV	Horizontal	35.62	54.00	-18.38	1.2	140
2412	PK	Vertical	110.00		(Fund.)	1.5	180
4824	PK	Vertical	57.52	74.00	-16.48	1.5	200
7236	PK	Vertical	54.71	74.00	-19.29	1.3	280
9648	PK	Vertical	56.59	74.00	-17.41	1.2	180
12060	PK	Vertical	52.90	74.00	-21.10	1.2	90
14472	PK	Vertical	48.65	74.00	-25.35	1.8	60
16884	PK	Vertical	55.50	74.00	-18.50	1.9	190

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		,		1			1
19296	PK	Vertical	57.72	74.00	-16.28	2.3	310
21708	PK	Vertical	48.71	74.00	-25.29	1.3	260
24120	PK	Vertical	44.44	74.00	-29.56	1.1	140
2412	PK	Horizontal	117.52		(Fund.)	2.3	310
4824	PK	Horizontal	64.62	74.00	-9.38	2.0	200
7236	PK	Horizontal	56.81	74.00	-17.19	1.7	70
9648	PK	Horizontal	59.53	74.00	-14.47	1.8	60
12060	PK	Horizontal	61.62	74.00	-12.38	2.1	110
14472	PK	Horizontal	56.79	74.00	-17.21	1.8	60
16884	PK	Horizontal	51.74	74.00	-22.26	1.9	190
19296	PK	Horizontal	53.45	74.00	-20.55	1.9	100
21708	PK	Horizontal	55.68	74.00	-18.32	1.5	160
24120	PK	Horizontal	49.64	74.00	-24.36	1.7	140
			Middle fre	quency			
2437	AV	Vertical	87.64		(Fund.)	1.3	280
4874	AV	Vertical	34.66	54.00	-19.34	1.2	180
7311	AV	Vertical	31.73	54.00	-22.27	1.1	150
9748	AV	Vertical	35.76	54.00	-18.24	1.1	140
12185	AV	Vertical	30.14	54.00	-23.86	1.5	200
14622	AV	Vertical	33.65	54.00	-20.35	1.3	280
17059	AV	Vertical	28.04	54.00	-25.96	1.1	50
19496	AV	Vertical	29.05	54.00	-24.95	1.5	130
21933	AV	Vertical	28.93	54.00	-25.07	1.2	70
24370	AV	Vertical	27.88	54.00	-26.12	1.1	140
2437	AV	Horizontal	95.88		(Fund.)	2.0	200
4874	AV	Horizontal	39.72	54.00	-14.28	1.7	70
7311	AV	Horizontal	41.64	54.00	-12.36	1.8	40
9748	AV	Horizontal	35.76	54.00	-18.24	1.8	60
12185	AV	Horizontal	36.94	54.00	-17.06	1.9	190
14622	AV	Horizontal	39.67	54.00	-14.33	2.3	310
17059	AV	Horizontal	34.75	54.00	-19.25	1.9	100
19496	AV	Horizontal	36.66	54.00	-17.34	1.5	160

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140 120 0 90 100 120 180
0 90 100 120 180
90 100 120 180
100 120 180
120 180
180
0
0
120
135
120
0
45
90
60
150
150
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150
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60
135
120
100
60
13 (13 (4 12 6 13 12

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24620	AV	Vertical	31.02	54.00	-22.98	1.5	60
2462	AV	Horizontal	97.15		(Fund.)	1.0	0
4924	AV	Horizontal	37.05	54.00	-16.95	1.8	120
7386	AV	Horizontal	42.85	54.00	-11.15	1.2	60
9848	AV	Horizontal	40.11	54.00	-13.89	1.5	100
12310	AV	Horizontal	39.32	54.00	-14.68	1.2	60
14772	AV	Horizontal	37.13	54.00	-16.87	1.2	120
17234	AV	Horizontal	36.27	54.00	-17.73	1.4	100
19696	AV	Horizontal	37.62	54.00	-16.38	1.8	100
22158	AV	Horizontal	29.77	54.00	-24.23	1.3	100
24620	AV	Horizontal	29.99	54.00	-24.01	1.6	10
2462	PK	Vertical	110.02		(Fund.)	1.0	0
4924	PK	Vertical	56.85	74.00	-17.15	1.2	60
7386	PK	Vertical	58.62	74.00	-15.38	1.8	90
9848	PK	Vertical	54.74	74.00	-19.26	1.5	180
12310	PK	Vertical	51.66	74.00	-22.34	1.4	60
14772	PK	Vertical	53.97	74.00	-20.03	1.2	60
17234	PK	Vertical	50.08	74.00	-23.92	1.2	135
19696	PK	Vertical	47.93	74.00	-26.07	1.2	120
22158	PK	Vertical	44.78	74.00	-29.22	1.6	60
24620	PK	Vertical	46.24	74.00	-27.76	1.4	90
2462	PK	Horizontal	118.56		(Fund.)	1.1	60
4924	PK	Horizontal	61.81	74.00	-12.19	1.4	90
7386	PK	Horizontal	62.75	74.00	-11.25	1.5	60
9848	PK	Horizontal	59.55	74.00	-14.45	1.3	0
12310	PK	Horizontal	56.93	74.00	-17.07	1.2	135
14772	PK	Horizontal	55.23	74.00	-18.77	1.7	0
17234	PK	Horizontal	57.84	74.00	-16.16	1.8	180
19696	PK	Horizontal	55.98	74.00	-18.02	1.5	60
22158	PK	Horizontal	50.74	74.00	-23.26	1.8	120
24620	PK	Horizontal	52.02	74.00	-21.98	1.0	60

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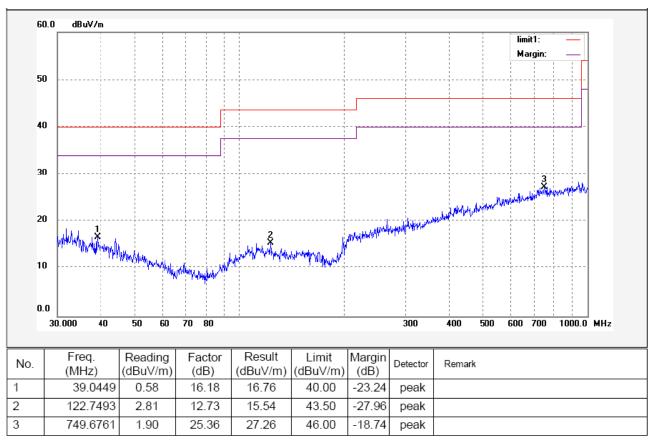
Modulation Technique: IEEE 802.11G Mode

Test mode: continuously recevie mode

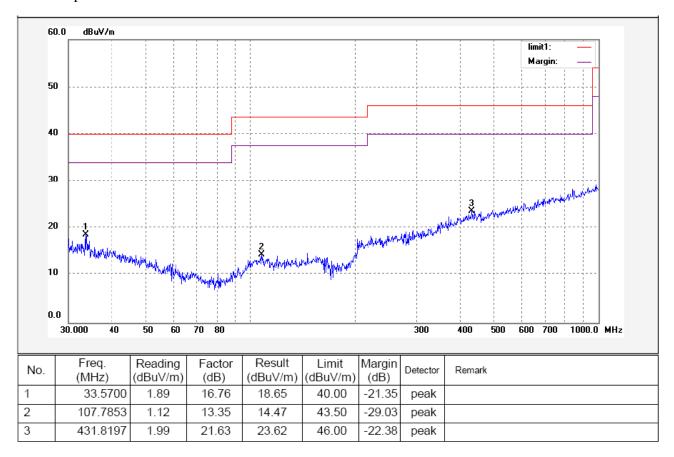
Remark: the EUT was pre-tested at the high, middle and low channel, and the worse case was the low Channel, so the data show was the low channel's only. Because the emissions below 30MHz are more than 20dB below the limit, the data is not show in the report.

