July 2, 2001

Federal Communications Commission Equipment Authorization Branch 7435 Oakland Mills Road Columbia, MD 21046

Dear Sir/Madam:

Enclosed you will find an application for Certification of PocketWizard Plus Intentional Radiator, FCC ID: KDS-PW2-002. Certification is requested to the requirements of Part 15, Subpart C of the Commission's rules. This application is being filed by Retlif Testing Laboratories on behalf of LPA Design.

I trust that you will find the enclosed application to be complete; however, should you have any questions or require any additional information, please feel free to contact us.

Very truly yours,

**RETLIF TESTING LABORATORIES** 

Scott Wentworth Manager

Enc. (as stated)



TECT DROCEDINE	ANICI CC2 4:1002	
_ TEST PROCEDURE:	ANSI C05.4:1992	Test Report No. R-3378N1
		FCC ID: KDS-PW2-002

BRANDNAME:	PocketWizard Plus	MODEL:_	N/A
			Test Report No. R-3378N1 FCC ID: KDS-PW2-002







Applicant: LPA Design



FCC ID: KDS-PW2-002

Test Report No. R-3378N1 FCC ID: KDS-PW2-002

REPORT OF MEASUREMENTS (continued)

Test Report No. R-3378N1 FCC ID: KDS-PW2-002

## TEST RESULTS

15.231 (a) -	The device is a transmitter for remote flash control of photographic strobes.
	Test Report No. R-3378N1 FCC ID: KDS-PW2-002



15.231 (2) seconds after deactivation.



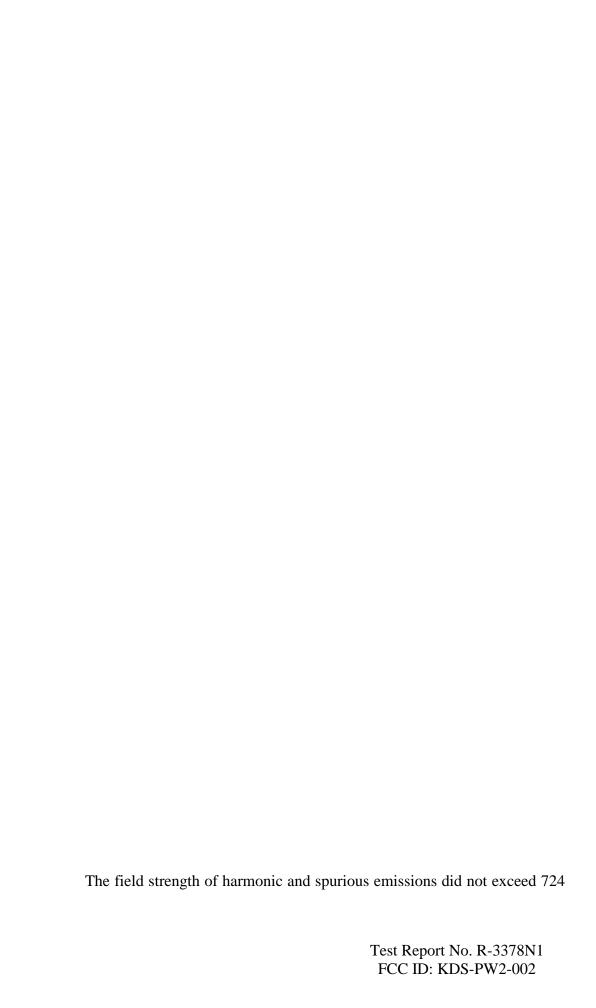
intervals.

15.231 (a)(4)-	The device is not employed for RC purposes	involving security.
		Test Report No. R-3378N1 FCC ID: KDS-PW2-002



