## **Technical Information**

	Α	PPLICANT	MANUFACTURER				
Name:	Flair Agency	Name: Electronic Display Applications, Inc					
Address: _	2900	E. Broadway, Suite 128	Address: 324 South 2 <sup>nd</sup> Street Pike, Ur				
City, State, Zip: Tuscon, AZ 85716		City, State, Zip:		Southampton, PA 18966			

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Section 15.249

TEST PROCEDURE: ANSI C63.4:2003

## TEST SAMPLE DESCRIPTION

BRANDNAME(s): Next Link

MODEL(s): SL-1550-T15

FCC ID: WPSSL-1550-T15

TYPE: Audio / Video Transmitter

POWER REQUIREMENTS: 10 V to 40 VDC, Derived from 120 VAC, 60 Hz Adaptor

FREQUENCY OF OPERATION: 2.410 to 2.472 GHz

APPLICABLE RULE SECTION: Part 15, Subpart C, Section 15.249

### **TESTS PERFORMED**

- 15.249(a)	Radiated Emissions.	Fundamental.	Harmonics and Si	purious. 1 to 25 GHz

- 15.207(a) Conducted Emissions, Power Leads, 150 kHz to 30 MHz

- 15.209(a) Radiated Emissions, Spurious Case, 30 to 1000 MHz

# TEST RESULTS

15.203:	The intentional radiator is designed to ensure that no antenna other than that furnished by the applicant can be used with the device.
15.207 (a):	The radio frequency voltage that was conducted back on to the AC power line on any frequency/frequencies within the bandwidth of 450 kHz to 30 MHz did not exceed 250 microvolts.
15.249 (a):	The unit operates in 2.410 GHz to 2.472 GHz band. The field strength of the fundamental did not exceed 38,459 mV/M peak. The field strength of the harmonics did not exceed 610 $\mu$ V/M peak.
15.249 (c):	Field strength readings were taken at 3 meters unless otherwise noted.
15.249 (d):	Emissions radiated outside the specified frequency band were attenuated in accordance with the general radiated emissions limits of 15.209.
15.249 (e):	The peak field strength of any emission did not exceed the maximum permitted average field strength by more than 20 dB.

## GENERAL NOTES

- 1. The AC input was varied from 85% to 115% of the rated input. Field strength measurements were taken with the AC input adjusted to produce maximum emissions.
- 2. All user accessible controls were adjusted to produce maximum emissions.
- 3. The device was tested with the following external accessories: External Audio and Video Source (Camera)
- 4. Measurements of Conducted Emissions were performed utilizing a 50 ohm / 50 μhenry Line Impedance Stabilization Network (LISN).

32 selectable frequencies between 2410 MHz

- 5. The unit operates at the following frequencies: and 2472 MHz

  The unit was tested at the following frequencies: 2410 MHz, 2440 MHz and 2472 MHz
- 6. The frequency range was scanned from 30 MHz to 25 GHz. All emissions not reported were more than 20 dB below the specified limit.

## **Certification and Signatures**

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Robert P. Warren EMC Test Engineer

NARTE Certified Technician EMC-000498-NT

Richard J. Reitz

Laboratory Manager

NARTE Certified Engineer ATL-0036-E

**Non-Warranty Provision** 

The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

#### Non-Endorsement

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

# **Equipment List**

# Para. 15.249(a) - Subpart C Radiated Emissions, Fundamental, Harmonic and Spurious, 1 to 24 GHz

EN	Туре	Manufacturer	Description	Model No.	Cal Date	<b>Due Date</b>
713	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESIB26	8/23/2008	8/23/2009
8017	Double Ridge Guide	EMCO	1 - 18 GHz	3115	8/6/2007	10/6/2008
8060A	Cable	Retlif	10 kHz - 18 GHz	25' Type N	8/14/2008	8/14/2009
8300	OATS Site NSA	RSI	3/10 Meter Site		8/15/2008	8/15/2009
8317	Preamplifier	Agilent	1-26.5 GHz, 30 dB	8449B	4/6/2007	4/6/2009
8335	High Gain Horn Antenna	Microlab/FXR	8.2 - 12.4 GHz	X638AFG	6/4/2008	6/4/2009
8336	High Gain Horn Antenna	Microlab/FXR	12.4 - 18.0 GHz	Y638AF	6/4/2008	6/4/2009
8337	High Gain Horn Antenna	Microlab/FXR	18.0 - 26.5 GHz	K638AF	6/4/2008	6/4/2009
8365	Biconilog	EMCO	26 MHz - 3 GHz	3142C	9/12/2007	9/12/2008
032G	H.P. Filter	Microlab/FXR	3 GHz	HA-30N	4/4/2008	4/4/2009
032J	H.P. Filter	Microlab/FXR	6 GHz	HD-60N	1/28/2008	1/28/2009
8017	Double Ridge Guide	EMCO	1 - 18 GHz	3115	8/6/2007	10/6/2008