Test Frequency: 30MHz ~ 1000MHz

Antenna polarization: Vertical



Antenna polarization: Horizontal

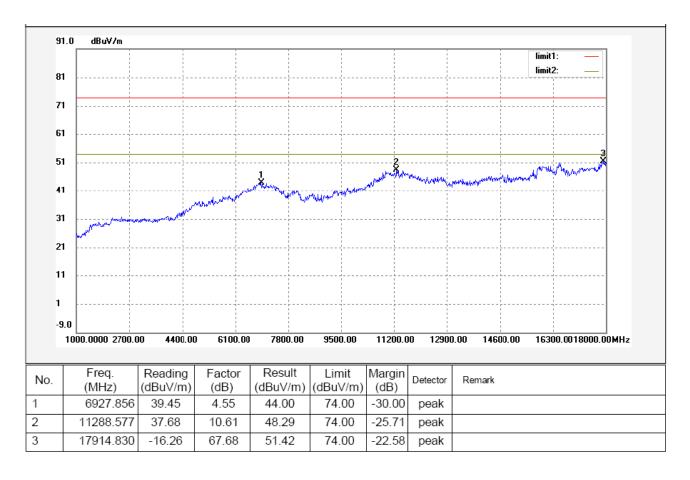


FCC ID: ZWSLESAIRD01

Test Frequency: Above 1GHz radiation test data:

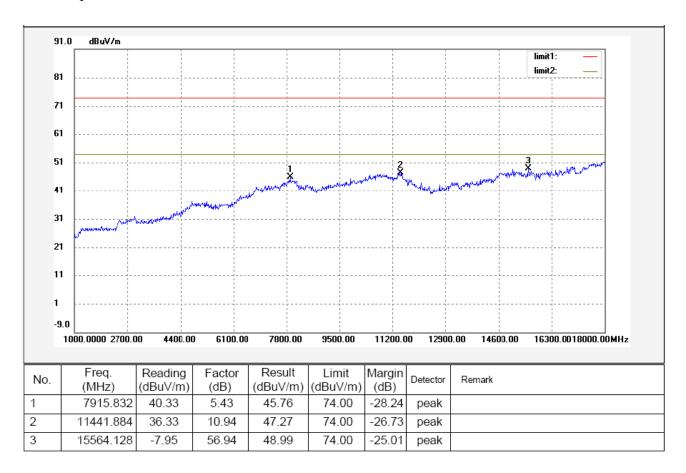
Remark: above 18GHz, the test signal below the noise level, so the data was not perfromed.

Antenna polarization: Vertical



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Antenna polarization: Horizontal

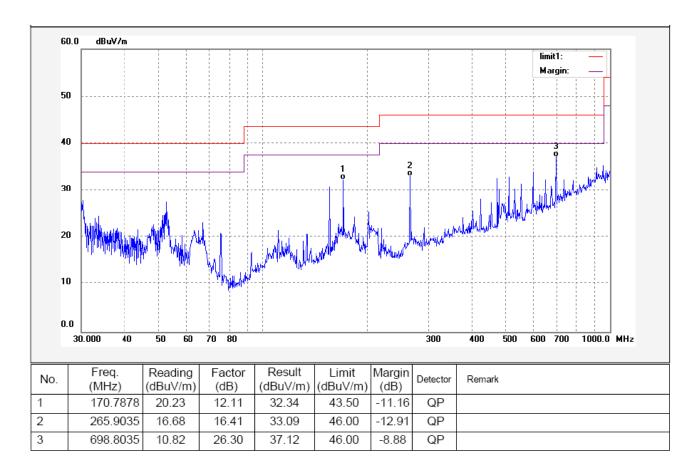


Test mode: continuously transmit mode

Test Frequency: 30MHz ~ 1000MHz

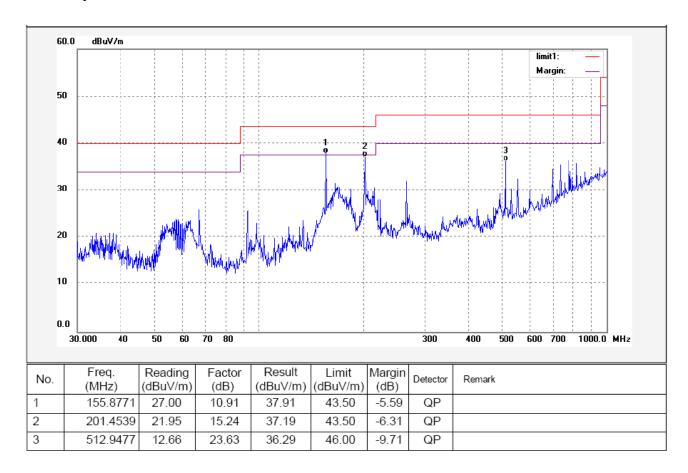
Remark: the EUT was pretested at the high, middle and low channel, and the worse case was the low Channel, so the data show was the low channel only. Because the emissions below 30MHz are more than 20dB below the limit, the data is not show in the report.

Antenna polarization: Vertical



FCC ID: ZWSLESAIRD01

Antenna polarization: Horizontal



FCC ID: ZWSLESAIRD01

Test Frequency: 1GHz ~ 25GHz

And the below is the Fundamental and Harmonic

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
			Low freq	uency			
2412	AV	Vertical	87.83		(Fund.)	1.2	150
4824	AV	Vertical	36.13	54.00	-17.87	1.2	0
7236	AV	Vertical	37.75	54.00	-16.25	1.5	120
9648	AV	Vertical	36.90	54.00	-17.10	1.8	60
12060	AV	Vertical	39.71	54.00	-14.29	1.6	90
14472	AV	Vertical	39.30	54.00	-14.70	1.4	120
16884	AV	Vertical	31.69	54.00	-22.31	1.7	100
19296	AV	Vertical	32.84	54.00	-21.16	1.5	180
21708	AV	Vertical	30.84	54.00	-23.16	1.6	120
24120	AV	Vertical	32.21	54.00	-21.79	1.2	135
2412	AV	Horizontal	96.12		96.12	1.2	120
4824	AV	Horizontal	40.73	54.00	-13.27	1.2	150
7236	AV	Horizontal	42.85	54.00	-11.15	1.5	120
9648	AV	Horizontal	40.10	54.00	-13.90	1.2	180
12060	AV	Horizontal	35.87	54.00	-18.13	1.5	135
14472	AV	Horizonta	37.03	54.00	-16.97	1.2	120
16884	AV	Horizontal	34.95	54.00	-19.05	1.5	180
19296	AV	Horizontal	32.70	54.00	-21.30	1.8	60
21708	AV	Horizontal	32.30	54.00	-21.70	1.2	90
24120	AV	Horizontal	30.24	54.00	-23.76	1.5	90
2412	PK	Vertical	105.95		105.95	1.5	180
4824	PK	Vertical	57.33	74.00	-16.67	1.8	30
7236	PK	Vertical	55.22	74.00	-18.78	1.6	110
9648	PK	Vertical	58.80	74.00	-15.20	1.4	100
12060	PK	Vertical	59.74	74.00	-14.26	1.2	90
14472	PK	Vertical	54.83	74.00	-19.17	1.2	60
16884	PK	Vertical	52.82	74.00	-21.18	1.4	90

