

Test Report No. **BC300381-1** Issue Date: **Wed. May 26, 2004**

Model / Serial No. **M1 / SN: EMC1**

Product Type **AMR Radio**

Client **Metron-Farnier**

Manufacturer **Metron-Farnier**

License holder **Metron-Farnier**

Address **5661 Airport Blvd. Suite B**

Boulder, CO 80301

Test Criteria Applied

FCC CFR47 Part 15.249

Test Result

PASS

Test Project Number

BC300381

References

Title 47 CFR 15: RADIO FREQUENCY
DEVICES

Total Pages

24

Including

Appendices:

Todd Farnier

Reviewed By :

Robert Crosswell

Approved By :

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STATEMENT OF MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The measurement uncertainty for Conducted Emissions in the frequency range of 150kHz – 30MHz is calculated to be ± 2.30 dB and for Radiated Emissions is calculated to be ± 3.60 dB in the frequency range of 30MHz – 200MHz and ± 3.38 dB in the frequency range of 200MHz – 1000MHz.

EUT Received Date: 19-Dec-2003

Testing Start Date: 19-Dec-2003

Testing End Date: 19-Dec-2003

The tests were performed according to following regulations:

1. FCC CFR47 Part 15.207
2. FCC CFR47 Part 15.209
3. FCC CFR47 Part 15.249

Emission Test Results:

Conducted Emissions, Powerline - 15.207 - (Not Applicable)

Test Result

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Conducted Emissions, Data I/O (Ethernet, RJ11, etc.) - (Not Applicable)

Test Result

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Radiated Emissions (Electric Field) - 15.209 - PASS

Test Result

Minimum limit margin 8.4 dB at 10000 MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Fundamental Field Strength Measurement

Radiated Emissions (Electric Field) - 15.249(a) - PASS

Test Result

Minimum limit margin 10.60 dB at 0920.01 MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Radiated Emissions outside Frequency Band

Radiated Emissions (Electric Field) - 15.249(c) - PASS

Test Result

Minimum limit margin 20.60 dB at 2760.00 MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Average Measurements for Emissions >1GHz
Radiated Emissions (Electric Field) - 15.249(d) - PASS

Test Result

Minimum limit margin 5.20 dB at 1840.06 MHz

Maximum limit exceeding dB at MHz

Remarks: CW mode was selected for the fact that it gives the worst case measurement.

GENERAL REMARKS:

Testing was performed in 3 different orthogonal axis to determine the worst case emissions from the device. The worst case emissions measurements are shown in this report.

In any case where the device is powered off a battery, a fresh battery was used during test. In cases where the device is powered off an AC supply, voltage was varied per Part 15.31 to find worst case emissions.

The testing herein was completed on 2 separate dates (January 2004 & May 2004). The 15.249 was completed without gel and with gel around the PCB per the clients' request. All the 15.209 data and the 99% bandwidth were retested. However, since there was no difference with the test 15.209 and the 99% bandwidth results from January 2004 & May 2004, the January 2004 data has been left in this report.

The data herein is worst case from a gelled unit to a non gelled unit. The worst case is without gel. (With gel; the signals are attenuated from 20-30dB than what is shown in this report.).

Unintentional emissions testing was completed from 26MHz and up. No emissions were detected between 26 and 30 MHz.

Modifications required to pass: **NONE**

Test Specification Deviations: **NONE**

Required Information In Accordance to FCC CFR 47 Part 2.1033:

Rule Part 11, 15 & 18 Devices	Other Rule Part Devices	Description	Comments
2.1033(b)(1)	2.1033(c)(1)	<i>Manu. Contact</i>	See Page 1 of this report
2.1033(b)(2)	2.1033(c)(2)	<i>FCC Identifier</i>	
2.1033(b)(3)	2.1033(c)(3)	<i>Users Manual to include Operating, installation</i>	Attached as Exhibit
	2.1033(c)(4)	<i>Emissions Designator per 2.</i>	
	2.1033(c)(5)	<i>Frequency Range</i>	Not Applicable to Part 15 Devcies
	2.1033(c)(6)	<i>Power range and controls</i>	Not Applicable to Part 15 Devcies
	2.1033(c)(7)	<i>Maximum power output rating</i>	Not Applicable to Part 15 Devcies
	2.1033(c)(8)	<i>DC Voltage and Current suplying final RF stages</i>	Not Applicable to Part 15 Devcies
2.1033(b)(3)	2.1033(c)(9)	<i>Tune -up procedure</i>	Please refer to the users manual for applicability
2.1033(b)(4&5)	2.1033(c)(10)	<i>Complete Circuit Diagrams and circuit operation description</i>	Attached as Exhibit
2.1033(b)(7)	2.1033(c)(11)	<i>Photographs/drawings of the identification label & its location on the device</i>	Attached as Exhibit
2.1033(b)(7)	2.1033(c)(12)	<i>Photographs of the external and internal surfaces, and construction</i>	Attached as Exhibit
	2.1033(c)(13)	<i>Digital Modulation</i>	Not Applicable
2.1033(b)(6)	2.1033(c)(14)	<i>Report of Measurement Data Required by 2.1046 – 2.1057</i>	See Data Below (This report consists of the testing required under Part 15.231)
2.1033(b)(8)		<i>Description of publicly available support equipment used during test</i>	Refer to Exhibit B of this report (Client Test Plan)
2.1033(b)(9)		<i>Statement of Authorization to Part 15.37 of CFR47</i>	The equipment herein is being authorized in accordance to 15.37 of the CFR47 Rules.
2.1033(b)(10)		<i>Direct Sequence Spread Spectrum Devices (DSSS)</i>	Exhibit of compliance to 15.247(e)
2.1033(b)(10)		<i>Frequency Hopping Devices</i>	Exhibit of compliance to 15.247(a)(1)
2.1033(b)(11)		<i>Scanning receiver construction</i>	Exhibit stating compliance to construction in accordance to 15.121.
15.31	15.31	<i>Transmitter Supply Voltage</i>	Testing herein was completed in accordance to FCC CFR47 Part 15.31

Exhibits Including (where applicable):

1. Users Manual	7. Parts List
2. Operation Description	8. Tuning Procedure (if applicable)
3. Block Diagram	9. Test Setup Photograph
4. Report of Measurement	10. Label Drawings and or Photographs
5. External & Internal Photographs	11. Description of Support Equipment (where Applicable)
6. Schematic	

Required Information in Accordance to Industry Canada Regulations (In addition to the above):

Information Required	Description	Comments
Modulation Type	(i.e. ASK, NON, FSK, DSSS, FHSS, etc.)	N/A
Emissions Designator	Per TRC-49	N/A
In Country Representative	Contact Information	N/A
99% Bandwidth Measurement	Per RSS-210	N/A



Test-setup photo(s):
Conducted Emissions

Not Applicable



Test-setup photo(s):
Conducted Emissions

Not Applicable

Test-setup photo(s):
Radiated Emissions



Test-setup photo(s):
Radiated Emissions



Appendix A

Test Data Sheets

and

Test Equipment Used

Part 15.249 (a)
Fundamental Field Strength

Part 15.249 (c)
Emissions outside Frequency Band

Part 15.249 (d)
Emissions > 1GHz

Part 15.205
Restricted Bands of Operation

Radiated Electromagnetic Emissions

Test Report #:	BC300381 Run 01	Test Area:	Pinewood Site 1 (3m)	Temperature:	19.2	°C
Test Method:	FCC CFR47 Part 15.249/205	Test Date:	20-May-2004	Relative Humidity:	<26	%
EUT Model #:	M1	EUT Power:	3.6 VDC	Air Pressure:	80	kPa
EUT Serial #:	emc1	Page: 1 of 1				
Manufacturer:	Metron	Level Key				
EUT Description:	AMR Radio	Pk – Peak Nb – Narrow Band				
Notes:	Qp – QuasiPeak Bb – Broad Band					
	Av - Average					

FREQ	LEVEL	CABLE / ANT / PREAMP	FINAL	POL / HGT / AZ	Duty Cycle Correction	Final Corrected	Limit	DELTA
(MHz)	(dBuV)	(dB) (dB/m) (dB)	(dBuV)	(m) (DEG)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
							15.249 (a)(c)(d) 15.205	

The following duty cycle was declared by the manufacturer.

Duty Cycle = active / 100ms. = <2.7%

Averaging method for pulsed signals and calculation in accordance to FCC CFR47 Part 15.35 utilized to calculate field strength emissions.

The testing performed in accordance to FCC CFR47 Part 15.205 (restricted bands of operation) and 15.249 emissions and delta limits were calculated as follows:

Final Corrected Peak Measurement – Duty Cycle Correction Factor* = Final Calculated Emission

The Final Calculated Emission was then compared to the Limits in CFR47 Part 15.209 and 15.249 and the emission/limit delta was calculated.
the DCCF is calculated as follows $20 \times \log_{10}(\text{duty cycle in 100ms})$ "not to exceed 20dB"

DCCF Methods were not utilized in any case of 15.249(d) for the fact that it is a maximum peak specification.