# Para. 15.207(a) Conducted Emissions, Power Leads, 150 kHz to 30 MHz

EN	Туре	Manufacturer	Description	Model No.	Cal Date	<b>Due Date</b>
713	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESIB26	8/23/2008	8/23/2009
8121	LISN	Solar Electronics	10 kHz - 50 MHz	8012-50-R-12-BN	11/17/2007	11/17/2008
8194	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS-24-B	11/17/2007	11/17/2009
8195	LISN	Solar Electronics	10 kHz - 30 MHz	8028-50-TS-24-B	11/17/2007	11/17/2009
8276	Transformer	Elgar		2.5-13	3/5/2008	3/5/2009
8357	10.0 dB Attenuator	Narda	DC - 11 GHz, 20 W	768-10	6/6/2008	6/6/2009
8366	Cable 20' BNC	Retlif	10 kHz - 100 MHz	n/a	10/16/2007	10/16/2008

# Para. 15.209(a), Radiated Emissions, Spurious Case, 30 to 1000 MHz

EN	Туре	Manufacturer	Description	Model No.	Cal Date	Due Date
8061A	Cable	Retlif	10 kHz - 18 GHz	25' Type N	7/31/2007	7/31/2008
8061B	Cable	Retlif	10 kHz - 18 GHz	10' Type N	7/31/2007	7/31/2008
8071	Spectrum Analyzer	Hewlett Packard	100Hz-2.5 GHz/2-22GH	H8566B	12/27/2007	12/27/2008
8072	Spectrum Analyzer Display	Hewlett Packard		85662A	12/27/2007	12/27/2008
8300	OATS Site NSA	RSI	3/10 Meter Site		8/15/2008	8/15/2009
8317	Preamplifier	Agilent	1-26.5 GHz, 30 dB	8449B	4/6/2007	4/6/2009

FCC Part 15, Subpart C, Section 15.249 (a)
Radiated Emissions, Fundamental, Harmonics and Spurious, 1 to 25 GHz
Test Data

Test Meth	od:	15.249 (a) Su	bpart C Radia	ated Emission	ns, Fundame	ntal, Harmonic	and Spurious Em	issions
Customer		Electronic Dis	play Applicati	ons		Job No.	R-1176P	
Test Samp	ole:	Audio/Visual	Transmitter					
Model No.		SL-1550-P15				S/N:	002	
Operating		Continuously		2 410 GHz	EM signal ch		002	
Technicia		RW	transmitting a	2.410 0112	i w oignai, or	Date:	9-5-08	
Notes:		istance: 3 Mete	are			Date.	0 0 00	
140103.		or: Peak	513					
Test	Ant.	Peak/	EUT	Meter	Correction	Corrected	Converted	<u> </u>
Freq.	Pol./Hg		Orientation	Reading	Factor	Reading	Reading	Limit
GHz	(V/H)/N		Azimuth	dBuV	dB	dBuV/m	uV/m	uV/m
	, ,							
2.410 2.410	V /1.0 V /1.0		8.0 8.0	57.61 55.91	33.1 33.1	90.71 89.01	34,316 28,216	500000.0 50000.0
2.410	H /1.2		30.0	58.60	33.1	91.70	38,459	50000.0
2.410	H /1.2		30.0	58.37	33.1	91.70	37,454	500000.0
2.710	11/1.2	/ / / /				1	07,404	
4.820	V /1.2	Peak	180.0	43.56	3.1	46.66	215.27	5000.0
4.820	V /1.2		180.0	34.41	3.1	37.51	75.07	500.0
4.820	H /1.1		180.0	44.94	3.1	48.04	252.34	5000.0
4.820	H /1.1		180.0	38.28	3.1	41.38	117.21	500.0
7.230	V /1.0	Peak	180.0	48.22	7.5	55.72	610.94	5000.0
7.230	V /1.0		180.0	44.72	7.5	52.22	408.31	500.0
7.230	H /1.1		180.0	47.34	7.5	54.84	552.07	5000.0
7.230	H /1.1	Average	180.0	43.44	7.5	50.94	352.37	500.0
9.640	V /1.2		180.0	44.03	10.5	54.53	532.72	5000.0
9.640	V /1.2	_	180.0	33.25	10.5	43.75	153.99	500.0
9.640	H /1.1		72.0	43.72	10.5	54.22	514.04	5000.0
9.640	H /1.1	Average	72.0	34.06	10.5	44.56	169.04	500.0
12.050	V /1.0	Peak	-24.0	41.12	0.3	41.42	117.76	5000.0
12.050	V /1.0		-24.0	37.73	0.3	38.03	79.70	500.0
12.050	H /1.0		-15.0	41.68	0.3	41.98	125.60	5000.0
12.050	H /1.0		-15.0	38.31	0.3	38.61	85.21	500.0
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	The fre	allonov ronge :	NOO 0000000	from 20 MI !-	to 25 0 CLI-	All omissions	not recorded war	l n more
							not recorded were d the specified lim	
		Floor Measur					u irie specifieu ilm	ııə.
	-110156	i iooi ivicasul	emenio (iviiliii	num system	ochomivity), N	D11 - 100 K11Z		

