

Test of: Spectralink 8742 Basic IP Telephone

To: FCC CFR 47 Part 15 Subpart B and
ICES-003

Test Report Serial No.: SPEC36-U2 Rev A



Report

from



Test of Spectralink 8742 Basic IP Telephone

To FCC CFR 47 Part 15 Subpart B and ICES-003

Test Report Serial No.: SPEC36-U2 Rev A

This report supersedes NONE

Manufacturer: Spectralink Corporation
2560 55th Street,
Boulder, Colorado, 80301
USA

Product Function: Wireless IP Telephone

Copy No: pdf **Issue Date:** 9th April 2015

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.

575 Boulder Court
Pleasanton, CA 94566 USA
Phone: +1 (925) 462-0304
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TESTING CERT #2381.01

MiCOM Labs is an ISO 17025 Accredited Testing Laboratory



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ACCREDITATION, LISTINGS & RECOGNITION

1. TESTING ACCREDITATION

MiCOM Labs, Inc. an accredited laboratory complies with the international standard ISO/IEC 17025. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-01.pdf>



American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-LAF Communiqué dated 8 January 2009).

Presented this 28th day of February 2014.



President & CEO
For the Accreditation Council
Certificate Number 2381.01
Valid to November 30, 2015



For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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2. RECOGNITION

MiCOM Labs, Inc has widely recognized Electrical testing capabilities. Our international recognition includes Conformity Assessment Body designation by APEC MRA** countries. Our test reports are widely accepted for global type approvals.

Country	Recognition Body	Status	Phase	Identification No.
model	Federal Communications Commission (FCC)	TCB	-	US0159 Listing #: 102167
Canada	Industry Canada (IC)	FCB	APEC MRA 2	US0159 Listing #: 4143A-2 4143A-3
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	APEC MRA 2	RCB 210
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA	NB 2280
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)	CAB	APEC MRA 1	
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)	CAB	APEC MRA 1	
Singapore	Infocomm Development Authority (IDA)	CAB	APEC MRA 1	
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)	CAB	APEC MRA 1	
Vietnam	Ministry of Communication (MIC)	CAB	APEC MRA 1	

**APEC MRA – Asia Pacific Economic Community Mutual Recognition Agreement.

Is a recognition agreement under which test lab is accredited to regulatory standards of the APEC member countries.

Phase I - recognition for product testing

Phase II – recognition for both product testing and certification

N/A – Not Applicable

**EU MRA – European Union Mutual Recognition Agreement.

Is a recognition agreement under which test lab is accredited to regulatory standards of the EU member countries.

**NB – Notified Body

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3. PRODUCT CERTIFICATION

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard ISO/IEC 17065. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-02.pdf>



American Association for Laboratory Accreditation

Accredited Product Certification Body

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence as a

Product Certification Body

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC 17065:2012 - *Requirements for bodies certifying products, processes and services*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.

Presented this 28th day of February 2014.



President & CEO
For the Accreditation Council
Certificate Number 2381.02
Valid to November 30, 2015

For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation

United States of America – Telecommunication Certification Body (TCB)

TCB Identifier – US0159

Industry Canada – Certification Body

CAB Identifier – US0159

Europe – Notified Body

Notified Body Identifier - 2280

Japan – Recognized Certification Body (RCB)

RCB Identifier – 210

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DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft		
Rev A	9 th April 2015	Initial release.

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1. TEST RESULT CERTIFICATE

Manufacturer:	Spectralink Corporation 2560 55th Street, Boulder, Colorado, 80301 USA	Tested By:	MiCOM Labs, Inc. 575 Boulder Court, Pleasanton California, 94566, USA
EUT	Wireless IP Telephone	Tel:	+1 925 462 0304
Model:	8742	Fax:	+1 925 462 0306
S/N	651458732		
Test Date(s):	17th March, 2015	Website:	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC CFR 47 Part 15 Subpart B and ICES-003.	EQUIPMENT COMPLIES

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Notes:

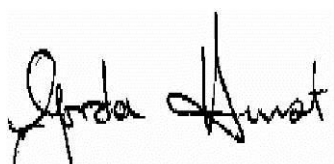
1. This document reports conditions under which testing was conducted and the results of testing performed.
2. Details of test methods used have been recorded and kept on file by the laboratory.
3. Test results apply only to the item(s) tested.

Approved & Released for MiCOM Labs, Inc. by:





Graeme Grieve
Quality Manager MiCOM Labs, Inc.



