Test Location: CKC Laboratories, Inc. • 5473A Clouds Rest • Mariposa, CA 95338 • 800-500-4362

Customer: **HID**
Specification: **FCC 15.209**
Work Order #: **77304** Date: 07/19/2001
Test Type: **Maximized Emissions** Time: 11:07:34
Equipment: **Proximity Card Reader** Sequence#: 3
Manufacturer: HID Tested By: Randal Clark
Model: 5455/8B (5455-310)
S/N: 2901-2

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer RF Section	2209A01404	11/03/2000	11/03/2001	490
Spectrum Analyzer Display	2403A08241	11/03/2000	11/03/2001	489
QP Adapter	2811A01267	11/03/2000	11/03/2001	478
Preamplifier	1937A02604	03/29/2001	03/29/2002	0
Log Periodic	154	05/07/2001	05/07/2002	0
Biconical Antenna	156	12/18/2000	12/18/2001	0

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Proximity Card Reader*	HID	5455/8B (5455-310)	2901-2

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Topward Electric Instruments	TPS-2000	920035

Test Conditions / Notes:

EUT is a proximity card reader operating on a frequency of 125kHz. EUT is powered by 12VDC though a DC power supply. EUT is operating in normal mode with no card in the field. Frequency Range Tested: 100kHz - 30MHz

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	Loop dB	Cable dB	15.31 dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	756.360k	29.2	+10.1	+0.2	20.0	-	+0.0	19.5	30.0	-10.5	Vert
2	630.290k	29.2	+10.2	+0.1	20.0	-	+0.0	19.5	31.6	-12.1	Vert
3	1.009M	24.9	+10.2	+0.2	20.0	-	+0.0	15.3	27.5	-12.2	Vert

4	1.135M	22.9	+10.2	+0.2	- 20.0	+0.0	13.3	26.5	- 13.2	Vert
5	882.440k	24.0	+10.1	+0.2	- 20.0	+0.0	14.3	28.7	- 14.4	Vert
6	504.220k	28.9	+10.1	+0.1	- 20.0	+0.0	19.1	33.5	- 14.4	Vert
7	1.765M	16.7	+10.3	+0.3	- 20.0	+0.0	7.3	29.5	- 22.2	Vert
8	378.150k	34.5	+10.1	+0.0	- 60.0	+0.0	-15.4	16.0	- 31.4	Vert