MIL STD 461F

TEST REPORT

For

Rugged PDA

Model Number: P37B

Trade Name: N/A

Issued to

ACA Digital Corporation
17F.,No 866-7, Zhongzheng Rd, Zhonghe City,
Taipei County, 235, Taiwan, R,O,C

Issued by

Compliance Certification Services Inc.
No. 11, Wugong 6th Rd., Wugu Industrial Park
Taipei Hsien 248, Taiwan
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service@tw.ccsemc.com

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1. TEST RESULT CERTIFICATION

Applicant: ACA Digital Corporation
17F, No.866-7, Zhongzheng Rd., Zhonghe City, Taipei County 235, Taiwan, R.O.C

Equipment Under Test: Rugged PDA

Trade Name: N/A

Model Number: P37B

Date of Test: December 9, 2008

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
MIL STD 461F	No non-compliance noted

Applicable Standard	**Test Result**
MIL STD 461F	
CS115: Conducted susceptibility, bulk cable injection, impulse excitation.	No non-compliance noted
Deviation from Applicable Standard	
N/A	

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in MIL STD 461F. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

James Lee
Section Manager
Compliance Certification Services Inc.

Reviewed by:

Bruce Chen
Senior Engineer
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Rugged PDA
Trade Name	N/A
Model Number	P37B
Model Discrepancy	N/A

Remark: for more details, please refer to the User's manual of the EUT.

3. TEST METHODOLOGY

All tests were performed in accordance with the procedure documented in MIL STD 461F.

4. INSTRUMENT AND CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Susceptibility Test

CS115 (844 Chamber)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Impulse Noise Simulator	NoiseKen	INS-4020	INS0621874	05/11/2010
Bulk Current Injection probe	FCC	F-140	562	03/06/2010
LISN	EMCO	3825/2	T3010026	03/27/2010
Oscilloscope	Agilent	54642A	MY42001367	06/20/2010

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☐ No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

☒ No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan
Tel: 886-2-2299-9720 / Fax: 886-2-2299-9721

☐ No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:

1. *All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.*
2. *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

6.3 TEST SETUP

The equipment under test was configured and connected to support unit in normal operation continuously. EUT tends to maximize its emission characteristics in a typical application for immunity test. The EUT was active during the immunity test measurements.

7. MIL STD 461F REQUIREMENTS

7.1 CS115, conducted susceptibility, bulk cable injection, impulse excitation

LIMIT

The EUT shall not exhibit any malfunction, degradation of performance, or deviation from specified indications, beyond the tolerances indicated in the individual equipment or subsystems specification, when subjected to a pre-calibrated signal having rise and fall times, pulse width, and amplitude as specified in Figure CS115-1 at a 30 Hz rate for one minute.

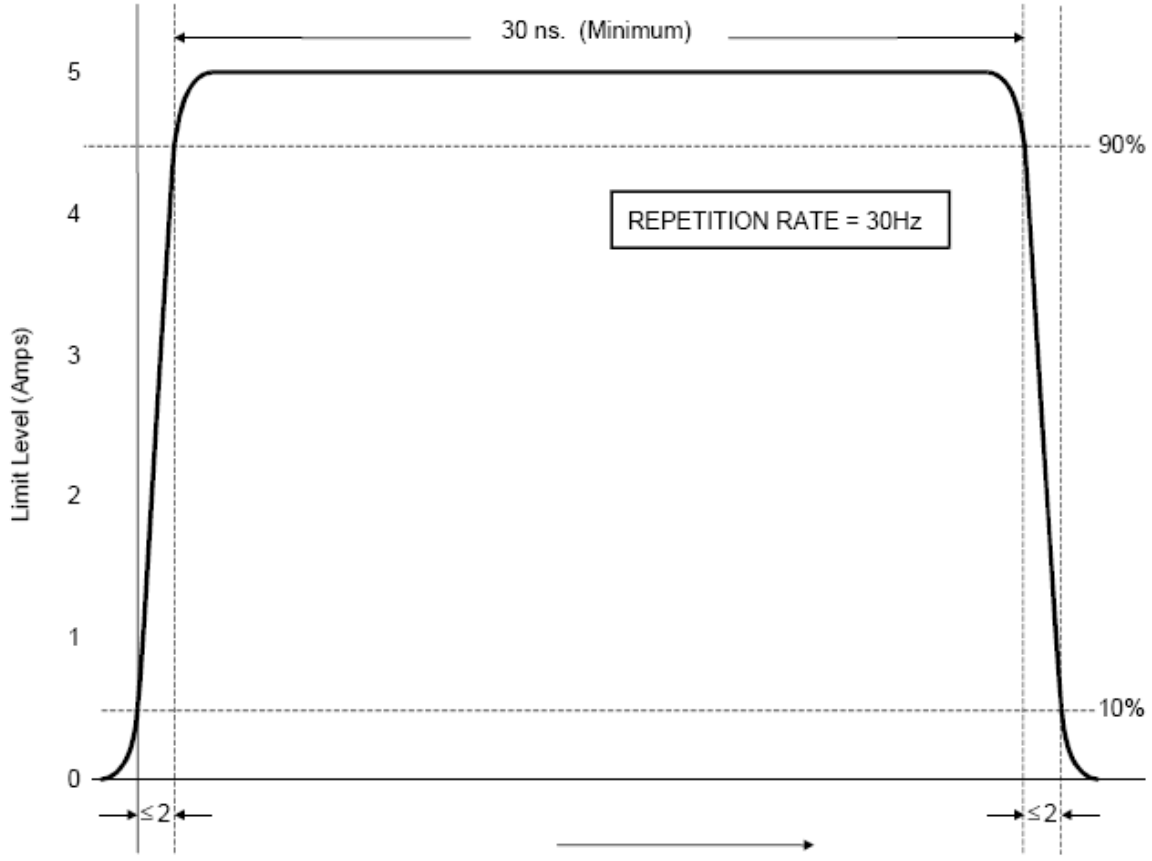

FIGURE CS115-1. CS115 signal characteristics for all applications.