Gordon Hurst
President & CEO MiCOM Labs, Inc.

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2. REFERENCES AND MEASUREMENT UNCERTAINTY

2.1. Normative References

REF.	PUBLICATION	YEAR	TITLE
i.	FCC 47 CFR Part 15, Subpart B	2012	Title 47 CFR Part 15, SubPart B; Unintentional Radiators
ii.	ICES-003	2012	Information Technology Equipment (ITE) – Limits and methods of measurement.
iii.	RSS-GEN	2010	Radio Standards Specification-Gen, Issue 3, General Requirements and Information for the Certification of Radiocommunication Equipment
iv.	ANSI C63.4	2014	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
v.	CISPR 22	2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
vi.	M 3003	Edition 3 Nov Dec. 2012	Expression of Uncertainty and Confidence in Measurements
vii.	LAB34	Edition 1 Aug 2002	The expression of uncertainty in EMC Testing
viii.	ETSI TR 100 028	2001	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
ix.	A2LA	April 2014	Reference to A2LA Accreditation Status – A2LA Advertising Policy



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2.2. Test and Uncertainty Procedures

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

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3. PRODUCT DETAILS AND TEST CONFIGURATIONS

3.1. Technical Details

Details	Description
Purpose:	Testing of the Spectralink 8742 Basic IP Telephone to FCC CFR 47, part 15, Subpart B and Industry Canada ICES-003 regulations.
Applicant:	Spectralink Corporation 2560 55th Street, Boulder, Colorado, 80301 USA
Manufacturer:	In-Tech Electronics Ltd. 2 Qihang Industrial Park Haoxiang Road, Shajing Baoan, Shenzhen, China
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton, California 94566 USA
Test report reference number:	SPEC36-U2 Rev A
Date EUT received:	14th March 2015
Dates of test (from - to):	17th March, 2015
Standard(s) applied:	FCC CFR 47 Part 15 Subpart B and ICES-003;
No of Units Tested:	One
Type of Equipment:	Wireless IP Telephone
Manufacturers Trade Name:	Spectralink 8742 Basic IP Telephone
Model:	8742
Serial Number	651458732
Software Revision	4.1.2 JZO54K 1.2.0.eng-6893
Hardware revision	930-0002-006 Rev E
Internal Clocks	24MHz, 38.4MHz, 32kHz
Installation type:	Portable
Construction/Location for Use:	Indoor Only
Operating Temperature Range °C:	Declared range 0 to +40°C
Rated Supply Voltage and Current	3.6Vdc (Battery) AC/DC Adapter AC 100-240V 50/60 Hz 0.25A Output: DC 5V 1A
Equipment Dimensions:	144.6 x 77.2 x 19mm,
Weight:	225 grams
Primary Function:	Wireless IP Telephone

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3.2. Scope of Test Program

The scope of the test program was to test the Spectralink 8742 Basic IP Telephone to verify compliance with the emissions requirements of FCC CFR 47 Part15B and Industry Canada ICES-003.

This product was previously tested by MiCOM Labs to the requirements of FCC Part 15.247 and IC RSS 210 with results reported in MiCOM Lab test report SPEC27-U4 Rev A published in January 2014. Spectralink have since changed the battery and form factor of the product.

No changes have been made to the layout or the transmitter in this phone.

Spectralink 8742 Basic IP Telephone (Top)



Spectralink 8742 Basic IP Telephone (Back)





3.3. Equipment Model(s) and Serial Number(s)

Type (EUT/ Support)	Equipment Description (Including Brand Name)	Mfr	Model No.	Serial No.
EUT	Wireless IP Telephone	Spectralink	8742	651458732
Support	Ac/dc Power Adaptor	GCI	SA106B-05	None

3.4. Antenna Details

1. No antenna testing performed as part of this test program. The following is provided for information.

Product has one integral antenna. Plated on PCB, manufactured by Spectralink, 2.4GHz gain 1.2dBi, 5.5GHz gain 4dBi.

3.5. Cabling and I/O Ports

1. 1 x Micro USB On The Go (OTG) + Charging

3.6. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. None.

