

Test Report Serial No.:	050514AMW-T1295-E95D	Test
Measurement Date(s):	18/04/2014-25/042014	Test
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS GEN	Test



COMPLIANCE TEST R	EPORT	FCC PART 95 RSS-236	D	EMC/RF MEASUREMENT REPORT		
Test Lab Information	Name	CELLTECH LABS INCO	RPORA	TED		
Test Lab illiorination	Address	21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada				
Test Lab Accreditation(s)	A2LA	ISO 17025:2005 (A2LA 1	est Lab	Certificate No. 2470.01)		
Test Site Registration No.	FCC	Accredited Site				
rest Site Registration No.	IC	3874A-1				
	Name	UNIDEN AMERICA COF	PORAT	ION		
Applicant Information	Address	6225 North State Highway 161, Suite 300 Irving, Texas 75038				
Measurement Standard(s)	FCC Ind. Can.	47 CFR Part 95 Subpart D RSS-236				
& Procedure(s) Applied	ANSI	TIA/EIA-382-A C63.4-2003				
Device Classification(s)	FCC/IC	Licensed Non-Broadcast Station Transmitter (TNF)				
Device RF Exposure Category	FCC	FCC Mobile				
Device Identifier(s)	FCC ID: Ind. Can.	AMWUT400 513C-UT400				
Application Type	FCC/IC	Certification				
Device Under Test (DUT)	Mobile CB R	adio Transceiver.				
Date(s) of Evaluation	April 18-25, 2	2014				
Device Model(s)	RK5640 (Roa	adKing 5640)				
Test Sample Serial No.(s)	TA Sample -	- Identical Prototype				
Transmit Frequency Range(s)	26.965 - 27.4	105 MHz				
Channels	1-40					
Rated MAX. TX Power	4W (36dBm)					
Modulation Type(s)	AM					
Emission Designator(s)	6K00A3E					
Antenna	External Whi	p, 0dBi nominal (3dBi max	mum).			
Power Source(s) Tested	12 VDC Batte	ery, DC Power Supply (13.	8 V) / 9 x	(1.5VDC cells (13.5VDC).		

This wireless device has demonstrated compliance with the applicable technical standards indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Rule Parts 2, Part 15B and Part 95D,RSS-236, RSS-GEN ANSI TIA/EIA-382-A and ANSI C63.4-2003.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

The results and statements contained in this report pertain only to the device(s) evaluated.

This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc.

Test Report Approved By Glen Westwell 5/7/2014 Celltech Labs Inc.

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT400 -UT400	Model(s):	RoadKing 5640	Uniden'
DUT Type:		AM Mobile CB Radio Transceiver.			Frequen	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.							Page 1 of 31



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN



TABLE OF CONTENTS

1.0 SCOPE	5
2.0 REFEREN	CES
	References
3.0 PASS/FAIL	CRITERIA5
4.0 FACILITIES	S AND ACCREDITATIONS
5.0 GENERAL	INFORMATION
5.1 DUT Descr	iption & Specifications
Appendix A	RF Output Power Measurement
Appendix B	Modulation Characteristics (Modulation Limiting)
Appendix C	Modulation Characteristics (Audio Frequency Response & Low Pass Filter)
Appendix D	Occupied Bandwidth and Emission Mask
Appendix E	Spurious Emissions at the Antenna Terminal
Appendix F	Radiated Spurious Emissions
Appendix G	Frequency Stability
Appendix H	Device Photographs
END OF DOCU	

FIGURES

Figure B.5-1 - Setup Drawing – Modulation Characteristics	9
Figure C.5-1 - Setup Drawing – Audio Frequency Response	
Figure D.5-1 - Setup Drawing – Occupied Bandwidth & Emission Mask	
Figure E.5-1 - Setup Drawing – Occupied Bandwidth & Emission Mask	
Figure F.6-1 - Setup Drawing – Detected Radiated Spurious Emissions	
Figure G.5-1 - Setup Drawing – Frequency Stability	. 25

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT400 UT400	Model(s):	RoadKing 5640	Uniden°
DUT Type:		AM Mobile CB Radio Transceiver. Fr			Frequen	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	abs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.							Page 2 of 31



est Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



TEST SUMMARY							
	Referenced Standard(s):	CFR Title 47 Parts	2, 95(D), 15(B)				
Appendix	Description of Test	Procedure Reference	Limit Reference	Date of compliance test verification	Result		
Α	Conducted Power	ANSI/TIA/EIA-382-A	§2.1033, 95 RSS-236	5/7/2014	Pass		
В	Modulation Limiting	ANSI/TIA/EIA-382-A	§2.1047, 95 RSS-236	5/7/2014	Pass		
С	Audio Frequency Response	ANSI/TIA/EIA-382-A	§2.1047, 95 RSS-236	5/7/2014	Pass		
D	Occupied Bandwidth and Emission Mask	ANSI/TIA/EIA-382-A	§2.1049, 95 RSS-236	5/7/2014	Pass		
E	Conducted TX Spurious Emissions	ANSI/TIA/EIA-382-A	§2.1053, 95 RSS-236	5/7/2014	Pass		
F	Radiated TX Spurious Emissions	ANSI/TIA/EIA-382-A	§2.1053, 95 RSS-236	5/7/2014	Pass		
r	Radiated Spurious Emissions	ANSI C63.4:2003	§15 Subpart B ICES-003	5/7/2014	Pass		
G	Frequency Stability	ANSI/TIA/EIA-382-A	§2.1055, 95 RSS-236	5/7/2014	Pass		

Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT400 ·UT400	Model(s):	RoadKing 5640	Unideni
DUT Type:		AM Mobile CB Radio Transceiver. Free				ncy Range:	26.965 - 27.405 MHz	
2014 Celltech L	ch Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.							Page 3 of 31



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



REVISION LOG

Revision	Description	Implemented By	Implementation Date
1.0	1st Release	Glen Westwell	5/7/2014
1.1	Corrected device classification from portable to mobile.	Glen Westwell	5/7/2014

Test Report Prepared By	Date	QA Review By	Date
Glen Westwell	5/7/2014	Art Voss	5/7/2014

Applicant:	Uniden America Corporation FCC ID: Ind. Can.:				UT400 ·UT400	Model(s):	RoadKing 5640	Uniden°
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 4 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



1.0 SCOPE

This report outlines the measurements made and results collected during electromagnetic emissions testing of the Uniden America Corporation CB Radio Transceiver FCC/IC: AMWUT401/513C-UT401. The measurement results were applied against the applicable EMC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication's Commission Code of Federal Regulations Title 47 Part 2, Part 95 Subpart D and RSS-236.

2.0 REFERENCES

2.1 Normative References

ANSI/ISO 17025:2005 General Requirements for competence of testing and calibration laboratories

IEEE/ANSI C63.4:2003 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic

Equipment in the Range of 9 kHz to 40 GHz

ANSI/TIA/EIA-382-A Citizens Band Radio Service Amplitude Modulated (AM) Transceivers Operating in the 27 MHz Band

CFR Title 47 Part 2 Code of Federal Regulations

Title 47: Telecommunication

Part 2: Frequency Allocations and Radio Treaty Matters;

General Rules and Regulations

CFR Title 47 Part 95 Code of Federal Regulations

Title 47: Telecommunication
Part 95: Personal Radio Services

Subpart D - Citizens Band (CB) Radio Service

Industry Canada RSS-236, RSS-GEN

3.0 PASS/FAIL CRITERIA

Unless otherwise noted in the Appendices, the pass/fail criteria is the limit set forth in the reference standards. The DUT is considered to have passed the requirements if the data collected during the described measurement procedure is no greater than the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

Applicant:	Unide	n America Corporation	FCC ID: AMWU Ind. Can.: 513C-U			Model(s):	RoadKing 5640	Uniden
DUT Type:	AM Mobile CB Radio Transce				Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 5 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 21-364 Lougheed Road, Kelowna, British Columbia, Canada V1X 7R8. The radiated emissions site conforms to the requirements set forth in ANSI C63.4 and is filed and listed with Industry Canada under File Number IC 3874A-1. Celltech test site is listed with the FCC as an accredited test facility.

5.0 GENERAL INFORMATION

5.1 DUT Description & Specifications

Device Type:	Mobile CB Ra	adio Transceiver.				
Device Model(s):	RoadKing 56	RoadKing 5640				
Test Sample Serial No.:	T/A Sample -	Identical Prototype				
Device Identifier(s):	FCC ID: Ind. Can.:	AMWUT400 513C-UT400				
Transmit Frequency Range:	26.965 - 27.405 MHz (Chan. 1-40)					
No. of Channels:	40					
Manuf. Max. Rated Output Power:	36.0dBm (Conducted)					
RF Output Power Measured:	35.4 (Conducted)					
Antenna Gain:	External Whip, 0dBi nominal (3dBi maximum).					
Modulation:	AM					
Emission Designator:	6k00A3E Bn = 2M M = 3000 Bn = 6000					
DUT Power Source:	12 VDC Battery, DC Power Supply (13.8 V) / 9 x1.5VDC cells (13.5VDC).					
Type of Equipment:	Licensed Nor	n-Broadcast Station Transmitter (TNB)				
Deviation(s) from standard/procedure:	None					
Modification of DUT:	None					
Applicable Standards:	EIA/TIA-382-	A, FCC CFR 47 Part 95, RSS-GEN, RSS-236				

Applicant:	Unide	en America Corporation	FCC ID: AMWUT4 Ind. Can.: 513C-UT4			Model(s):	RoadKing 5640	Unideni
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 6 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



Appendix A RF Output Power Measurement

A.1 REFERENCES

Normative Reference Standard FCC CFR 47 §2.1046, §95D, RSS-236

A.2 LIMITS

§95.639 RSS-236, 5.2 4W (36dBm).

A.3 ENVIRONMENTAL CONDITIONS					
Temperature	15 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00110	Gigatronics	8652A	Power Meter	17-Feb-16
00248	Gigatronics	80334A	Power Sensor	17-Feb-16

Applicant:	Uniden America Corporation		FCC ID: Ind. Can.:		UT400 ·UT400	Model(s):	RoadKing 5640	Uniden
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 7 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



A.4 TEST RESULTS: COMPLIES

Transmit Power										
High Power	Measured (dBm)	Rated (dBm)	Margin (dB)							
Ch. 1	35.3	36.0	-0.7							
Ch. 20	35.4	36.0	-0.6							
Ch. 40	35.3	36.0	-0.7							

A.5 SIGN-OFF

M. Whiel

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Glen Westwell Lab Manager Celltech Labs Inc.

