COMPATIBLE ELECTRONICS

FCC PART 15, SUBPART B AND C
TEST METHOD: ANSI C63.4-1992

for

INSTANT GREEN REMOTE

Model: IGR-1920

Prepared for

PASE
2248 HARTFORD AVENUE
FULLERTON, CALIFORNIA 92831

Prepared by: _____

KYLE FUJIMOTO

Approved by: _____

SCOTT McCUTCHAN

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

DATE: AUGUST 16, 1999

	REPORT BODY	APPENDICES				TOTAL
		A	*B*	*C*	*D*	
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GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full with the written permission of Compatible Electronics.

This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested:	Instant Green Remote Model: IGR-1920 S/N: N/A
Product Description:	See Expository Statement.
Modifications:	The EUT was not modified during the testing.
Manufacturer:	PASE 2248 Hartford Avenue Fullerton, California 92831
Test Dates:	August 6 and August 9, 1999
Test Specifications:	EMI requirements CFR Title 47, Part 15 Subpart C, Sections 15.205 and 15.249
Test Procedure:	ANSI C63.4: 1992
Test Deviations:	The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 450 kHz - 30 MHz	This test was not performed because the EUT runs off the 12 volts supplied by the cigarette lighter in a vehicle and cannot be powered by any device that runs off of the AC public mains
2	Radiated RF Emissions, 10 kHz - 4200 MHz	Complies with the limits of CFR Title 47, Part 15, Subpart B and Subpart C, sections 15.205 and 15.249

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Instant Green Remote Model: IGR-1920. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 1992. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by CFR Title 47, Part 15, Subpart B and Subpart C, sections 15.205 and 15.249.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

PASE

Peter Apitz	President

Compatible Electronics Inc.

Kyle Fujimoto	Test Engineer
Scott McCutchan	Lab Manager

2.4 Date Test Sample was Received

The test sample was received on August 6, 1999

2.5 Disposition of the Test Sample

The test sample was returned to PASE on August 16, 1999.

2.6 Abbreviations and Acronyms

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

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network

3. APPLICABLE DOCUMENTS

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

SPEC	TITLE
CFR Title 47, Subpart C.	FCC Rules – Radio frequency devices (including digital devices) – Intentional Radiators
ANSI C63.4 1992	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Instant Green Remote Model: IGR-1920 (EUT) was connected to a laboratory DC power supply via its DC IN port. The EUT is powered by 12 volts DC. The EUT was tested in its X axis only because the EUT requires a level installation so that the electronic compass inside of it will work properly. The EUT was continuously transmitting. The antenna and connector on the PCB have a reverse SMA connector.

The final radiated data was taken in the mode above. Please see Appendix D for the data sheets.

4.1.1 Cable Construction and Termination

Cable 1 This is a 6 foot unshielded cable connecting the EUT to the power supply via a cigarette lighter adapter. The cable was bundled to a length of 1 meter.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
INSTANT GREEN REMOTE (EUT)	PASE	IGR-1290	N/A	**OOC-IGR-1290**
DC POWER SUPPLY	HEWLETT PACKARD	E3612A	KR22000610	**N/A**
CIGARETTE LIGHTER	N/A	N/A	N/A	**N/A**

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Spectrum Analyzer	Hewlett Packard	8566B	3638A08784	Nov. 16, 1998	Nov. 16, 1999
Preamplifier	Com Power	PA-102	1017	Feb. 16, 1998	Feb. 16, 1999
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	July 14, 1999	July 14, 2000
Biconical Antenna	Com Power	AB-100	1548	Oct. 15, 1998	Oct. 15, 1999
Log Periodic Antenna	Com Power	AL-100	1117	Oct. 15, 1998	Oct. 15, 1999
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Hewlett Packard	HP98561A	2522A05178	N/A	N/A
Printer	Hewlett Packard	2225A	2925S33268	N/A	N/A
Plotter	Hewlett Packard	7440A	8726K38417	N/A	N/A
Microwave Preamplifier	Hewlett Packard	8449B	3008A008766	Jan. 30, 1999	Jan. 30, 2000
Horn Antenna	Antenna Research	DRG-118/A	1053	Dec. 8, 1995	N/A
Loop Antenna	Com-Power	AL-130	25309	April 13, 1999	April 13, 2000

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Hewlett Packard Microwave Preamplifier Model: 8449B was used for frequencies above 1 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets. The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 9.3 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 1992. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final test data.

7.2 Band Edge Plots of the Low and High Channels

Spectral plots of both the low and high channels were taken of the EUT to show that the emissions at the band edges (902 and 928 MHz) were attenuated by at least 50 dB below the level of the fundamental or to the general radiated emissions limits in FCC Title 47, Subpart C, section 15.209, whichever is the lesser attenuation. Please see Appendix D for the spectral plots.

8. CONCLUSIONS

The Instant Green Remote Model: IGR-1920 meets all of the specification limits defined in CFR Title 47, Part 15, Subpart C, sections 15.205 and 15.249.

APPENDIX A

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.249 specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

Modifications:

No modifications were made to the EUT.

