

## **EMC QUALIFICATION TEST REPORT**

**FISHER-PRICE, INC  
STAR STATION, H6723**

TESTED TO CONFORM WITH:

☒ **Emissions Standards**

**for**

**INFORMATION TECHNOLOGY EQUIPMENT (ITE)**

**TEST REPORT NUMBER:** 050429-893

**DATE OF ISSUE:** MAY 17, 2005

**DATE OF TEST COMPLETION:** APRIL 30, 2005

**MANUFACTURER'S ADDRESS:** 636 GIRARD AVENUE  
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Approved by:



Laboratory Director

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Criterion Technology reports apply only to the specific Equipment Under Test (EUT) sample(s) tested under the test conditions described in this report. If the manufacturer intends to use this report as a document demonstrating compliance of this model, additional models of this product must have electrical and mechanical characteristics identical to the device tested for this report. Criterion Technology shall have no liability for any deductions, inferences, or generalizations drawn by the client or others from Criterion Technology issued reports.

Total liability is limited to the amount invoiced for the testing of this EUT and the contents of this report are not warranted.

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Any questions regarding this report should be directed to:

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12/CIS22 - IEC/CISPR22 (1997) and En 55022 (1998)  
12/CIS22a - IEC/CISPR22 (1993), Amendment 1:1995 & Amendment 2: 1996  
12/CIS22b - CNS13438 (1997)  
12/EM02a - IEC 61000-3-2, Edition 2.1 (2001-10) and EN 61000-3-2 (2000)  
12/EM03 - EN 61000-3-3 (1995) and IEC 61000-3-3 (1995)  
12/F01 - ANSI C63.4 (2001) - cited in FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a - Conducted Emissions, Power Lines, 150 kHz to 30 MHz  
12/F01b - Radiated Emissions  
12/T51 - AS/NZS 3548  
12/I01 - IEC 61000-4-2 (1995) and Amendment 1 (1998)  
12/I02 - IEC 61000-4-3 (1995) and Amendment 1 (1998)  
12/I03 - IEC 61000-4-4 (1995)  
12/I04 - IEC 61000-4-5 (1995)  
12/I05 - IEC 61000-4-6 (1996)  
12/I06 - IEC 61000-4-8 (1993)  
12/I07 - IEC 61000-4-11 (1994)

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**ALL CRITERION TECHNOLOGY INSTRUMENTATION AND ACCESSORIES USED TO TEST PRODUCTS FOR COMPLIANCE TO THE INDICATED STANDARDS ARE CALIBRATED REGULARLY IN ACCORDANCE WITH ISO 9001, ISO GUIDE 25, ANSI/NCSL Z540-I-1994 AND ARE TRACEABLE TO NATIONAL STANDARDS.**

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## EMC QUALIFICATION TEST REPORT

### STAR STATION, H6723

#### 1.0 EXECUTIVE SUMMARY

##### 1.1 PURPOSE

The purpose of this report is to present EMC test data and demonstrate conformity to the requirements of the prescribed standards for Emissions and/or Immunity.

##### 1.2 CONFORMITY

The test article was tested to the standards listed in Table I with the indicated conformity status. All test methods were performed in accordance to with the standards listed.

TABLE I. EMISSIONS CONFORMITY SUMMARY

TEST TYPE	COMPLIANCE STANDARD	TESTING TECHNIQUE	TEST DESCRIPTION	PRODUCT CLASSIFICATION	CONFORMITY STATUS
EMISSIONS	<u>FCC Part 15.109</u>	<input checked="" type="checkbox"/> IEC/EN 55022	Unintentional Radiated Emissions	Class B	<b>PASSED</b>
EMISSIONS	<u>FCC Part 15.249</u>	<input checked="" type="checkbox"/> IEC/EN 55022	Intentional Radiated Emissions		<b>PASSED</b>

##### 1.3 EQUIPMENT UNDER TEST (EUT)

EUT NAME: START STATION  
EUT MODEL/PART NUMBER(S): H6723  
EUT SERIAL NUMBER(S): NONE

## 2.0 EMISSIONS TEST STANDARDS

FCC Part 15, Subpart B

Class B

### 2.1 ☒ UNINTENTIONAL RADIATED EMISSIONS – 30 MHZ TO 1000 MHZ

Measurements for *Radiated Emissions* were performed over the frequency range of 30 MHz to 1000 MHz in the horizontal and vertical antenna polarities to the requirements of:

FCC Part 15

Class B

#### Testing Conditions

Date of Test: April 30, 2005  
Temperature: 17°C  
Relative Humidity: 23%  
Test Voltage: 3 volts (batteries)  
Test Operator: lws

#### Test Location

**Criterion Technology Open Area Test Site**

#### Test Distance

Antenna Distance: 3 meter(s)      **Final Measurement(s)**

#### Test Equipment

☒ Hewlett-Packard Spectrum Analyzer, HP 8566B      ☒ Hewlett-Packard Quasi-Peak Adapter, HP 85650A  
☐ Hewlett-Packard Tracking Generator, HP 85645A  
☐ Rohde and Schwarz Receiver, ESHS-30      ☒ Rohde and Schwarz Receiver, ESVS-30  
☒ Mini Circuits Pre-Amp #2      ☐ Veratech Pre-Amp #3  
☒ Chase BiLog Antenna, Model 1121      ☐ Antenna Research, Horn Antenna, Model DRG118/A  
☐ EMCO BiConnical Antenna, Model 3108      ☐ EMCO Log Periodic Antenna, Model 3146

#### Test Results of Radiated Emissions

Test Status: PASSED

Frequency Range: 30 MHz to 1000 MHz

Minimum Margin to Limit: **-6.18** dB at **905.8779** MHz

#### Remarks

See: **APPENDIX A** for EUT Photographs      **APPENDIX B** for Data Sheets  
**APPENDIX D** for Test Equipment Calibration Status

**2.2**    ☒ **INTENTIONAL RADIATOR**

Measurements for *Intentional Radiated Emissions* were performed over the frequency range of 900 MHz to 9.5 GHz and horizontal and vertical antenna polarities to the requirements of:

**FCC Part 15.249**Testing Conditions

Date of Test:            April 30, 2005  
Temperature:            17°C  
Relative Humidity:      23%  
Test Voltage:            3 volts DC (batteries)  
Test Operator:           lws

Test Location**Criterion Technology Open Area Test Site**Test Distance

Antenna Distance: **3 meter(s)**                      **Final Measurement(s)**

Test Equipment

- ☒ Hewlett-Packard Spectrum Analyzer, HP 8566B                      ☒ Hewlett-Packard Quasi-Peak Adapter, HP 85650A
- ☐ Hewlett-Packard Tracking Generator, HP 85645A
- ☐ Rohde and Schwarz Receiver, ESHS-30                      ☒ Rohde and Schwarz Receiver, ESVS-30
- ☒ Mini Circuits Pre-Amp #2    ☒ Veratech Pre-Amp #3
- ☒ Chase BiLog Antenna, Model 1121    ☒ Antenna Research, Horn Antenna, Model DRG118/A
- ☒ EMCO BiConnical Antenna, Model 3108                      ☐ EMCO Log Periodic Antenna, Model 3146
- ☐ EMCO Active Loop, 6502    ☐ EMCO Horn, 3160-08