5/7/2014

Date

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:			Model(s):	RoadKing 5640	Uniden*	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz			
2014 Celltech L	2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 8 of 31		



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN

Test Report Issue Date: 5/7/2014
Test Report Revision No.: 1.1

Test Site Registration(s):



Appendix B Modulation Characteristics (Modulation Limiting)

			FS

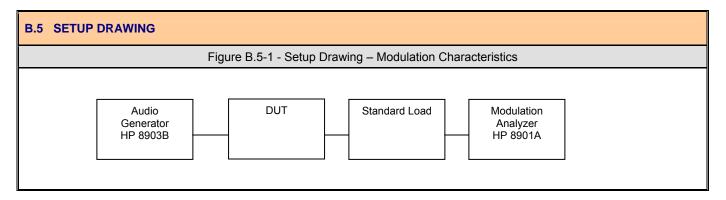
Normative Reference Standard FCC CFR 47 §2.1047, Part 95D, 95.637, RSS-236, 5.3.2

B.2 LIMITS

FCC §2.1047 Modulation can not exceed 100%

B.3 ENVIRONMENTAL CONDITIONS						
Temperature	15 +/- 5 °C					
Humidity	40 +/- 10 %					
Barometric Pressure	101 +/- 3 kPa					

B.4 EQUIPMENT LIST									
ASSET NUMBER MANUFACTURER MODEL		DESCRIPTION	CAL DUE						
00028	HP	8901A	Modulation Analyzer	21Jul14					
00027	HP	8903B	Audio Generator/Analyzer	21Jul14					



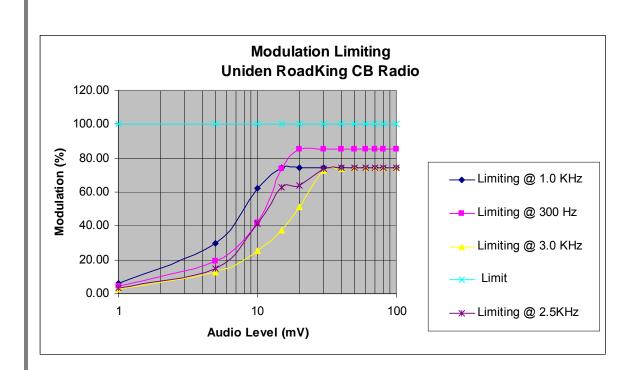
	Applicant:	Unide	en America Corporation			UT400 UT400 Model(s):		RoadKing 5640	Uniden*
	DUT Type:	AM Mobile CB Radio Transceiver.			Frequen	cy Range:			
2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Ce					permission of Celltech Labs Inc.	Page 9 of 31			



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN







B.7 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Bi Notwell

Glen Westwell Lab Manager Celltech Labs Inc.

5/7/2014

Date

Applicant:	Unide	en America Corporation			AMWUT400 513C-UT400 Model(s):		RoadKing 5640	Unideni
DUT Type:	AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz		
2014 Celltech L	_abs Inc.	This document is not to be rep	produced in whol	e or in par	t without th	e prior written p	permission of Celltech Labs Inc.	Page 10 of 31



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



Appendix C Modulation Characteristics (Audio Frequency Response & Low Pass Filter)

C.1					

Normative Reference Standard FCC CFR 47 §2.1047, TIA/EIA-382-A, Para 25.

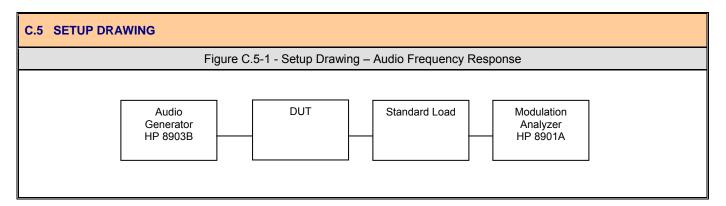
C.2 LIMITS

FCC §2.1047

a) Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.

C.3 ENVIRONMENTAL CONDITIONS					
Temperature	25 +/- 5 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

C.4 EQUIPMENT LIST							
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE			
00028	HP	8901A	Modulation Analyzer	21Jul14			
00027	HP	8903B	Audio Generator/Analyzer	21Jul14			

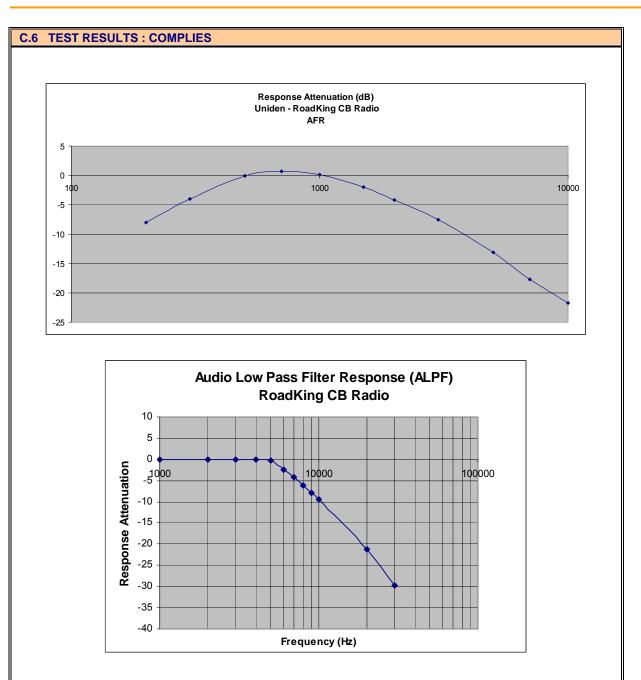


	Applicant:	Unide	America Cornoration			UT400 ·UT400	Model(s):	RoadKing 5640	Uniden°
	DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequen	cy Range:	26.965 - 27.405 MHz	
I	2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.					Page 11 of 31			



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN





C.7 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

D. Water

Glen Westwell Lab Manager

Celltech Labs Inc, 2 May 2014

Applicant:	Uniden America Corporation		FCC ID: Ind. Can.:		UT400 -UT400	Model(s):	RoadKing 5640	Uniden
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequen	ncy Range:	26.965 - 27.405 MHz	
2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 12 of 31		



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



Appendix D Occupied Bandwidth and Emission Mask

D.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §2.1049, §95.635, RSS-236, 5.4.4
Procedure Reference / Description	Occupied bandwidth was performed by connecting the output of the DUT to the input of a spectrum analyzer. The unit was supplied a 2500Hz audio signal adjusted to 50% plus 16dB.