APPENDIX B

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

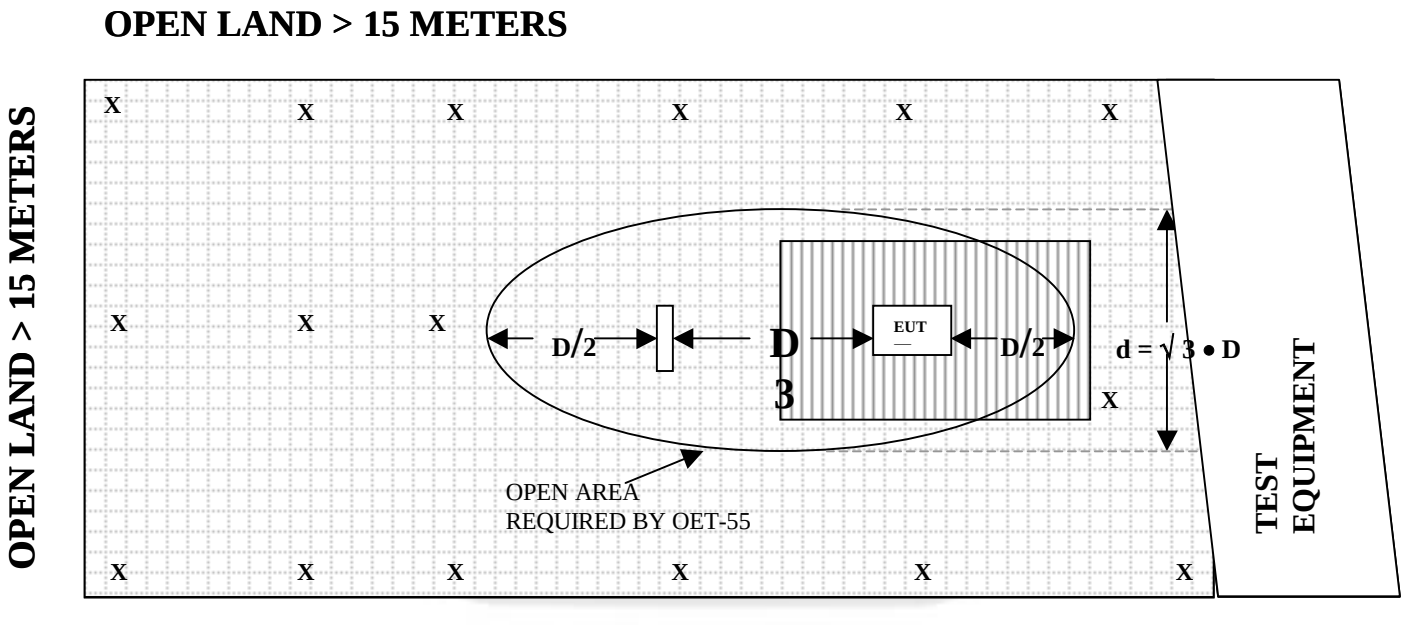
USED FOR THE PRIMARY TEST	Instant Green Remote Model: IGR-1920 S/N: N/A

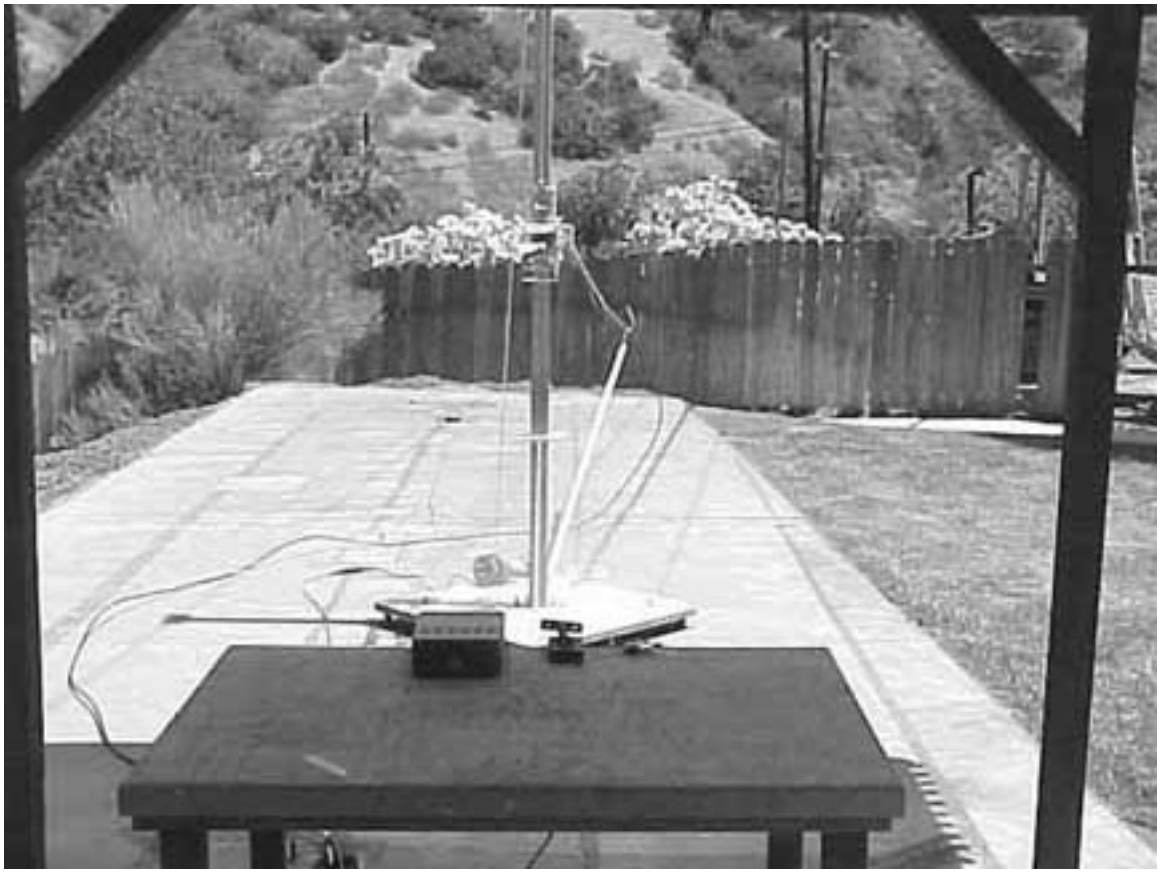
There were no additional models covered under this report.

