

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

Issued: August 15, 2001

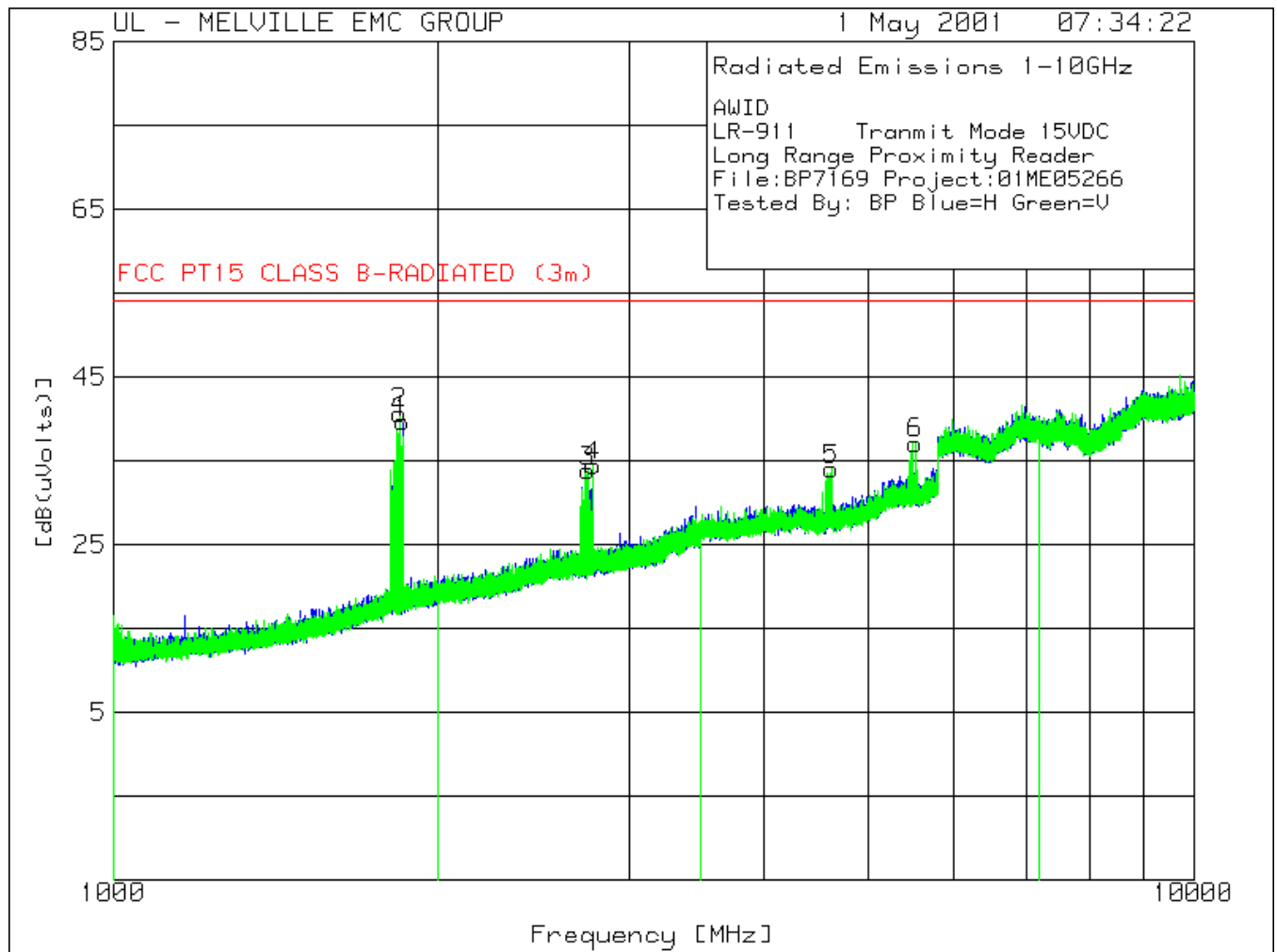
FCC ID # OGSLR911

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
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
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
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
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
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
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
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