D.2 LIMITS	
	At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.
§95.635 RSS-236, 5.4.4	At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 250% of the authorized bandwidth.
	At least 53 + 10 $\log_{10}(T)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

D.3 ENVIRONMENTAL CONDITIONS				
Temperature	10 °C			
Humidity	40 +/- 10 %			
Barometric Pressure	101 +/- 3 kPa			

D.4 EQUIPMENT LIST							
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE			
00241	R&S	FSP40	Spectrum Analyzer	04/09/2015			
00027	HP	8903B	Audio Generator/Analyzer	21/07/2014			

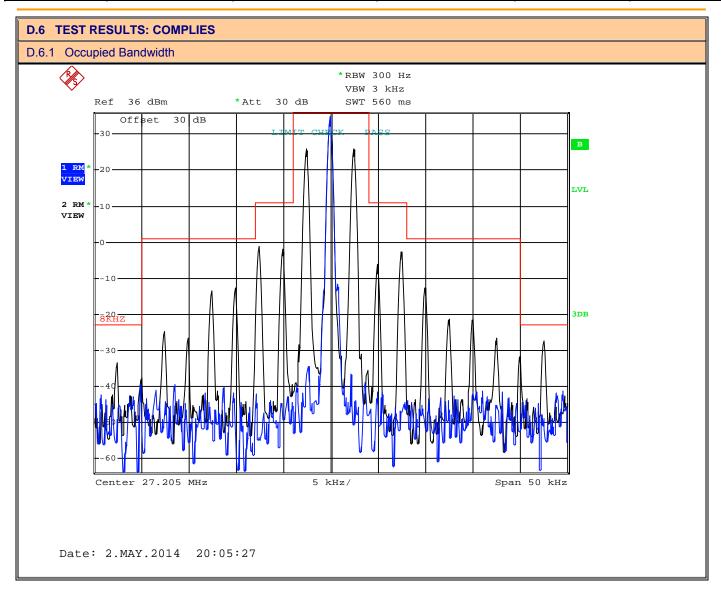
D.5 SETUP DRAWING									
Fig	Figure D.5-1 - Setup Drawing – Occupied Bandwidth & Emission Mask								
Audio Generator HP 8903A		DUT		Standard Load		Spectrum Analyzer			

Applicant:	Uniden America Corporation		FCC ID: Ind. Can.:		UT400 ·UT400	Model(s):	RoadKing 5640	Uniden
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 13 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN





D.7 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Glen Westwell
Lab Manager
Celltech Labs Inc.

5/7/2014

Date

Applicant:	Unide	en America Corporation	FCC ID: AMWUT400 Ind. Can.: 513C-UT400			Model(s):	RoadKing 5640	Uniden*
DUT Type:		AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	abs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 14 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN

Test Report Issue Date: 5/7/2014
Test Report Revision No.: 1.1

FCC Accredited Site

Test Site Registration(s):



Appendix E Spurious Emissions at the Antenna Terminal

E.1					

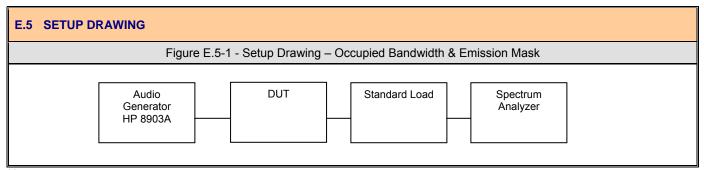
Normative Reference Standard FCC CFR 47 §2.1051, Part 95D,95.635; RSS-236, 5.4.4, RSS-GEN

E.2 LIMITS

Part 95D: 95.635 RSS-236: 5.4.4 53 + 10 Log (Po) = 59dBc, 60dBc ≥ twice the fundamental frequency.

E.3 ENVIRONMENTAL CONDITIONS						
Temperature	25 +/- 5 °C					
Humidity	40 +/- 10 %					
Barometric Pressure	101 +/- 3 kPa					

E.4 EQUIPMENT LIST							
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE			
00027	HP	8903B	Audio Generator/Analyzer	21-Jul-14			
00099	Mini-Circuits	BHP-50	High Pass Filter	Cal on use			
00241	R&S	FSU40	Spectrum Analyzer	04-Sep-15			



Notes:

- The spectrum was searched from 9 kHz to 500 MHz.
- All detected emissions have been reported.