Test Meth	od:	15.249 (a) Su	bpart C Radia	ated Emission	ns. Fundame	ntal. Harmonic	and Spurious Emi	ssions					
Customer		Electronic Dis				Job No.	R-1176P						
Test Samp		Audio/Visual		01.0		0001101							
Model No.		SL-1550-P15	Transmitter			S/N:	002						
			itinuously transmitting a 2.410 GHz FM signal, channel 1										
Operating		•	transmitting a	2.410 GHZ I	-ivi signai, chi		0.5.00						
Technicia		RW											
Notes:		istance: 1 Mete	er										
	,	or: Peak					1						
Test	Ant.	Peak/	EUT	Meter	Correction		Converted	Limit					
Freq.	Pol./Hg		Orientation	Reading	Factor	Reading	Reading						
GHz	(V/H)/N		Azimuth	dBuV	dB	dBuV/m	uV/m	uV/m					
14.460	V /1.0		-55.0	44.91	1.0	45.91	197.46	5000.0					
14.460	V /1.0		-55.0	35.90	1.0	36.90	69.98	500.0					
14.460	H /1.0		-30.0	45.38	1.0	46.38	208.44	5000.0					
14.460	H /1.0	Average	-30.0	37.81	1.0	38.81	87.19	500.0					
16.870	V/ 1.0	Peak	16.0	43.77	2.0	45.77	194.31	5000.0					
16.870	V /1.0		16.0	32.29	2.0	34.29	51.82	500.0					
16.870	H/ 1.0		17.0	44.30	2.0	46.30	206.53	5000.0					
16.870	H /1.0		17.0	33.81	2.0	35.81	61.73	500.0					
		I											
*19.280	V/1.0	Peak	0.0	42.44	-4.8	37.64	76.20	5000.0					
*19.280	V/1.0	Average	0.0	29.69	-4.8	24.89	17.55	500.0					
*21.690	V/1.0		0.0	43.10	-6.4	36.70	68.39	5000.0					
*21.690	V/1.0	Average	0.0	30.74	-6.4	24.34	16.48	500.0					
*04.400	)//4.0	DI		44.47		45.07	470.00	5000.0					
*24.100	V/1.0 V/1.0		0.0	44.17	0.9	45.07	179.26	5000.0					
*24.100	V/1.0	Average	0.0	31.56	0.9	32.46	41.97	500.0					
						+	+						
	The fre	quency range v	was scanned t	from 30 MHz	to 25 GHz A	II emissions no	ot recorded were n	nore					
	than 20	dB below the	specified limit	. Emissions	from the EUT	do not exceed	the specified limi	ts.					
		Floor Measur											
			,	,	<i>J</i> / <sup>1</sup>								