APPENDIX C

DIAGRAMS, CHARTS AND PHOTOS

FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE

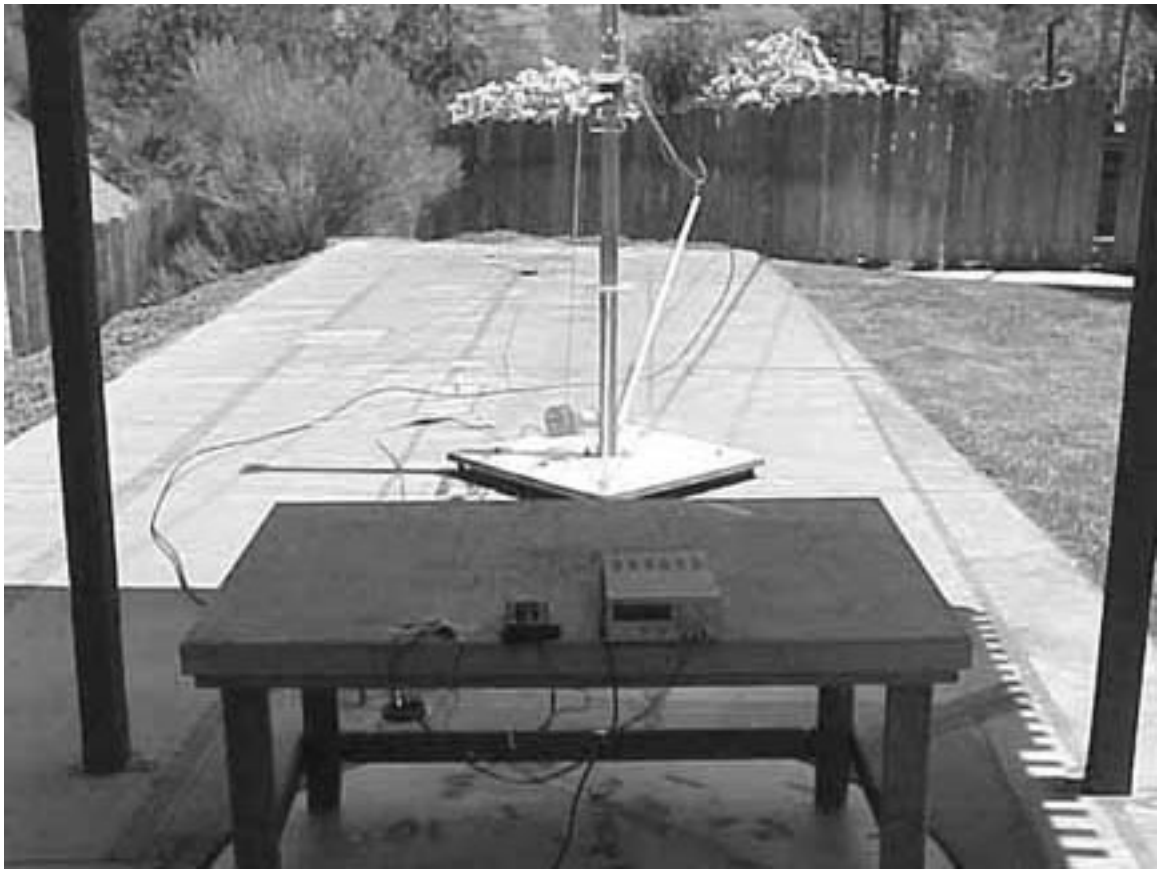




FRONT VIEW

PASE
INSTANT GREEN REMOTE
MODEL: IGR-1920
FCC SUBPART C - RADIATED EMISSIONS – 8-6-99 AND 8-9-99

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



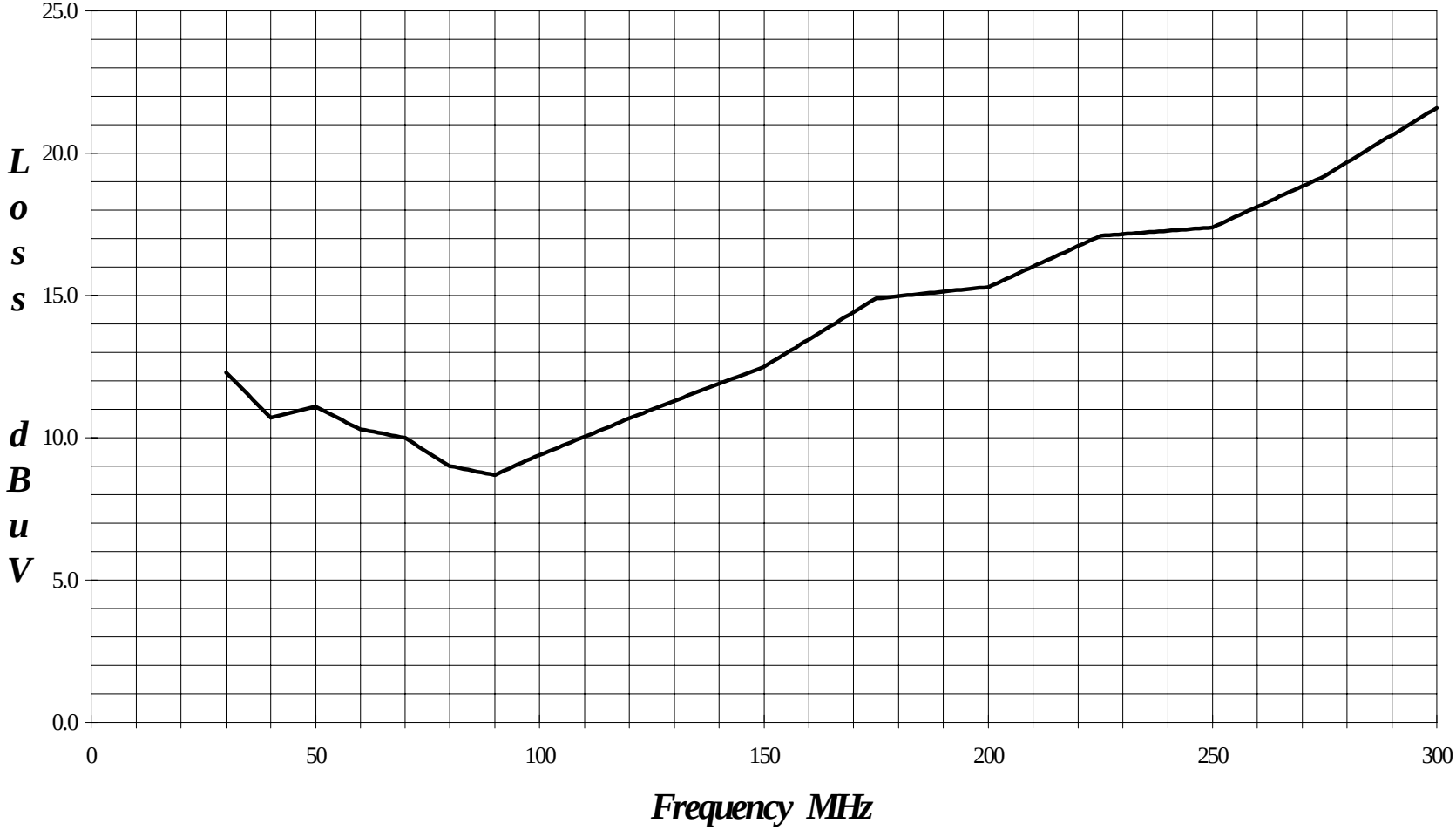
REAR VIEW

PASE
INSTANT GREEN REMOTE
MODEL: IGR-1920
FCC SUBPART C - RADIATED EMISSIONS – 8-6-99 AND 8-9-99

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

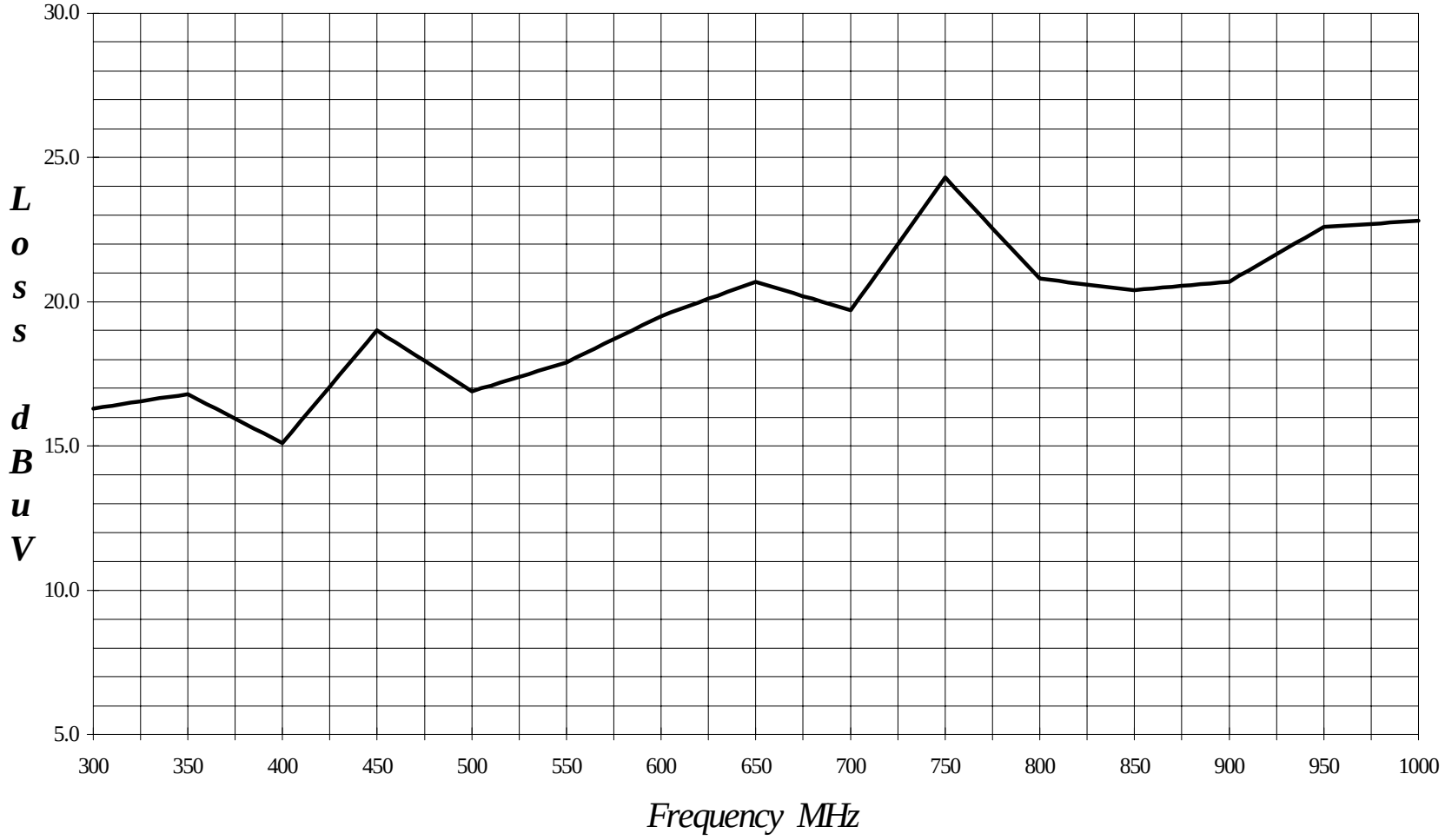
***Cal*: 10/15/98**

LAB "D" BICONICAL ANTENNA AB-100 S/N 01548

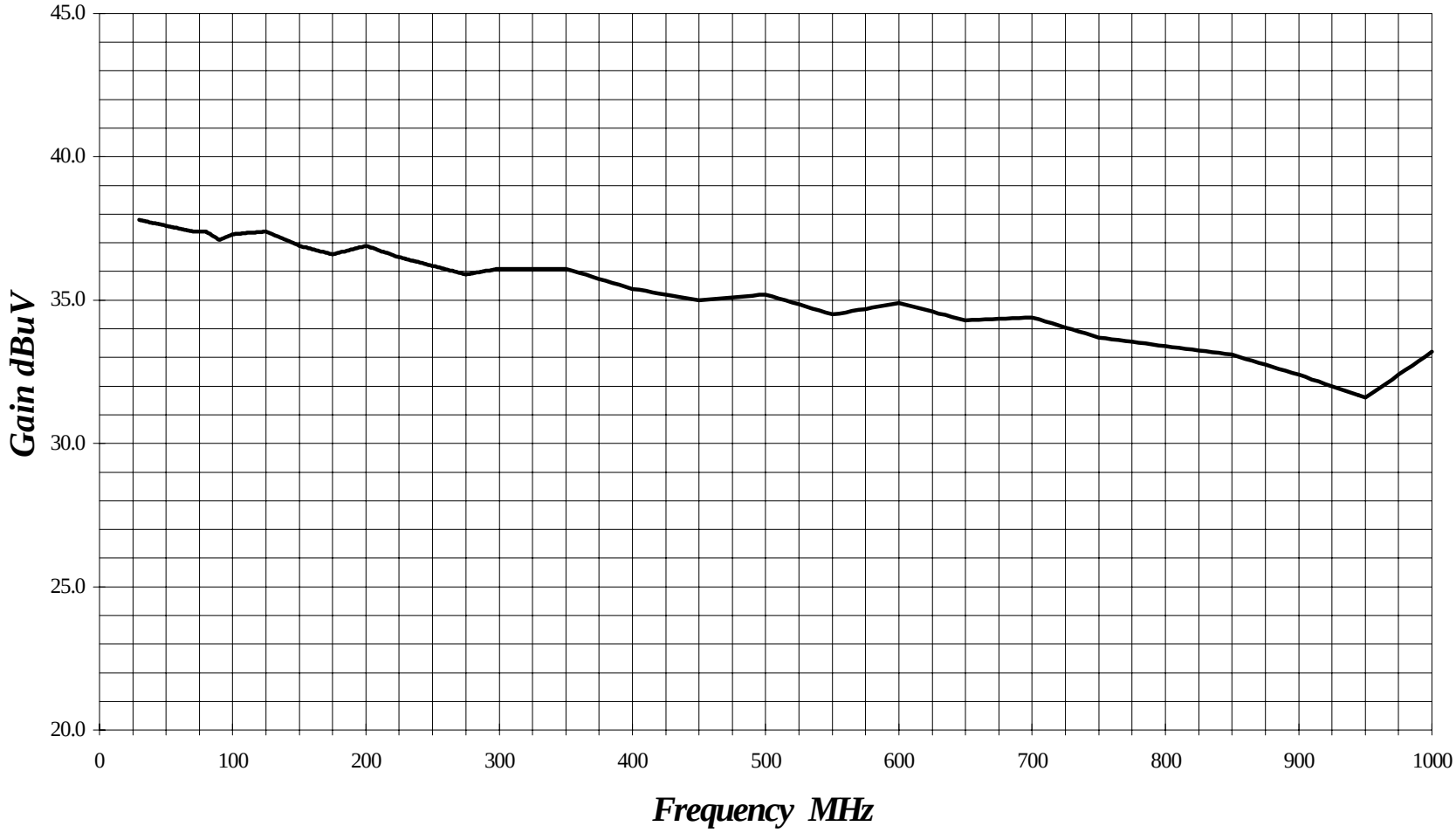


***Cal*: 10/15/98**

LAB "D" LOG PERIODIC ANTENNA AL-100 S/N 01117



PREAMPLIFIER EFFECTIVE GAIN AT 3 METERS PA-102 S/N: 1017



HEWLETT PACKARD 8449B

MICROWAVE PREAMPLIFIER

S/N: 3008A008766

CALIBRATION DATE: JANUARY 30, 1999