Detected Emissions

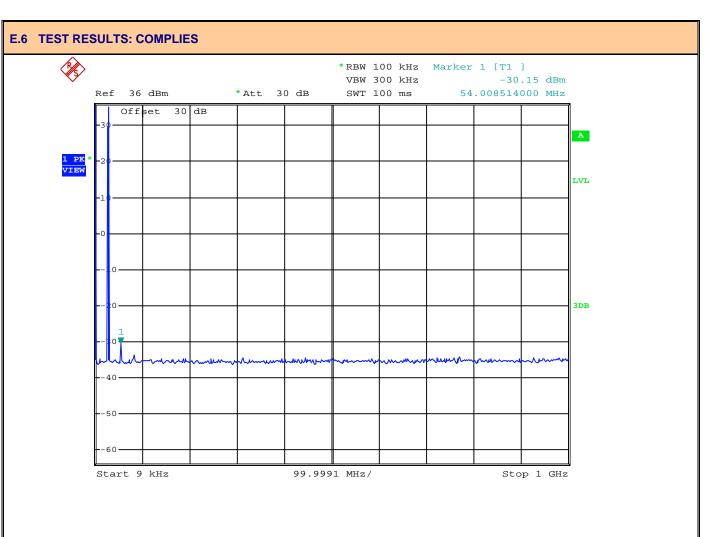
Emission Frequency	Level	Level	Limit	Margin
[MHz]	[dBm]	[dBc]	[dBc]	[dB]
54.41	-29.16	65.16	60	-5.16
81.6	-34.99	70.99	60	-10.99
136.025	-35.21	71.21	60	-11.21

Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT400 ·UT400	Model(s):	RoadKing 5640	Uniden*
DUT Type:		AM Mobile CB Radio Transceiver. Frequency			Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	4 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 15 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site





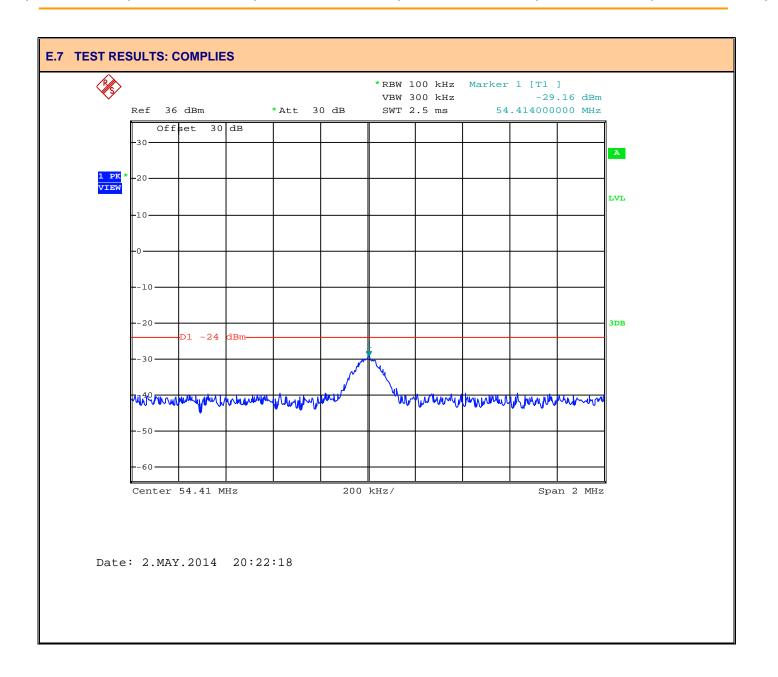
Date:	0 1/17/17	2014	20.17.24
Date.	Z.MAY.	ZU14	20:17:34

Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT400 ·UT400	Model(s):	RoadKing 5640	Uniden*
DUT Type:		AM Mobile CB Radio Transceiver.			Frequer	ncy Range:	26.965 - 27.405 MHz	
2014 Celltech L	2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 16 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



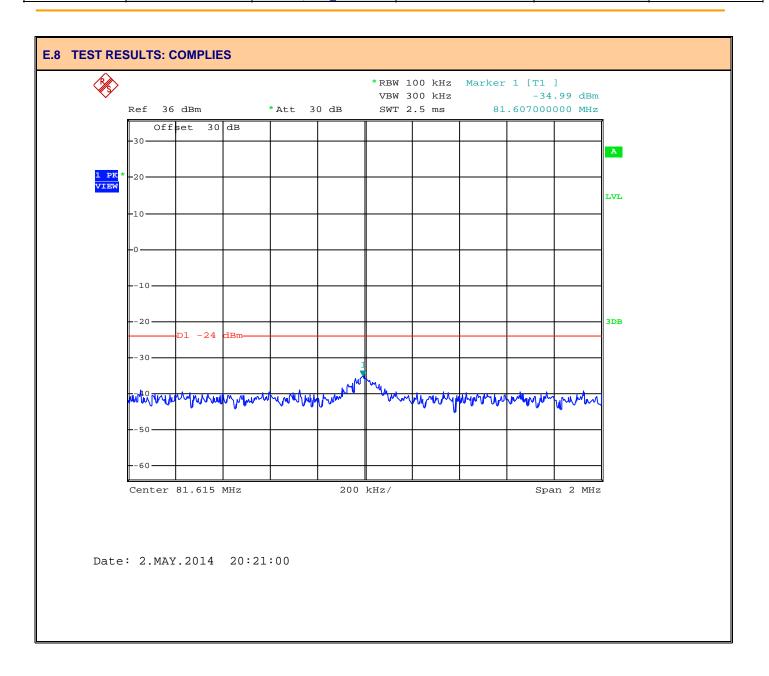


Applicant:	Unide	en America Corporation	FCC ID: AMWUT400 Ind. Can.: 513C-UT400		Model(s):	RoadKing 5640	Uniden*	
DUT Type:		AM Mobile CB Radio Transceiver.			Frequer	ncy Range:	26.965 - 27.405 MHz	
2014 Celltech L	h Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.					Page 17 of 31		



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



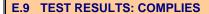


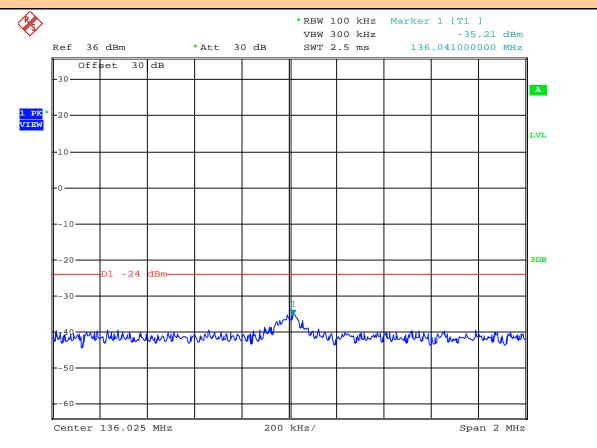
Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT400 ·UT400	Model(s):	RoadKing 5640	Uniden°
DUT Type:		AM Mobile CB Radio Transceiver.			Frequer	ncy Range:	26.965 - 27.405 MHz	
2014 Celltech L	elltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 18 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site







Date: 2.MAY.2014 20:22:49

E.10 SIGN-OFF

5/7/2014

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Glen Westwell
Lab Manager
Celltech Labs Inc.

Date

Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT400 UT400	Model(s):	RoadKing 5640	Uniden
DUT Type:	AM Mobile CB Radio Transceiver.			Frequen	cy Range:	26.965 - 27.405 MHz		
2014 Celltech L	Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.					Page 19 of 31		



Test Report Serial No.:	050514AMW-T1295-E95D	
Measurement Date(s):	18/04/2014-25/042014	
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	

Test Report Issue Date: 5/7/2014

Test Report Revision No.: 1.1

Test Site Registration(s):

1.1 FCC Accredited Site



Appendix F Radiated Spurious Emissions

F.1 REFERENCES						
Normative Reference Standard	FCC CFR 47 §2.1053, §95.635, §15B: RSS-236, 5.4, RSS-GEN					
Procedure Reference	ANSI/TIA/EIA-382-A, ANSI C63.4					

F.2 LIMITS	
FCC §95.635 RSS-236, 5.4	At least 53 + 10 log ₁₀ (T) dB on any frequency removed from the center, 60 dB twice removed from fundamental.

F.3 ENVIRONMENTAL CONDITIONS					
Temperature	18 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

F.4 EQUIPMENT LIST							
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE			
00072	EMCO	2075	Mini-mast	cnr			
00073	EMCO	2080	Turn Table	cnr			
00071	EMCO	2090	Multi-Device Controller	cnr			
00241	R&S	FSU40	Spectrum Analyzer	04-Sep-15			
00050	Chase	CBL-6111A	Bilog Antenna	03-May-15			
00055	EMCO	3121C	Dipole Antenna	27-Aug-14			
00051	HP	8566B	Spectrum Analyzer RF Section	03-May-14			
00049	HP	85650A	Quasi-peak Adapter	06-May-14			
00047	HP	85685A	RF Preselector	05-May-14			
00006	R&S	SMR 20	Signal Generator (10MHz-40GHz)	30-Apr-14			
00239	Mini-Ccts	ZFL-1000VH	Amplifier 10MHz-1GHz	Cal on use			
00007	Gigatronics	8652A	Power Meter	04-May-14			
00014	Gigatronics	80701A	Power Sensor	04-May-14			

cnr = calibration not required

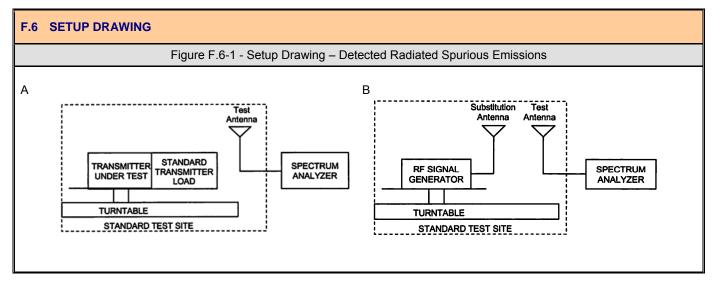
Applicant:	Unide	niden America Corporation FO			UT400 ·UT400	Model(s):	RoadKing 5640	Uniden°
DUT Type:		AM Mobile CB Radio Transceiver.			Frequen	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	abs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.					Page 20 of 31		



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



F.5 MEASUREMENT EQUIPMENT SETUP For the field strength measurements, the measurement equipment was connected as shown in F.6. A number of antennas were used to cover the applicable frequency range tested. The ranges in which each antenna was used are as follows. For the final substitutions, the DUT was replaced with the appropriate antenna and fed from a CW signal source sufficient to replicate the received field strength of the emission **MEASUREMENT** being investigated. **EQUIPMENT** CONNECTIONS Frequency Range RX Antenna TX Antenna 9kHz - 30MHz 6502 Loop Ant N/A 30 MHz - 1GHz Bilog Dipole For measuring the radiated field strength of emissions, the spectrum analyzer was set to the following **RBW VBW** MEASUREMENT Range Detector **EQUIPMENT** kHz kHz **SETTINGS** 9kHz - 30MHz 10 30 Peak 30 MHz - 1GHz 100 300 Peak 1 GHz - 18 GHz 1000 3000 Peak



Notes:

- The spectrum was searched from the lowest frequency generated in the device to the 10th harmonic of the fundamental.
- All detected emissions have been reported.
- The DUT was searched on all axis for worst case performance.
- · Worst case emissions are reported.

Applicant:	Unide	en America Corporation	FCC ID: AMWUT Ind. Can.: 513C-UT			Model(s):	RoadKing 5640	Uniden*
DUT Type:	AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz		
2014 Celltech L	014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 21 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



F.7 TEST RESULTS: COMPLIES

Radiated Emissions: Signal Substitution (Fig. A&B)

TX: 27.205 MHz	Ant. Polarity	Emission Level	Substitution Level	Antenna Gain	Amp Gain	Corrected Level	Limit	Margin
(MHz)		(dBuV)	(dB)	(+dBd)	(-dB)	(dBm)	(dBm)	(dB)
54.41	V	54.0	-60.9	-1.45	21.4	-83.75	-24.0	-59.75
81.6	V	52.3	-65.9	-0.05	21.5	-87.45	-24.0	-63.45
108.82	V	63.1	-52.9	-0.15	21.6	-74.65	-24.0	-50.65
136.025	V	81.3	-30.9	-0.55	21.6	-53.05	-24.0	-29.05
163.23	Н	75.5	-34.9	-1.05	21.6	-57.55	-24.0	-33.55
190.435	V	75.3	-36.9	-0.95	21.6	-59.45	-24.0	-35.45
217.64	Н	79.8	-39.9	-0.75	21.6	-62.25	-24.0	-38.25
244.845	V	74.0	-36.2	-0.25	21.6	-58.05	-24.0	-34.05
272.05	Н	74.5	-13.9	-0.35	21.6	-35.85	-24.0	-11.85

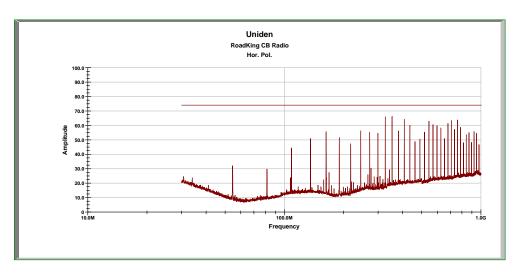
Applicant:	Unide	en America Corporation	FCC ID: AMWUT400 Ind. Can.: 513C-UT400		Model(s):	RoadKing 5640	Uniden°
DUT Type:	AM Mobile CB Radio Transceiver.			Frequen	cy Range:	26.965 - 27.405 MHz	
2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 22 of 31	

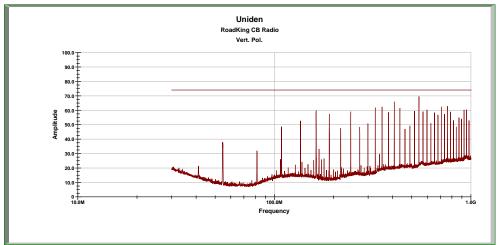


Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



Part 15B, Radiated Emissions plot using peak Detector Uniden RoadKing CB Radio



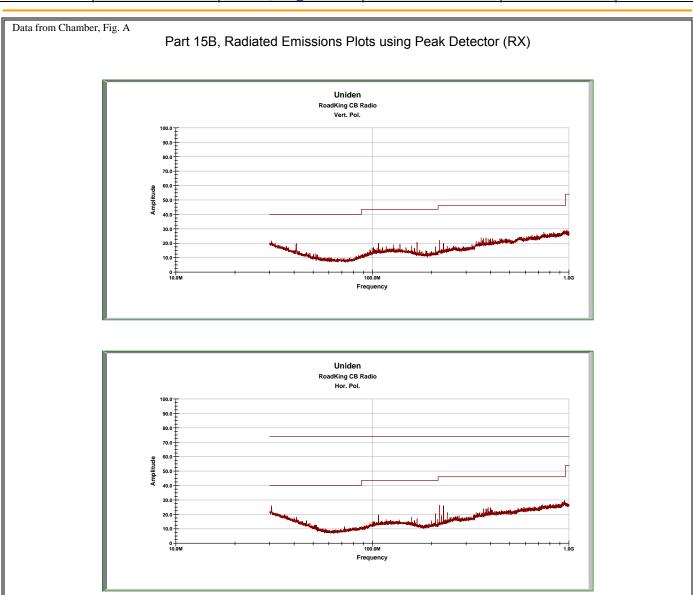


Applicant:	Unide	en America Corporation	FCC ID: AMWUT400 Ind. Can.: 513C-UT400		Model(s):	RoadKing 5640	Unideni
DUT Type:	AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	abs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 23 of 31



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site





F.8 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Glen Westwell Lab Manager Celltech Labs Inc.

5/7/2014

Date

Applicant:	Unide	n America Corporation	FCC ID: AMWUT400 Ind. Can.: 513C-UT400			Model(s):	RoadKing 5640	Unideni
DUT Type:	AM Mobile CB Radio Transceiver.				Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	4 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 24 of 31	



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):



5/7/2014

FCC Accredited Site

1.1

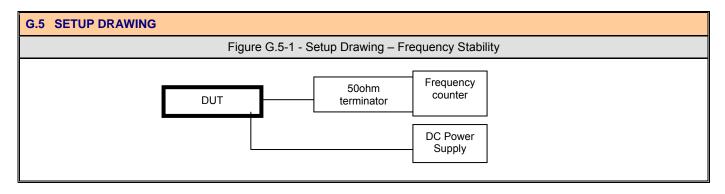
Appendix G Frequency Stability

G.1 REFERENCES				
Normative Reference Standard	FCC CFR 47 §2.1055, §95.625, RSS-GEN			
Procedure Reference / Description	The frequency stability shall be measured with variation of ambient temperature as follows: (1) From -30° to +50° centigrade.			

G.2 LIMITS	
FCC §95.625	The channel center must be maintained within a frequency tolerance of 0.005%.