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-							
19296	PK	Vertical	54.11	74.00	-19.89	1.2	120
21708	PK	Vertical	51.92	74.00	-22.08	1.7	120
24120	PK	Vertical	50.41	74.00	-23.59	1.4	135
2412	PK	Horizontal	114.45		114.45	1.8	180
4824	PK	Horizontal	62.91	74.00	-11.09	1.8	60
7236	PK	Horizontal	57.24	74.00	-16.76	1.8	120
9648	PK	Horizontal	61.01	74.00	-12.99	1.2	180
12060	PK	Horizontal	59.96	74.00	-14.04	1.2	90
14472	PK	Horizontal	54.73	74.00	-19.27	1.5	90
16884	PK	Horizontal	52.56	74.00	-21.44	1.8	150
19296	PK	Horizontal	52.79	74.00	-21.21	1.5	150
21708	PK	Horizontal	50.70	74.00	-23.30	1.2	120
24120	PK	Horizontal	49.45	74.00	-24.55	1.2	180
			Middle fre	quency			
2437	AV	Vertical	85.85		(Fund.)	1.0	210
4874	AV	Vertical	36.47	54.00	-17.53	1.1	50
7311	AV	Vertical	39.85	54.00	-14.15	1.5	130
9748	AV	Vertical	36.35	54.00	-17.65	1.2	70
12185	AV	Vertical	35.94	54.00	-18.06	1.5	200
14622	AV	Vertical	35.20	54.00	-18.80	1.3	280
17059	AV	Vertical	33.28	54.00	-20.72	1.2	180
19496	AV	Vertical	32.14	54.00	-21.86	1.1	150
21933	AV	Vertical	35.85	54.00	-18.15	1.3	260
24370	AV	Vertical	31.77	54.00	-22.23	1.1	140
2437	AV	Horizontal	93.97		93.97	1.7	70
4874	AV	Horizontal	40.85	54.00	-13.15	1.8	40
7311	AV	Horizontal	38.47	54.00	-15.53	1.9	100
9748	AV	Horizontal	37.19	54.00	-16.81	1.5	160
12185	AV	Horizontal	34.94	54.00	-19.06	1.9	190
14622	AV	Horizontal	31.78	54.00	-22.22	2.3	310
17059	AV	Horizontal	31.27	54.00	-22.73	2.0	200
19496	AV	Horizontal	33.96	54.00	-20.04	1.9	100

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WALTEK SERVICES

FCC ID: ZWSLESAIRD01

AV	Horizontal	29.88	54.00	-24.12	1.5	160
AV	Horizontal	30.62	54.00	-23.38	1.7	140
PK	Vertical	103.59		103.59	1.5	130
PK	Vertical	60.88	74.00	-13.12	1.2	70
PK	Vertical	62.14	74.00	-11.86	1.3	260
PK	Vertical	57.25	74.00	-16.75	1.5	200
PK	Vertical	54.10	74.00	-19.90	1.3	280
PK	Vertical	55.09	74.00	-18.91	1.2	180
PK	Vertical	51.90	74.00	-22.10	1.3	260
PK	Vertical	52.85	74.00	-21.15	1.1	140
PK	Vertical	49.87	74.00	-24.13	1.5	200
PK	Vertical	50.79	74.00	-23.21	1.3	280
PK	Horizontal	113.42		113.42	1.7	70
PK	Horizontal	63.08	74.00	-10.92	1.8	40
PK	Horizontal	59.96	74.00	-14.04	1.9	100
PK	Horizontal	61.20	74.00	-12.80	1.8	60
PK	Horizontal	58.07	74.00	-15.93	1.9	190
PK	Horizontal	54.94	74.00	-19.06	2.3	310
PK	Horizontal	51.90	74.00	-22.10	2.0	200
PK	Horizontal	49.97	74.00	-24.03	1.7	70
PK	Horizontal	51.37	74.00	-22.63	1.5	160
PK	Horizontal	49.88	74.00	-24.12	1.7	140
		High freq	uency			
AV	Vertical	86.70		(Fund.)	1.0	0
AV	Vertical	38.85	54.00	-15.15	1.3	280
AV	Vertical	36.07	54.00	-17.93	1.2	180
AV	Vertical	36.76	54.00	-17.24	1.1	150
AV	Vertical	37.88	54.00	-16.12	1.2	70
AV	Vertical	35.26	54.00	-18.74	1.3	260
AV	Vertical	31.77	54.00	-22.23	1.1	140
AV	Vertical	30.88	54.00	-23.12	1.5	200
AV	Vertical	31.84	54.00	-22.16	1.3	280
	AV PK	AV Horizontal PK Vertical PK Horizontal PK Vertical PK Vertical PK Vertical PK Vertical PK Horizontal PK Horizontal PK Horizontal PK Horizontal PK Horizontal PK Horizontal PK Vertical PK Vertical AV Vertical AV Vertical AV Vertical AV Vertical AV Vertical AV Vertical	AV Horizontal 30.62 PK Vertical 103.59 PK Vertical 60.88 PK Vertical 62.14 PK Vertical 57.25 PK Vertical 54.10 PK Vertical 55.09 PK Vertical 51.90 PK Vertical 52.85 PK Vertical 50.79 PK Horizontal 63.08 PK Horizontal 63.08 PK Horizontal 59.96 PK Horizontal 59.96 PK Horizontal 54.94 PK Horizontal 54.94 PK Horizontal 51.30 PK Horizontal 49.97 PK Horizontal 49.88 High frequence AV Vertical 36.76 AV Vertical 36.76 AV Vertical 37.88 AV Vertical 31.77 </td <td>AV Horizontal 30.62 54.00 PK Vertical 103.59 PK Vertical 60.88 74.00 PK Vertical 62.14 74.00 PK Vertical 57.25 74.00 PK Vertical 55.09 74.00 PK Vertical 51.90 74.00 PK Vertical 52.85 74.00 PK Vertical 50.79 74.00 PK Vertical 50.79 74.00 PK Horizontal 63.08 74.00 PK Horizontal 59.96 74.00 PK Horizontal 59.96 74.00 PK Horizontal 58.07 74.00 PK Horizontal 54.94 74.00 PK Horizontal 51.90 74.00 PK Horizontal 51.37 74.00 PK Horizontal 49.87 74.00 PK Horizonta</td> <td>AV Horizontal 30.62 54.00 -23.38 PK Vertical 103.59 103.59 PK Vertical 60.88 74.00 -13.12 PK Vertical 62.14 74.00 -11.86 PK Vertical 57.25 74.00 -16.75 PK Vertical 54.10 74.00 -19.90 PK Vertical 55.09 74.00 -18.91 PK Vertical 51.90 74.00 -22.10 PK Vertical 52.85 74.00 -22.10 PK Vertical 49.87 74.00 -24.13 PK Vertical 50.79 74.00 -23.21 PK Horizontal 113.42 113.42 PK Horizontal 63.08 74.00 -10.92 PK Horizontal 59.96 74.00 -12.80 PK Horizontal 58.07 74.00 -15.93 PK Horizontal<!--</td--><td>AV Horizontal 30.62 54.00 -23.38 1.7 PK Vertical 103.59 1.5 1.5 PK Vertical 60.88 74.00 -13.12 1.2 PK Vertical 62.14 74.00 -11.86 1.3 PK Vertical 57.25 74.00 -16.75 1.5 PK Vertical 54.10 74.00 -19.90 1.3 PK Vertical 55.09 74.00 -18.91 1.2 PK Vertical 51.90 74.00 -22.10 1.3 PK Vertical 52.85 74.00 -21.15 1.1 PK Vertical 50.79 74.00 -23.21 1.3 PK Vertical 50.79 74.00 -23.21 1.3 PK Horizontal 63.08 74.00 -10.92 1.8 PK Horizontal 59.96 74.00 -12.80 1.8 PK</td></td>	AV Horizontal 30.62 54.00 PK Vertical 103.59 PK Vertical 60.88 74.00 PK Vertical 62.14 74.00 PK Vertical 57.25 74.00 PK Vertical 55.09 74.00 PK Vertical 51.90 74.00 PK Vertical 52.85 74.00 PK Vertical 50.79 74.00 PK Vertical 50.79 74.00 PK Horizontal 63.08 74.00 PK Horizontal 59.96 74.00 PK Horizontal 59.96 74.00 PK Horizontal 58.07 74.00 PK Horizontal 54.94 74.00 PK Horizontal 51.90 74.00 PK Horizontal 51.37 74.00 PK Horizontal 49.87 74.00 PK Horizonta	AV Horizontal 30.62 54.00 -23.38 PK Vertical 103.59 103.59 PK Vertical 60.88 74.00 -13.12 PK Vertical 62.14 74.00 -11.86 PK Vertical 57.25 74.00 -16.75 PK Vertical 54.10 74.00 -19.90 PK Vertical 55.09 74.00 -18.91 PK Vertical 51.90 74.00 -22.10 PK Vertical 52.85 74.00 -22.10 PK Vertical 49.87 74.00 -24.13 PK Vertical 50.79 74.00 -23.21 PK Horizontal 113.42 113.42 PK Horizontal 63.08 74.00 -10.92 PK Horizontal 59.96 74.00 -12.80 PK Horizontal 58.07 74.00 -15.93 PK Horizontal </td <td>AV Horizontal 30.62 54.00 -23.38 1.7 PK Vertical 103.59 1.5 1.5 PK Vertical 60.88 74.00 -13.12 1.2 PK Vertical 62.14 74.00 -11.86 1.3 PK Vertical 57.25 74.00 -16.75 1.5 PK Vertical 54.10 74.00 -19.90 1.3 PK Vertical 55.09 74.00 -18.91 1.2 PK Vertical 51.90 74.00 -22.10 1.3 PK Vertical 52.85 74.00 -21.15 1.1 PK Vertical 50.79 74.00 -23.21 1.3 PK Vertical 50.79 74.00 -23.21 1.3 PK Horizontal 63.08 74.00 -10.92 1.8 PK Horizontal 59.96 74.00 -12.80 1.8 PK</td>	AV Horizontal 30.62 54.00 -23.38 1.7 PK Vertical 103.59 1.5 1.5 PK Vertical 60.88 74.00 -13.12 1.2 PK Vertical 62.14 74.00 -11.86 1.3 PK Vertical 57.25 74.00 -16.75 1.5 PK Vertical 54.10 74.00 -19.90 1.3 PK Vertical 55.09 74.00 -18.91 1.2 PK Vertical 51.90 74.00 -22.10 1.3 PK Vertical 52.85 74.00 -21.15 1.1 PK Vertical 50.79 74.00 -23.21 1.3 PK Vertical 50.79 74.00 -23.21 1.3 PK Horizontal 63.08 74.00 -10.92 1.8 PK Horizontal 59.96 74.00 -12.80 1.8 PK