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	36.9	9.5	34.3
1.1	36.3	10.0	33.7
1.2	36.4	10.5	34.1
1.3	36.2	11.0	33.7
1.4	36.3	11.5	34.0
1.5	35.7	12.0	33.9
1.6	35.9	12.5	34.4
1.7	35.7	13.0	32.9
1.8	35.6	13.5	31.6
1.9	35.5	14.0	31.8
2.0	35.4	14.5	31.9
2.5	35.6	15.0	32.2
3.0	35.2	15.5	32.8
3.5	35.2	16.0	32.4
4.0	34.3	16.5	32.1
4.5	34.1	17.0	32.3
5.0	34.3	17.5	30.3
5.5	33.0	18.0	31.5
6.0	34.1	18.5	31.2
6.5	34.5	19.0	32.2
7.0	34.3	19.5	32.0
7.5	33.9	20.0	32.0
8.0	34.5	20.5	33.2
8.5	34.5	21.0	30.9
9.0	34.4	22.0	32.1

ANTENNA RESEARCH ASSOCIATES, INC.
11317 Frederick Avenue, Beltsville, MD 20705

E-FIELD ANTENNA FACTOR CALIBRATION

E(dB V/m) = Vo(dB V) + AFE(dB/m)

Model number : DRG-118/A

Frequency GHz	AFE dB/m	Gain dBi
1	22.3	8.0
2	26.7	9.5
3	29.7	10.1
4	29.5	12.8
5	32.3	12.0
6	32.4	13.4
7	36.1	11.0
8	37.4	10.9
9	36.8	12.5
10	39.5	10.7
11	39.6	11.5
12	39.8	12.0
13	39.7	12.8
14	41.8	11.3
15	41.9	11.9
16	38.1	16.3
17	41.0	13.9