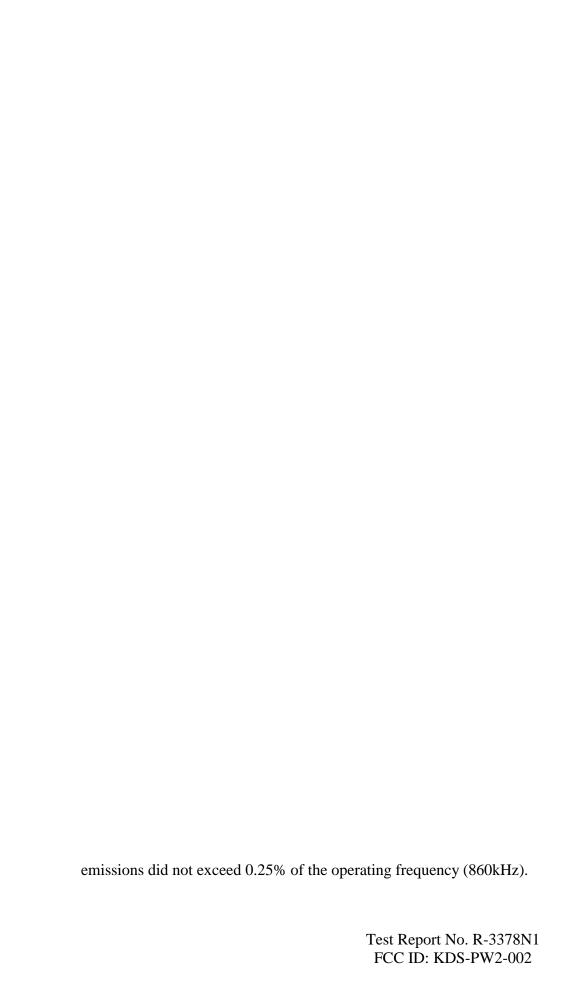






 $\mu V/M$  (AVERAGE).





<u>DETERMINATION OF FIELD STRENGTH LIMITS</u> Test Report No. R-3378N1 FCC ID: KDS-PW2-002



Frequency

Limit

F1 = 260 3750 = L1

Fo = 344

Lo

F2 = 470 12500 = L2



Limit = L1 + [(Fo-F1)(L2-L1)/(F2-F1)]

Solving yields: Test Report No. R-3378N1 FCC ID: KDS-PW2-002

Fundamental Limit =  $7,244 \mu V/M$  (AVERAGE) @ 3 Meters

Harmonic Limit =  $724 \mu V/M$  (AVERAGE) @ 3 Meters

REPORT OF MEASUREMENTS (continued)

DETERMINATION OF DUTY CYCLE

Test Report No.







to obtain the duty cycle.

Transmitter On Time = 0.450 milliseconds (maximum)

Transmitter Cycle Time = 5.350 milliseconds

Transmitter Duty Cycle = 0.0841

\*See Attached Duty Cycle Timing Diagram Test Report No. R-3378N1 FCC ID: KDS-PW2-002 SPECTRUM ANALYZER DESENSITIZATION CONSIDERATIONS Test Report No. R-3378N1 FCC ID: KDS-PW2-002





**GENERAL NOTES** 

1.	All	readings	were	taken	utiliz	zing	a	peak	detector	function at				
									Test Report No. R-3378N1 FCC ID: KDS-PW2-002					

a test distance of 3 meters.

2.	The	duty	cycle	was	applied	to	the	peak	readings	in	order	to		
									Test Report No. R-3378N1 FCC ID: KDS-PW2-002					

determine the average value of the emissions.

3.	The	frequency	range	for	radiated	emissions	scanned	

FCC ID: KDS-PW2-002

 $\mbox{MHz}$  to 3.4  $\mbox{GHz}.$  The frequency range for conducted emissions Test Report No. R-3378N1 FCC ID: KDS-PW2-002

was scanned from 450 kHz to 30 MHz.

EQUIPMENT LIST

**Radiated Emissions** 

EN Type Manufacturer Frequency Range Model No. Cal Date Due Date

3116 Pre-Amplifier Miteq 0.1 GHz - 18 GHz AFS42-35 12/3/98 12/3/99

3118 Broadband Pre-Amplifier Electro-Metrics 10 KHz - 1 GHz BPA-1000 6/24/98 6/24/99

3258 Double Ridge Guide EMCO 1 - 18 GHz 3115 4/3/98 4/3/99

4029 Open Area Test Site Retlif 3/10 Meters RNH 6/15/98 6/15/99

4202 Biconilog EMCO 26 MHz - 2 GHz 3142 6/10/98 6/10/99

4895 Spectrum Analyzer Hewlett Packard 9kHz - 22GHz 8593EM 9/18/98 9/18/99

4896 Graphics Plotter Hewlett Packard N/A 7470A 8/23/98 8/23/99

EQUIPMENT LIST

**Conducted Emissions** 

EN Type Manufacturer Frequency Range Model No. Cal Date Due Date

3107 Spectrum Analyzer Advantest 10 KHz - 3 GHz 4131B 2/9/98 2/9/99

4027 LISN Solar Electronics 10 KHz - 30 MHz 9252-50-R-24BNC 6/24/98 6/24/99

4028 Isolation Transformer Acme N/A 120x240 1/24/98 1/24/99

4050 Transient Limiter Hewlett Packard 9 KHz - 200 MHz 11970K 12/9/98 12/9/99

4896 Graphics Plotter Hewlett Packard N/A 7470A 8/23/98 8/23/99