All emissions that fall under the 15.205 restricted band limits will always meet the 15.249(d) limit, even with utilizing the 20dB maximum DCCF.

Part 15.249(a) "Limit = 94dBuV/m", Part 15.249(c) "Limit = 54dBuV/m", Part 15.249(d) "Limit = 74dBuV/m" and 15.205 "Limit = 54dBuV/m"
Respectively

EUT upright on table with antenna on bottom.

919.85	103.3 Pk	2.2 / 23.0 / 28.2	100.3	H / 1.0 / 170.0	-20	80.3	94	10.8
919.85	109.7 Pk	2.2 / 23.0 / 28.2	106.7	V / 1.1 / 305.0	-20	86.7	94	18.1

EUT on its side with the antenna on the upper left side.

919.85	109.6 Pk	2.2 / 23.0 / 28.2	106.6	H / 1.0 / 80.0	-20	68.6	94	10.7
919.85	104.1 Pk	2.2 / 23.0 / 28.2	101.1	V / 1.1 / 341.0	-20	81.1	94	16.0

EUT flat on its back.

919.85	100.4 Pk	2.2 / 23.0 / 28.2	97.4	919.85	-20	77.4	94	18.7
919.85	107.6 Pk	2.2 / 23.0 / 28.2	104.6	919.85	-20	84.6	94	10.6

1839.71	72.9 PK	3.1 / 28.4 / 38.1	66.3	V / 1.2 / 0.0	N/A	68.8	74	7.7
1839.71	60.4 PK	3.1 / 28.4 / 38.1	53.8	H / 1.3 / 0.0	N/A	68.2	74	20.2
2759.57	60.1 Pk	4.3 / 31.2 / 37.3	58.3	V / 1.1 / 338.0	-20	38.3	54	15.7
2759.57	43.5 Pk	4.3 / 31.2 / 37.3	41.7	H / 1.0 / 224.0	-20	21.7	54	32.3
3679.42	52.1 Pk	5.1 / 33.4 / 37.8	52.8	V / 1.3 / 273.0	-20	32.8	54	21.2
3679.42	50.8 Pk	5.1 / 33.4 / 37.8	51.5	H / 1.6 / 200.0	-20	31.5	54	22.5

No other emissions observed through the 10th Harmonic of the Fundamental.

Part 15.209 (a)
Spurious Emissions Field Strength

Radiated Electromagnetic Emissions

Test Report #: **BC300381 Run 02**
 Test Method: FCC Part 15.109 Class B
 EUT Model #: M1
 EUT Serial #: emc1
 Manufacturer: Metron
 EUT Description: AMR Radio
 Notes:

Test Area: Pinewood Site 1 (3m)

Test Date: 19-Dec-2003

EUT Power: 3.6 VDC

Temperature: 19.2 °C

Relative Humidity: <26 %

Air Pressure: 80 kPa

Page: 1 of 3

Level Key	
Pk – Peak	Nb – Narrow Band
Qp – QuasiPeak	Bb – Broad Band
Av - Average	

FREQ	LEVEL	CABLE / ANT / PREAMP	FINAL	POL / HGT / AZ	DELTA1 (dB)	DELTA2 (dB)
(MHz)	(dBuV)	(dB) (dB\m) (dB)	(dBuV/m)	(m) (DEG)	FCC Part 15.109 B	< 1 GHz FCC Part 15
30.00	35.9 Qp	0.6 / 13.2 / 28.3	21.3	V / 1.0 / 0.0	-18.7	N/A
33.61	42.6 Qp	0.6 / 12.8 / 28.3	27.7	V / 1.0 / 0.0	-12.3	N/A
43.06	36.6 Qp	0.7 / 11.7 / 28.3	20.8	V / 1.0 / 0.0	-19.2	N/A
50.39	37.9 Qp	0.8 / 10.6 / 28.3	20.9	V / 1.0 / 0.0	-19.1	N/A
79.77	36.1 Qp	0.9 / 7.6 / 28.2	16.4	V / 1.0 / 0.0	-23.6	N/A
33.61	42.6 Qp	0.6 / 12.8 / 28.3	27.7	V / 1.0 / 90.0	-12.3	N/A

No higher emissions found: 180Deg, Vertical.

No higher emissions found: 270Deg, Vertical.