Test Results of Radiated Emissions

Test Status: **PASSED**                      Frequency Range: 1 GHz to 10 GHz

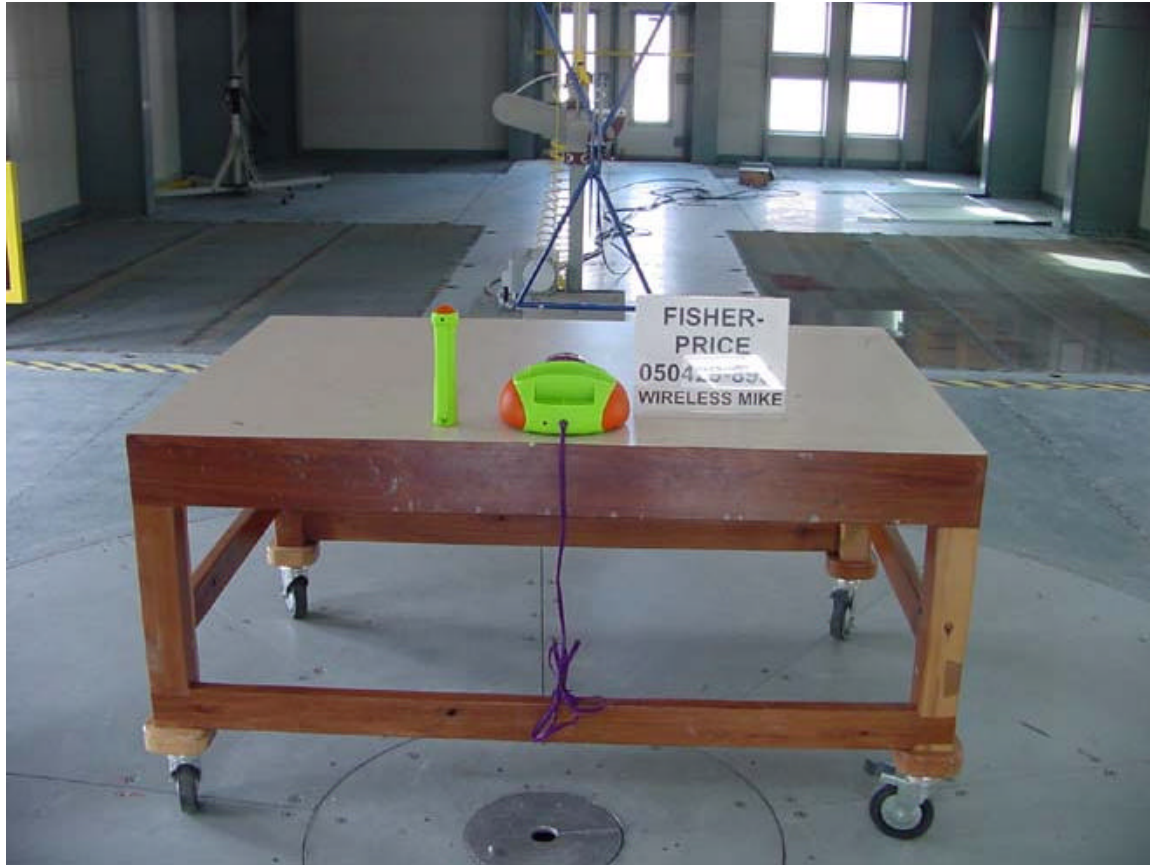
Minimum Margin to Limit:    **-1.86**    dB at    **1832.9119**    MHz

Remarks

See: **APPENDIX A** for EUT Photographs                      **APPENDIX B** for Data Sheets  
      **APPENDIX D** for Test Equipment Calibration Status

### 3.0 APPENDIX A: EUT PHOTOGRAPHS

#### 3.1 UNINTENTIONAL RADIATED EMISSIONS



### 3.2 INTENTIONAL RADIATOR





### 3.3 INTENTIONAL RADIATOR



## 4.0 APPENDIX B: DATA SHEETS

### 4.1 EMISSIONS PLOT – UNINTENTIONAL RADIATOR - 30 MHZ TO 1 GHZ

Criterion Technology

EUT: Star Station, H6723

Manufacturer: Fisher-Price, Inc.

