

Marstech Limited

11 Kelfield Street, Etobicoke, Ontario, Canada, M9W 5A1
Telephone (416) 246-1116, Fax (416) 246-1020

Authorized by:
Professional Engineers
Ontario

Engineering &
Administrative



Testing For FCC
Submissions/Verifications

Industry Canada
Industry Canada
Approved Test Facility



TEST REPORT

REPORT DATE: 23 October 2006 REPORT NO: 26288H

CONTENTS: HAC Magnetic and Volume Control
Test Results - Pages 2 to 3

RESPONSIBLE PARTY: UNIDEN AMERICA CORPORATION
Engineering Services Office
181 N. Country Club Road, P. O. Box 580
Lake City, SC
29560 USA

SUBJECT: Model No.: **TRU9380**
[to cover CS-03 and Part 68 HAC Magnetic and
Volume Control Tests]

TEST SPECIFICATION: CS-03, Issue 9, Part V Cl. 4 and 6
FCC 47 CFR Part 68, Cl. 68.316 and 68.317
(NOTE: Tests Conducted are "Type" Tests)

DATE SAMPLE RECEIVED: 18 October 2006 DATE TESTED: 20 October 2006

RESULTS: Equipment tested complies with referenced specifications.

ALTERATIONS: None

Tested by:

Gary Nova

Approved by:

Robert G. Marshall, P. Eng.

Reviewed by:

Edward Chang

Date:

23 October 2006

THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF MARSTECH LIMITED. This report was prepared by Marstech Limited for the account of the "Submitter". The material in it reflects Marstech's judgement in light of the information available to it at the time of preparation. Any use which a Third Party makes of this report, or any reliance on decisions to be made based on it, are the responsibility of such Third Parties. Marstech accepts no responsibility for damages, if any, suffered by any Third Party as a result of decisions made or actions based on this report.

TEST 18**HEARING AID COMPATIBILITY TEST**

REFERENCE: CS-03, Issue 9, Part V Clause 4 FCC, Part 68, Clause 68.316

CONDITION: SPEAKER Lin Jia SD034B-8A

CRITERIA:

1. AXIAL > -19 dB
2. RADIAL > -27 dB
3. FREQUENCY RESPONSE WITHIN LIMITS ON GRAPH

INPUT: 1KHz AT -10 dBV

READING: dB RELATIVE TO 1A/m

1. AXIAL : -0.5 dB
2. RADIAL: 0 DEG.: -12.5 dB 90 DEG.: -16 dB
 180 DEG.: -10 dB 270 DEG.: -7.5 dB
3. FREQUENCY RESPONSE:

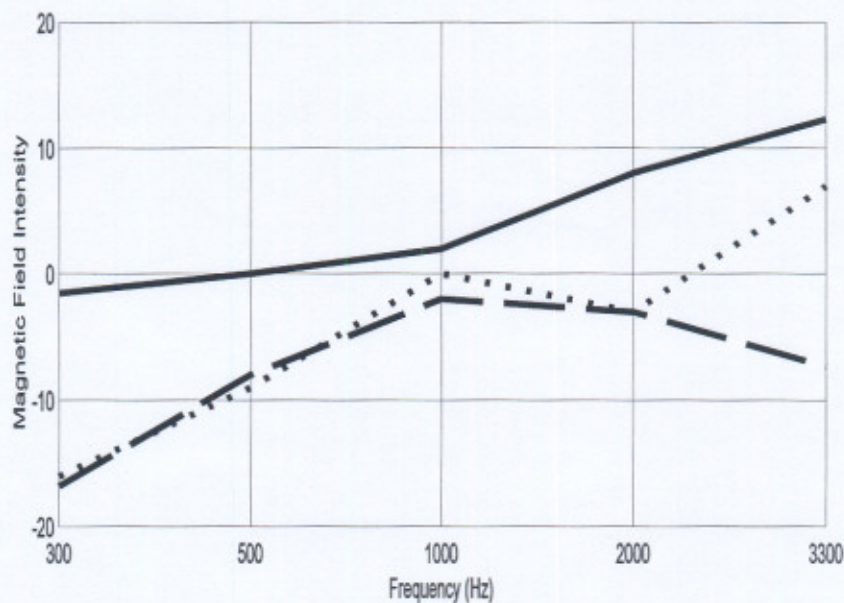
HIGH VOLUME

Figure 4.2

Magnetic Field Intensity Frequency Response for Receivers with an Axial Field that Exceeds -19dB Relative to 1 A/m Without Using an Integrator (See Section 4.4 and Figure 2).

RESULTS: Accepted within ± 2 dB measuring tolerance.

TECHNICIAN: Gary Nova

DATE: 20 October 2006

TEST 45**HEARING AID COMPATIBILITY - VOLUME CONTROL****REFERENCE:**

CS-03, Issue 9, Part V, Clause 6.