18	46.5	8.9

Serial number : 1053
Job number : 96-092
Remarks : 3 meter calibration
Standards : LPD-118/A, TE-1000

Temperature : 72° F
Humidity : 56 %
Traceability : A01887
Date : December 08, 1995

Calibrated By

Com-Power Corporation

(949) 587-9800

Antenna Calibration

Antenna Type:	Loop Antenna
Model:	AL-130
Serial Number:	25309
Calibration Date:	4/13/99

Frequency MHz	Magnetic (dB/m)	Electric dB/m
0.01	-40.6	10.9
0.02	-41.5	10.0
0.03	-39.9	11.6
0.04	-40.2	11.3
0.05	-41.5	10.0
0.06	-41.1	10.4
0.07	-41.3	10.2
0.08	-41.6	9.9
0.09	-41.7	9.8
0.1	-41.7	9.8
0.2	-44.0	7.5
0.3	-41.6	9.9
0.4	-41.6	9.9
0.5	-41.7	9.8
0.6	-41.5	10.0
0.7	-41.4	10.1
0.8	-41.5	10.0
0.9	-41.6	9.9
1	-41.2	10.3
2	-40.5	11.0
3	-40.8	10.7
4	-41.0	10.5
5	-40.5	11.0
6	-40.5	11.0
7	-40.7	10.8
8	-40.8	10.7
9	-40.1	11.4
10	-40.4	11.1
12	-41.0	10.5
14	-42.1	9.4
15	-42.3	9.2
16	-42.7	8.8
18	-41.0	10.5
20	-41.1	10.4
25	-43.4	8.1
30	-45.3	6.2