3.7. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE



4. TEST SUMMARY / SETUP

List of Measurements

The following table represent the list of measurements required under the FCC CFR 47 part 15 and Industry Canada ICES-003 standards;

TABLE OF REQUIRED TESTS – Emissions

Test Standard	Phenomenon/ Description	Limits	Compliance
FCC Part 15B ICES-003 Section 6.2	Radiated Emissions	Class B	Complies
FCC Part 15B ICES-003 Section 6.1	Conducted Emissions - ac power	Class B	Complies

Note 1: Test results reported in this document relate only to the items tested

Note 2: *The required tests demonstrated compliance as per client declaration of test configuration, monitoring methodology and associated pass/fail criteria*

Note 3: *Section 3.6 Equipment Modifications highlights the equipment modifications that were required to bring the product into compliance with the above test matrix*



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5. TEST RESULTS

5.1. Radiated Spurious Emissions – Digital Apparatus

Standard Reference

FCC, Part 15 Subpart B §15.109
Industry Canada ICES-003 Section 6.2

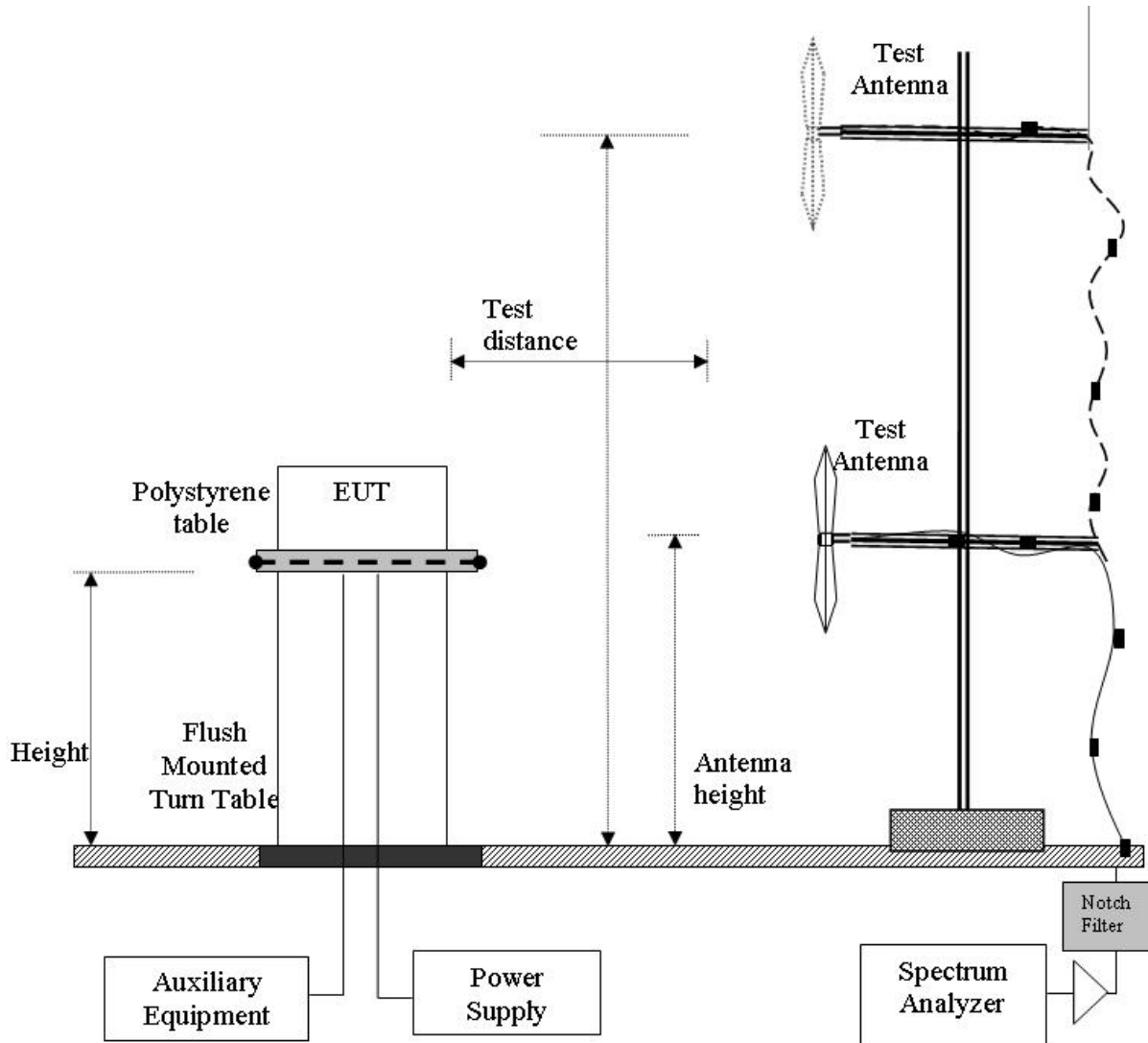
Test Procedure

Testing 30 – 1,000 MHz was performed in a anechoic chamber using a CISPR compliant receiver. Preliminary radiated emissions were measured on every azimuth and with the receiving antenna in both horizontal and vertical polarizations. To further maximize emissions the receive antenna was varied between 1 and 4 meters. The emissions are recorded with receiver in peak hold mode.