Test Metho	od:	15.249 (a) Su	bpart C Radia	ated Emission	ns, Fundamen	ıtal, Harmonic	and Spurious Em	issions				
Customer:		Electronic Dis				Job No.	R-1176P					
Test Samp	ıle.	Audio/Visual			·	•						
Model No.		SL-1550-P15	Transmitter			S/N:	002					
Operating			transmitting	2 440 CH-	=M signal sha		002					
Technician		RW	tinuously transmitting a 2.440 GHz FM signal, channel 2  Date: 9-5-08									
						Date.	9-5-06					
Notes:		istance: 3 Mete	ers									
		or: Peak				T	T 2	<u> </u>				
Test	Ant.	Peak/	EUT	Meter	Correction	Corrected	Converted	Limit				
Freq.	Pol./Hg		Orientation	Reading	Factor	Reading	Reading	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
GHz	(V/H)/N		Azimuth	dBuV	dB	dBuV/m	uV/m	uV/m				
2.440	V/1.0		33.0	58.19	30.5	88.69	27,195	500000.0				
2.440	V/1.0		33.0	57.81	30.5	88.31	26,031	50000.0				
2.440	H/1.7		180.0	55.38	30.5	85.88	19,678	500000.0				
2.440	H/1.7	Average	180.0	54.81	30.5	85.31	18,428	50000.0				
4.880	<u> </u>	Peak	180.0	43.69	3.1	46.79	218.52	5000.0				
4.880	V/1.7 V/1.7		180.0	35.06	3.1	38.16	80.90	5000.0				
4.880	H/1.1	Peak	190.0	46.69	3.1	49.79	308.67	500.0				
4.880	H/1.1	Average	190.0	42.25	3.1	45.35	185.13	500.0				
1.000		I	l	12:20	I	10:00	100.10	1				
7.320	V/2.0	Peak	180.0	43.22	7.5	50.72	343.55	5000.0				
7.320	V/2.0		180.0	36.44	7.5	43.94	157.39	500.0				
7.320	H/1.3		66.0	47.06	7.5	54.56	534.56	5000.0				
7.320	H/1.3		66.0	43.09	7.5	50.59	338.45	500.0				
9.760	V/1.0		180.0	43.31	10.5	53.81	490.34	5000.0				
9.760	V/1.0		180.0	33.03	10.5	43.53	150.14	500.0				
9.760	H/1.1	Peak	83.0	44.44	10.5	54.94	558.47	5000.0				
9.760	H/1.1	Average	83.0	35.38	10.5	45.88	196.78	500.0				
10.000				10.11			150.00					
12.200	V/1.0		-20.0	43.41	0.3	43.71	153.28	5000.0				
12.200	V/1.0		-20.0 20.0	40.91	0.3 0.3	41.21 44.06	114.94	500.0				
12.200 12.200	H/1.1 H/1.1	Peak	20.0	43.76 41.28	0.3	41.58	159.58 119.94	5000.0 500.0				
12.200	П/ 1. 1	Average	20.0	41.20	0.3	41.50	119.94	500.0				
	The fre	quency range v	was scanned	from 30 MHz	to 25 GHz. Al	II emissions no	ot recorded were	more				
							the specified lim	its.				
	*=Noise	e Floor Measur	ements (Minir	num system	sensitivity), RI	BW=100 kHz						