Trans. Antenna Height	2 meter
Receiving Antenna Height	2 meter

APPENDIX D

DATA SHEETS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
903.3000	66.4	66.3 A	H	1.0	270	X	LOW	20.8	5.0	0.0	92.1	-1.9	94.0	
903.3000	65.1	65.0 A	V	1.0	270	X	LOW	20.8	5.0	0.0	90.8	-3.2	94.0	
912.4000	66.8	66.7 A	H	1.0	270	X	MID	21.2	4.9	0.0	92.8	-1.2	94.0	
912.4000	62.3	62.2 A	V	1.0	270	X	MID	21.2	4.9	0.0	88.3	-5.7	94.0	
921.3000	66.3	66.2 A	H	1.0	270	X	HI	21.5	4.8	0.0	92.5	-1.5	94.0	
921.3000	62.1	62.0 A	V	1.0	180	X	HI	21.5	4.8	0.0	88.3	-5.7	94.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
1806.6000	52.4	50.3 A	H	1.0	90	X	LOW	24.5	3.5	35.6	42.7	-11.3	54.0	
1806.6000	54.7	53.0 A	V	1.0	90	X	LOW	24.5	3.5	35.6	45.4	-8.6	54.0	
1824.8000	54.6	52.9 A	H	1.5	180	X	MID	24.5	3.5	35.6	45.3	-8.7	54.0	
1824.8000	57.7	56.7 A	V	1.0	180	X	MID	24.5	3.5	35.6	49.1	-4.9	54.0	
1842.6000	58.1	57.2 A	H	2.0	180	X	HI	24.5	3.5	35.6	49.6	-4.4	54.0	
1842.6000	57.3	56.4 A	V	1.5	90	X	HI	24.5	3.5	35.6	48.8	-5.2	54.0	

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** DELTA = SPEC LIMIT - CORRECTED READING

COMPATIBLE ELECTRONICS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
2709.9000	46.9	41.9 A	H	1.0	180	X	LOW	28.2	4.5	35.6	39.0	-15.0	54.0	
2709.9000	49.3	46.0 A	V	1.0	180	X	LOW	28.2	4.5	35.6	43.1	-10.9	54.0	
2737.2000	47.9	42.2 A	H	1.5	180	X	MID	28.2	4.5	35.6	39.3	-14.7	54.0	
2737.2000	48.3	43.8 A	V	1.5	270	X	MID	28.2	4.5	35.6	40.9	-13.1	54.0	
2763.9000	48.8	45.4 A	H	1.5	180	X	HI	29.7	4.6	35.2	44.5	-9.5	54.0	
2763.9000	53.1	50.9 A	V	1.0	180	X	HI	29.7	4.6	35.2	50.0	-4.0	54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
3613.2000	47.0	41.3 A	H	1.0	180	X	LOW	29.6	5.0	35.2	**40.7**	**-13.3**	**54.0**	
3613.2000	48.9	45.0 A	V	1.0	180	X	LOW	29.6	5.0	35.2	**44.4**	**-9.6**	**54.0**	
3649.6000	46.2	39.8 A	H	1.5	90	X	MID	29.6	5.0	35.2	**39.2**	**-14.8**	**54.0**	
3649.6000	49.1	44.0 A	V	1.5	90	X	MID	29.6	5.0	35.2	**43.4**	**-10.6**	**54.0**	
3685.2000	49.3	46.3 A	H	3.5	180	X	HI	29.6	5.0	35.2	**45.7**	**-8.3**	**54.0**	
3685.2000	50.5	46.8 A	V	1.0	180	X	HI	29.6	5.0	35.2	**46.2**	**-7.8**	**54.0**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
4516.5000	48.7	45.0 A	H	2.0	90	X	LOW	30.9	5.6	34.1	**47.4**	**-6.6**	**54.0**	
4516.5000	49.2	44.7 A	V	2.5	0	X	LOW	30.9	5.6	34.1	**47.1**	**-6.9**	**54.0**	
4562.0000	47.1	42.8 A	H	1.5	90	X	MID	30.9	5.6	34.1	**45.2**	**-8.8**	**54.0**	
4562.0000	47.8	43.1 A	V	2.0	0	X	MID	30.9	5.6	34.1	**45.5**	**-8.5**	**54.0**	
4606.5000	45.8	39.1 A	H	3.5	0	X	HI	30.9	5.6	34.1	**41.5**	**-12.5**	**54.0**	
4606.5000	47.6	40.8 A	V	1.0	180	X	HI	30.9	5.6	34.1	**43.2**	**-10.8**	**54.0**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

COMPATIBLE ELECTRONICS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
5419.8000	43.5	36.1 A	H	2.5	180	X	LOW	32.4	6.0	33.0	**41.5**	**-12.5**	**54.0**	
5419.8000	44.9	38.6 A	V	2.0	0	X	LOW	32.4	6.0	33.0	**44.0**	**-10.0**	**54.0**	
5474.4000	41.7	34.4 A	H	1.5	90	X	MID	32.4	6.0	33.0	**39.8**	**-14.2**	**54.0**	
5474.4000	44.1	38.3 A	V	2.0	180	X	MID	32.4	6.0	33.0	**43.7**	**-10.3**	**54.0**	
5527.8000	43.0	35.2 A	H	2.0	180	X	HI	32.4	6.0	33.0	**40.6**	**-13.4**	**54.0**	
5527.8000	44.9	37.4 A	V	1.5	180	X	HI	32.4	6.0	33.0	**42.8**	**-11.2**	**54.0**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

COMPATIBLE ELECTRONICS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
6323.1000	42.4	35.1 A	H	3.0	90	X	LOW	34.3	6.9	34.5	**41.8**	**-12.2**	**54.0**	
6323.1000	43.6	36.8 A	V	2.0	180	X	LOW	34.3	6.9	34.5	**43.5**	**-10.5**	**54.0**	
6386.8000	40.8	32.5 A	H	1.0	180	X	MID	34.3	6.9	34.5	**39.2**	**-14.8**	**54.0**	
6386.8000	41.9	34.6 A	V	1.5	180	X	MID	34.3	6.9	34.5	**41.3**	**-12.7**	**54.0**	
6449.1000	43.4	35.6 A	H	1.5	90	X	HI	34.3	6.9	34.5	**42.3**	**-11.7**	**54.0**	
6449.1000	44.2	37.1 A	V	3.5	180	X	HI	34.3	6.9	34.5	**43.8**	**-10.2**	**54.0**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
7226.4000	37.9	31.7 A	H	1.5	180	X	LOW	36.8	9.1	33.9	43.7	-10.3	54.0	
7226.4000	36.0	30.8 A	V	1.5	180	X	LOW	36.8	9.1	33.9	42.8	-11.2	54.0	
7299.2000	39.5	30.9 A	H	1.5	180	X	MID	36.8	9.1	33.9	42.9	-11.1	54.0	
7299.2000	38.6	31.0 A	V	2.0	180	X	MID	36.8	9.1	33.9	43.0	-11.0	54.0	
7370.4000	41.1	31.6 A	H	1.0	180	X	HI	36.8	9.1	33.9	43.6	-10.4	54.0	
7370.4000	39.3	31.7 A	V	1.5	180	X	HI	36.8	9.1	33.9	43.7	-10.3	54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

