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TEST REPORT NO: 8012/041/1

DATE: 13-03-96

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**SUPPLEMENTARY REPORT ON THE
EMC TESTING OF THE
ACR ELECTRONICS INC.
MINI B300 (RLB-30) 121.65 MHz EPIRB
WITH RESPECT TO
prETS 300.339 (1993) SPECIFICATION
(AS MODIFIED BY IEC 945 2ND EDITION (JANUARY 1994))**

TEST DATE: 20, 27 and 29 JANUARY 1996

COMPILED: *Robert J Fyfe* R J FYFE

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BS 5750 Part 1
Registration FS 21805



TESTING
No. 0728

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(70.66MHz to 130.6MHZ)

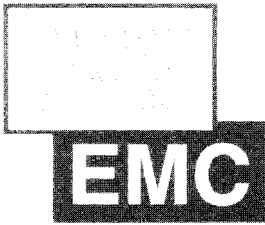
1 Introduction

This supplementary report is supplied to correct several typographical errors which were inadvertently contained in TRL REPORT No: 8012/041 dated 28 February 1994. These errors have been corrected and the corrected pages included within this supplementary report which should replace those of the original report.

The supplementary report is to be read in conjunction with the original report 8012/041 dated 28 February 1996.

2 Amendments

This section contains the amendments to TRL REPORT 8012/041.



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2 SYSTEM UNDER TEST

2.1 Equipment under test

1. MINI B300 (RLB-30) 121.65 MHz EPIRB
Serial No: Sample No #2
2. By arrangement with the UK DTI Radiocommunications Agency all tests were carried out on non-interference frequency of 121.65MHz.

2.1.1. Support Equipment

N/A

2.2 Variant Submission Details.

N/A

5 DESCRIPTION OF EUT

5.1 General Description and Modifications


MINI B300 (RLB-30) 121.65MHz EPIRB manufactured by ACR ELECTRONICS INC.

5.2 Operating Modes

Beacon turned on.

Table of Applied Frequencies (MHz)

70.66	COMP	91.5	COMP	100.4	COMP			
71.36	COMP	92.4	COMP	101.5	COMP			
72	COMP	93.4	COMP	102.5	COMP			
72.86	COMP	94.5	COMP	103.5	COMP			
73.53	COMP	95.5	COMP	104.5	COMP			
74.2	COMP	96.4	COMP	105.6	COMP			
75	COMP	97.3	COMP	106.7	COMP			
75.8	COMP	98.4	COMP	107.8	COMP			
76.51	COMP	99.5	COMP	108.9	COMP			
77.28	COMP	100.4	COMP	110	COMP			
78	COMP	101.5	COMP	111.1	COMP			
78.8	COMP	102.5	COMP	112.2	COMP			
79.62	COMP	103.4	COMP	113.3	COMP			
80.4	COMP	104.5	COMP	114.4	COMP			
81.22	COMP	105.5	COMP	115.5	COMP			
82	COMP	106.6	COMP	116.7	COMP			
82.8	COMP	107.8	COMP	117.9	COMP			
83.68	COMP	108.9	COMP	119.1	COMP			
84.52	COMP	110	COMP	120.3	COMP			
85.4	COMP	111.1	COMP	121.5	COMP			
86.21	COMP	112.2	COMP	124.1	COMP			
87.1	COMP	113.2	COMP	125.4	COMP			
87.9	COMP	114.4	COMP	126.7	COMP			
88.8	COMP	115.5	COMP	128	COMP			
89.7	COMP	116.7	COMP	129.3	COMP			
90.6	COMP	119.1	COMP	130.6	COMP			

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APPENDIX 1
EMC TEST MEASUREMENT UNCERTAINTY
SCHEDULE A

LABORATORY TESTS

MEASUREMENT		EXPANDED UNCERTAINTY
E-FIELD STRENGTH 10m	<300MHz	$\pm 4.45\text{dB}$
	>300MHz	$\pm 4.45\text{dB}$
E-FIELD STRENGTH 3m	<300MHz	$\pm 4.13\text{dB}$
	>300MHz	$\pm 4.03\text{dB}$
CONDUCTED EMISSIONS AC Powerline	PROBE	$\pm 1.19\text{dB}$
	LISN	$\pm 1.26\text{dB}$
H-FIELD STRENGTH		$\pm 2.25\text{dB}$
RFS	3V/m	$\pm 0.83\text{V}$
	10V/m	$\pm 1.87\text{V}$
ESD	<10kV	$\pm 220\text{V}$
	>10kV	$\pm 320\text{V}$
FAST BURST TRANSIENTS	<2kV	$\pm 100\text{V}$
	>2kV	$\pm 110\text{V}$
DIPS AND VARIATIONS		$\pm 3.39\%$

SITE TESTS

E-FIELD STRENGTH Manufacturers Site	<300MHz	$\pm 6.38\text{dB}$
	>300MHz	$\pm 5.99\text{dB}$
E-FIELD STRENGTH User Site	<300MHz	$\pm 1.68\text{dB}$
	>300MHz	$\pm 1.68\text{dB}$
CONDUCTED EMISSIONS AC Powerline	PROBE	$\pm 1.19\text{dB}$
	LISN	$\pm 1.26\text{dB}$

FULL MEASUREMENT UNCERTAINTY BUDGETS AND CALCULATIONS APPEAR IN PROCEDURE 54-P015.