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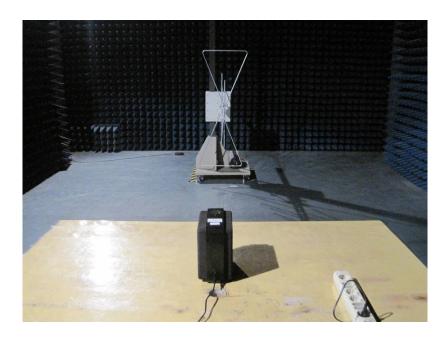
FCC ID: ZWSLESAIRD01

24620	AV	Vertical	30.27	54.00	-23.73	1.2	180
2462	AV	Horizontal	96.16	0 00	96.16	1.9	190
4924	AV	Horizontal	40.80	54.00	-13.20	2.3	310
7386	AV	Horizontal	39.91	54.00	-14.09	1.7	70
9848	AV	Horizontal	36.88	54.00	-17.12	1.8	40
12310	AV	Horizontal	35.05	54.00	-18.95	2.0	200
14772	AV	Horizontal	36.18	54.00	-17.82	1.5	160
17234	AV	Horizontal	33.05	54.00	-20.95	1.8	40
19696	AV	Horizontal	29.90	54.00	-24.10	1.8	100
22158	AV	Horizontal	30.68	54.00	-23.32	2.1	110
24620	AV	Horizontal	29.90	54.00	-24.10	1.8	60
2462	PK	Vertical	102.90		102.90	1.0	0
4924	PK	Vertical	60.26	74.00	-13.74	1.2	60
7386	PK	Vertical	60.71	74.00	-13.29	1.3	260
9848	PK	Vertical	57.49	74.00	-16.51	1.1	140
12310	PK	Vertical	55.95	74.00	-18.05	1.5	200
14772	PK	Vertical	57.87	74.00	-16.13	1.2	60
17234	PK	Vertical	52.11	74.00	-21.89	1.3	280
19696	PK	Vertical	52.80	74.00	-21.20	1.2	180
22158	PK	Vertical	50.01	74.00	-23.99	1.1	150
24620	PK	Vertical	50.79	74.00	-23.21	1.4	90
2462	PK	Horizontal	110.87		110.87	2.1	110
4924	PK	Horizontal	63.00	74.00	-11.00	1.8	60
7386	PK	Horizontal	60.18	74.00	-13.82	1.9	190
9848	PK	Horizontal	59.05	74.00	-14.95	2.0	200
12310	PK	Horizontal	56.94	74.00	-17.06	1.7	70
14772	PK	Horizontal	53.66	74.00	-20.34	1.8	40
17234	PK	Horizontal	50.97	74.00	-23.03	1.8	60
19696	PK	Horizontal	51.82	74.00	-22.18	1.9	190
22158	PK	Horizontal	50.50	74.00	-23.50	1.8	40
24620	PK	Horizontal	49.68	74.00	-24.32	1.9	100

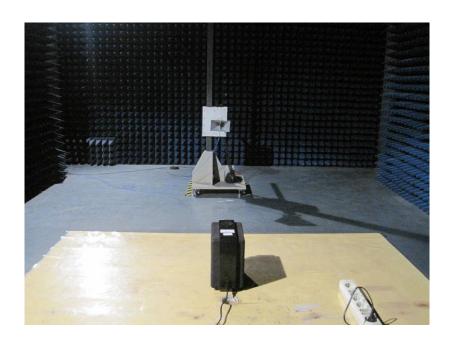
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FCC ID: ZWSLESAIRD01

Photograph – Radiation Spurious Emission Test SetupBelow 1GHz



Above 1GHz



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Radiated Emissions which fall in the restricted bands

Test Requirement: Section 15.247(d) In addition, radiated emissions which fall in

> the restricted bands. as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section

15.209(a) (see Section 15.205(c)).

Base on ANSI C63.4:2003 Test Method:

Measurement Distance: 3m

Limit: 40.0 dBuV/m between 30MHz & 88MHz;

> 43.5 dBuV/m between 88MHz & 216MHz; 46.0 dBuV/m between 216MHz & 960MHz;

54.0 dBuV/m above 960MHz.

74.0 dBuV/m for peak above 1GHz 54.0 dBuV/m for AVG above 1GHz

Detector: For Peak value:

> RBW = 1 MHz for f > 1 GHz $VBW \ge RBW$; Sweep = auto

Detector function = peak Trace = max hold

For AVG value:

RBW = 1 MHz for $f \ge 1$ GHz VBW = 10Hz; Sweep = auto Detector function = AVG

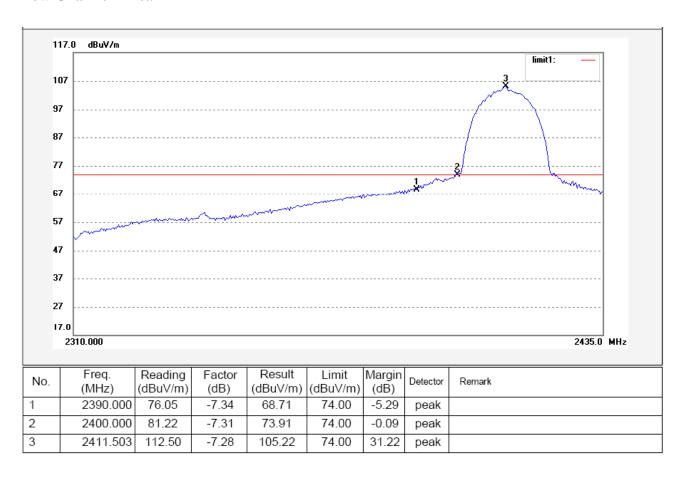
Trace = max hold

FCC ID: ZWSLESAIRD01

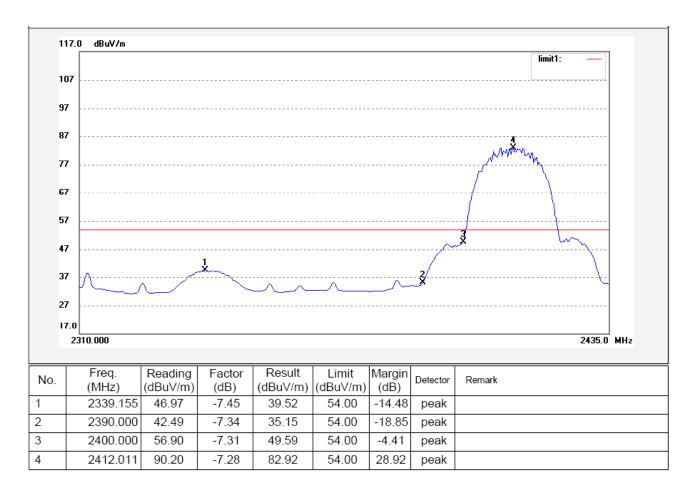
Test mode: IEEE 802.11B

Test Result:

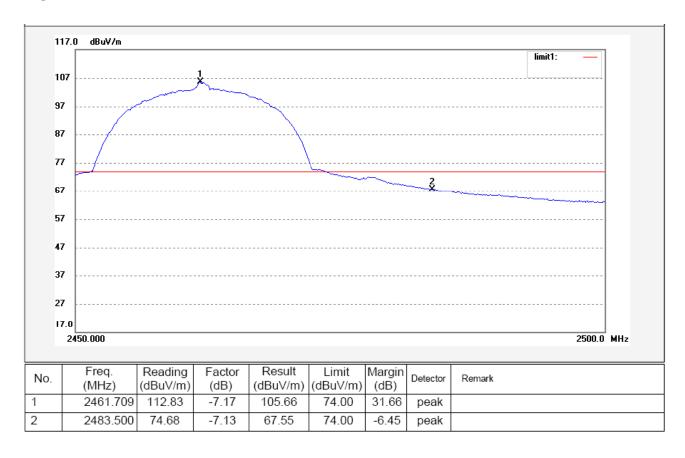
Low Channel - Peak



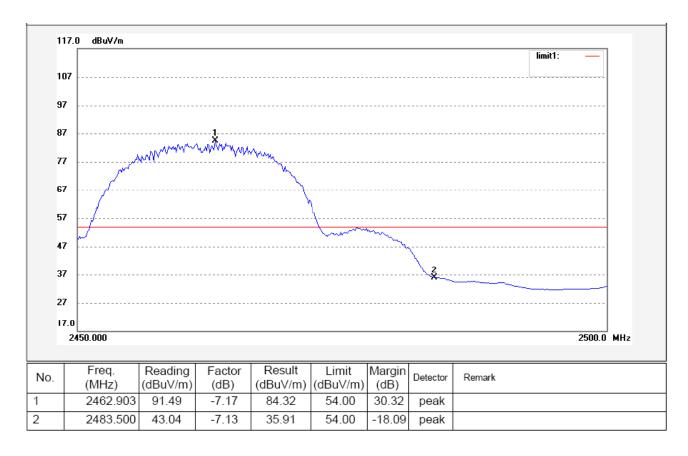
Low Channel - AV



High Channel – Peak



High Channel - AV

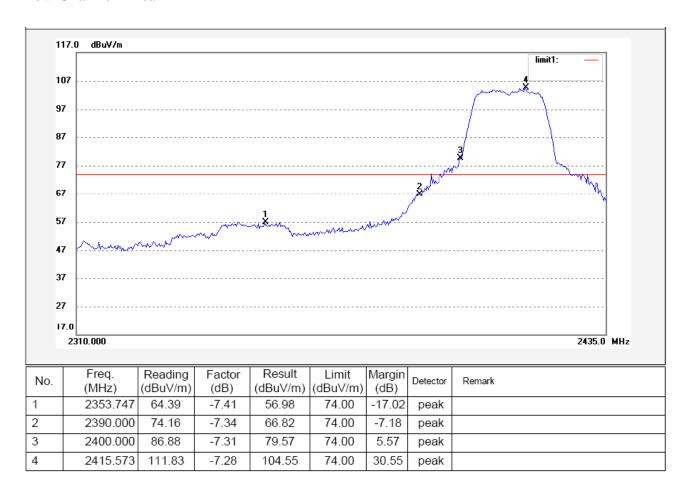


FCC ID: ZWSLESAIRD01

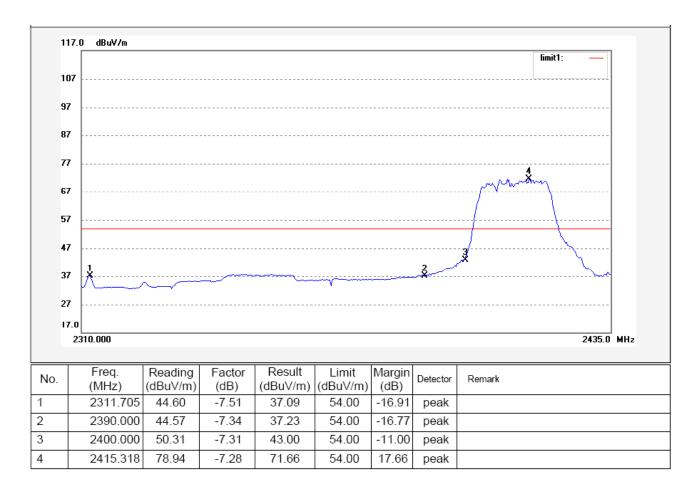
Test mode: IEEE 802.11G

Test Result:

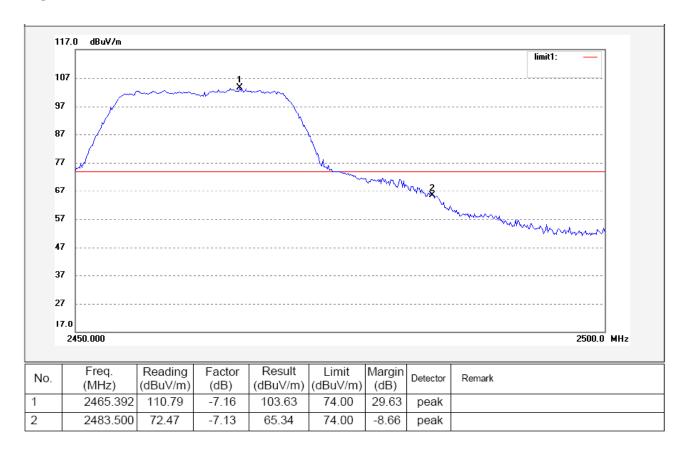
Low Channel - Peak



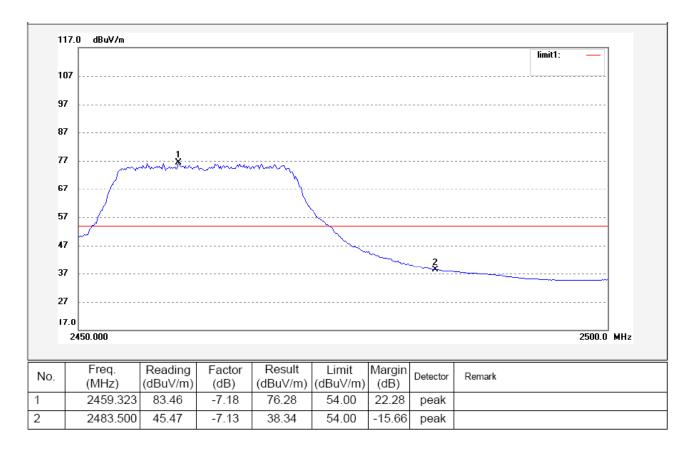
Low Channel - AV



High Channel – Peak



High Channel - AV



FCC ID: ZWSLESAIRD01

9 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: Based on FCC Part 15.247

Limit: Regulation 15.247 (a)(2) Systems using digital modulation

techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall

be at least 500 kHz.