Emissions nearest the limits were chosen for maximization and formal measurement using a CISPR Compliant receiver. Emissions from 30 MHz – 1000 MHz are measured utilizing a CISPR compliant quasi-peak detector with a tuned receiver, using a bandwidth of 120 kHz. Emissions above 1000 MHz are measured utilizing a CISPR compliant average detector with a tuned receiver, using a bandwidth of 1 MHz. Only the highest emissions relative to the limit are listed.

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Radiated Emission Measurement Setup – Below 1 GHz





Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.

$$FS = R + AF + CORR - FO$$

FS = Field Strength

R = Measured Spectrum analyzer Input Amplitude

AF = Antenna Factor

$$CORR = \text{Correction Factor} = CL - AG + NFL$$

CL = Cable Loss

AG = Amplifier Gain

FO = Distance Falloff Factor

NFL = Notch Filter Loss or Waveguide Loss

Field Strength Calculation Example:

Given receiver input reading of 51.5 dB μ V; Antenna Factor of 8.5 dB; Cable Loss of 1.3 dB; Falloff Factor of 0 dB, an Amplifier Gain of 26 dB and Notch Filter Loss of 1 dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 \text{ dB}\mu\text{V/m}$$

Conversion between dB μ V/m (or dB μ V) and μ V/m (or μ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (\mu V/m))}$$

$$40 \text{ dB}\mu\text{V/m} = 100 \mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250 \mu\text{V/m}$$



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FCC Spurious Emissions Limits

FCC, Part 15 Subpart B §15.109 Spurious Emissions Limits

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values.

Frequency (MHz)	Field Strength @ 3m (μV/m)	Measurement Distance (meters)	Field Strength (dBμV/m) @ 3m
30-88	100	3	40.0
88-216	150	3	43.5
216-960	200	3	46.0
Above 960	500	3	54.0

Field Strength of radiated emissions for a Class A digital device are as follows.

Frequency (MHz)	Field Strength @ 10m (μV/m)	Measurement Distance (meters)	Field Strength (dBμV/m) @ 3m
30-88	90	3	49.5
88-216	150	3	54.0
216-960	210	3	57.0
Above 960	300	3	60.0

Laboratory Measurement Uncertainty for Spectrum Measurement

Measurement Uncertainty	+5.6/ -4.5 dB
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Traceability

Method	Test Equipment Used
Work instruction WI-03	0088, 0158, 0134, 0304, 0311, 0315, 0310, 0312

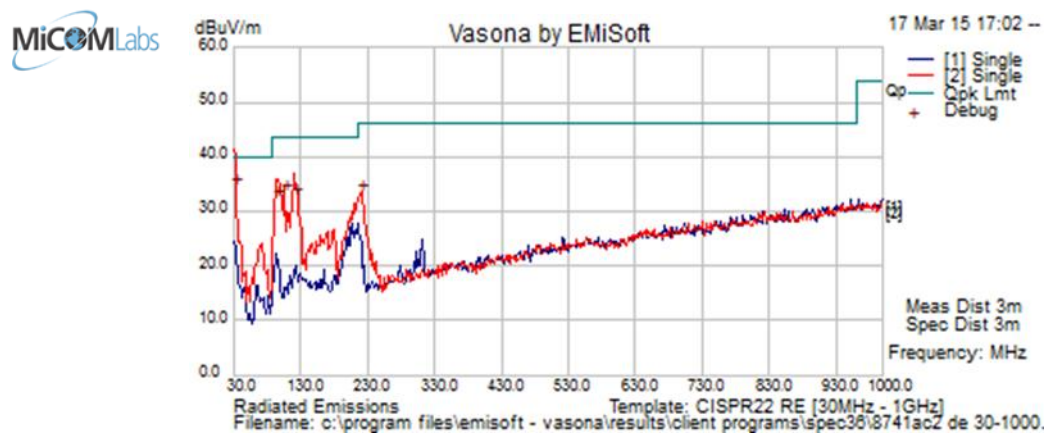
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Measurement Results: Radiated Emissions; 30-1000MHz,

