

File Number: BP7169  
 Project Number: 01ME05266  
 Model Number: LR-911

Issued: August 15, 2001

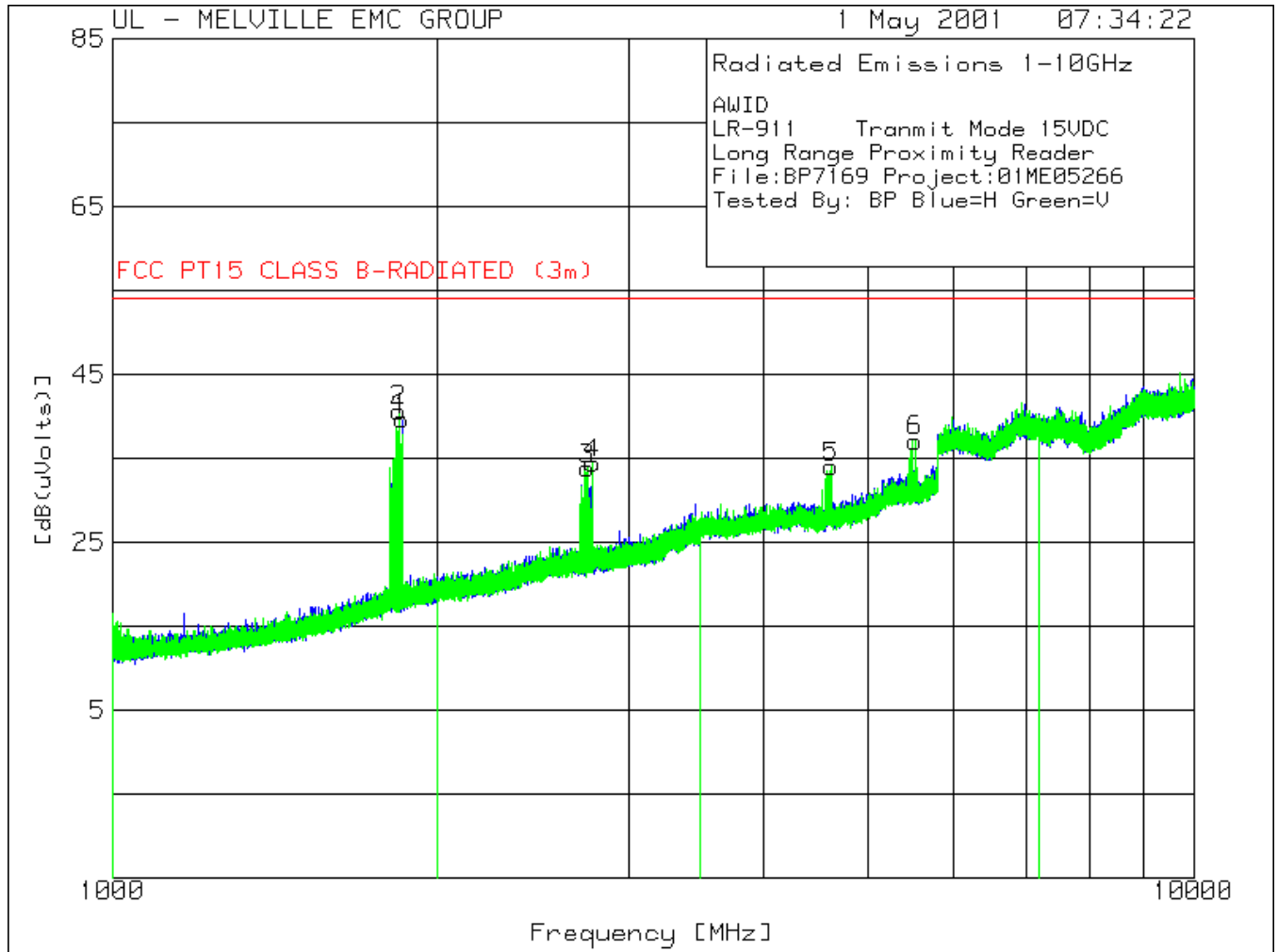
FCC ID # OGSLR911

AWID  
 LR-911 Receive Mode  
 Long Range Proximity Reader  
 File:BP7169 Project:01ME05266  
 Tested By: BP Blue=H Green=V