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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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 Limit:1 [dB(uVolts)]	2	3	4
1	1852.123	42.4 pk	-31.2	28.4	39.6	54	N/A	N/A
Azimuth: 0		Height:200	Horz	Margin	[dB]	-14.4	N/A	N/A
2	1840.966	43.6 pk	-31.3	28.4	40.7	54	N/A	N/A
Azimuth: 0		Height:200	Vert	Margin	[dB]	-13.3	N/A	N/A
3	2748.595	32.4 pk	-29.8	31.2	33.8	54	N/A	N/A
Azimuth: 0		Height:200	Vert	Margin	[dB]	-20.2	N/A	N/A
4	2781.191	32.8 pk	-29.7	31.3	34.4	54	N/A	N/A
Azimuth: 0		Height:200	Vert	Margin	[dB]	-19.6	N/A	N/A
5	4621.506	27.1 pk	-27.2	34.1	34	54	N/A	N/A
Azimuth: 0		Height:200	Vert	Margin	[dB]	-20	N/A	N/A
6	5522.593	26.9 pk	-26	36.2	37.1	54	N/A	N/A
Azimuth: 341		Height:98	Vert	Margin	[dB]	-16.9	N/A	N/A

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

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2.3 EMISSIONS TEST RESULTS

☒ Conducted Measurements (Section 2.2.1)

☒ Peak Output Power	☒ MET	☐ NOT MET
☒ Time of Occupancy	☒ MET	☐ NOT MET
☒ 20 dB Bandwidth	☒ MET	☐ NOT MET
☒ Carrier Frequency Separation	☒ MET	☐ NOT MET
☒ Number of hopping Frequencies	☒ MET	☐ NOT MET
☒ Band Edge Compliance	☒ MET	☐ NOT MET
☒ Spurious RF Conducted Emissions	☒ MET	☐ NOT MET

☒ Radiated Emissions (Section 2.2.2) ☒ MET ☐ NOT MET

☐ RFI Power (Section 2.2.3) ☐ MET ☐ NOT MET

☐ Harmonic Disturbances

☐ Steady State (Section 2.2.4)	☐ MET	☐ NOT MET
☐ Fluctuating (Section 2.2.4)	☐ MET	☐ 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:

- | | | |
|--------------------------------------|--|---------------------------------|
| ☐ IEC 801-2, | ☐ IEC 1000-4-2 | Electrostatic Discharge (ESD) |
| ☐ IEC 801-3, | ☐ ENV50140 | RF Immunity |
| ☐ IEC 801-4, | ☐ IEC 1000-4-4 | Electrical Fast Transient (EFT) |
| ☐ IEC 801-5, | ☐ IEC 1000-4-5 | Surge (Lighting) |
| ☐ IEC 801-6, | ☐ ENV50141 | Conducted Immunity |
| ☐ IEC 801-11, | ☐ 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.

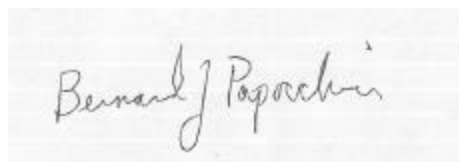
Test Start Date: 4/30/01

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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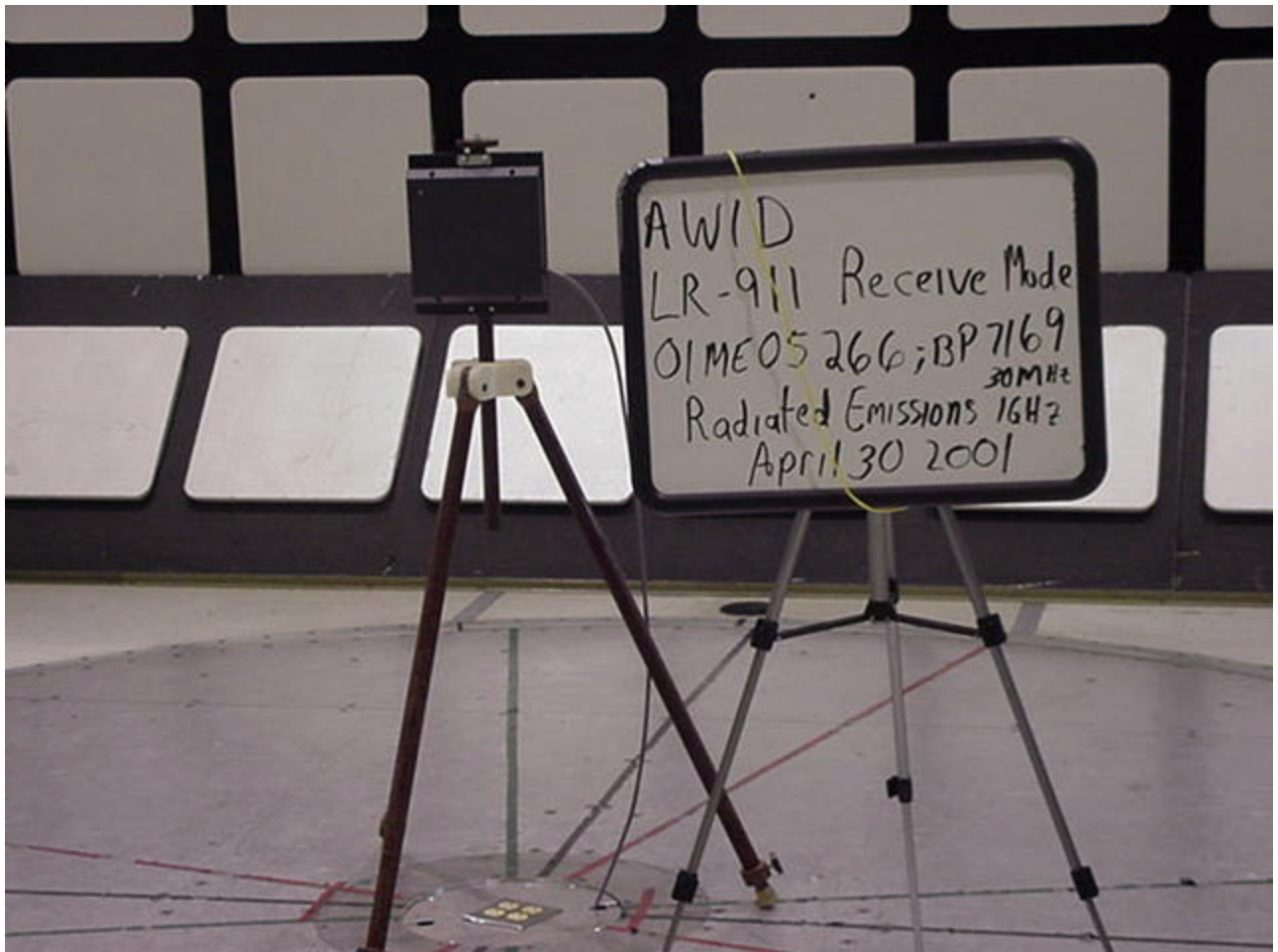
APPENDIX B

PHOTOGRAPHS AND DIAGRAMS

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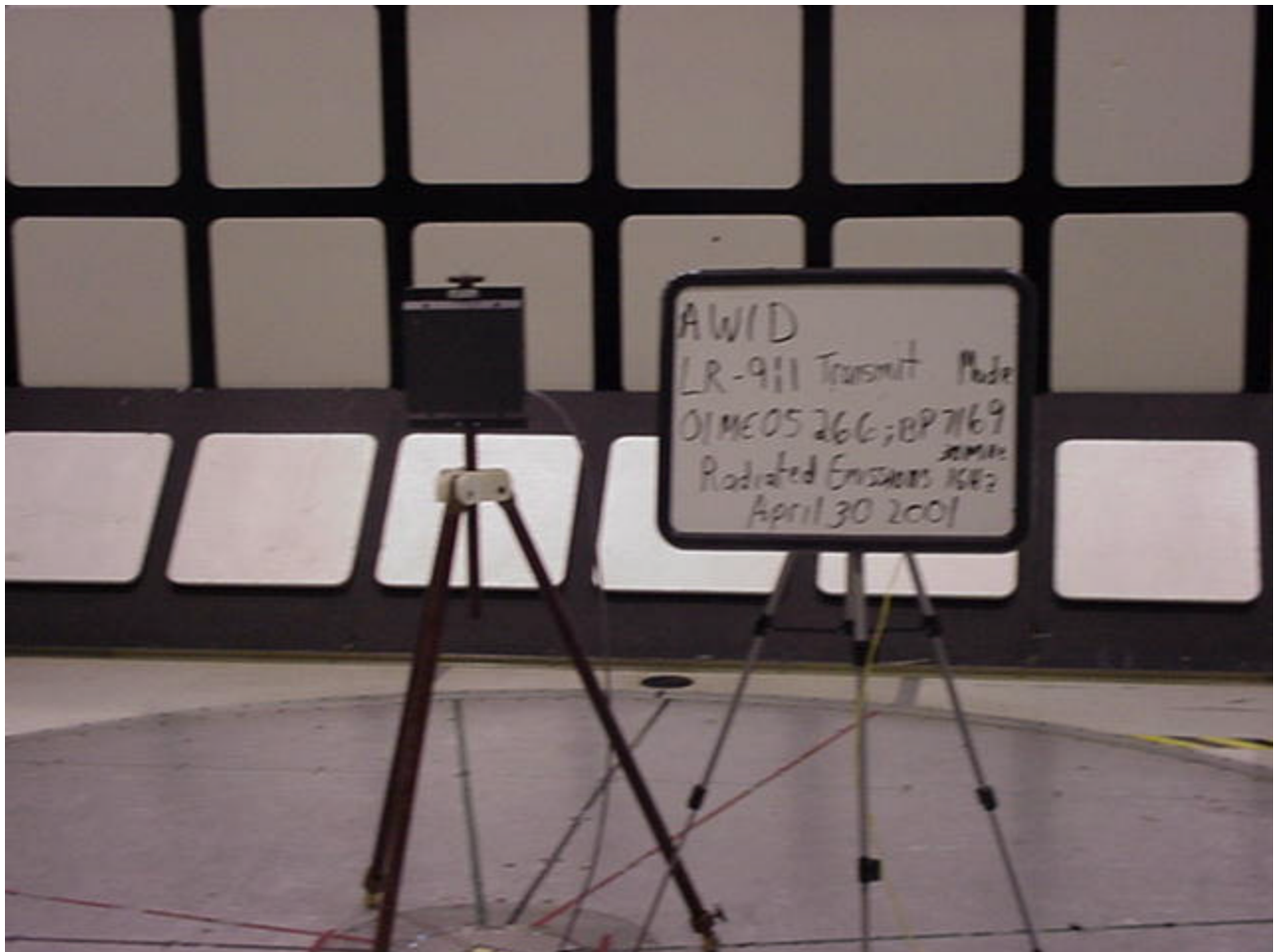


Radiated Emissions 30MHz to 1000MHz (Receive Mode)

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Radiated Emissions 30MHz to 1000MHz (Transmit Mode)

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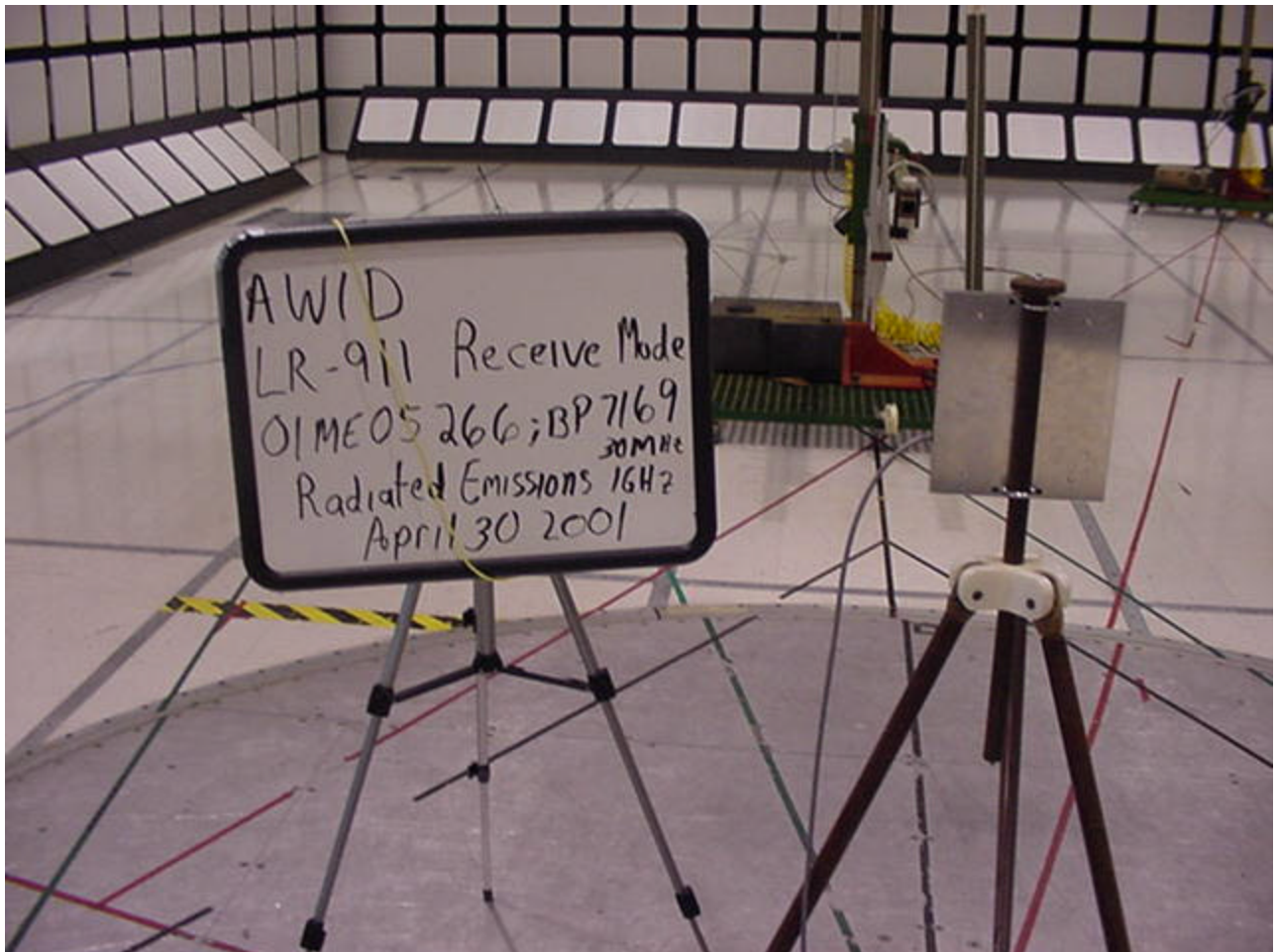


Radiated Emissions 30MHz to 1000MHz (Transmit Mode)

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Radiated Emissions 1GHz to 10GHz(Receive Mode)