FCC Part 68, Clause 68.317

CONDITION:**SPEAKER:****Lin Jia****SD034B-8A****SEALING RING:****Yes**

FREQ.	0 KM						2.7 KM						4.6 KM					
	MIN. VOLUME (ROLR 41-51dB)			MAXIMUM VOLUME			MIN. VOLUME (ROLR 43-53dB)			MAXIMUM VOLUME			MIN. VOLUME (ROLR 45-55dB)			MAXIMUM VOLUME		
	dBS PL	dBPa	Calculations	dBSPL	dBPa	Calculations	dBS PL	dBPa	Calculations	dBS PL	dBPa	Calculations	dBS PL	dBPa	Calculations	dBS PL	dBPa	Calculations
300 Hz	95.0 300	2.0		107.5 300	14.5		91.5 300	-1.5		104.5 300	11.5		89.5 300	-3.5		103.0 300	10.0	
400 Hz	98.5 400	3.5	0.009 1.1557 0.1443	111.5 400	16.5	0.1249 2.2536 0.2815	95.0 400	0.0	0.1049 0.9625 0.1202	108.0 400	13.0	0.1149 1.9980 0.2573	92.5 400	-2.5	0.1049 0.8558 0.1066	106.0 400	11.0	0.1249 1.7529 0.2364
500 Hz	100.0 500	5.0	0.0069 1.2506 0.1211	113.0 500	18.0	0.0969 2.4082 0.2392	96.0 500	1.0	0.0969 1.8209 0.0995	109.5 500	14.5	0.0969 2.6551 0.1591	93.0 500	-1.5	0.0969 0.9009 0.0873	107.5 500	12.5	0.0969 1.8509 0.1794
600 Hz	101.5 600	7.0	0.0792 1.3787 0.3086	115.0 600	20.5	0.0792 2.7443 0.2173	97.5 600	3.0	0.0792 1.3119 0.0881	111.5 600	17.0	0.0792 2.2850 0.1838	95.0 600	0.5	0.0792 0.9735 0.0773	109.0 600	14.5	0.0792 2.0296 0.1607
700 Hz	102.0 700	7.5	0.0609 1.4615 0.0978	115.5 700	21.0	0.0609 2.0623 0.1902	97.5 700	3.0	0.0609 1.1706 0.0783	111.5 700	17.0	0.0609 2.4342 0.1628	95.0 700	0.5	0.0609 1.0265 0.0607	109.0 700	14.5	0.0609 2.1257 0.1429
1000 Hz	96.0 1K	2.0	0.1549 1.2855 0.2007	109.5 1K	15.5	0.1549 2.6258 0.4067	91.0 1K	-3.0	0.1549 1.0123 0.1506	105.0 1K	11.0	0.1549 2.0903 0.3263	88.0 1K	-6.0	0.1549 0.8785 0.1361	102.0 1K	8.0	0.1549 1.8278 0.2831
1500 Hz	86.0 1.5K	-8.0	0.1761 0.8841 0.1157	100.0 1.5K	6.0	0.1761 1.8897 0.3187	81.0 1.5K	-13.0	0.1761 0.6894 0.1199	94.5 1.5K	0.5	0.1761 1.4024 0.2470	77.0 1.5K	-17.0	0.1761 0.3797 0.1005	91.0 1.5K	-3.0	0.1761 1.3873 0.2091
2000 Hz	81.0 2K	-15.0	0.1249 0.5570 0.0686	95.0 2K	-1.0	0.1249 1.1589 0.1447	75.0 2K	-21.0	0.1249 0.4158 0.0524	89.0 2K	-7.0	0.1249 0.8599 0.3074	70.5 2K	-25.5	0.1249 0.3371 0.0421	84.0 2K	-12.0	0.1249 0.8942 0.0807
2300 Hz	84.5 2.5K	-13.0	0.0607 0.4012 0.0292	96.5 2.5K	1.0	0.0607 1.8914 0.0686	77.5 2.5K	-20.0	0.0607 0.3422 0.0284	92.0 2.5K	-5.5	0.0607 0.7218 0.8458	73.0 2.5K	-24.5	0.0607 0.2704 0.0164	86.5 2.5K	-11.0	0.0607 0.5480 0.0333
2700 Hz	85.0 2.7K	-14.0	0.0090 0.4025 0.0343	98.5 2.7K	-0.5	0.0090 1.8139 0.0706	77.5 2.7K	-21.5	0.0090 0.3379 0.0235	91.0 2.7K	-8.0	0.0090 0.7039 0.8406	72.5 2.7K	-26.5	0.0090 0.2637 0.0184	85.5 2.7K	-13.5	0.0090 0.5279 0.0367
3000 Hz	84.0 3K	-15.5	0.0458 0.4625 0.0212	99.0 3K	-1.5	0.0458 0.9489 0.0435	76.0 3K	-23.5	0.0458 0.3302 0.0141	90.0 3K	-9.5	0.0458 0.6231 0.0290	71.0 3K	-28.5	0.0458 0.2373 0.0099	84.0 3K	-15.5	0.0458 0.4689 0.0215
3300 Hz	84.0 3.3K	-15.5	0.0414 0.4444 0.0184	99.0 3.3K	-1.5	0.0414 0.9245 0.0393	76.0 3.3K	-23.5	0.0414 0.2924 0.0121	90.0 3.3K	-9.5	0.0414 0.6083 0.0252	70.5 3.3K	-29.0	0.0414 0.2223 0.0092	84.0 3.3K	-15.5	0.0414 0.4444 0.0184
SE	0.9164			4.2932			0.5380			2.6003			0.3836			1.8821		
ROLR:	44.73			31.32			49.36			35.67			52.30			38.48		
GAIN: (12-18dB)				13.41						13.69						13.82		

RESULTS:

MEETS THE REFERENCED TECHNICAL REQUIREMENT

TECHNICIAN:

Gary Nova

DATE:

20 October 2006