Test Mode: Test in fixing operating frequency at low, Middle, high channel.

Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

2. Set the spectrum analyzer: Span = 30MHz, RBW = 100kHz, VBW = 100kHz

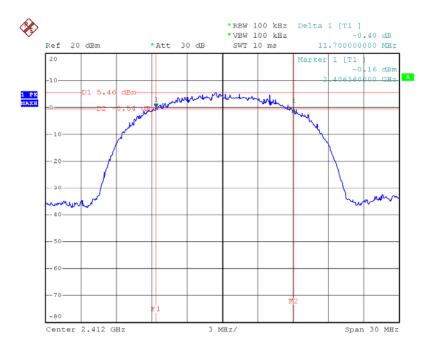
Test Result:

Test Mode: IEEE 802.11B

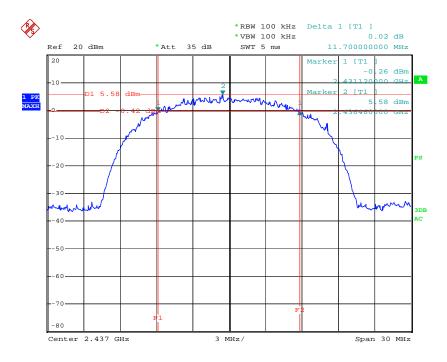
Test Channel	Bandwidth	Result
Low	11.7MHz	PASS
Middle	11.7MHz	PASS
High	11.7MHz	PASS

Test result plot as follows:

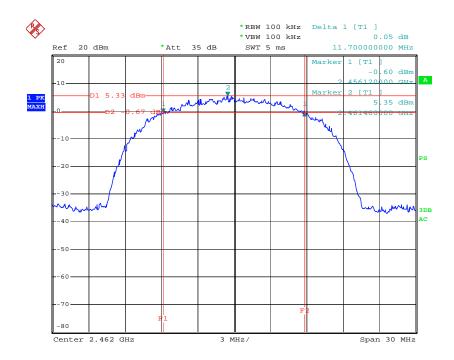
Low Channel



Middle Channel



High Channel



FCC ID: ZWSLESAIRD01

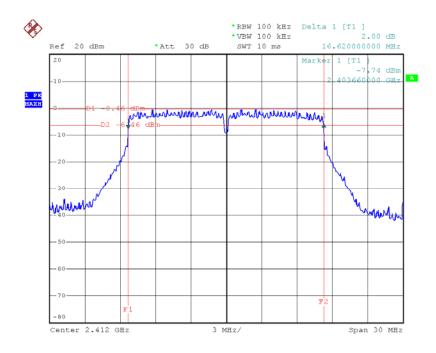
Test Result:

Test Mode: IEEE 802.11G

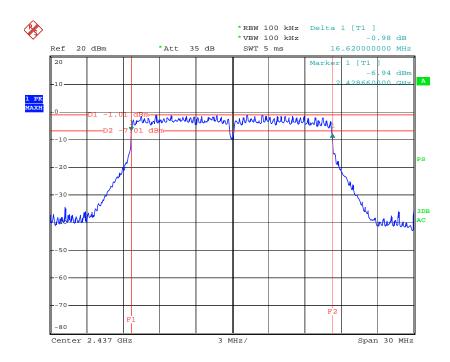
Test Channel	Bandwidth	Result
Low	16.62MHz	PASS
Middle	16.62MHz	PASS
High	16.62MHz	PASS

Test result plot as follows:

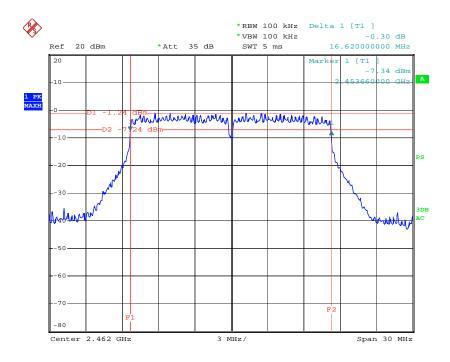
Low Channel



Middle Channel



High Channel



FCC ID: ZWSLESAIRD01

10 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: Based on ANSI C63.4:2003

Test Limit: Regulation 15.247 (b)(3) For systems using digital modulation in

the 902–928 MHz, 2400–2483.5MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. Refer to the result "Number of Hopping Frequency" of

this document. The 1watts (30 dBm) limit applies.

Test mode: Test in fixing operating frequency at low, Middle, high channel.

Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 1 MHz, VBW = 1 MHz, Sweep = auto; Detector Function = Peak.
- 3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

WALTEK SERVICES Reference No.: WT11094921-E-E-F

FCC ID: ZWSLESAIRD01

Test Result:

Test Mode: IEEE 802.11B

Test Channel	Output Power (dBm)	Limit (dBm)	
Low	14.84	30	
Middle	14.94	30	
High	14.62	30	

Test Mode: IEEE 802.11G

Test Channel	Output Power (dBm)	Limit (dBm)	
Low	9.93	30	
Middle	9.26	30	
High	8.99	30	

FCC ID: ZWSLESAIRD01

11 Power Spectral Density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: Based on FCC Part 15.247

Test Limit: Regulation 15.247(e) For digitally modulated systems, the power

spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output

power shall be used to determine the power spectral density.

Test Mode: Test in fixing operating frequency at low, Middle, high channel.

Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz, Span = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

WALTEK SERVICES Reference No.: WT11094921-E-E-F

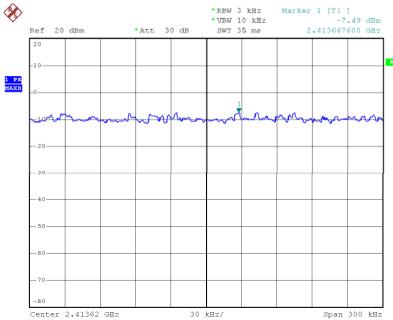
Test Result:

Test Mode: IEEE 802.11B

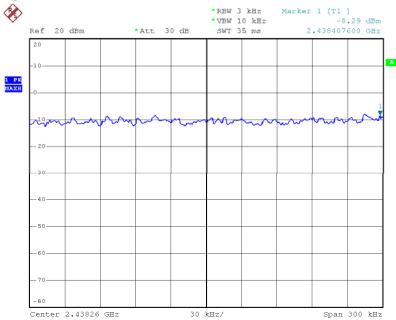
Test result: PASS

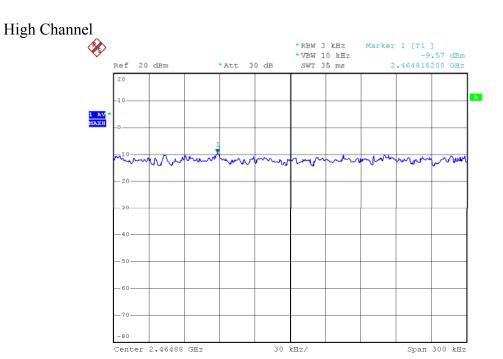
Test result plot as follows:

Low Channel







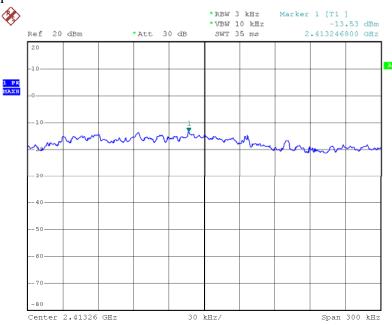


Test Mode: IEEE 802.11G

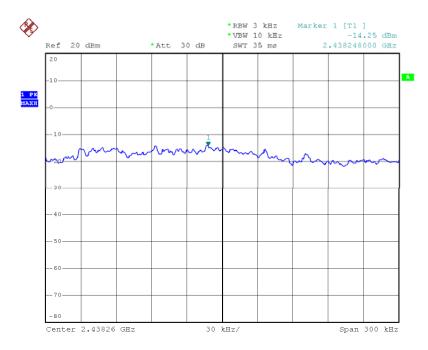
Test result: PASS

Test result plot as follows:

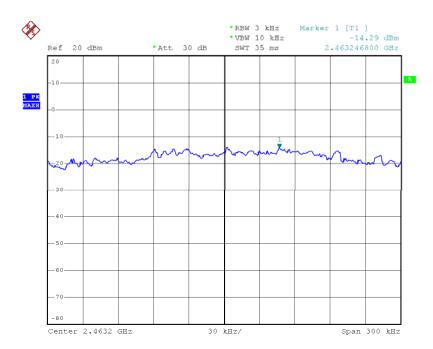
Low Channel



Middle Channel



High Channel



12 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product has a permanent antenna, fulfill the requirement of this section.

13 RF Exposure

Test Requirement: FCC CFR47 Part 1 Section 1.1307

Test Method: Based on FCC Part 15.247

Test Mode: The EUT work in test mode(Tx).

Requiments:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842 / f	4.89 / f	(900 / f)*	6	
30-300	61.4	0.163	1.0	6	
300-1500			F/300	6	
1500-100,000			5	6	

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

FCC ID: ZWSLESAIRD01

Note: f = frequency in MHz; *Plane-wave equivalent power density

MPE Calculation Method

$$E (V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $Pd (W/m^2) = \frac{E^2}{377}$

 $\mathbf{E} = \text{Electric field (V/m)}$

 $\mathbf{P} = \text{Peak RF output power (W)}$

G = EUT Antenna numeric gain (numeric)

 $\mathbf{d} =$ Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

Test Mode: IEEE 802.11B

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
6	3.98	14.84	30.478950	0.024133	1	Complies
6	3.98	14.94	31.188896	0.024695	1	Complies
6	3.98	14.62	28.973436	0.022941	1	Complies

Test Mode: IEEE 802.11G

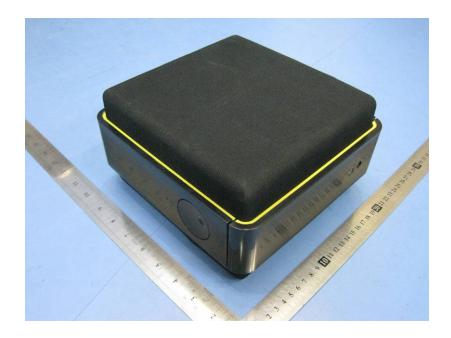
Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
6	3.98	9.93	9.840111	0.007791	1	Complies
6	3.98	9.26	8.433348	0.006677	1	Complies
6	3.98	8.99	7.925013	0.006275	1	Complies