The following were maximized between 30 and 200 MHz.

33.61	43.4 Qp	0.6 / 12.8 / 28.3	28.5	V / 1.0 / 10.0	-11.5	N/A
30.00	36.6 Qp	0.6 / 13.2 / 28.3	22.1	V / 1.0 / 10.0	-17.9	N/A

No emisisons found: 30-200 MHz Horizontal.

Noise floor.

150.00	29.1 Qp	1.2 / 12.8 / 27.8	15.2	H / 1.5 / 270.0	-28.3	N/A
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No emissions found: 200-1000 MHz Vertical.

Noise floor.

500.00	29.9 Qp	2.4 / 18.6 / 28.4	22.4	V / 1.0 / 270.0	-23.6	N/A
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No emissions found: 200-1000 MHz Horizontal.

Noise floor.

1000.00	27.6 Qp	2.2 / 23.9 / 27.4	26.2	H / 1.5 / 270.0	-27.8	N/A
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No emissions found: 1-4 GHz Vertical.

Noise floor.

2000.00	42.3 Av	3.2 / 28.4 / 37.6	36.3	V / 1.0 / 270.0	N/A	-17.7
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No emissions found: 1-4 GHz Horizontal.

Radiated Electromagnetic Emissions

Test Report #:	BC300381 Run 02		Test Area:	Pinewood Site 1 (3m)		Temperature:	19.2	°C
Test Method:	FCC Part 15.109 Class B		Test Date:	19-Dec-2003		Relative Humidity:	<26	%
EUT Model #:	M1		EUT Power:	3.6 VDC		Air Pressure:	80	kPa
EUT Serial #:	emc1						Page: 2 of 3	
Manufacturer:	Metron						Level Key	
EUT Description:	AMR Radio						Pk – Peak	Nb – Narrow Band
Notes:							Qp – QuasiPeak	Bb – Broad Band
						Av - Average		

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 (dB)	DELTA2 (dB)
4000.00	41.6 Av	5.7 / 33.0 / 37.1	43.2	H / 1.0 / 270.0	N/A	-10.8
Noise floor.						
6000.00	33.4 Av	7.7 / 34.9 / 39.1	36.8	H / 1.0 / 270.0	N/A	-17.2
No emissions found: 4-8 GHz Horizontal.						
Noise floor.						
8000.00	34.2 Av	8.3 / 38.6 / 39.4	41.7	V / 1.0 / 270.0	N/A	-12.3
No emissions found: 4-8 GHz Vertical.						
Noise floor.						
9000.00	43.9 Av	8.5 / 38.5 / 47.8	43.0	V / 1.0 / 270.0	N/A	-11.0
No emissions found: 8-10 GHz Horizontal.						
Noise floor.						
10000.0	45.0 Av	9.5 / 39.3 / 48.2	45.6	H / 1.0 / 270.0	N/A	-8.4

Radiated Electromagnetic Emissions

Test Report #:	BC300381 Run 02		Test Area:	Pinewood Site 1 (3m)		Temperature:	19.2	°C
Test Method:	FCC Part 15.109 Class B		Test Date:	19-Dec-2003		Relative Humidity:	<26	%
EUT Model #:	M1		EUT Power:	3.6 VDC		Air Pressure:	80	kPa
EUT Serial #:	emc1						Page: 3 of 3	
Manufacturer:	Metron						Level Key	
EUT Description:	AMR Radio						Pk – Peak	Nb – Narrow Band
Notes:							Qp – QuasiPeak	Bb – Broad Band
						Av - Average		