GHz         (V/H)/M         dBuV         Azimuth         dBuV         dB         dBuV/m         uV/m         uV/m           14.640         V/1.0         Peak         -20.0         45.12         1.0         46.12         202.30         5000           14.640         V/1.0         Average         -20.0         35.84         1.0         36.84         69.50         500           14.640         H/1.0         Peak         0.0         46.17         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           17.080         V/1.0         Peak         12.0         43.50         2.0         45.50         188.36         5000           17.080         H/1.0         Average         12.0         31.37         2.0         33.37         46.61         500           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86         500           *19.520 <th>Test Metho</th> <th>d:</th> <th>15.249 (a) Su</th> <th>bpart C Radia</th> <th>ated Emission</th> <th>ns, Fundamen</th> <th>tal, Harmonic</th> <th>and Spurious Em</th> <th>issions</th>	Test Metho	d:	15.249 (a) Su	bpart C Radia	ated Emission	ns, Fundamen	tal, Harmonic	and Spurious Em	issions			
Notes	Customer:		Electronic Dis	play Applicati	ons		Job No.	R-1176P				
Model No.:   SL-1550-P15   S/N :   002	Test Samp	le:		udio/Visual Transmitter								
Notes: Test Distance: 1 Meter Detector: Peak												
Notes: Test Distance: 1 Meter Detector: Peak												
Notes: Test Distance: 1 Meter Detector: Peak				<u> </u>		January Constitution		9-5-08				
Test Freq.         Ant. Pol./Hgt.         Peak/ Average         EUT Orientation         Meter Reading         Correction Factor         Corrected Reading         Converted Reading           GHz         (V/H)/M         dBuV         Azimuth         dBuV         dB         dBuV/m         uV/m         uV/m           14.640         V/1.0         Peak         -20.0         45.12         1.0         46.12         202.30         5000           14.640         W/1.0         Average         -20.0         35.84         1.0         36.84         69.50         500           14.640         H/1.0         Peak         0.0         46.17         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           17.080         W/1.0         Peak         12.0         43.50         2.0         45.50         188.36         5000           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86	Notes:	Test D	istance: 1 Mete	er			· ·					
Test Freq.         Ant. Pol./Hgt.         Peak/ Average         EUT Orientation         Meter Reading         Correction Factor         Corrected Reading         Converted Reading           GHz         (V/H)/M         dBuV         Azimuth         dBuV         dB         dBuV/m         uV/m         uV/m           14.640         V/1.0         Peak         -20.0         45.12         1.0         46.12         202.30         5000           14.640         W/1.0         Average         -20.0         35.84         1.0         36.84         69.50         500           14.640         H/1.0         Peak         0.0         46.17         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           17.080         W/1.0         Peak         12.0         43.50         2.0         45.50         188.36         5000           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86		Detect	or: Peak									
Freq.         Pol./Hgt.         Average         Orientation         Reading         Factor         Reading         Reading           GHz         (V/H)/M         dBuV         Azimuth         dBuV         dB         dBuV/m         uV/m         uV/m           14.640         V/1.0         Peak         -20.0         45.12         1.0         46.12         202.30         5000           14.640         V/1.0         Average         -20.0         35.84         1.0         36.84         69.50         500           14.640         H/1.0         Peak         0.0         46.17         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           17.080         V/1.0         Peak         12.0         43.50         2.0         45.50         188.36         500           17.080         H/1.0         Average         12.0         31.37         2.0         33.37         46.61         500           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86         500           17.980	Test	Ant.	Peak/	EUT	Meter	Correction	Corrected	Converted	1.226			
14.640         V/1.0         Peak         -20.0         45.12         1.0         46.12         202.30         5000           14.640         V/1.0         Average         -20.0         35.84         1.0         36.84         69.50         500           14.640         H/1.0         Peak         0.0         46.17         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           17.080         V/1.0         Peak         12.0         43.50         2.0         45.50         188.36         5000           17.080         V/1.0         Average         12.0         31.37         2.0         33.37         46.61         500           17.080         H/1.0         Average         17.0         43.37         2.0         45.37         185.56         5000           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86         500           *19.520         V/1.0         Peak         0.0         42.30         -4.8         37.50         74.98         5000           *19.520<		Pol./Hg	t. Average	Orientation	Reading	Factor	Reading	Reading	Limit			
14.640         V/1.0         Average         -20.0         35.84         1.0         36.84         69.50         500           14.640         H/1.0         Peak         0.0         46.17         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           1         I </td <td>GHz</td> <td>(V/H)/N</td> <td>Л dBuV</td> <td>Azimuth</td> <td>dBuV</td> <td>dB</td> <td>dBuV/m</td> <td>uV/m</td> <td>uV/m</td>	GHz	(V/H)/N	Л dBuV	Azimuth	dBuV	dB	dBuV/m	uV/m	uV/m			
14.640         V/1.0         Average         -20.0         35.84         1.0         36.84         69.50         500           14.640         H/1.0         Peak         0.0         46.17         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           17.080         V/1.0         Peak         12.0         43.50         2.0         45.50         188.36         5000           17.080         V/1.0         Average         12.0         31.37         2.0         33.37         46.61         500           17.080         H/1.0         Peak         17.0         43.37         2.0         45.37         185.56         5000           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86         500           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86         500           *19.520         V/1.0         Peak         0.0         42.30         -4.8         37.50         74.98         5000           *21.960 <td>14.640</td> <td>V/1.0</td> <td>Peak</td> <td>-20.0</td> <td>45.12</td> <td>1.0</td> <td>46.12</td> <td>202.30</td> <td>5000.0</td>	14.640	V/1.0	Peak	-20.0	45.12	1.0	46.12	202.30	5000.0			
14.640         H/1.0         Peak         0.0         46.17         1.0         47.17         228.29         5000           14.640         H/1.0         Average         0.0         39.11         1.0         40.11         101.27         500           1						1.0			500.0			
			Peak						5000.0			
17.080         V/1.0         Average         12.0         31.37         2.0         33.37         46.61         500           17.080         H/1.0         Peak         17.0         43.37         2.0         45.37         185.56         5000           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86         500	14.640	H/1.0	Average	0.0	39.11	1.0	40.11	101.27	500.0			
17.080         V/1.0         Average         12.0         31.37         2.0         33.37         46.61         500           17.080         H/1.0         Peak         17.0         43.37         2.0         45.37         185.56         5000           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86         500	1-2				10 = -							
17.080         H/1.0         Peak         17.0         43.37         2.0         45.37         185.56         5000           17.080         H/1.0         Average         17.0         31.23         2.0         33.23         45.86         500									5000.0			
17.080     H/1.0     Average     17.0     31.23     2.0     33.23     45.86     500       1     1     1     1     1     1     1     1       *19.520     V/1.0     Peak     0.0     42.30     -4.8     37.50     74.98     5000       *19.520     V/1.0     Average     0.0     29.63     -4.8     24.83     17.43     500             1     1     1     1     1     1     1     1       *21.960     V/1.0     Peak     0.0     43.91     -6.4     37.51     75.07     5000       *21.960     V/1.0     Average     0.0     31.31     -6.4     24.91     17.59     500   *24.400     V/1.0     Peak     0.0     44.58     0.9     45.48     187.93     5000									500.0			
*19.520         V/1.0         Average         0.0         29.63         -4.8         24.83         17.43         500	17.080	H/1.U	Average	17.0	31.23	2.0	33.23	45.80	500.0			
*19.520         V/1.0         Average         0.0         29.63         -4.8         24.83         17.43         500	*19 520	V/1 0	Peak	0.0	42 30	-4.8	37.50	74 98	5000.0			
									500.0			
*21.960         V/1.0         Average         0.0         31.31         -6.4         24.91         17.59         500	1		l	l I		I	1	1	I			
*21.960         V/1.0         Average         0.0         31.31         -6.4         24.91         17.59         500	*21.960	V/1.0	Peak	0.0	43.91	-6.4	37.51	75.07	5000.0			
	*21.960			0.0	31.31	-6.4	24.91	17.59	500.0			
*24.400 V/1.0 Average 0.0 32.09 0.9 32.99 44.61 500									5000.0			
	*24.400	V/1.0	Average	0.0	32.09	0.9	32.99	44.61	500.0			
								+				
The frequency range was scanned from 30 MHz to 25 GHz. All emissions not recorded were more		The fre	guency range v	was scanned	from 30 MHz	to 25 GHz. All	l emissions no	t recorded were n	nore			
than 20 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.												
*=Noise Floor Measurements (Minimum system sensitivity), RBW=100 kHz												