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4
1	1624.147	24 pk	-32	27.4	19.4	54	N/A	N/A	N/A
	Azimuth: 335	Height:98	Vert	Margin [dB]	-34.6	N/A	N/A	N/A	N/A
2	2303.297	24.5 pk	-30.6	30.1	24	54	N/A	N/A	N/A
	Azimuth: 0	Height:200	Vert	Margin [dB]	-30	N/A	N/A	N/A	N/A
3	4446.372	23.6 pk	-27.3	33.8	30.1	54	N/A	N/A	N/A
	Azimuth: 132	Height:98	Vert	Margin [dB]	-23.9	N/A	N/A	N/A	N/A
4	5313.263	23.4 pk	-26.4	35.9	32.9	54	N/A	N/A	N/A
	Azimuth: 0	Height:200	Vert	Margin [dB]	-21.1	N/A	N/A	N/A	N/A
5	6083.115	27.7 pk	-24.6	36.8	39.9	54	N/A	N/A	N/A
	Azimuth: 0	Height:200	Vert	Margin [dB]	-14.1	N/A	N/A	N/A	N/A
6	6384.863	27.5 pk	-24.6	36.5	39.4	54	N/A	N/A	N/A
	Azimuth: 0	Height:200	Horz	Margin [dB]	-14.6	N/A	N/A	N/A	N/A
7	6584.026	28.1 pk	-24.4	36.5	40.2	54	N/A	N/A	N/A
	Azimuth: 0	Height:200	Horz	Margin [dB]	-13.8	N/A	N/A	N/A	N/A
8	6835.407	28.7 pk	-23.7	36.9	41.9	54	N/A	N/A	N/A
	Azimuth: 221	Height:98	Horz	Margin [dB]	-12.1	N/A	N/A	N/A	N/A

LIMIT 1: FCC PT15 CLASS B-RADIATED (3m)  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 tm - Trace Math Result



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AWID  
 LR-911 Transmit Mode 15VDC  
 Long Range Proximity Reader  
 File:BP7169 Project:01ME05266  
 Tested By: BP Blue=H Green=V

Test No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4
1	1852.123	42.4 pk	-31.2	28.4	39.6	54	N/A	N/A	N/A
Azimuth: 0		Height:200 Horz		Margin [dB]		-14.4	N/A	N/A	N/A
2	1840.966	43.6 pk	-31.3	28.4	40.7	54	N/A	N/A	N/A
Azimuth: 0		Height:200 Vert		Margin [dB]		-13.3	N/A	N/A	N/A
3	2748.595	32.4 pk	-29.8	31.2	33.8	54	N/A	N/A	N/A
Azimuth: 0		Height:200 Vert		Margin [dB]		-20.2	N/A	N/A	N/A
4	2781.191	32.8 pk	-29.7	31.3	34.4	54	N/A	N/A	N/A
Azimuth: 0		Height:200 Vert		Margin [dB]		-19.6	N/A	N/A	N/A
5	4621.506	27.1 pk	-27.2	34.1	34	54	N/A	N/A	N/A
Azimuth: 0		Height:200 Vert		Margin [dB]		-20	N/A	N/A	N/A
6	5522.593	26.9 pk	-26	36.2	37.1	54	N/A	N/A	N/A
Azimuth: 341		Height:98 Vert		Margin [dB]		-16.9	N/A	N/A	N/A

LIMIT 1: FCC PT15 CLASS B-RADIATED (3m)  
 LIMIT 2: NONE  
 LIMIT 3: NONE  
 LIMIT 4: NONE

pk - Peak detector  
 qp - Quasi-Peak detector  
 av - Average detector  
 tm - Trace Math Result

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### **2.3 EMISSIONS TEST RESULTS**

Conducted Measurements (Section 2.2.1)

- |   |   |                                  |
|---|---|----------------------------------|
| <input checked="" type="checkbox"/> Peak Output Power               | <input checked="" type="checkbox"/> MET | <input type="checkbox"/> NOT MET |
| <input checked="" type="checkbox"/> Time of Occupancy               | <input checked="" type="checkbox"/> MET | <input type="checkbox"/> NOT MET |
| <input checked="" type="checkbox"/> 20 dB Bandwidth                 | <input checked="" type="checkbox"/> MET | <input type="checkbox"/> NOT MET |
| <input checked="" type="checkbox"/> Carrier Frequency Separation    | <input checked="" type="checkbox"/> MET | <input type="checkbox"/> NOT MET |
| <input checked="" type="checkbox"/> Number of hopping Frequencies   | <input checked="" type="checkbox"/> MET | <input type="checkbox"/> NOT MET |
| <input checked="" type="checkbox"/> Band Edge Compliance            | <input checked="" type="checkbox"/> MET | <input type="checkbox"/> NOT MET |
| <input checked="" type="checkbox"/> Spurious RF Conducted Emissions | <input checked="" type="checkbox"/> MET | <input type="checkbox"/> NOT MET |

Radiated Emissions (Section 2.2.2)  MET  NOT MET

RFI Power (Section 2.2.3)  MET  NOT MET

Harmonic Disturbances

- |   |                              |                                  |
|---|------------------------------|----------------------------------|
| <input type="checkbox"/> Steady State (Section 2.2.4) | <input type="checkbox"/> MET | <input type="checkbox"/> NOT MET |
| <input type="checkbox"/> Fluctuating (Section 2.2.4)  | <input type="checkbox"/> MET | <input type="checkbox"/> NOT MET |

The tractability of the measurements contained in this report is achieved by the use of calibrated equipment which is traceable back to NIST.