G.3 ENVIRONMENTAL CONDITIONS				
Temperature	25 +/- 5 °C			
Humidity	40 +/- 10 %			
Barometric Pressure	101 +/- 3 kPa			

G.4 EQUIPMENT LIST							
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE			
na	ESPEC	ECT-2	Heater/Refrigerator	na			
0003	HP	53181A	Frequency Counter	09-Apr-14			
na	HP	E3611A	DC Power Supply	Cal on use			
00234	VWR	61161-378	Temperature Humidity Monitor	10-Dec-14			



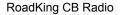
Applicant:	Unide	en America Corporation	FCC ID: AMWU		UT400 ·UT400	Model(s):	RoadKing 5640	Uniden
DUT Type:		AM Mobile CB Radio Tr	CB Radio Transceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.							Page 25 of 31

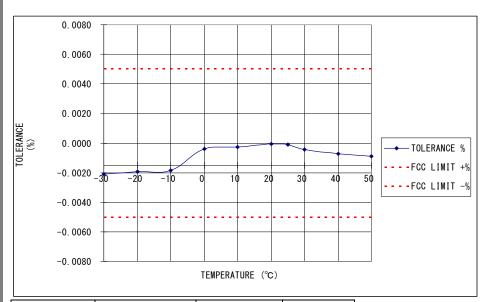


Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



G.6 TEST RESULTS: COMPLIES





Channel: 20			
Temperature (degrees C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Deviation (%)
-30	27.205 000	27.204431	-0.0020915
-20	27.205 000	27.204471	-0.0019445
-10	27.205 000	27.204495	-0.0018563
0	27.205 000	27.204887	-0.0004154
10	27.205 000	27.204922	-0.0002867
20	27.205 000	27.204981	-0.0000698
30	27.205 000	27.204972	-0.0001029
40	27.205 000	27.204880	-0.0004411
50	27.205 000	27.204801	-0.0007315

Remark: Pass/fail criteria for frequency tolerance is 0.005%

Battery %	Assigned frequency (MHz)	Measured Frequency (MHz)	Deviation %
-15%	27.205 000	27 204 976	-0.0000882
0%	27.205 000	27 204 976	-0.0000882
15%	27.205 000	27 204 975	-0.0000919

G.7 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

D. Water

Glen Westwell

Lab Manager Celltech Labs Inc.

5/7/2014 Date

Applicant:	Unide	n America Corporation	FCC ID: AMWUT4 Ind. Can.: 513C-UT4			Model(s):	RoadKing 5640	Uniden
DUT Type:		AM Mobile CB Radio Transceiver.		Frequency Range: 26.965 - 27.405 MHz		26.965 - 27.405 MHz		
2014 Celltech L	abs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.							Page 26 of 31



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN



Appendix H Device Photographs



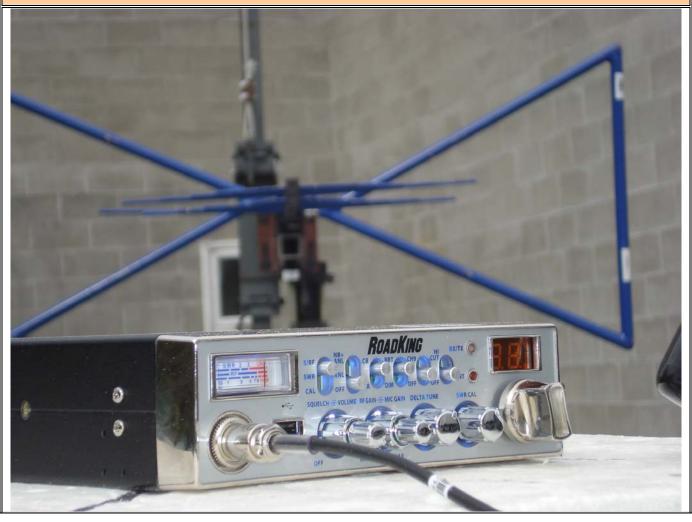
Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:			Model(s):	RoadKing 5640	Uniden*
DUT Type:		AM Mobile CB Radio Tr	ansceiver. Free		Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech L	Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.							Page 27 of 31



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN



H.2 DUT PHOTOS- RADIATED EMISSIONS



Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT400 UT400	Model(s):	RoadKing 5640	Unideni
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 28 of 31		



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN



H.3 DUT PHOTOS- RADIATED EMISSIONS

Applicant:	Unide	en America Corporation	FCC ID: AMWU		UT400 UT400	Model(s):	RoadKing 5640	Uniden:
DUT Type:	AM Mobile CB Radio Transceiver.		Frequency Range: 26.965 - 27.405 MHz					
2014 Calltach Labe Inc. This document is not to be reproduced in whole or in part without the prior written permission of Calltach Labe Inc.						Page 20 of 31		



Test Report Serial No.:	050514AMW-T1295-E95D
Measurement Date(s):	18/04/2014-25/042014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN





Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:			Model(s):	RoadKing 5640	Uniden°
DUT Type:	AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz		
2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 30 of 31		



Test Report Serial No.:	050514AMW-T1295-E95D	Test Report Issue Date:	5/7/2014
Measurement Date(s):	18/04/2014-25/042014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



END OF DOCUMENT

Applicant:	Unide	en America Corporation			AMWUT400 513C-UT400 Model(s):		RoadKing 5640	Uniden*
DUT Type:	AM Mobile CB Radio Transceiver.				Frequen	cy Range:	26.965 - 27.405 MHz	
2014 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.						Page 31 of 31		