Test Metho	od:	15.249 (a) Su	bpart C Radia	ated Emission	ns, Fundamen	tal, Harmonic	and Spurious Em	issions			
Customer	:	Electronic Dis	splay Applicati	ons		Job No.	R-1176P				
Test Samp	ole:		Audio/Visual Transmitter								
Model No.		SL-1550-P15									
Operating				2.472 GHz I	 FM signal, cha	l.	002				
Technicia		RW			in engineer, enter	Date:	9-5-08				
Notes:	Test D	istance: 3 Mete	ers		•	•					
	Detect	or: Peak									
Test	Ant.	Peak/	EUT	Meter	Correction	Corrected	Converted				
Freq.	Pol./Hg		Orientation	Reading	Factor	Reading	Reading	Limit			
GHz	(V/H)/ <b>N</b>	_	Azimuth	dBuV	dB	dBuV/m	uV/m	uV/m			
2.472	V/1.1	Peak	180.0	55.88	30.5	86.38	20,844	500000.0			
2.472	V/1.1	Average	180.0	55.38	30.5	85.88	19,678	50000.0			
2.472	H/1.4	Peak	160.0	54.53	30.5	85.03	17,844	500000.0			
2.472	H/1.4	Average	160.0	53.97	30.5	84.47	16,730	50000.0			
		Ī				Ī		Ī			
4.944	V/1.2		180.0	45.06	3.1	48.16	255.85	5000.0			
4.944	V/1.2	Average	180.0	39.34	3.1	42.44	132.43	500.0			
4.944	H/1.1	Peak	180.0	48.47	3.1	51.57	378.87	5000.0			
4.944	H/1.1	Average	180.0	45.53	3.1	48.63	270.08	500.0			
7.416	V/1.2	Dook	180.0	43.19	7.5	50.69	342.37	5000.0			
7.416 7.416	V/1.2 V/1.2		180.0	37.16	7.5	44.66	171.00	5000.0			
7.416	H/1.0		80.0	47.75	7.5	55.25	578.76	500.0			
7.416	H/1.0		80.0	44.22	7.5	51.72	385.47	500.0			
1.410	11/1.0	I	I		1	1	1	1			
9.888	V/1.2	Peak	180.0	42.81	10.5	53.31	462.91	5000.0			
9.888	V/1.2		180.0	31.75	10.5	42.25	129.56	500.0			
9.888	H/1.0		75.0	44.13	10.5	54.63	538.88	5000.0			
9.888	H/1.0	Average	75.0	36.22	10.5	46.72	216.77	500.0			
12.360	V/1.0	Peak	-23.0	43.21	0.3	43.51	149.80	5000.0			
12.360	V/1.0	Average	-23.0	40.61	0.3	40.91	111.04	500.0			
12.360	H/1.0	Peak	20.0	42.70	0.3	43.00	141.25	5000.0			
12.360	H/1.0	Average	20.0	39.81	0.3	40.11	101.27	500.0			
						+		<del> </del>			
						1		<u> </u>			
							t recorded were i				
							the specified lim	its.			
	*=Noise	e Floor Measur	ements (Minir	num system	sensitivity), RI	BW=100 kHz					

Test Meth	od:	15.249 (a) Su	bpart C Radia	ated Emission	ns, Fundamen	ıtal, Harmonic	and Spurious Emi	ssions
Customer		Electronic Dis				Job No.	R-1176P	
Test Samp	ole.	Audio/Visual	• • • • • • • • • • • • • • • • • • • •		•	•		
Model No.		SL-1550-P15	- ranomitto			S/N:	002	
Operating			transmitting a	2 472 GHz F			002	
Technicia		RW	transmitting a	2.472 01121	W Signal, Cha	Date:	9-5-08	
Notes:		istance: 1 Mete				Date.	9-3-00	
Notes.			<b>51</b>					
Tool		or: Peak	FUT	Motor	Carraction	Corrected	Converted	<u> </u>
Test Freq.	Ant. Pol./Hg	Peak/ it. Average	EUT Orientation	Meter Reading	Correction Factor	Reading	Converted Reading	Limit
GHz	(V/H)/N		Azimuth	dBuV	dB	dBuV/m	uV/m	uV/m
14.832	V/1.0		-24.0	43.77		44.77	173.18	5000.0
14.832	V/1.0 V/1.0		-24.0	32.93	1.0 1.0	33.93	49.71	5000.0
14.832	H/1.0		32.5	44.58	1.0	45.58	190.10	5000.0
14.832	H/1.0		32.5	34.55	1.0	35.55	59.91	500.0
17.304	V/1.0	Peak	20.0	44.72	2.0	46.72	216.77	5000.0
17.304	V/1.0		20.0	32.60	2.0	34.60	53.70	500.0
17.304	H/1.0		0.0	43.50	2.0	45.50	188.36	5000.0
17.304	H/1.0	Average	0.0	30.67	2.0	32.67	43.00	500.0
*10.770	) //4 0			10.70	1.2	27.00	70.50	5000.0
*19.776	V/1.0		0.0	42.70	-4.8	37.90	78.52	5000.0
*19.776	V/1.0	Average	0.0	30.14	-4.8	25.34	18.49	500.0
*22.248	V/1.0	Peak	0.0	43.63	-6.4	37.23	72.69	5000.0
*22.248	V/1.0		0.0	30.92	-6.4	24.52	16.82	500.0
		l						I
*24.720	V/1.0	Peak	0.0	44.72	0.9	45.62	190.98	5000.0
*24.720	V/1.0	Average	0.0	32.36	0.9	33.26	46.02	500.0
						+		
						1		
			-		-			
						_		
	The fre	uneucy tange /	was scanned	from 30 MHz	to 25 GHz Al	II emissions no	ot recorded were n	nore
	than 20	dB below the	specified limit	. Emissions	from the EUT	do not exceed	the specified limi	ts.
		Floor Measur						
			. ,	<i>j</i>	- , , ,			

FCC Part 15, Subpart C, Section 15.207(a)
Conducted Emissions, Power Leads, 150 kHz to 30 MHz
Test Data

#### Retlif Testing Laboratories R-1176P

#### Conducted Emissions, Power Leads, 150kHz to 30MHz

Customer: Electronic Display Applications, Inc.

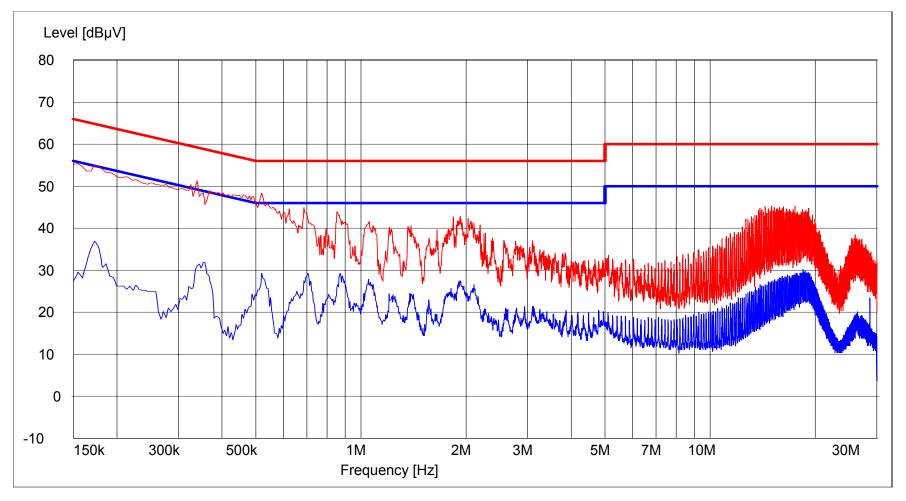
Test Sample: 2.4GHz Transmitter
Model/Serial Number: SL-1550-P15 S/N: 002

Test Specification: FCC Part 15 Subpart C, 15.207(a)

Mode Of Operation: Continuously transmitting a FM signal on channel 1

Lead Tested: 115VAC,60Hz Hot Technician/Date: RW/9-10-08

Notes:



Sheet 1 of 2

#### Retlif Testing Laboratories R-1176P

#### Conducted Emissions, Power Leads, 150kHz to 30MHz

Customer: Electronic Display Applications, Inc.

Test Sample: 2.4GHz Transmitter
Model/Serial Number: SL-1550-P15 S/N: 002

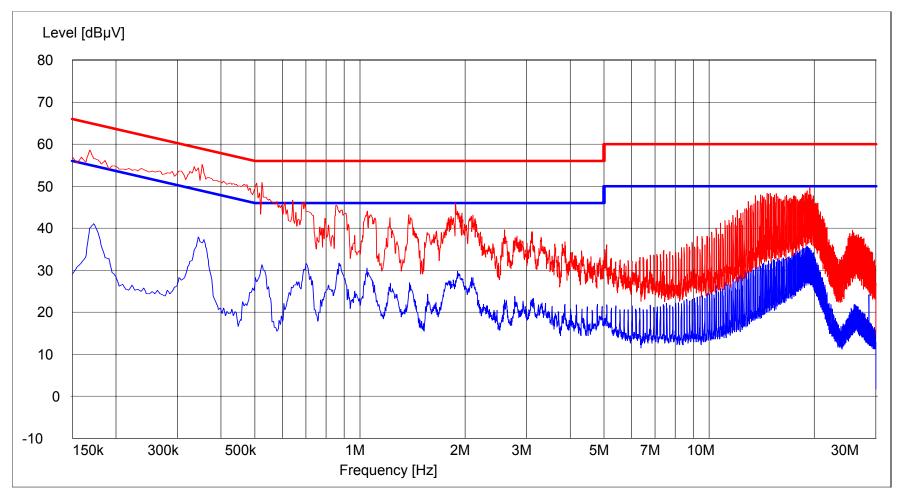
Test Specification: FCC Part 15 Subpart C, 15.207(a)

Mode Of Operation: Continuously transmitting a FM signal on channel 1

Lead Tested: 115VAC, 60Hz Neutral

Technician/Date: RW/9-10-08

Notes:



Sheet 2 of 2

FCC Part 15, Subpart C, Section 15.209(a)
Radiated Emissions, Spurious Case, 30 to 1000 MHz
Test Data

Test Metho	d:	FCC P	art 15, Subpa	rt C, Radiat	ed Emissions	s, 30 MHz	to 1 GH	z, Paı	ra:15.209(a)			
Customer:		Electronic Display Applications						No.:	R-1176P			
Test Sample:		Audio/Visual Transmitter										
Model No.:		SL-1550-P15						No.:	002			
Operating N	/lode:											
			uously transmi	tting a 2.472	2 GHz FM sigi	nal, chanr			1 0 0 7 0 0			
Technician:		RW					Date: 3-25-08					
Notes:		Distance: 3 Meters Temp:13 °C Humidity:24 %										
	Detec	tor: Qua	asi-Peak									
	Antenna		EUT	Meter	Correction	Corre			Converted	Limit		
Frequency	Pos	sition	Orientation	Readings	Factor	Reading			Reading			
MHz	(V/H) /	Meters	Degrees	dBuV	dB	dBı	IBuV/m		uV/m	uV/m		
30.00										100		
88.00								+		100		
88.00								1		150		
114.54		1.3	280.0	22.6	8.9		.5		37.58			
114.54	H	2.0	329.0	25.8	8.9	34	1.7		54.32			
124.08	V	2.6	309.0	18.8	8.2	27	7.0		22.38			
124.08		1.8	346.0	22.0	8.2		27.0 30.2		32.35			
					9.0							
133.62		1.2	13.0	31.5	8.0	39.5			94.40			
133.62	H	1.5	304.0	25.5	8.0	33	3.5		47.31			
 171.84	V	1.0	33.0	24.9	9.9	3/	I Q		54.95			
171.84		/2.4	242.0	25.5	9.9		34.8 35.4		58.88			
			212.0	20.0	0.0		·· ·		00.00			
216										150		
216										200		
248.16	17	1.0	104.0	15.4	12.7	28	2.1	1	25.40			
248.16		/1.0 /1.1	85.0	15.4	12.7		7.9	1	25.40			
2-10.10	11/	1.1	55.0	10.2	15.1			+	27.00			
286.38	V	1.0	137.0	13.1	13.4	26.5			21.13	i		
286.38	H	1.4	205.0	13.5	13.4	26	6.9		22.13			
960.00								1		200		
960.00								+		500		
										İ		
<u> </u>												
1000.0								1		500		
1000.0	The frequency range was scanned from 30 MHz to 1 GHz.											
		emissions observed from the EUT do not exceed the specified limits.										
			corded were more									
					·							

**E-filing Requirements**General Note: All file names shall have the model number in front of the file name.

Information needed for 731 Form								
Item 4:	Grantee Code:							
(FCC ID:)	Equipment Product Code:							
Item 10:	Equipment Class: (See Timco guide):							
	Description of Product as Marketed:							
Item 13:	FCC Rule Part:							
Item 14:	Start/Stop Freq (MHz):							
	Emission Designator: (XXKX) (P2D)							

# **On-line E-filing Application**

Information needed for 731 Form (Pick One)							
	Fixed						
Equipment Use:	Mobile > 20cm						
Equipment Ose.	Portable < 2.5cm						
	Other						
SAR Report Included:	Yes						
SAN Nepolt Included.	No						