EUT	8742 Sn# 651458732	Engineer	JMH
Variant	Digital Emissions	Temp (°C)	24
Freq. Range	30 MHz - 1000 MHz	Rel. Hum.(%)	32
Standard Limit	FCC B	Press. (mBars)	1004
Support Equip	None		
Test Notes 1	8741 with wifi turned on connected to GCI PS, FCC Limits		
Test Notes 2	AC/DC PS GCI 1A charging new battery.		



Formally measured emission peaks

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
31.892	41.8	3.4	-10.8	34.420	Quasi Peak	V	106	81	40.0	-5.6	Pass	
122.018	45.5	4.0	-17.1	32.4	Quasi Peak.	V	117	304	43.5	-11.1	Pass	
95.778	50.1	3.9	-22.1	31.9	Quasi Peak.	V	99	111	43.5	-11.6	Pass	
106.097	48.9	3.9	-19.6	33.2	Peak [Scan]	V	98	361	43.5	-10.3	Pass	
222.060	48.3	4.4	-19.8	33.0	Peak [Scan]	V	98	361	46.0	-13.0	Pass	
Legend: DIG = Digital Device Emission; TX = Transmitter Emission; FUND = Fundamental Frequency												
NRB = Non-Restricted Band, Limit is 20 dB below Fundamental; RB = Restricted Band												

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5.2. AC Mains Conducted Emissions

Standard Reference

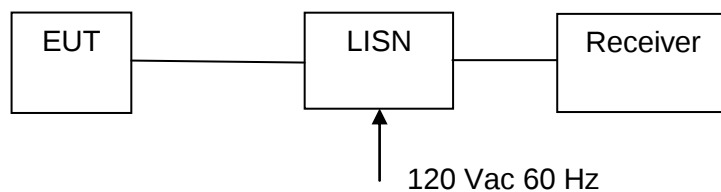
FCC, Part 15 Subpart C §15.107

Scope

This test assesses the ability of the EUT to limit its internal noise from being present on the AC mains power input/output ports.

Test Procedure

The EUT is configured in accordance with ANSI C63.4. The conducted emissions are measured in a shielded room with a spectrum analyzer in peak hold in the first instance. Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation. The highest emissions relative to the limit are listed.



Measurement Setup for Conducted Emissions Test



Limits

The equipment shall meet the class B limits given in FCC Part 15: 107. Alternatively, for equipment intended to be used in non-residential environments, the class A limits given in FCC Part 15: 107 may be used.

Limits for conducted disturbance at the mains ports of class B ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50
Note 1	* Decreases with the logarithm of the frequency	
Note 2	* The lower limit applies at the boundary between frequency ranges	

Limits for conducted disturbance at the mains ports of class A ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	79	66
0.5–30	73	60
Note 1	* The lower limit shall apply at the transition frequency.	

Traceability

All conducted emission measurements are traceable to national standards. The uncertainty of measurement at a confidence level of not less than 95 %, with a coverage factor of k=2, in the range 9 kHz – 30 MHz (Average & Quasi-peak) is ± 2.64 dB.

Laboratory Measurement Uncertainty	
Measurement uncertainty	± 2.64 dB

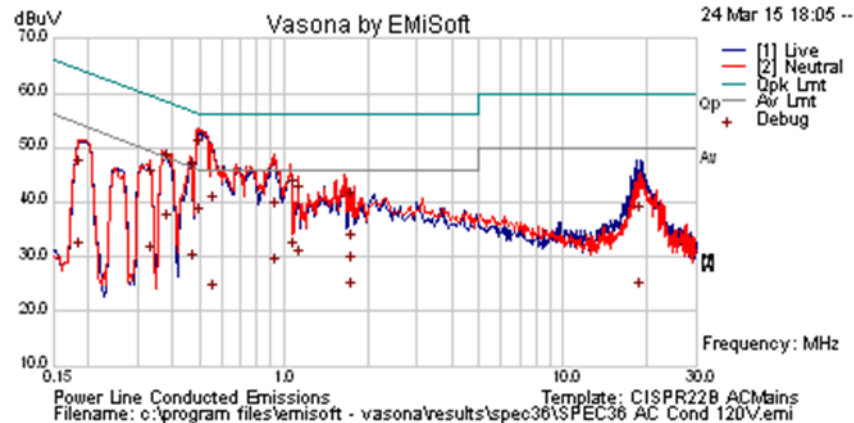
Method	Test Equipment Used
Measurements were made per work instruction WI-EMC-01 'Measurement of Conducted Emissions'	0158, 0184, 0193, 0190, 0293, 0307, 156, 193, 190



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Measurement Results

Model Number	8741	Engineer	JMH
Variant	AC Wireline 120Vac 60 Hz	Temp (°C)	20
Freq. Range	0.150 MHz - 30 MHz	Rel. Hum.(%)	37
Standard Limit	FCC B	Press. (mBars)	1010
Test Notes 1	GCI Power Supply SA106B-05, output 5V 1A		



Formally measured emission peaks

Frequency MHz	Raw dBuV	Cable Loss	Factors dB	Level dBuV	Measurement Type	Line	Limit dBuV	Margin dB	Pass /Fail	Comments
0.183	21.0	9.9	0.1	31.0	Average	Neutral	54.35	-23.4	Pass	
0.183	36.0	9.9	0.1	46.0	Quasi Peak	Neutral	64.35	-18.4	Pass	
0.330	34.2	9.9	0.1	44.2	Quasi Peak	Neutral	59.45	-15.3	Pass	
0.330	20.2	9.9	0.1	30.2	Average	Neutral	49.45	-19.3	Pass	
0.375	37.4	9.9	0.1	47.3	Quasi Peak	Neutral	58.39	-11.1	Pass	
0.375	26.2	9.9	0.1	36.1	Average	Neutral	48.39	-12.3	Pass	
0.465	35.9	9.9	0.1	45.8	Quasi Peak	Neutral	56.6	-10.8	Pass	
0.465	18.7	9.9	0.1	28.7	Average	Neutral	46.6	-17.9	Pass	
0.494	39.6	9.9	0.1	49.6	Quasi Peak	Neutral	56.1	-6.5	Pass	
0.494	27.3	9.9	0.1	37.3	Average	Neutral	46.1	-8.9	Pass	
0.548	13.2	9.9	0.1	23.2	Average	Neutral	46	-22.8	Pass	
0.548	29.4	9.9	0.1	39.4	Quasi Peak	Neutral	56	-16.6	Pass	
0.925	28.4	9.9	0.1	38.4	Quasi Peak	Neutral	56	-17.6	Pass	
0.925	18.1	9.9	0.1	28.1	Average	Neutral	46	-17.9	Pass	
1.063	32.3	9.9	0.1	42.4	Quasi Peak	Neutral	56	-13.6	Pass	
1.063	20.9	9.9	0.1	30.9	Average	Neutral	46	-15.1	Pass	
1.126	19.6	9.9	0.1	29.7	Average	Neutral	46	-16.3	Pass	
1.126	31.2	9.9	0.1	41.3	Quasi Peak	Neutral	56	-14.8	Pass	
1.725	18.1	10.0	0.1	28.3	Average	Neutral	46	-17.7	Pass	
1.725	29.9	10.0	0.1	40.1	Quasi Peak	Neutral	56	-16.0	Pass	
1.725	13.7	10.0	0.1	23.8	Average	Neutral	46	-22.2	Pass	
1.725	22.5	10.0	0.1	32.6	Quasi Peak	Neutral	56	-23.4	Pass	
18.652	12.4	10.5	0.7	23.6	Average	Neutral	50	-26.4	Pass	
18.652	26.3	10.5	0.7	37.5	Quasi Peak	Neutral	60	-22.5	Pass	

Legend: DIG = Digital Device Emission; TX = Transmitter Emission; FUND = Fundamental Frequency
NRB = Non-Restricted Band, Limit is 20 dB below Fundamental; RB = Restricted Band

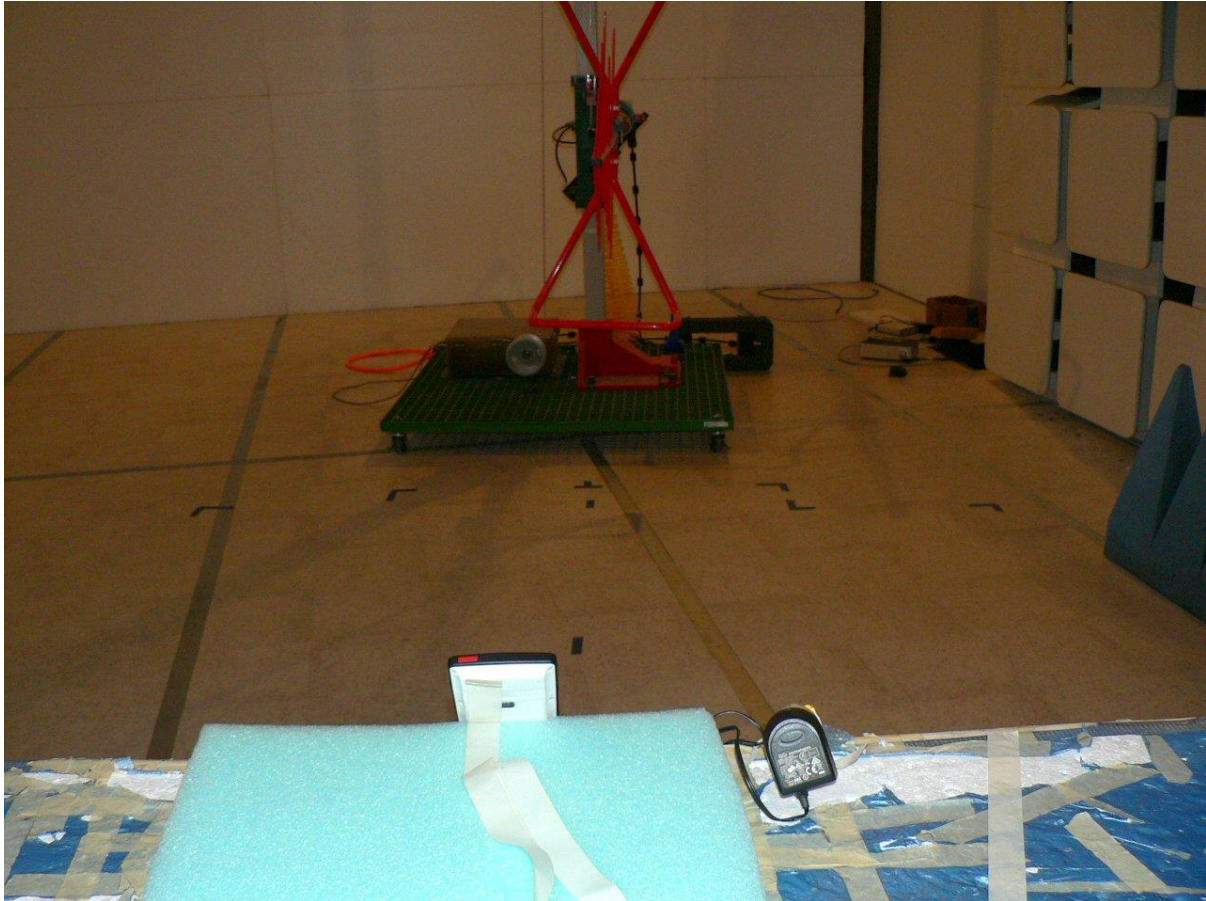
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6. PHOTOGRAPHS