CLASSIFICATION OF FUNCTIONAL STATUS

All classifications are for the total device/system functional status.

Class A: all functions of a device/system perform as designed during and after exposure to disturbance.

Class B: all functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed.

Class C: one or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.

Class D: one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple “operator/use” action.

Class E: one or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

NOTE: The word “function” in this context refers only to the function performed by the electronic system.

TEST CONFIGURATION

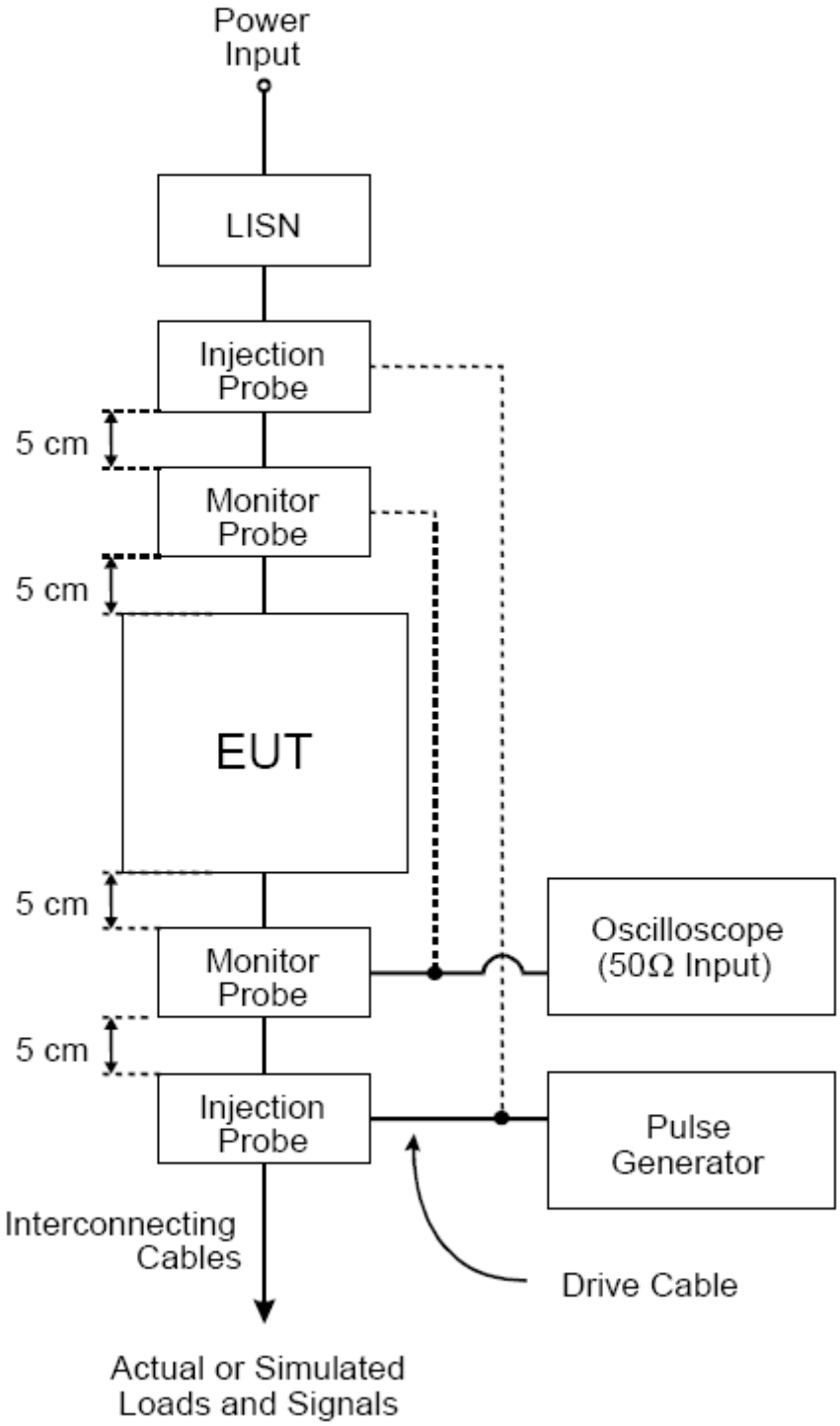

FIGURE 1. Bulk cable injection.

TEST PROCEDURE

The magnetic emission of EUT representative of its type shall be tested by the method(s) according to MIL STD 461F.

TEST RESULTS

No non-compliance noted

Test Data

Test Sequence	Test Level (A)	Pulse width (ns)	Repetition Rate (Hz)	Test Result	Remark
Power Line	5	50	30	A	Normal function

8. APPENDIX I
PHOTOGRAPHS OF TEST SETUP

CS115, Conducted susceptibility, bulk cable injection, impulse excitation
Power Line