COMPATIBLE ELECTRONICS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	PASE	DATE	8/6/99
EUT	INSTANT GREEN REMOTE	DUTY CYCLE	N/A
MODEL	IGR-1290	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	Kyle Fujimoto	LAB	D

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
8129.7000	39.6	32.8 A	H	1.5	180	X	LOW	37.1	9.0	34.5	**44.4**	**-9.6**	**54.0**	
8129.7000	39.6	31.2 A	V	1.5	180	X	LOW	37.1	9.0	34.5	**42.8**	**-11.2**	**54.0**	
8211.6000	42.2	32.5 A	H	1.5	180	X	MID	37.4	8.1	34.5	**43.5**	**-10.5**	**54.0**	
8211.6000	39.5	32.5 A	V	1.0	180	X	MID	37.4	8.1	34.5	**43.5**	**-10.5**	**54.0**	
8291.7000	42.1	33.1 A	H	3.0	0	X	HI	37.1	9.0	34.5	**44.7**	**-9.3**	**54.0**	
8291.7000	41.2	33.0 A	V	1.5	180	X	HI	37.1	9.0	34.5	**44.6**	**-9.4**	**54.0**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

NOTE: NO HARMONICS WERE FOUND AFTER THE 9TH HARMONIC

COMPATIBLE ELECTRONICS

Test location: Compatible Electronics
Customer : PASE
Manufacturer : PASE
EUT name : INSTANT GREEN REMOTE
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor(20*log(test/spec)) :
Test Mode :
SPURIOUS EMISSIONS - TRANSMITTER - 30 TO 300 MHz
TEMPERATURE 75 DEGREES F., RELATIVE HUMIDITY 53%
TESTED BY: Kyle Fujimoto
KYLE FUJIMOTO

Date : 8/ 9/1999
Time : 8.21
Model: IGR-1290
Lab: D
: 0.00

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1V	110.58	43.80	1.44	10.08	38.68	16.64	43.50	-26.86
2V	217.49	34.60	2.07	16.56	38.45	14.78	46.00	-31.22
3V	66.35	39.00	1.13	10.11	38.60	11.64	40.00	-28.36
4H	151.21	45.50	1.70	12.62	38.50	21.32	43.50	-22.18

Test location: Compatible Electronics
Customer : PASE
Manufacturer : PASE
EUT name : INSTANT GREEN REMOTE
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor(20*log(test/spec))
Test Mode :
SPURIOUS EMISSIONS - TRANSMITTER - 300 to 1000 MHz
TEMPERATURE 75 DEGREES F., RELATIVE HUMIDITY 53%
TESTED BY: Kyle Fujimoto
KYLE FUJIMOTO

Date : 8/ 9/1999
Time : 8.33
Model: IGR-1290
Lab: D
: 0.00

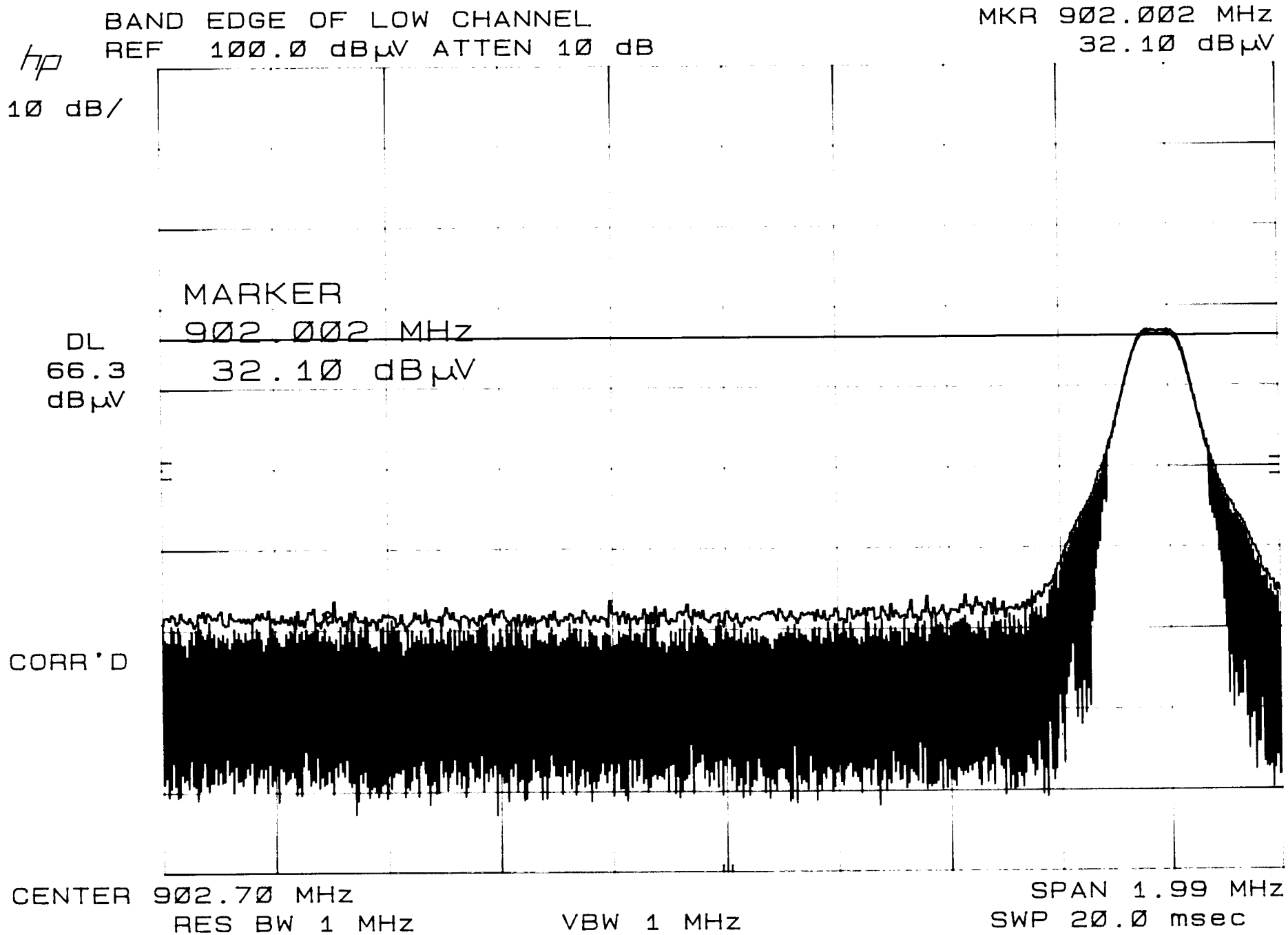
Pol	Freq	Rdng	Cable loss	Ant factor	Amp gain	Cor'd rdg = R	limit = L	Delta R-L
	MHz	dBuV	dB	dB	dB	dBuV	dBuV/m	dB
1H	446.23	42.70	3.19	18.71	37.83	26.77	46.00	-19.23
2V	457.32	40.40	3.24	18.69	37.87	24.46	46.00	-21.54