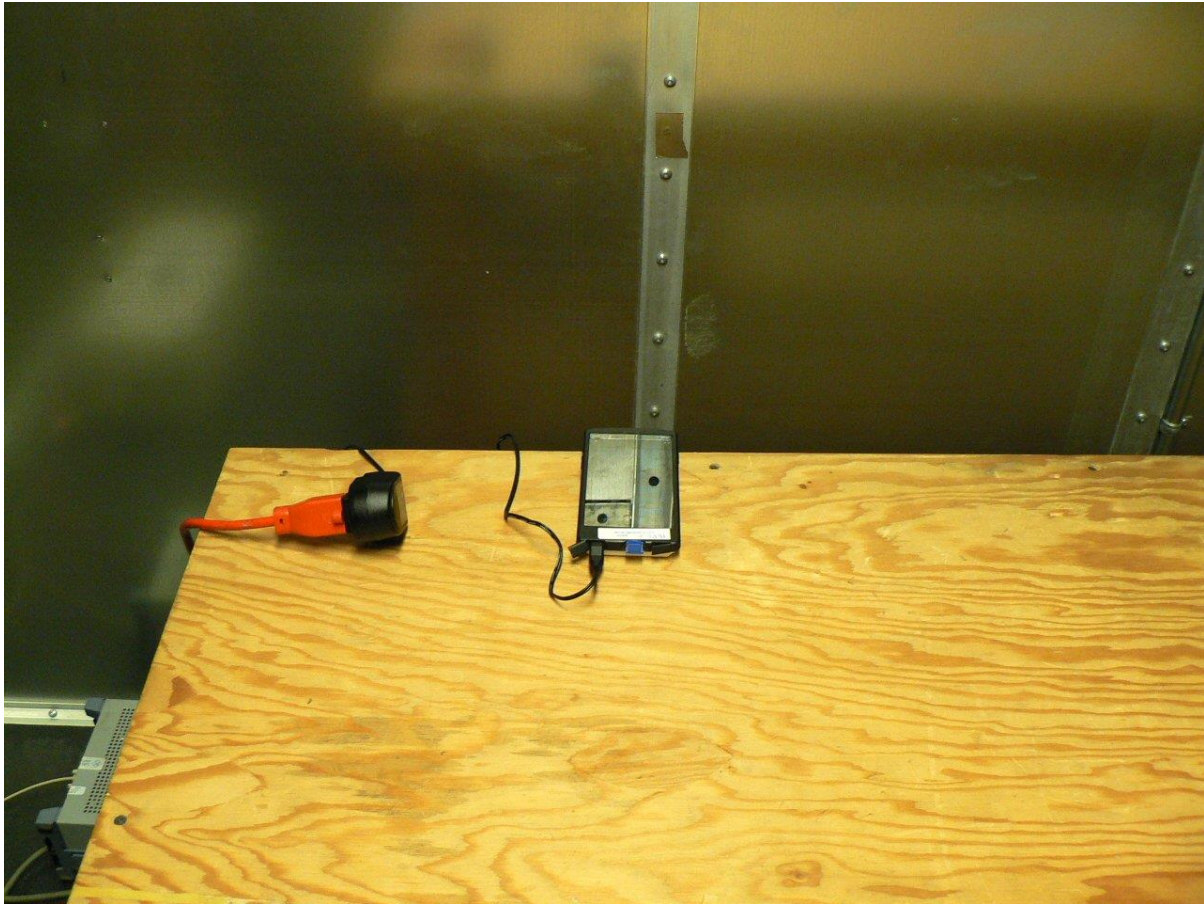
Radiated Emissions Setup – Front



Radiated Emissions Setup – Back



AC Wireline Emissions Setup - Front



AC Wireline Emissions Setup - Side





Title: Spectralink 8742 Basic IP Telephone
To: FCC CFR 47 Part 15 Subpart B and ICES-003
Serial #: SPEC36-U2 Rev A
Issue Date: 9th April 2015
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7. TEST EQUIPMENT DETAILS

Asset #	Instrument	Manufacturer	Part #	Serial #	Calibration Due Date
158	Barometer/ Thermometer	Control Co.	4196	E2846	6 Dec 2015
190	LISN (two-line V-network)	Rhode & Schwarz	ESH3Z5	836679/006	12 Sep 2015
193	Receiver 20 Hz to 7 GHz	Rhode & Schwarz	ESI 7	838496/007	14 Jan 2016
287	EMI Receiver	Rhode & Schwarz	ESIB40	100201	31 Jul 2015
307	BNC Cable	Megaphase	1689 1GVT4	15F50B002	N/A
310	SMA Cable	Micro-Coax	UFA210A-0-0787-3G03G0	209089-001	N/A
312	SMA Cable	Micro-Coax	UFA210A-1-1181-3G0300	209092-001	N/A
338	30 - 3000 MHz Antenna	Sunol	JB3	A052907	14 Aug 2015
393	Low Pass Filter 1050MHz	Minicircuits	WLFX-1050		N/A
396	Notch Filter 2.4G	Microtronics	BRM50701		N/A
397	Preamp 10-2500 MHz	MiCOM Labs		0397	23 Oct 2015
399	Horn Antenna 1-18G	ETS	3117	00154575	10 Oct 2015
406	Preamp 1-18 GHz	MiCOM Labs		0406	30 May 2015
411	Mast/Turntable Control	Sunol Sciences	SC98V	060199-1D	N/A
413	Mast Controller	Sunol Sciences	TWR95-4	030801-3	N/A
415	Turntable Controller	Sunol Sciences		0415	N/A
416	Gigabit Ethernet Filter	ETS	260366	0416	N/A
0502	EMC Test Software	EMISoft	Vasona	5.0051	N/A

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