### **3.0 IMMUNITY TEST REGULATIONS:**

- NOT APPLICABLE
- EN50082-1: 1992 (Date of Withdrawal: 2001 - 07 - 01)
- EN50082-1: 1997
- EN50082-2: 1995
- EN55014-2: 1997
- EN55014-2: 1998
- CISPR 14-2: 1997
- FDA - Reviewer Guide
- Bellcore GR-1089-CORE: Issue 2, 12/1997 with Rev. 1, 2/1999
- EN 60601-1-2: 1993

#### **In accordance with:**

- |                                      |  |                                 |
|--------------------------------------|--|---------------------------------|
| <input type="checkbox"/> IEC 801-2,  | <input type="checkbox"/> IEC 1000-4-2  | Electrostatic Discharge (ESD)   |
| <input type="checkbox"/> IEC 801-3,  | <input type="checkbox"/> ENV50140      | RF Immunity                     |
| <input type="checkbox"/> IEC 801-4,  | <input type="checkbox"/> IEC 1000-4-4  | Electrical Fast Transient (EFT) |
| <input type="checkbox"/> IEC 801-5,  | <input type="checkbox"/> IEC 1000-4-5  | Surge (Lighting)                |
| <input type="checkbox"/> IEC 801-6,  | <input type="checkbox"/> ENV50141      | Conducted Immunity              |
| <input type="checkbox"/> IEC 801-11, | <input type="checkbox"/> IEC 1000-4-11 | Voltage Dips and Interruptions  |

### **3.1 EUT OPERATION MODE - IMMUNITY TESTS:**

- Standby
- Test program (H-Pattern)
- Test program (color bar)
- Test program (customer specific)
- Practice operation
- Normal operating Mode:
- As per manufacture's instructions

**3.1.1 Electrostatic Discharge (ESD) Test:**

Test Applicable       Test Not Applicable

**3.1.2 Radiated Field (RF Immunity) Test:**

Test Applicable       Test Not Applicable

**3.1.3 Electrical Fast Transient (EFT)/Burst test:**

Test Applicable       Test Not Applicable

**3.1.4 Voltage Surge Test:**

Test Applicable       Test Not Applicable

**3.1.5 Conducted Immunity Test:**

Test Applicable       Test Not Applicable

**3.1.6 Voltage Dips and Interruptions:**

Test Applicable       Test Not Applicable

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#### **4.0 SUMMARY:**

The equipment under test has

met the technical requirements as defined under section(s)  2.0 and  3.0

not met the technical requirements as defined under section(s)  2.0 and  3.0.

Test Start Date: 4/30/01

Test Completion Date: 5/15/01

#### **- UNDERWRITERS LABORATORIES, INC. -**

Project Engineer

Reviewer



Bernie Papocchia (Ext.23294)

Robert DeLisi (Ext.22452)