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 (dB) FCC Part 15.109 B	DELTA2 (dB) < 1 GHz FCC Part 15
***** Measurement Summary *****						
10000.0	45.0 Av	9.5 / 39.3 / 48.2	45.6	H / 1.0 / 270.0	N/A	-8.4
4000.00	41.6 Av	5.7 / 33.0 / 37.1	43.2	H / 1.0 / 270.0	N/A	-10.8
9000.00	43.9 Av	8.5 / 38.5 / 47.8	43.0	V / 1.0 / 270.0	N/A	-11.0
33.61	43.4 Qp	0.6 / 12.8 / 28.3	28.5	V / 1.0 / 10.0	-11.5	N/A
8000.00	34.2 Av	8.3 / 38.6 / 39.4	41.7	V / 1.0 / 270.0	N/A	-12.3
6000.00	33.4 Av	7.7 / 34.9 / 39.1	36.8	H / 1.0 / 270.0	N/A	-17.2
2000.00	42.3 Av	3.2 / 28.4 / 37.6	36.3	V / 1.0 / 270.0	N/A	-17.7
30.00	36.6 Qp	0.6 / 13.2 / 28.3	22.1	V / 1.0 / 10.0	-17.9	N/A
50.39	37.9 Qp	0.8 / 10.6 / 28.3	20.9	V / 1.0 / 0.0	-19.1	N/A
43.06	36.6 Qp	0.7 / 11.7 / 28.3	20.8	V / 1.0 / 0.0	-19.2	N/A
79.77	36.1 Qp	0.9 / 7.6 / 28.2	16.4	V / 1.0 / 0.0	-23.6	N/A
500.00	29.9 Qp	2.4 / 18.6 / 28.4	22.4	V / 1.0 / 270.0	-23.6	N/A
1000.00	27.6 Qp	2.2 / 23.9 / 27.4	26.2	H / 1.5 / 270.0	-27.8	N/A
150.00	29.1 Qp	1.2 / 12.8 / 27.8	15.2	H / 1.5 / 270.0	-28.3	N/A

Project Report

Begin Date: 12/19/2003 **End Date:** 5/20/2003

Technician Mike Spataro

Project: BC300381

Capital Asset ID	Manufacturer	Model #	Serial #	Description	Test Performed	Service Type	Service Date	Service Due
3	Hewlett-Packard	85650A	2811A01300	Q.P Adapter	R Radiated Emissions	For Cal	9/3/2003	9/3/2004
106	TENSOR	4105	2020	Ridged Guide Antenna 1-18GHz	R Radiated Emissions	For Cal	7/11/2003	7/11/2004
135	EMCO	3146	9402-3775	Log Periodic Antenna (200-1000MHz)	R Radiated Emissions	For Cal	9/10/2003	9/10/2004
189	EMCO	3109	9801-3142	Bicon Antenna 30 - 300 MHz	R Radiated Emissions	For Cal	9/9/2003	9/9/2004
202	Avantek	AWT-18037	1002	RF Pre-Amplifier (8-18 GHz)	R Radiated Emissions	For Ver	4/23/2004	4/23/2005
203	Avantek	AFT97-8434-10F	1007	RF Pre-Amplifier (4-8 GHz)	R Radiated Emissions	For Ver	4/23/2004	4/23/2005
209	Hewlett-Packard	85662A	2403A08749	Display Section	R Radiated Emissions	For Cal	11/4/2003	11/4/2004
210	Hewlett-Packard	8566B	2410A00154	Spectrum Analyzer (dc-22 GHz)	R Radiated Emissions	For Cal	11/4/2003	11/4/2004
248	Hewlett-Packard	8447F	3113A05545	9 kHz- 1.3GHz Pre Amp	R Radiated Emissions	For Ver	6/5/2003	6/5/2004

Friday, March 19, 2004

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Appendix B

Test Plan
and
Constructional Data Form

Appendix C

Measurement Protocol

And

Test Procedures

MEASUREMENT PROTOCOL

GENERAL INFORMATION

Test Methodology

Conducted and radiated emission testing is performed according to the procedures in ANSI C63.4 & CNS13438.

Justification

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into its characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

CONDUCTED EMISSIONS

The final level, expressed in dB μ V, is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the applicable limit.

To convert between dB μ V and μ V, the following conversions apply:

- dB μ V = 20(log μ V)
- μ V = Inverse log(dB μ V/20)

RADIATED EMISSIONS

The final level, expressed in dB μ V/m, is arrived at by taking the reading from the spectrum analyzer (Level dB μ V) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has the applicable limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets in Attachment B. The amplifier gain is automatically accounted for by using an analyzer offset.

Example: At a Test Frequency of 30 MHz, with a peak reading on the spectrum analyzer or measuring receiver of 14 dBmV:

Measured Level (dB μ V)	+ (dB)	Transducer & Cable Loss factor (dB)	=	Corrected Reading (dB μ V/m)	Specification Limit (dB μ V/m)	-	Corrected Reading (dB μ V/m)	=	Delta Specification -11.1
14.0		14.9		28.9	40.0		28.9		

DETAILS OF TEST PROCEDURES

General Standard Information

The test methods used comply with 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."