Tester: lws

EUT Information: Battery Powered

Test Information: 3m, FCC Part 15 Class B

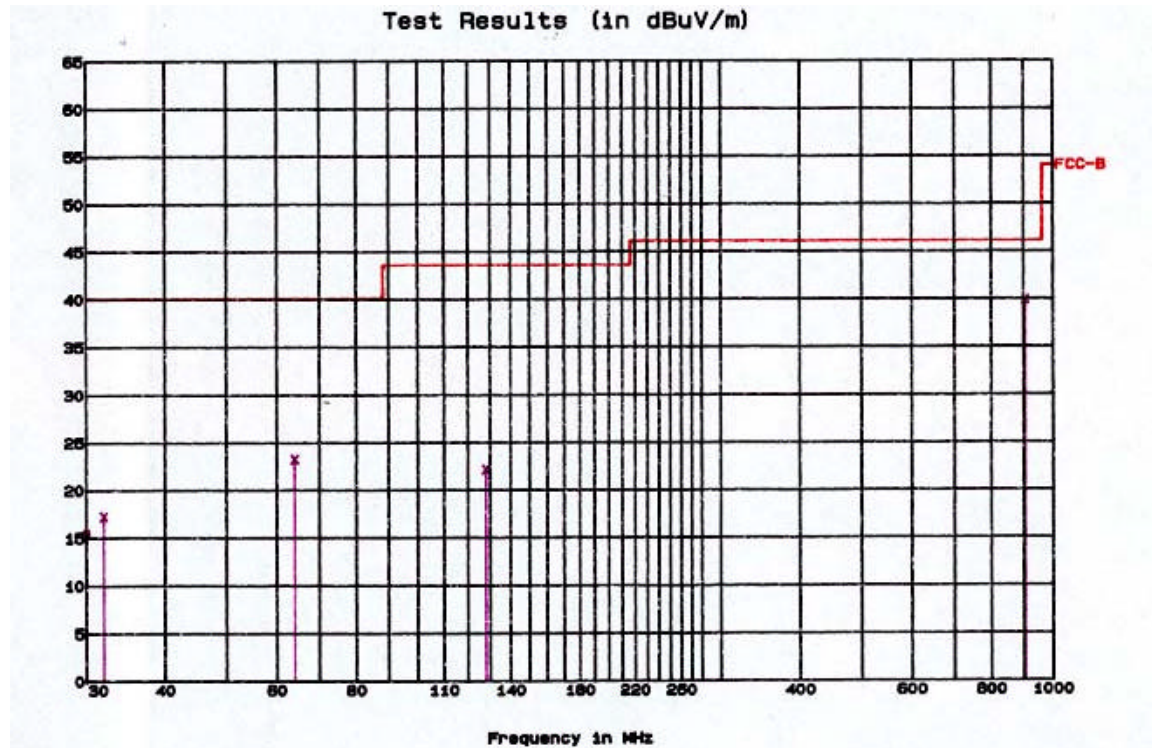
Test Cond: Temp: 17°C

Date: April 30, 2005

S/N: None

SpiD: 050429-893

Humidity: 23%



**4.2 EMISSIONS TABLE – UNINTENTIONAL RADIATOR - 30 MHZ TO 1 GHZ****Notes:**

The third column below contains alpha characters which pertain to the type of measurements made. The following are the definitions for those characters: q = Quasi Peak, m = Maximized (cable, rotation and antenna height), s = scanned but no data taken, and a = average. For the first character in column four, a '-' indicates that value is below the limit while an '\*' indicates that value is above the limit

If the list is sorted using "I-sort", then quasi-peak and average levels are weighted higher than peak levels and are moved to the front of the scan list.

The following keys help to better understand the data:

TT: Turntable position in degrees

Hght: Height of antenna in centimeters

Az: Azimuth, V = Vertical, H= Horizontal

Minimum Margin to Limit: **-6.18** dB at **905.8779** MHz

Criterion Technology Sat April 30 2005

EUT: Star Station, H6723

Manufacturer: Fisher-Price, Inc.

Tester: lws Special ID: 050429-893

EUT Information: Battery Powered

Test information: 3m, FCC Part 15, Class B

**Table 1: Scan List, sorted by margin to limit FCC-B, -25.0dB filter**

<u>Freq. MHz</u>	<u>Value</u>	<u>Sts</u>	<u>FCC-B</u>	<u>TT</u>	<u>Hght</u>	<u>Az</u>	<u>Comment</u>
905.8779	39.84	m	-6.18	0	113	V	.
64.0020	23.20	m	-16.80	136	164	V	32 M clk
128.0040	22.10	m	-21.42	147	164	V	32 M clk
32.0010	17.21	m	-22.79	122	113	V	32 M clk
30.0034	15.43	q	-24.57	0	113	V	.

**Table 2: Scan List for FCC-B, sorted by Frequency, -25.0dB filter**

<u>Freq. MHz</u>	<u>Value</u>	<u>Sts</u>	<u>FCC-B</u>	<u>TT</u>	<u>Hght</u>	<u>Az</u>	<u>Comment</u>
30.0034	15.43	q	-24.57	0	113	V	.
32.0010	17.21	m	-22.79	122	113	V	32 M clk
64.0020	23.20	m	-16.80	136	164	V	32 M clk
128.0040	22.10	m	-21.42	147	164	V	32 M clk
905.8779	39.84	m	-6.18	0	113	V	.

**Table 3: Complete Scan List Sorted by Frequency**

Freq, MHz	I-val	Final	Sts	TT	Hght	Az	Time	Comment
30.0034	20.24	15.43	q	0	113	V	Sat Apr 30 10:27:15 2005	.
32.0010	22.89	17.21	m	122	113	V	Sat Apr 30 10:31:10 2005	32 M clk
64.0020	39.72	23.20	m	136	164	V	Sat Apr 30 10:33:18 2005	32 M clk
128.0040	32.25	22.10	m	147	164	V	Sat Apr 30 10:39:45 2005	32 M clk
160.0050	18.86	7.35	q	0	113	V	Sat Apr 30 10:24:18 2005	32 M clk
192.0060	19.66	6.90	q	169	164	V	Sat Apr 30 10:41:59 2005	32 M clk
224.0070	18.59	7.51	q	1	150	V	Sat Apr 30 19:58:27 2005	32 M clk
256.0080	18.60	10.20	q	1	150	V	Sat Apr 30 19:58:40 2005	32 M clk
288.0090	18.77	10.54	q	181	150	V	Sat Apr 30 20:01:04 2005	32 M clk

## 4.3 INTENTIONAL RADIATOR

Harmonic #	Frequency (MHz)	F val (dbuV/m)	F val including 9.89 db pad	FCC part 15.249 limit (dbuV/m)	Margin to Limit (db)	Elev	Pol	Comments
Fundamental	916.4709	70.23	--	74	-3.77	109	V	
2 Fo	1832.9119	42.25	52.14	54	-1.86	134	V	
3 Fo	2749.3580	31.60	41.49	54	-12.51	135	V	
4 Fo	3665.8091	33.19	43.08	54	-10.92	136	V	
5 Fo	4582.2553	33.01	42.90	54	-11.1	117	V	Noise floor
6 Fo	5498.7204	34.89	44.78	54	-9.22	180	V	Noise floor
7 Fo	6415.1654	51.78	***	54	-2.22	105	V	
8 Fo	7331.6344	48.61	***	54	-5.39	107	V	Noise floor
9 Fo	8248.0957	45.52	***	54	-8.48	100	V	Noise floor
10 Fo	9164.5620	47.77	***	54	-6.23	100	V	Noise Floor

\*\*\* Note: High Pass filter used – included in transducer factor used to derive F val

**5.0 APPENDIX C: PRODUCT INFORMATION FORM****CRITERION TECHNOLOGY PRODUCT INFORMATION FORM****General Information****Date:** 05/10/05Company Name: Fisher-Price IncCompany Address: 636 Girard Avenue, East Aurora, New York, 14052**Contacts:**Compliance Engineer: Augusto Silva Phone: 716-687-3382 Email: Augusto.Silva@fisher-Price.comDesign Engineer: Peter vom Scheidt Phone: 716-687-3380 Email: Peter.Vomscheidt@fisherPrice.com**Test Description**De-Bug \_\_\_\_\_ Formal (Initial) X \_\_\_\_\_ Formal (Re-Verification) \_\_\_\_\_**Market Information (Check all that Apply)**USA X Canada X Euro. Union \_\_\_\_\_ Taiwan \_\_\_\_\_ Japan \_\_\_\_\_ New Zealand \_\_\_\_\_ Australia \_\_\_\_\_

Other \_\_\_\_\_

**Product Information**Name: Star StationModel Number: H6723Serial Number: NoneProduct Dimensions: See SampleWeight: See Sample**Product Power Source:****Battery**Type TX 3XAAA, RX 6XC**AC Supply**

Input Voltage Range(s) \_\_\_\_\_

Phases \_\_\_\_\_ Delta \_\_\_\_\_ Wye \_\_\_\_\_

Current \_\_\_\_\_

Frequency \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model Number \_\_\_\_\_

**Topology**Linear X \_\_\_\_\_ Switching Mode \_\_\_\_\_ Switching Frequency \_\_\_\_\_**Support Equipment (if used):****CPU:**

Manufacturer \_\_\_\_\_

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

**Monitor:**

Manufacturer \_\_\_\_\_

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

**Keyboard:**

Manufacturer \_\_\_\_\_

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

**Mouse:**

Manufacturer \_\_\_\_\_

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

I/O Cables – Manufacturer, P/N, Length :

Serial Port \_\_\_\_\_

Parallel Port \_\_\_\_\_

SCSI Port \_\_\_\_\_

Other video cables permanently attached \_\_\_\_\_

**Operation Software:**

Name \_\_\_\_\_ Version Number \_\_\_\_\_

**Operating Modes: (Please Include Cycle Time)**Continuous Transmission \_\_\_\_\_

Time necessary for EUT to be exercised and able to fully respond: \_\_\_\_\_ seconds.

**Operation Pass/Fail Criteria:**

\_\_\_\_\_

**Test Type – Emissions (Please check all that apply):****Information Technology Equipment**

Class A \_\_\_\_\_

Class B \_\_\_\_\_

Oscillator/Clock Frequencies (MHz) \_\_\_\_\_

**Industrial, Scientific, Medical Equipment**

Class A \_\_\_\_\_

Class B \_\_\_\_\_

Oscillator/Clock Frequencies (MHz) \_\_\_\_\_

**Unintentional Radiator**

Class A \_\_\_\_\_

Class B \_\_\_\_\_

Oscillator/Clock Frequencies (MHz) \_\_\_\_\_

**Receiver**

Type (Regen., Superhet., Direct Conv., Homodyne) Superhet \_\_\_\_\_

Local Oscillator Frequencies 905.8Mhz \_\_\_\_\_

Frequency Range 916.5Mhz +- 100Khz \_\_\_\_\_**Intentional Radiator**

Fundamental Frequency Range 916.5 Mhz fundamental SAW oscillator \_\_\_\_\_

Local Oscillator Frequencies \_\_\_\_\_

Power Output (to antenna) 0 dBm \_\_\_\_\_

Integral Antenna (Yes/No) Yes \_\_\_\_\_

Modulation Type (AM, CM, Pulse, Spread Spectrum) FM +-25kHz \_\_\_\_\_

Control Circuits (Microprocessor/Micro-controller) \_\_\_\_\_

Oscillator/Clock Frequencies (MHz) \_\_\_\_\_

**IEC 61000-3-2, Harmonics**Max. Steady State Power Consumed by Product: 100mW Watts**IEC 61000-3-3, Flicker Meter**



**6.0 APPENDIX D: TEST EQUIPMENT AND CALIBRATION STATUS**

Manufacturer	Name/Description	Model Number	Serial Number	Cal. Due Date
Hewlett Packard	Spectrum Analyzer	HP 8566B	2421A00527	6/1/2005
Chase	Bilog 30 - 1000 MHz	CB6111	1121	5/5/2005
Rohde/ Schwarz	VHF/UHF Receiver	ESVS-30	8634221014	6/19/2005
FCC	CDN	FCC-801-M3-25	9714	7/10/2005
FCC	EM Clamp	F2031	309	7/19/2005
Tegam	Current Probe	925236-1	12588	5/20/2005
Veratech	Preamplifier (AMP2)		N/A	5/20/2005
Hewlett Packard	Signal Generator	HP 8648D	3642000145	8/13/2005
Dickson	Temperature/ RH Recorder	THDX	5300245	8/15/2005
Rohde/ Schwarz	LISN	ESH2-Z5	828739-001	6/18/2005
Amplifier Research	Power Amplifier	150A100A	20183	6/25/2005
Amplifier Research	Power Amplifier	100W1000M1	20214	6/25/2005
Rohde/ Schwarz	HF Receiver	ESHS-30	826003/011	6/29/2005
Amplifier Research	Directional Coupler	DC2600	302981	7/22/2005
Haefely Trench	EFT Tester	PEFT Junior	583-333-51	10/12/2005
Hewlett Packard	Tracking Generator	HP85645A	3210A00124	11/9/2005
Heise	Barometer	710A	S7-15256	2/6/2006
Hewlett Packard	Pulse Generator	HP 8116A	2901G09493	2/13/2006
Amplifier Research	E-Field Probe	FP2000	19682	4/12/2006
Antenna Research	1-18 GHz Horn	DRG118/A	1057	4/13/2006
EMCO	Active Loop	6502	2626	4/14/2006
Amplifier Research	E-Field Probe	FP2080	20236	4/16/2006
Calorina Instruments	AC Power Source Pacs-1	5001IX-CTS-411	55637/ 72242	2/11/2007
EMCO	Horn	3160-08	1147	5/9/2007

## 7.0 APPENDIX E: TEST DIRECTIVES, STANDARDS AND METHODS

### 7.1 EUROPEAN DIRECTIVES, STANDARDS AND METHODS

89/336/EEC: Council Directive of 03 May 1989 on the Approximation of the Laws of the Member States Relating to Electromagnetic Compatibility, OJEC No. L 139/19-26, Aug 1993.