EMC Senior Engineering Associate EMC Engineering Group Leader

International EMC Testing Services International EMC Testing Services

Conformity Assessment – 3014A-MEL

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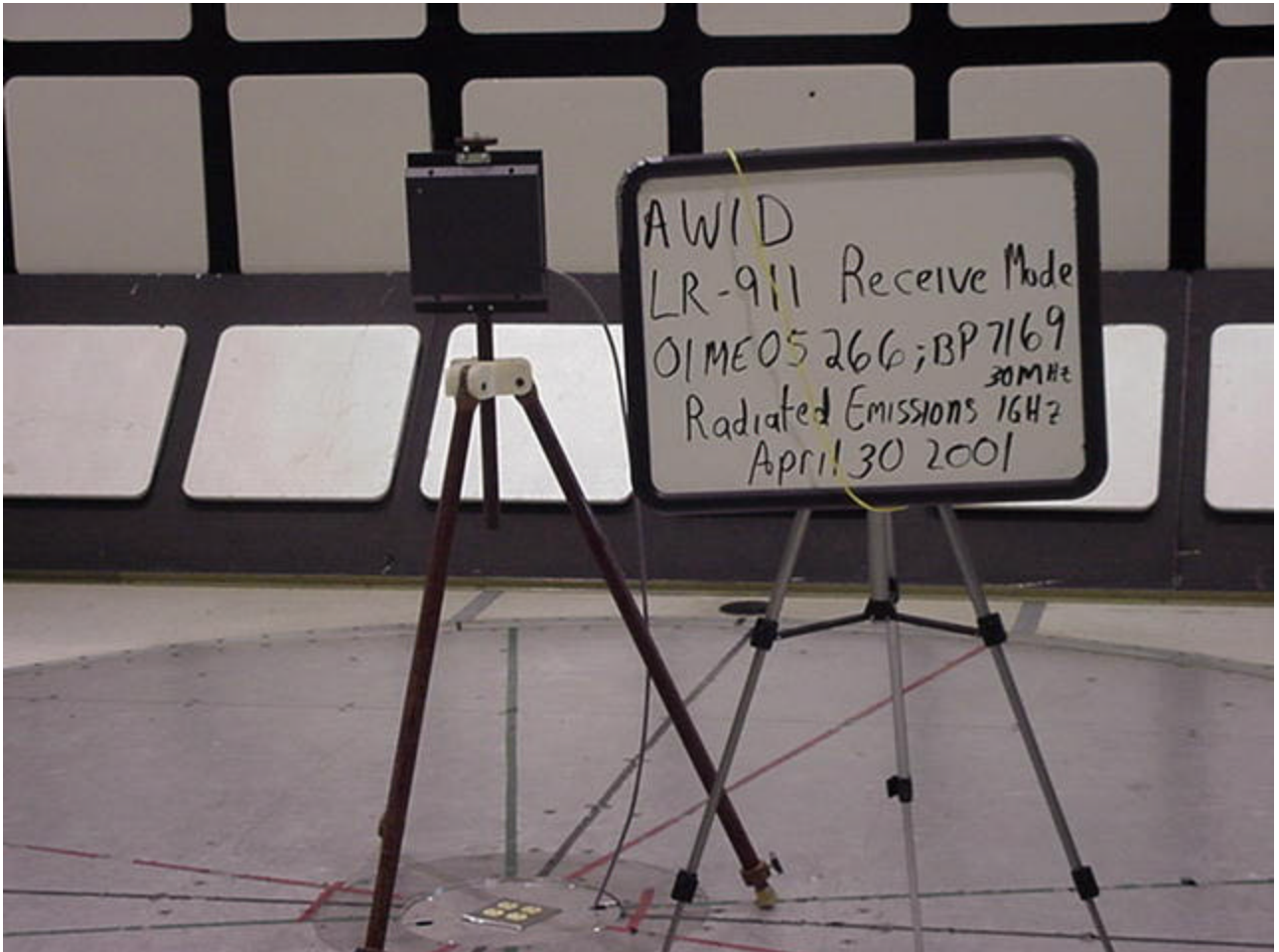
## **APPENDIX B**