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LR-911 Mounted

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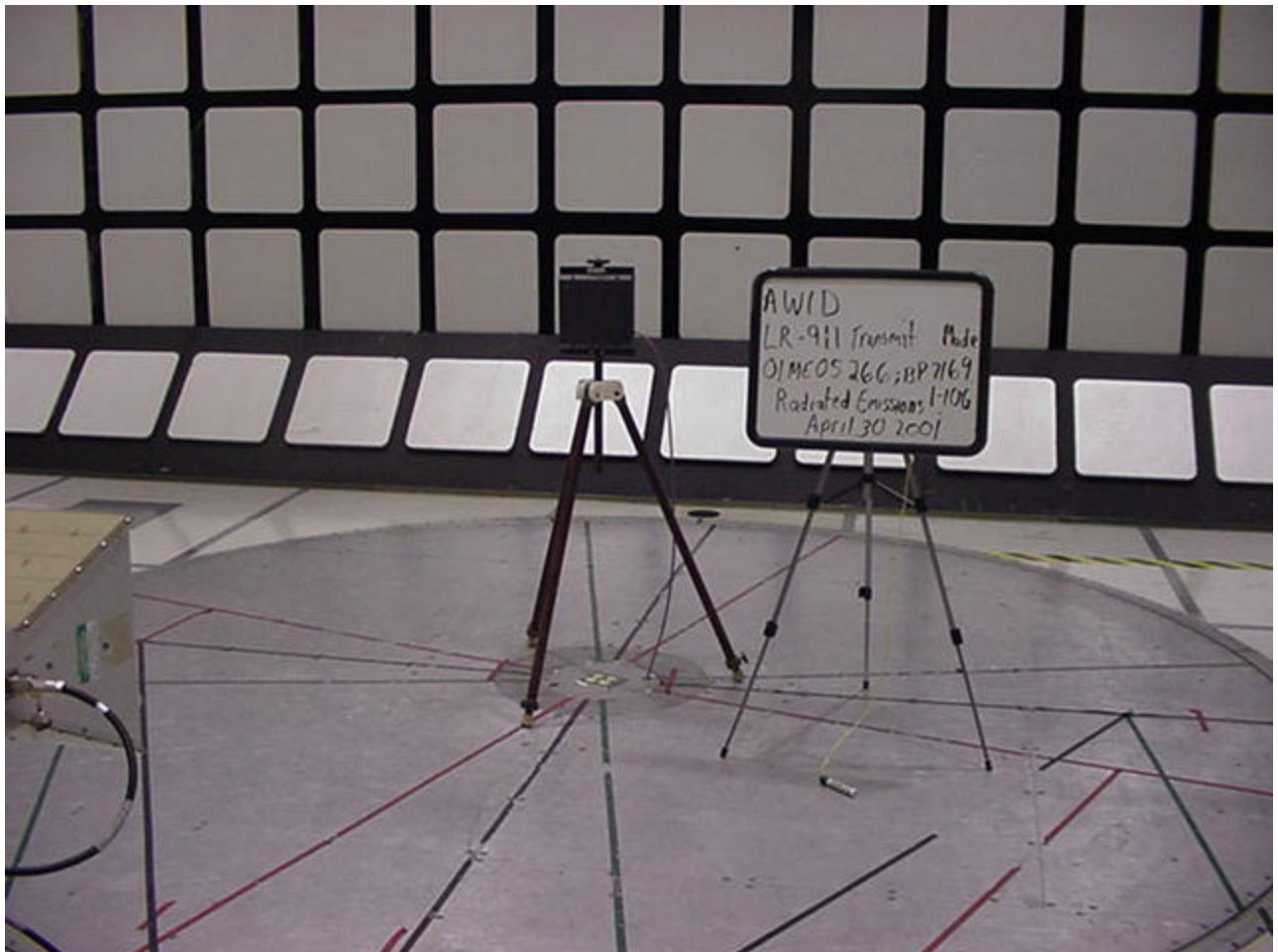


Radiated Emissions 1GHz to 10GHz(Transmit Mode)

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Radiated Emissions 1.0GHz to 10.0GHz(Transmit Mode)