EN 50081-1 (CENELEC): EMC - Generic Emission Standard, Part 1: Residential, Commercial and Light Industry, Revised 2001.

EN61000-6-4 (CENELEC): EMC - Generic Emission Standard, Part 6-4: Industrial Environment, 23 October 2001.

BS DD ENV 50204 (CENELEC): Testing and Measurement Techniques; Radiated Electromagnetic Field from Digital Radio Telephones - Immunity Test, 1996.

EN 55011 (CENELEC): ISM Radio-Frequency Equipment Radio Disturbance Characteristics - Limits and Methods of Measurement, with Amendments 1 & 2, 2003.

EN 55014-1 (CENELEC): Part 1. Electromagnetic Compatibility Requirements for Household Appliances, Electric Tools and Similar Apparatus - Part 1. Emission - Product Family Standard, 2001.

EN 55022 (CENELEC): ITE - Radio-Frequency Equipment Radio Disturbance Characteristics - Limits and Methods of Measurement, 2003.

EN 55024 (CENELEC): ITE - Immunity Characteristics - Limits and Methods of Measurement, 2003.

EN 60601-1-2 (CENELEC): Medical Electrical Equipment. Part 1. General Requirements for Safety - Section 1.2. Collateral Standard: Electromagnetic Compatibility - Requirements and Tests, 2002.

EN 61000-3-2 (CENELEC): EMC - Part 2. Limits for Harmonic Current Emissions (Equipment Input Current  $\leq 16$  A per phase), with Amendment 14, 2000.

EN 61000-3-3 (CENELEC): EMC - Part 3. Limitation of Voltage Fluctuation and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current  $\leq 16$  A, 1998.

EN 61000-4-7 (CENELEC): EMC – Part 4-7 Testing and measurement techniques – General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto: 2002

EN 61000-4-2 (CENELEC): EMC - Part 4. Testing and Measurement Techniques; Section 2. Electrostatic Discharge Immunity Test, with Amendments 1 & 2, 2001.

EN 61000-4-3 (CENELEC): EMC - Part 4. Testing and Measurement Techniques; Section 3. Radiated, Radio-Frequency, Electromagnetic Field Immunity, with Amendments 1 & 2, 2005.

EN 61000-4-4 (CENELEC): EMC - Part 4. Testing and Measurement Techniques; Section 4. Electrical Fast Transient/Burst Immunity Test, 2005.

EN 61000-4-5 (CENELEC): EMC - Part 4. Testing and Measurement Techniques; Section 5. Surge Immunity Test, with Amendments 1 & 2, 2001.

EN 61000-4-6 (CENELEC): EMC - Part 4. Testing and Measurement Techniques; Section 6. Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields, 2005.

EN 61000-4-8 (CENELEC): EMC - Part 4. Testing and Measurement Techniques; Section 8. Power Frequency Magnetic Field Immunity Test, 1994.

EN 61000-4-11 (CENELEC): EMC - Part 4. Testing and Measurement Techniques; Section 11. Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests, 1999

IEC 61000-6-1: EMC – Part 6-1. Generic standards – Immunity for residential, commercial and light-industrial environments, 9 March 2005.

EN 61000-6-2: EMC- Part 6-2. Generic Standard-Immunity for Industrial Environments, October 2001

EN 61326 (CENELEC): Electrical Equipment for Measurement, Control and Laboratory Use - EMC Requirements, 1998.

7.2 47 CFR FCC PART 15 RADIO FREQUENCY DEVICES: OCT 2003

Subpart A General.

Subpart B Unintentional Radiators.

Subpart C Intentional Radiators.

Subpart D Unlicensed Personal Communications Service Devices.

7.3 47 CFR FCC PART 22 PUBLIC MOBILE SERVICES: OCT 2003

7.4 47 CFR FCC PART 24 PERSONAL COMMUNICATIONS SERVICES: OCT 2003

7.5 JAPAN

VCCI V-3

7.6 CANADA

ICES-001: Interference-Causing Equipment Standard - ISM RF Generators, 1998.

ICES-003: Interference-Causing Equipment Standard - Digital Apparatus, 2004.

7.7 AUSTRALIA/NEW ZEALAND

SAA AS/NZ 3548: Limits and Methods of Measurement of Radio Disturbance Characteristics of ITE, 1997.

7.8 CHINA

CNS13438, 1997.

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