### **PHOTOGRAPHS AND DIAGRAMS**

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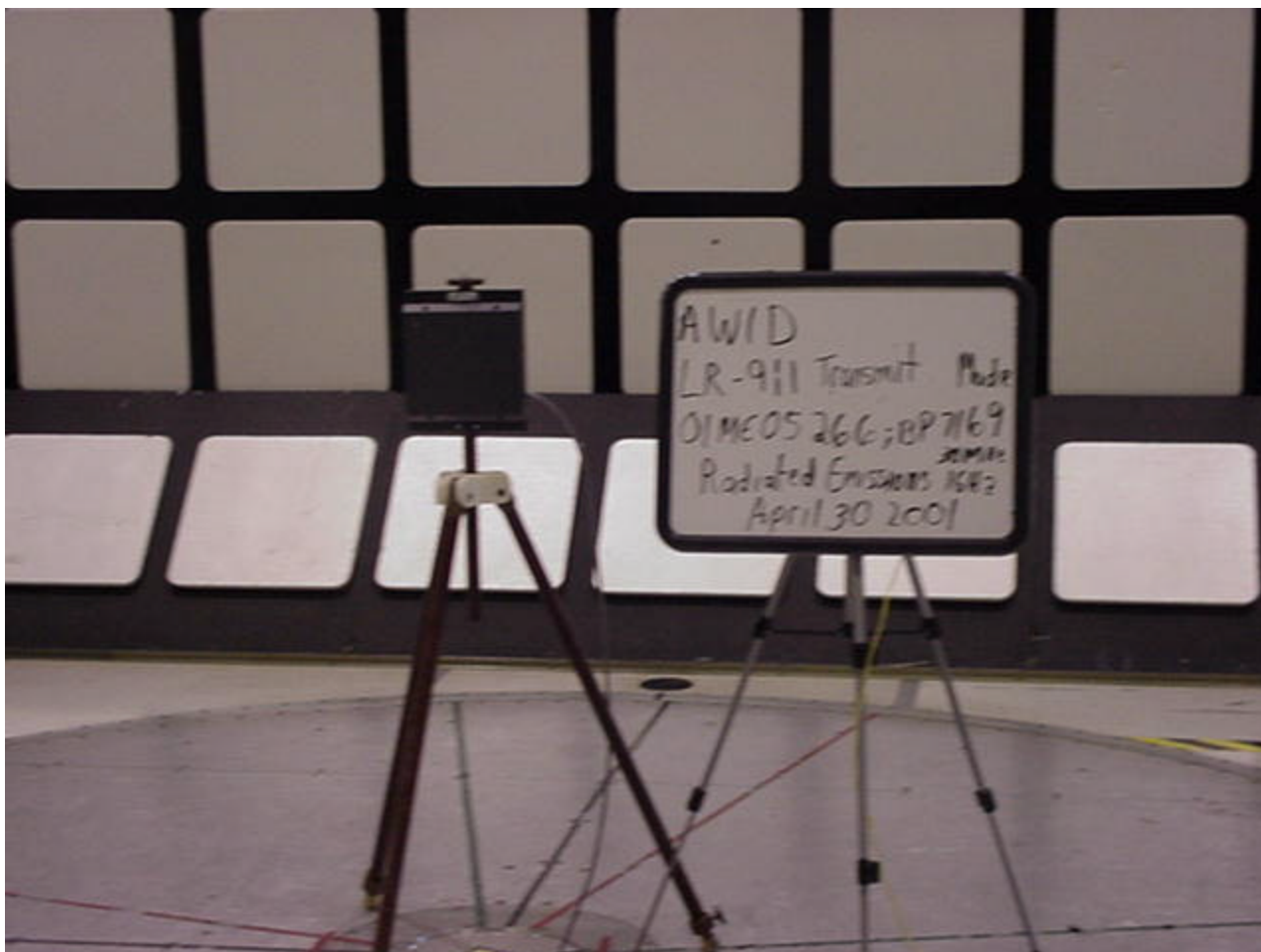


**Radiated Emissions 30MHz to 1000MHz (Receive Mode)**

File Number: BP7169  
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Model Number: LR-911

Issued: August 15, 2001

FCC ID # OGSLR911

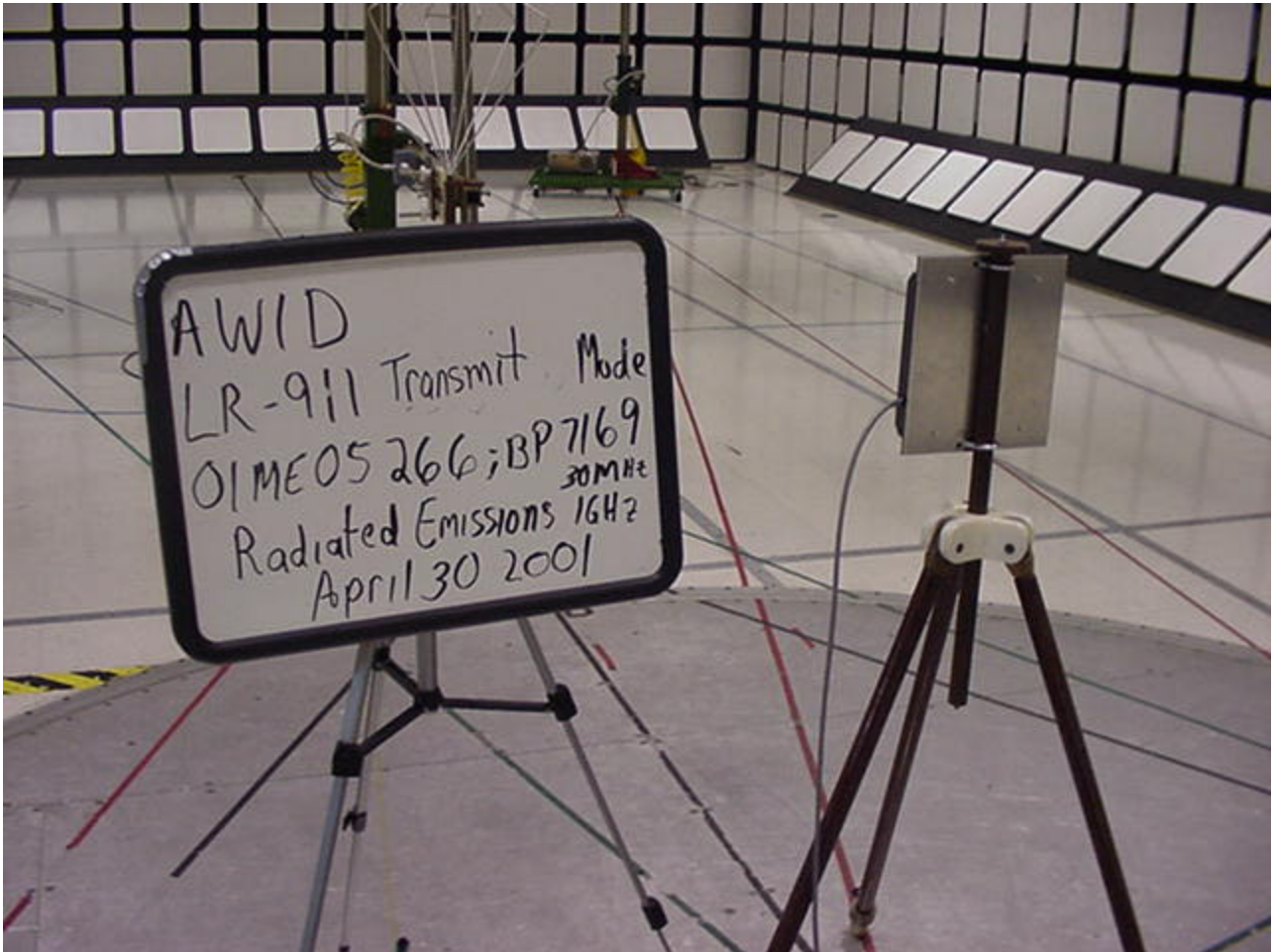


**Radiated Emissions 30MHz to 1000MHz (Transmit Mode)**

File Number: BP7169  
Project Number: 01ME05266  
Model Number: LR-911

Issued: August 15, 2001

FCC ID # OGSLR911

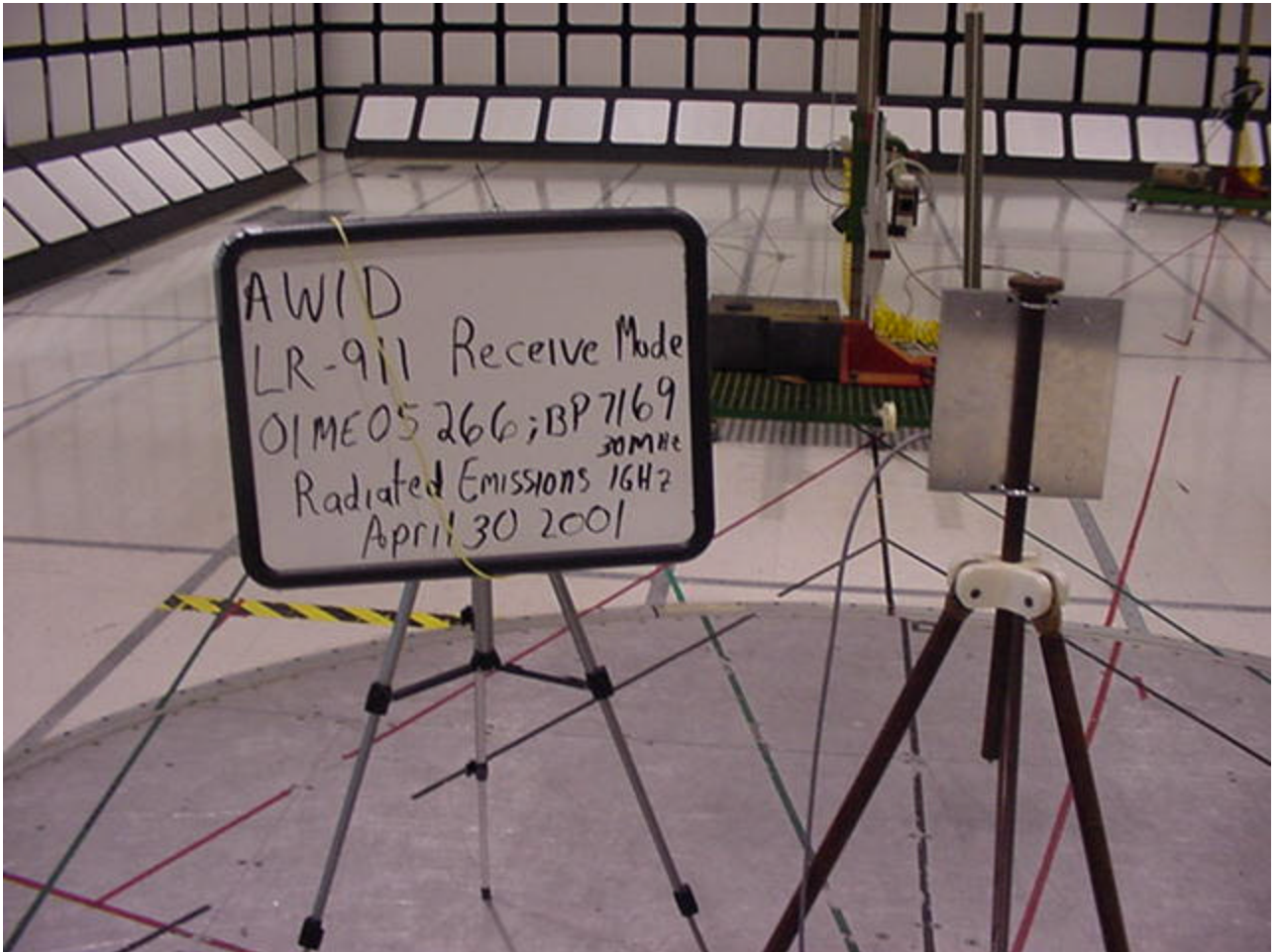


**Radiated Emissions 30MHz to 1000MHz (Transmit Mode)**

File Number: BP7169  
Project Number: 01ME05266  
Model Number: LR-911

Issued: August 15, 2001

FCC ID # OGSLR911

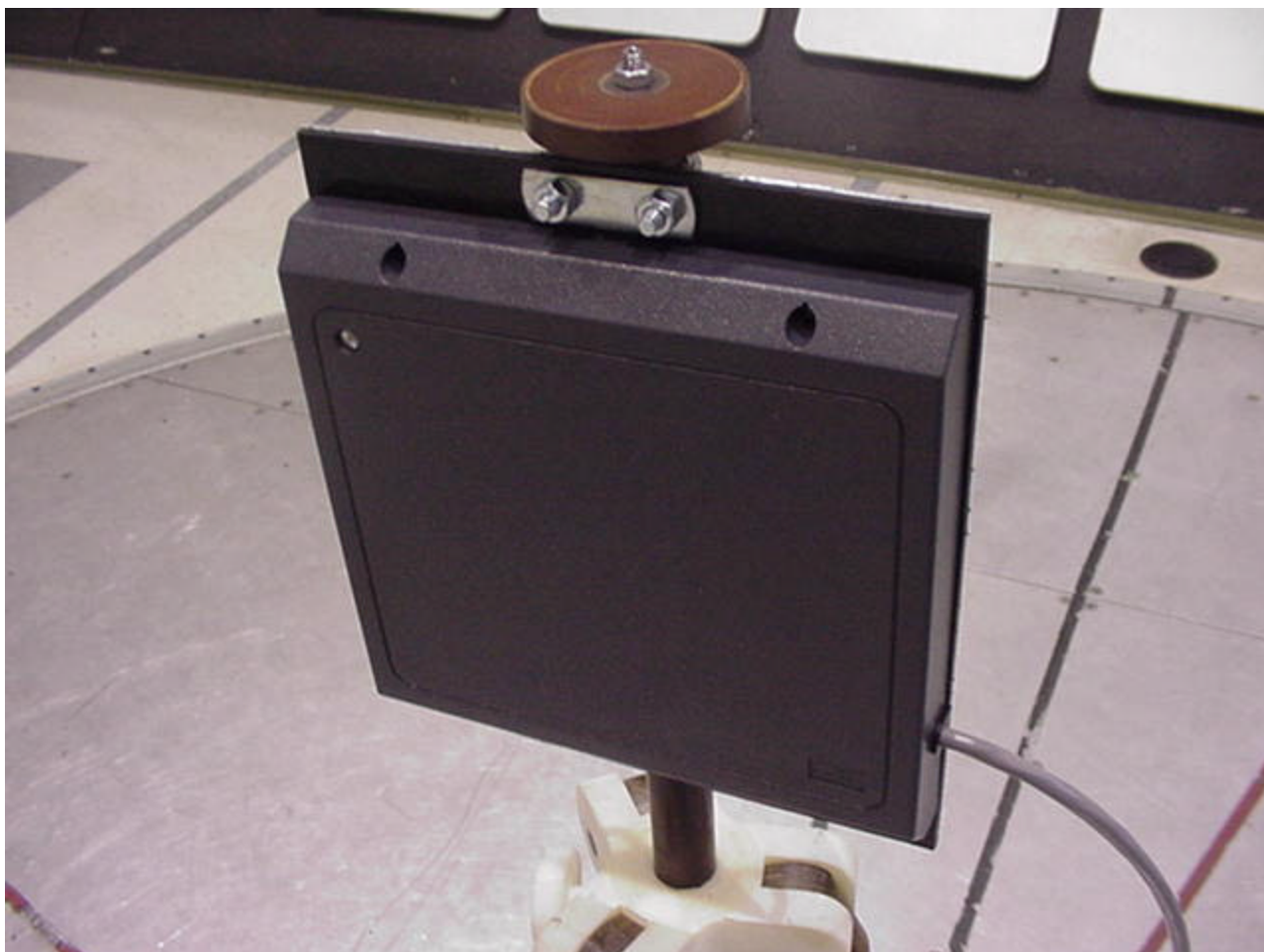


**Radiated Emissions 1GHz to 10GHz(Receive Mode)**

File Number: BP7169  
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Model Number: LR-911

Issued: August 15, 2001

FCC ID # OGSLR911



**LR-911 Mounted**

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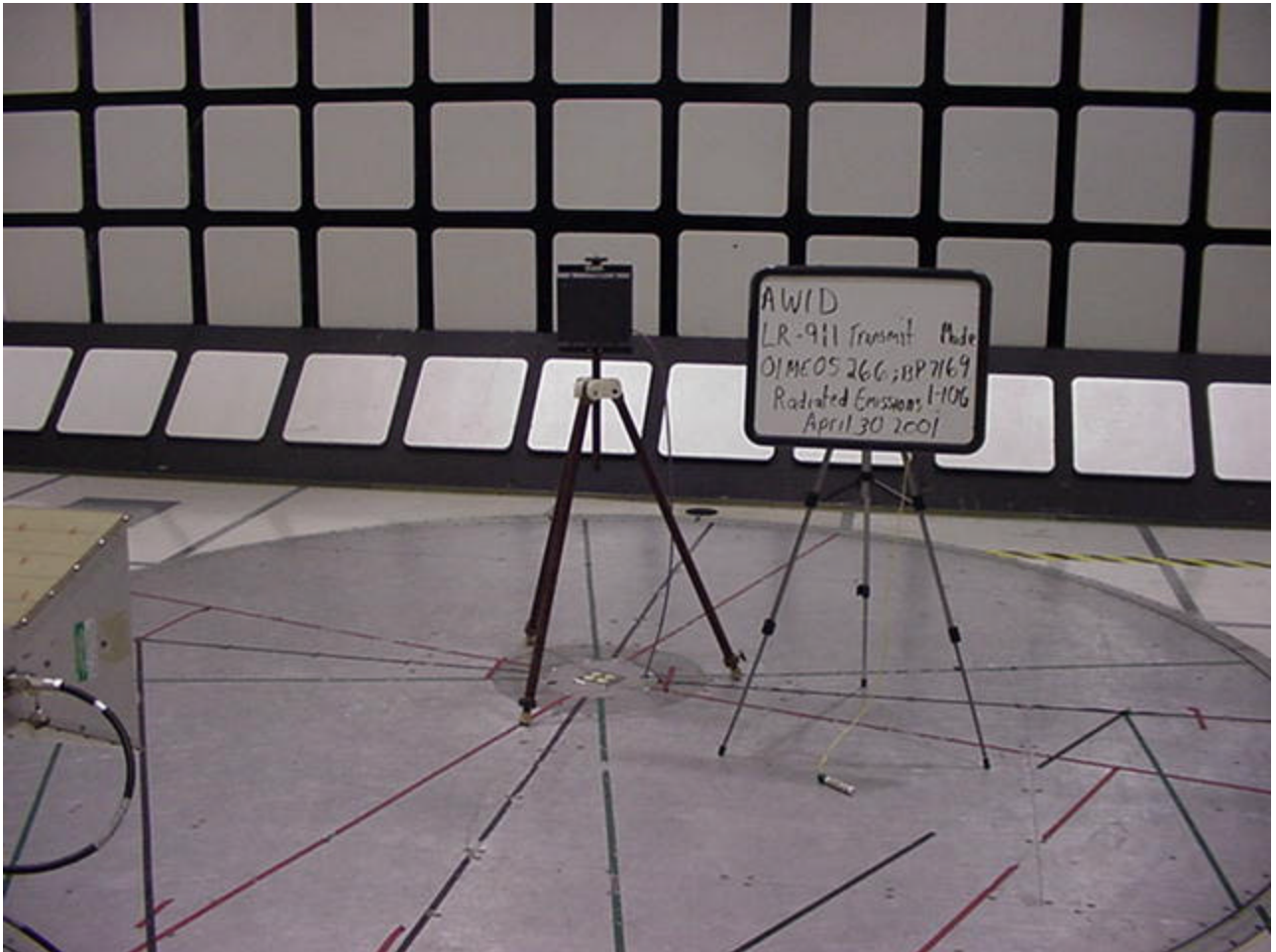


**Radiated Emissions 1GHz to 10GHz(Transmit Mode)**

File Number: BP7169  
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**Radiated Emissions 1.0GHz to 10.0GHz(Transmit Mode)**