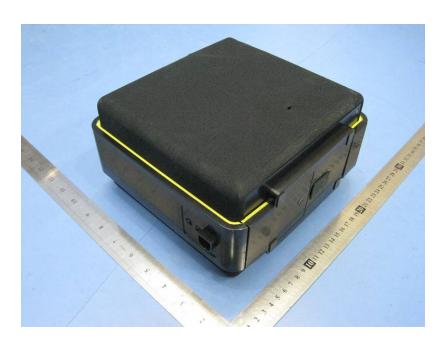
14 Photographs - Constructional Details

14.1 Product View

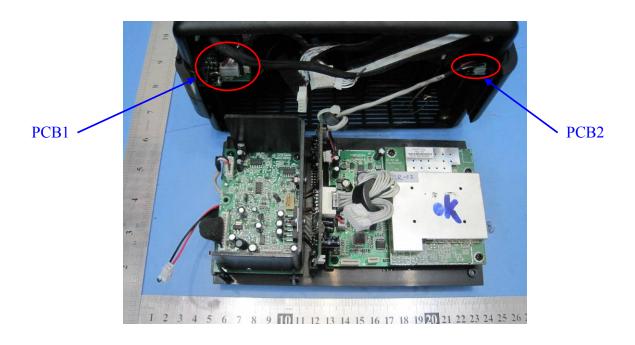


14.2 EUT – Appearance View

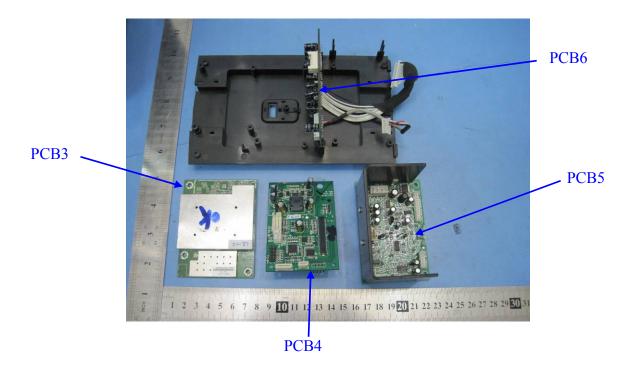




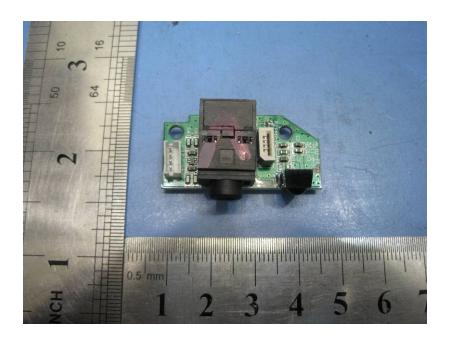
14.3 EUT-Open View

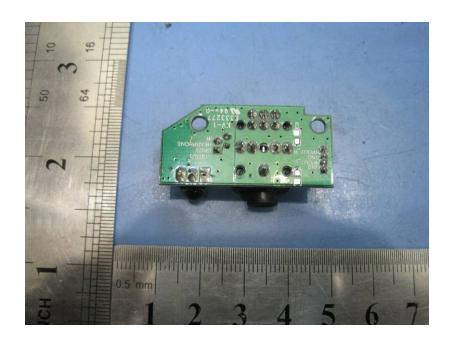




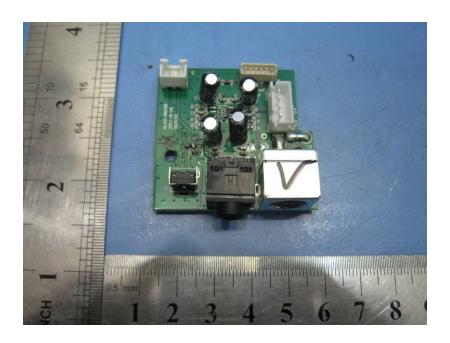


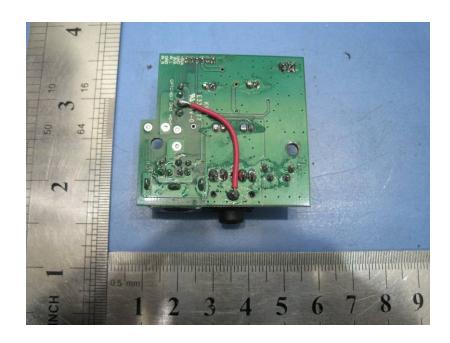
14.4 PCB1 - View



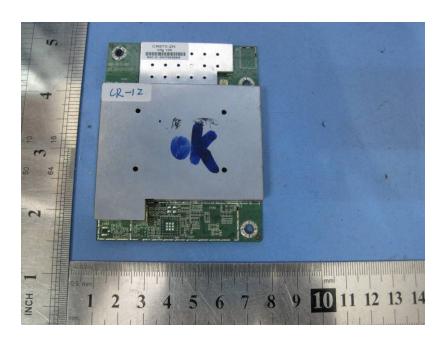


14.5 PCB2 - View

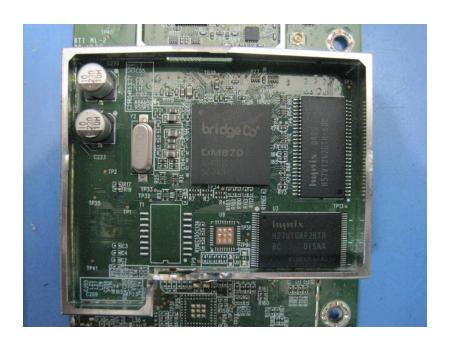




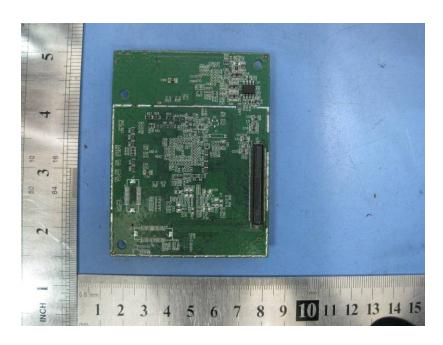
14.6 PCB3 - View



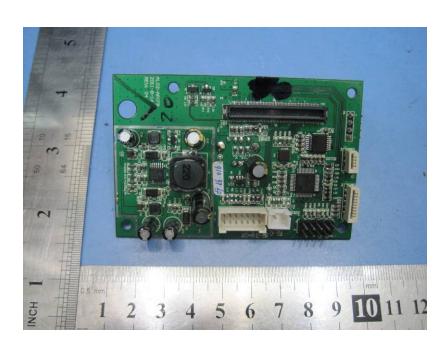


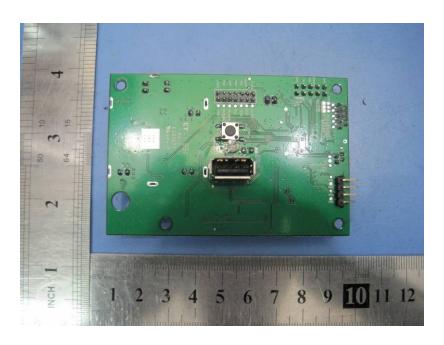




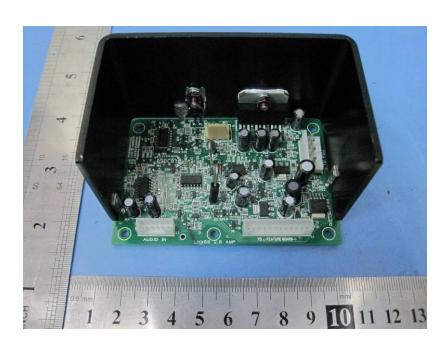


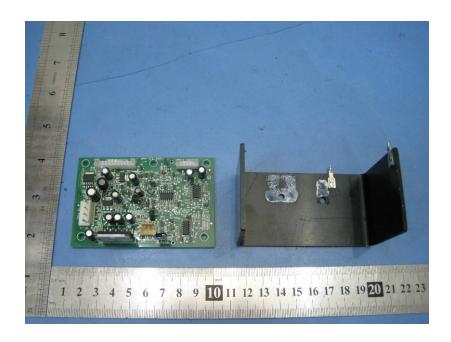
14.7 PCB4 - View

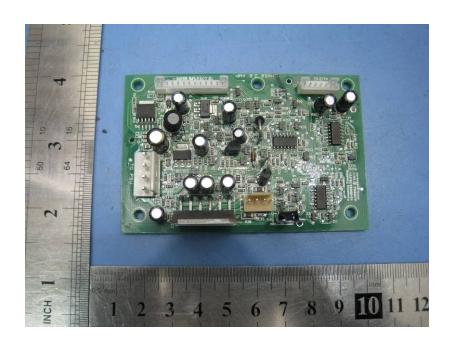


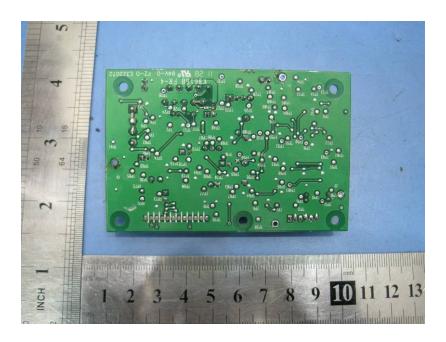


14.8 PCB5 - View

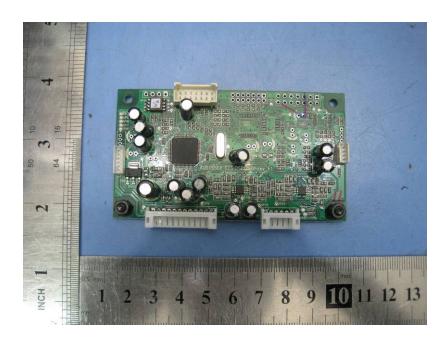






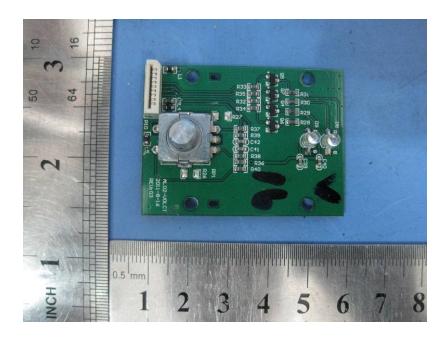


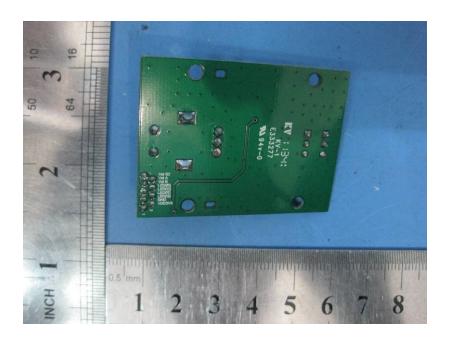
14.9 PCB6 - View





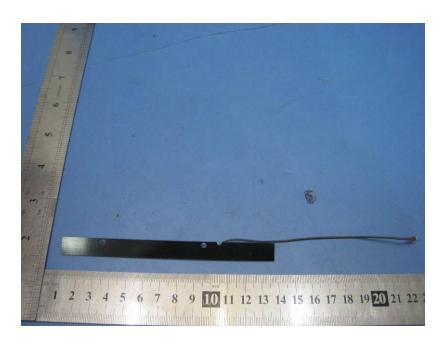
14.10 PCB of Volume control - View





14.11 Antenna View





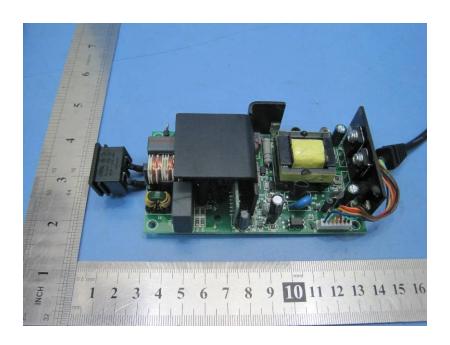
14.12 Adapter - Appearence View





14.13 Adapter - Open View







14.14 PCB of Adapter - View





15 FCC Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation. The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT EUT Side View/proposed FCC Mark Location