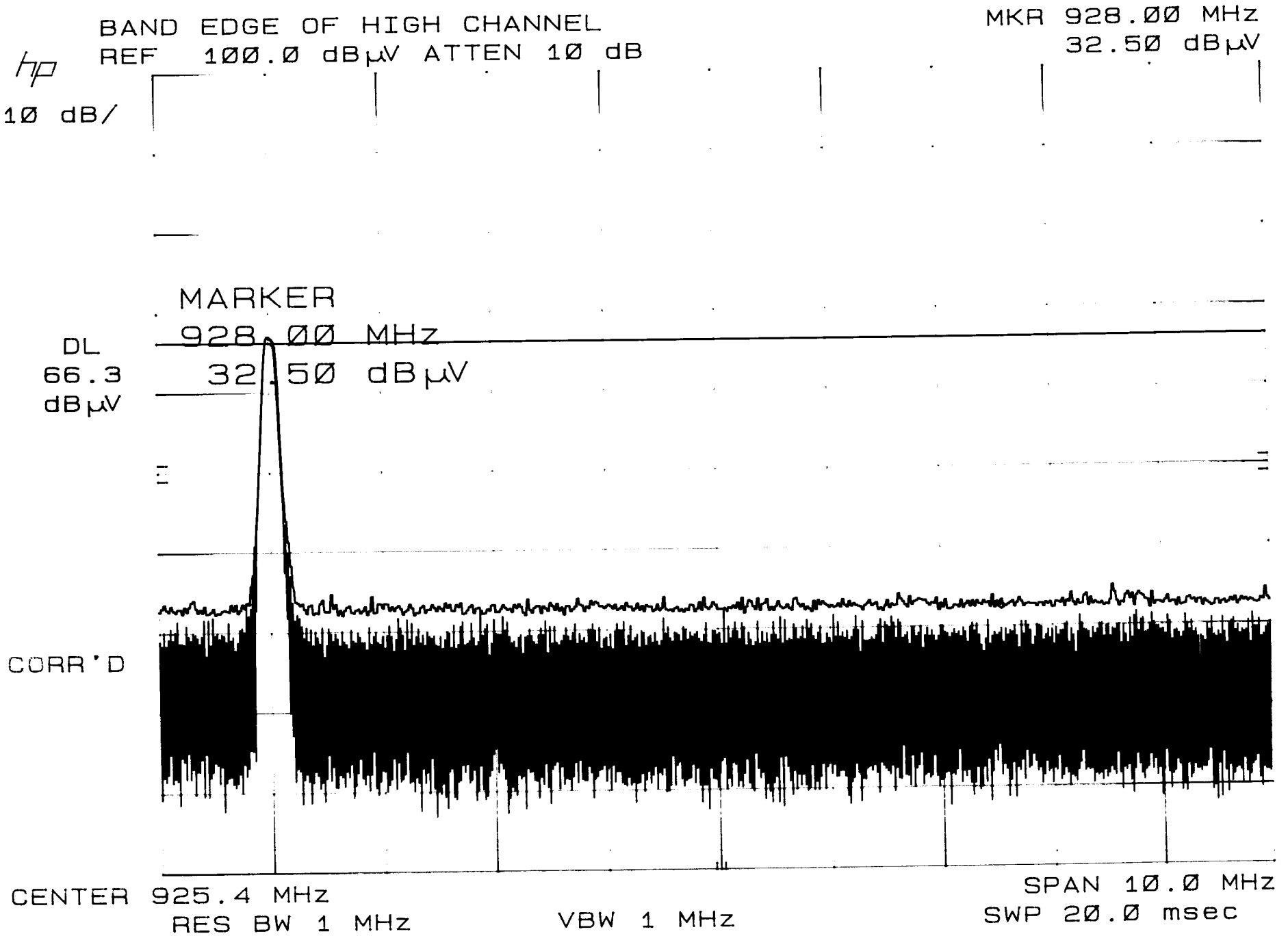
Test location: Compatible Electronics
Customer : PASE
Manufacturer : PASE
EUT name : INSTANT GREEN REMOTE
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor(20*log(test/spec)) :
Test Mode :

Date : 8/ 9/1999
Time : 8.21
Model: IGR-1290
Lab: D
: 0.00

SPURIOUS EMISSIONS - TRANSMITTER - 10 kHz TO 30 MHz
TEMPERATURE 75 DEGREES F., RELATIVE HUMIDITY 53%
TESTED BY: Kyle Fujimoto
KYLE FUJIMOTO

NO EMISSIONS FOUND FROM 10 kHz TO 30 MHz IN
EITHER POLARIZATION FOR THE TRANSMITTER


BAND EDGE OF LOW CHANNEL
REF 100.0 dBµV ATTEN 10 dB
MKR 902.002 MHz
32.10 dBµV
10 dB/
MARKER
902.002 MHz
32.10 dBµV
DL
66.3
dBµV
CORR'D
CENTER 902.70 MHz
RES BW 1 MHz
VBW 1 MHz
SPAN 1.99 MHz
SWP 20.0 msec


BAND EDGE OF HIGH CHANNEL
REF 100.0 dBμV ATTEN 10 dB
MKR 928.00 MHz
32.50 dBμV
10 dB/
MARKER
928.00 MHz
32.50 dBμV
DL
66.3
dBμV
CORR'D
CENTER 925.4 MHz
RES BW 1 MHz
VBW 1 MHz
SPAN 10.0 MHz
SWP 20.0 msec