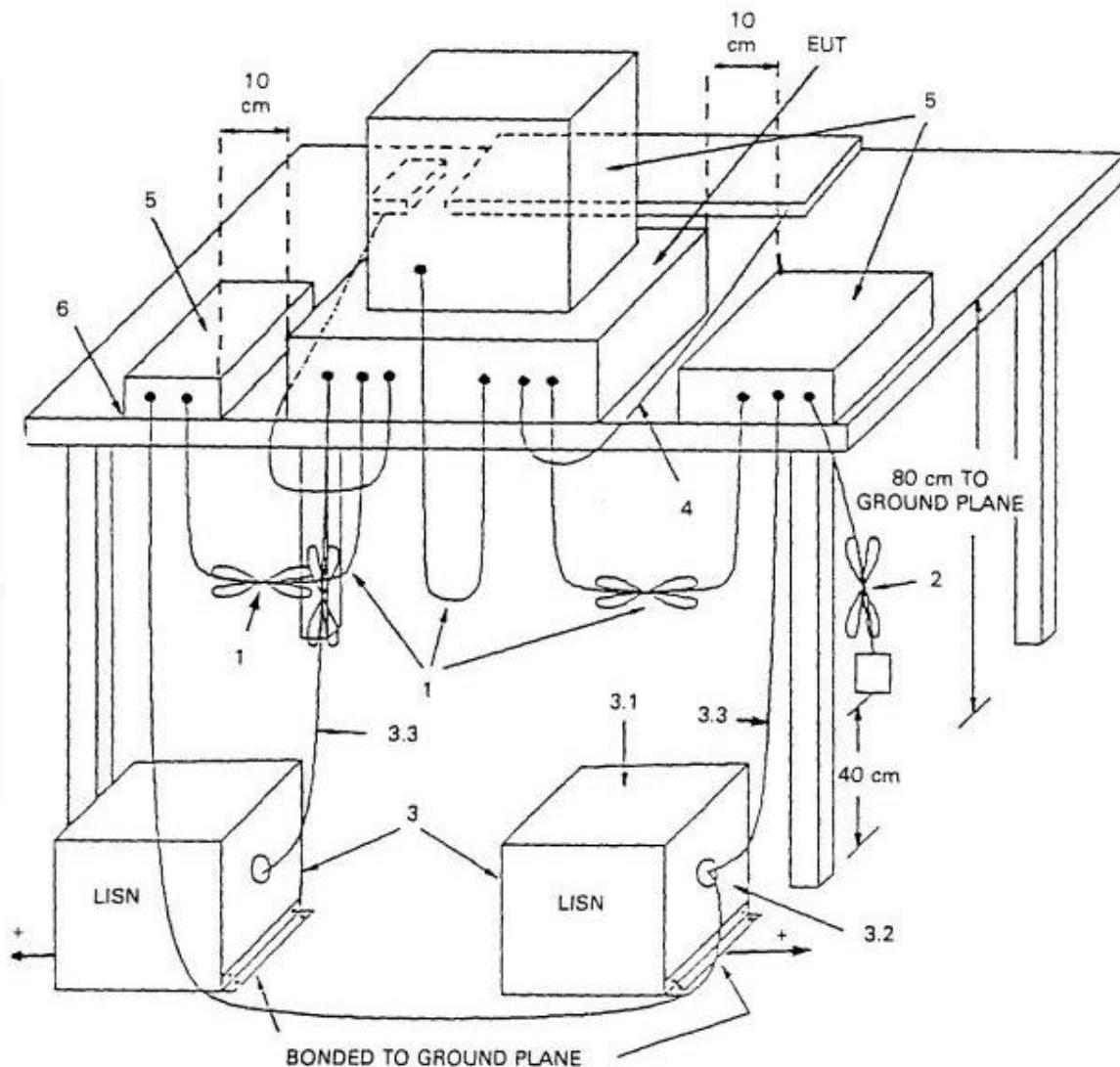
Conducted Emissions

Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EUT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection, and a Line Impedance Stabilization Network (LISN), with $50\ \Omega/50\ \mu\text{H}$ (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeters above the floor and is positioned 40 centimeters from the vertical ground plane (wall) of the screen room. In some cases, a pre-scan using a spectrum analyzer is initially performed on the units comprising the system under test to locate the highest emissions. If the minimum passing margin appears to be less than 20 dB with a peak mode measurement, the emissions are re-measured using a tuned receiver or spectrum analyzer with quasi-peak and average detection and recorded on the data sheets.

Radiated Emissions

Radiated emissions from the EUT are measured in the frequency range of 30 to 22GHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and peak detection. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 3, 10 or 30 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees.

Conducted Emissions Diagram:



Radiated Emissions Diagram:

