

	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	
	Measurement Date(s):	07/08/2014-11/08/2014	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	

Test Lab Certificate No. 2470.01

COMPLIANCE TEST REPORT		FCC PART 95D RSS-236		EMC/RF MEASUREMENT REPORT	
Test Lab Information	Name	CELLTECH LABS INCORPORATED			
	Address	21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada			
Test Lab Accreditation(s)	A2LA	ISO 17025:2005 (A2LA Test Lab Certificate No. 2470.01)			
Test Site Registration No.	FCC	Accredited Site			
	IC	3874A-1			
Applicant Information	Name	UNIDEN AMERICA CORPORATION			
	Address	6225 North State Highway 161, Suite 300 Irving, Texas 75038			
Measurement Standard(s) & Procedure(s) Applied	FCC Ind. Can.	47 CFR Part 95 Subpart D RSS-236			
	ANSI	TIA/EIA-382-A	C63.4-2003		
Device Classification(s)	FCC/IC	Licensed Non-Broadcast Station Transmitter (TNF)			
Device RF Exposure Category	FCC	Mobile			
Device Identifier(s)	FCC ID: Ind. Can.	AMWUT563 513C-UT563			
Application Type	FCC/IC	Certification			
Device Under Test (DUT)	Mobile CB Radio Transceiver with weather alert.				
Device Model	BC980SSBW				
Test Sample Serial No.(s)	TA Sample - Identical Prototype				
Transmit Frequency Range(s)	26.965 - 27.405 MHz				
Channels	1-40				
Rated MAX. TX Power	4W AM, 12 PEP SSB.				
Modulation Type(s)	AM, SSB.				
Emission Designator(s)	6K00A3E, 3K00J3E				
Antenna	External Whip, 0dBi nominal (3dBi maximum).				
Power Source(s) Tested	DC Power Supply (13.8 V)				
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	8/21/2014	Celltech Labs Inc.	

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site	

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Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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TEST SUMMARY					
Referenced Standard(s):		FCC CFR Title 47 Parts 2, 95(D), 15(B)			
Appendix	Description of Test	Procedure Reference	Limit Reference	Date of compliance test verification	Result
A	Conducted Power	ANSI/TIA/EIA-382-A	§2.1033, 95 RSS-236	8/21/2014	Pass
B	Modulation & PEP Limiting	ANSI/TIA/EIA-382-A	§2.1047, 95 RSS-236	8/21/2014	Pass
C	Audio Frequency Response	ANSI/TIA/EIA-382-A	§2.1047, 95 RSS-236	8/21/2014	Pass
D	Occupied Bandwidth and Emission Mask	ANSI/TIA/EIA-382-A	§2.1049, 95 RSS-236	8/21/2014	Pass
E	Conducted TX Spurious Emissions	ANSI/TIA/EIA-382-A	§2.1053, 95 RSS-236	8/21/2014	Pass
F	Radiated TX Spurious Emissions	ANSI/TIA/EIA-382-A	§2.1053, 95 RSS-236	8/21/2014	Pass
	Radiated Spurious Emissions	ANSI C63.4:2003	§15 Subpart B ICES-003	8/21/2014	Pass
G	Frequency Stability	ANSI/TIA/EIA-382-A	§2.1055, 95 RSS-236	8/21/2014	Pass

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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REVISION LOG

Revision	Description	Implemented By	Implementation Date
1.0	1st Release		8/21/2014
1.1	Corrected test equipment cal data.	Glen Westwell	8/21/2014

Test Report Prepared By	Date	QA Review By	Date
Glen Westwell	8/21/2014	Art Voss	8/21/2014

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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Test Lab Certificate No. 2470.01

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: AMWUT563/513C-UT563. 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:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	
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	Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site	

Test Lab Certificate No. 2470.01

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 Radio Transceiver with weather alert.	
Device Model(s):	BC980SSBW	
Test Sample Serial No.:	T/A Sample - Identical Prototype	
Device Identifier(s):	FCC ID: Ind. Can.:	AMWUT563 513C-UT563
Transmit Frequency Range:	26.965 - 27.405 MHz (Chan. 1-40)	
No. of Channels:	40	
Manuf. Max. Rated Output Power:	4W AM, 12W(PEP) SSB.	
Antenna Gain:	External Whip, 0dBi nominal (3dBi maximum).	
Modulation:	AM, SSB	
Emission Designator:	6k00A3E 2K70J3E Bn = 2M Bn = M - M1 M = 3000 M1 = 300 Bn = 6000 Bn = 2700	
DUT Power Source:	12 VDC Battery, DC Power Supply (13.8 V)	
Type of Equipment:	Licensed Non-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:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



A.1 REFERENCES

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

§95.639 RSS-236, 5.2	4W, 12w(PEP).
-------------------------	---------------

A.3 ENVIRONMENTAL CONDITIONS

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

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE
00110	Gigatronics	8652A	Power Meter	17-Feb-14 /17-Feb-16
00248	Gigatronics	80334A	Power Sensor	17-Feb-14 /17-Feb-16

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	Measurement Date(s):	07/08/2014-11/08/2014	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	

A.4 TEST RESULTS: COMPLIES

Method of Measurement: RF power is measured by connection a 50-ohm, resistive wattmeter to the RF output connector. With a nominal battery voltage, and the transmitter properly adjusted, the RF output power measures:

Test Data:

Output power: AM = 4.0 Watts
SSB = 12W(PEP)

Part 2.1033(c)(8), DC input to the final amplifier

Input power: (13.8Vdc)(1.6A) = 22.08Watts.

A.5 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.

8/21/2014

Date

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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Appendix B Modulation Characteristics (Modulation Limiting & PEP Limiting for SSB operation)

B.1 REFERENCES

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% - Modulation Limiting.
12W - PEP limiting, SSB.

B.3 ENVIRONMENTAL CONDITIONS

Temperature 15 +/- 5 °C

Humidity 40 +/- 10 %

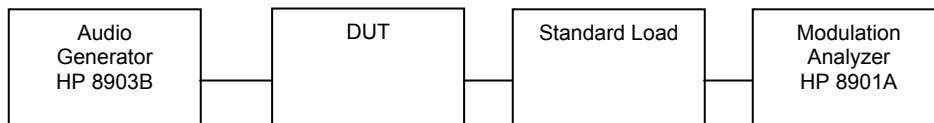
Barometric Pressure 101 +/- 3 kPa

B.4 EQUIPMENT LIST

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE
00028	HP	8901A	Modulation Analyzer	21-Dec-12 / 21-Dec-14
00027	HP	8903B	Audio Generator/Analyzer	21-Dec-12 / 21-Dec-14

B.5 SETUP DRAWING

Figure B.5-1 - Setup Drawing – Modulation Characteristics

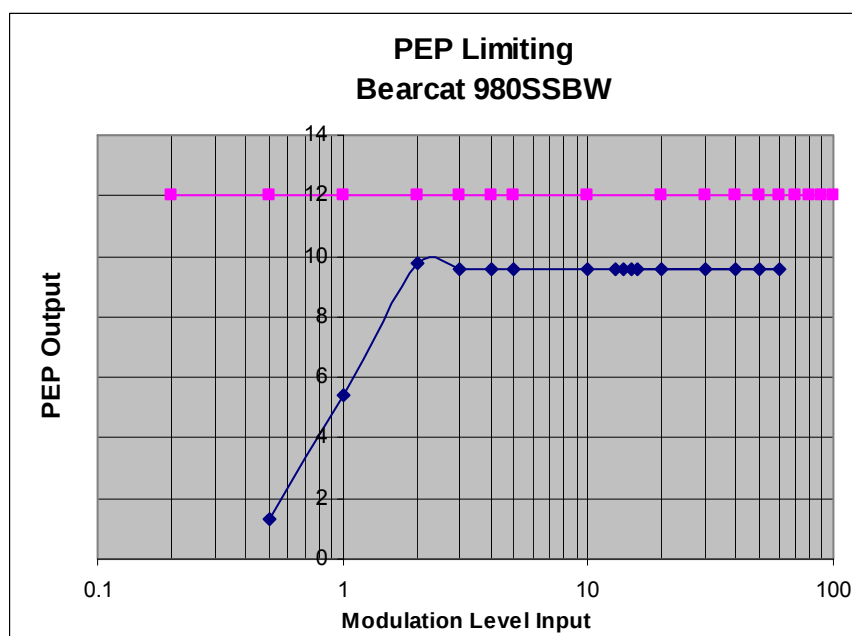
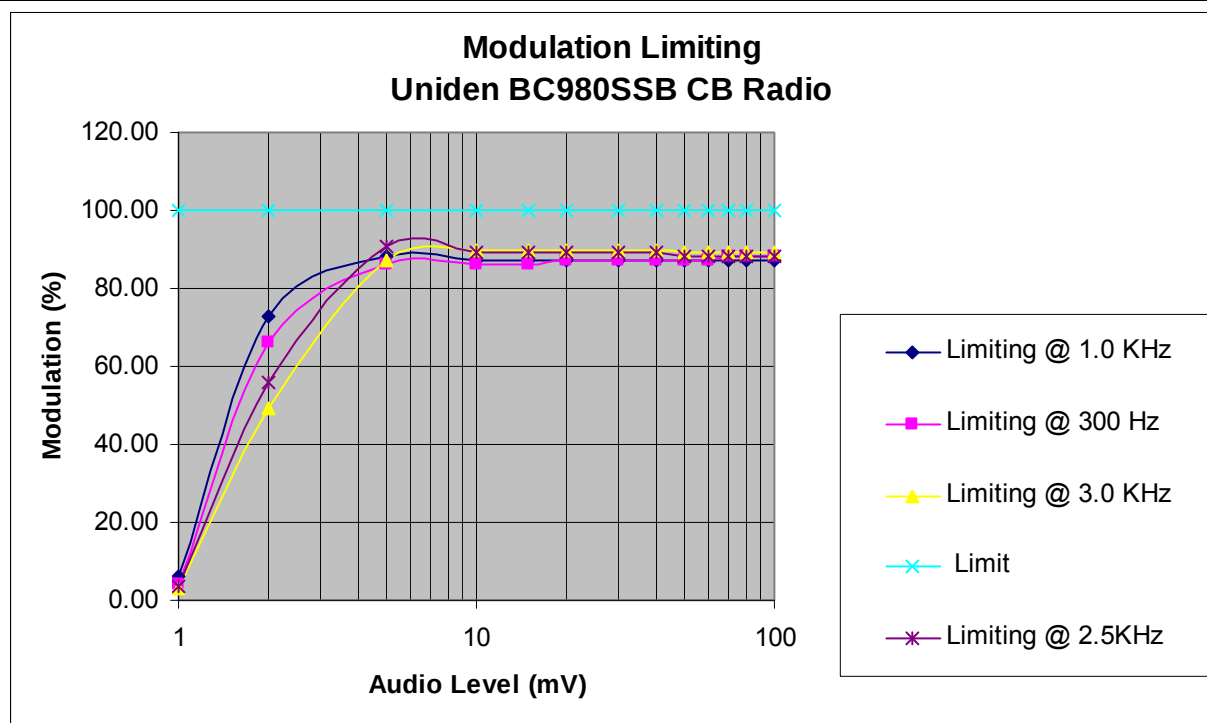


Note: Balanced tones used for SSB operation: 500Hz & 2400Hz.

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site	

B.6 TEST RESULTS: COMPLIES



B.7 SIGN-OFF

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site	

Test Lab Certificate No. 2470.01

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.

8/21/2014

Date

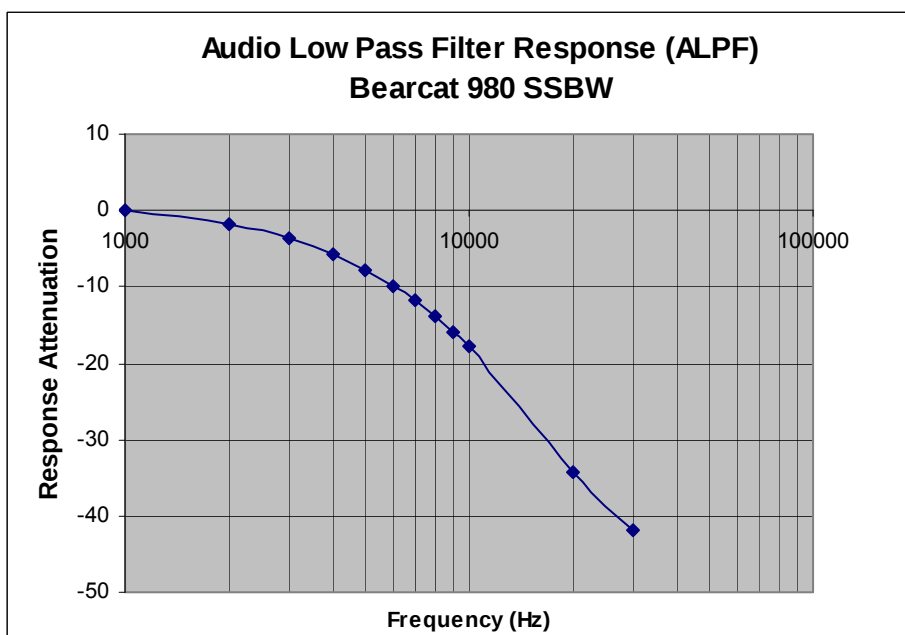
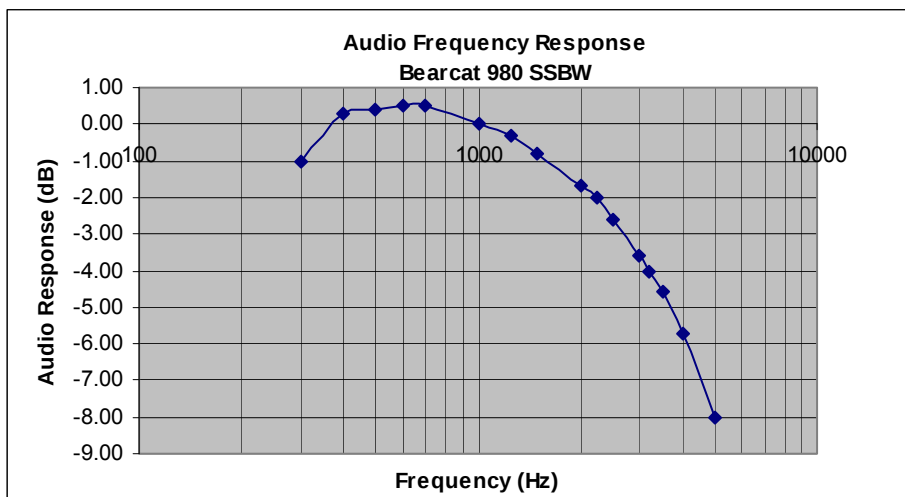
Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236 RSS GEN	Test Site Registration(s):	FCC Accredited Site



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	Measurement Date(s):	07/08/2014-11/08/2014	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	
Test Lab Certificate No. 2470.01					

C.6 TEST RESULTS : COMPLIES



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.



Glen Westwell
Lab Manager
Celltech Labs Inc, 2 May 2014

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	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

§95.635 RSS-236, 5.4.4	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. 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

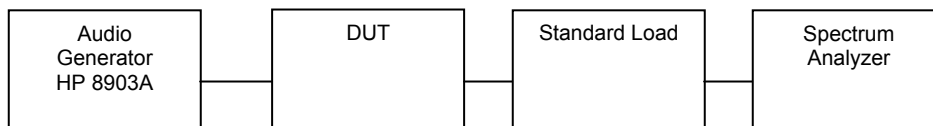
Temperature	10 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

D.4 EQUIPMENT LIST

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE
00241	R&S	FSP40	Spectrum Analyzer	(first cal cycle) / 04/09/2015
00027	HP	8903B	Audio Generator/Analyzer	21-Dec-12 / 21-Dec-2014

D.5 SETUP DRAWING

Figure D.5-1 - Setup Drawing – Occupied Bandwidth & Emission Mask

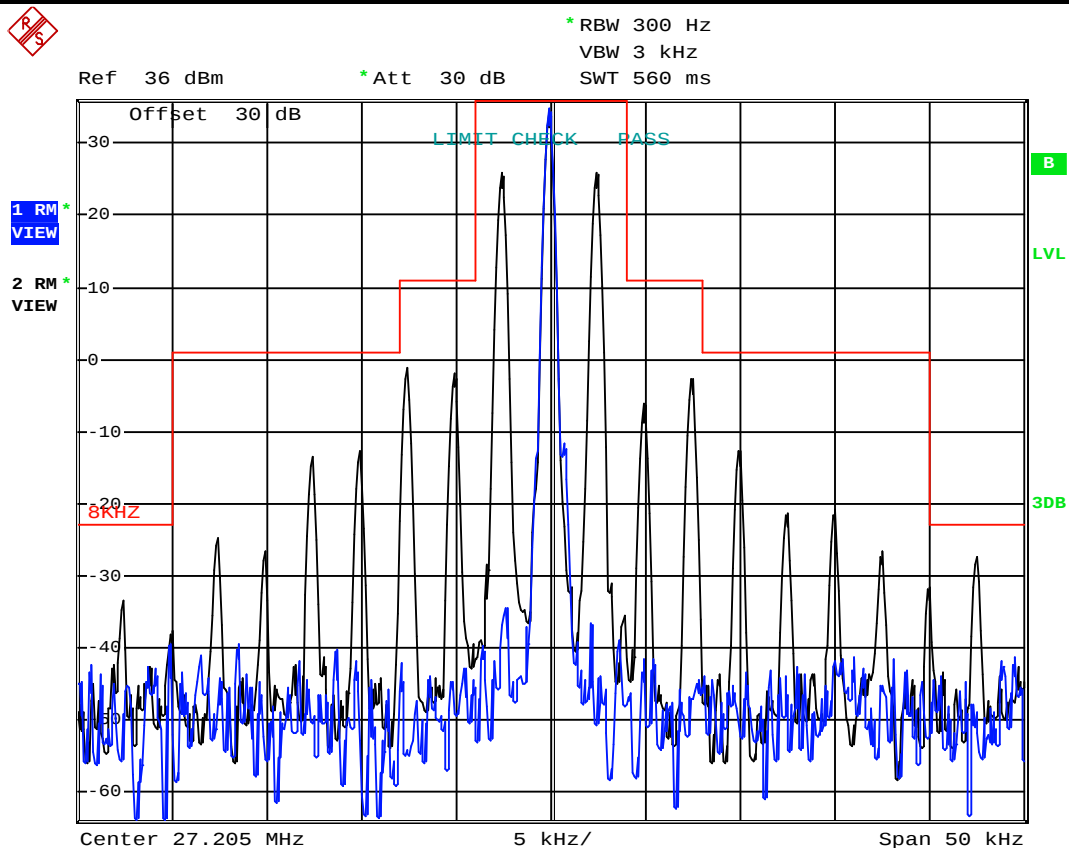


Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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D.6 TEST RESULTS: COMPLIES

D.6.1 Occupied Bandwidth, AM



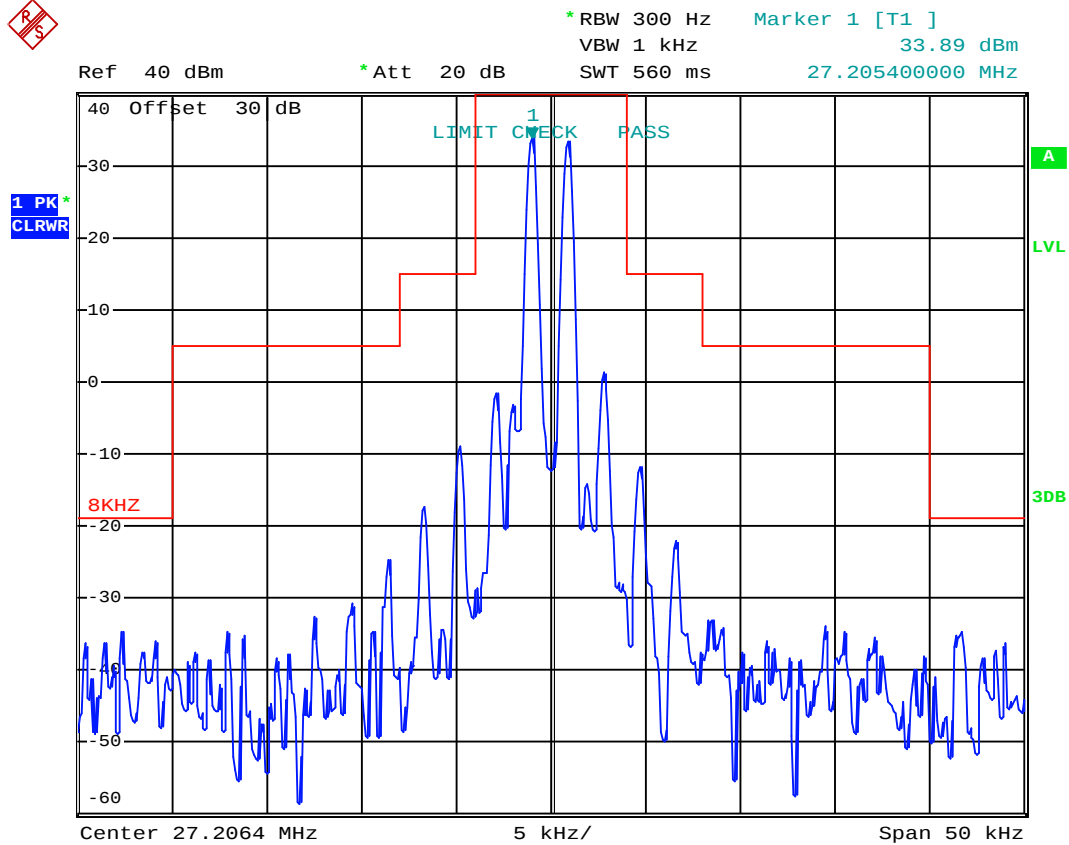
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Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site	

D.6.2 Occupied Bandwidth, SSB

USB



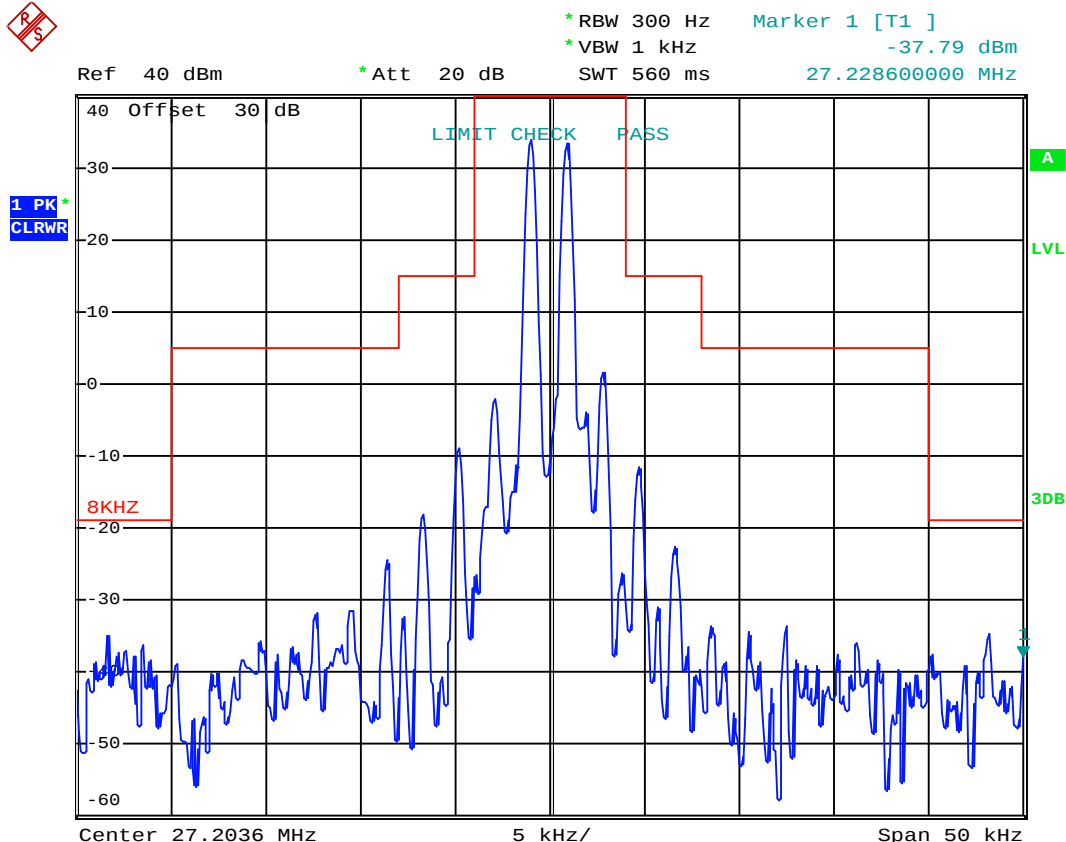
Date: 15.AUG.2014 17:50:03

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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Test Lab Certificate No. 2470.01

LSB



Date: 15.AUG.2014 17:53:53

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.

8/21/2014

Date

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	
	Measurement Date(s):	07/08/2014-11/08/2014	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	

Test Lab Certificate No. 2470.01

Appendix E Spurious Emissions at the Antenna Terminal

E.1 REFERENCES

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

$53 + 10 \log(P_o) = 59\text{dBc}$, $60\text{dBc} \geq$ twice the fundamental frequency.

E.3 ENVIRONMENTAL CONDITIONS

Temperature 25 +/- 5 °C

Humidity 40 +/- 10 %

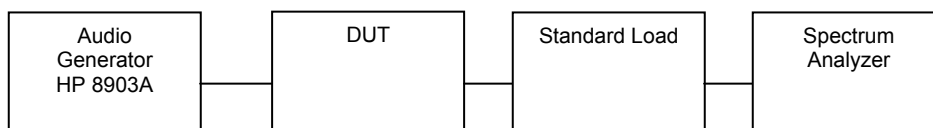
Barometric Pressure 101 +/- 3 kPa

E.4 EQUIPMENT LIST

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE
00027	HP	8903B	Audio Generator/Analyzer	21-Dec-12 / 21-Dec-14
00099	Mini-Circuits	BHP-50	High Pass Filter	Cal on use
00241	R&S	FSU40	Spectrum Analyzer	(first cal cycle) / 04-Sep-15

E.5 SETUP DRAWING

Figure E.5-1 - Setup Drawing – Occupied Bandwidth & Emission Mask



Notes:

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

Detected Emissions

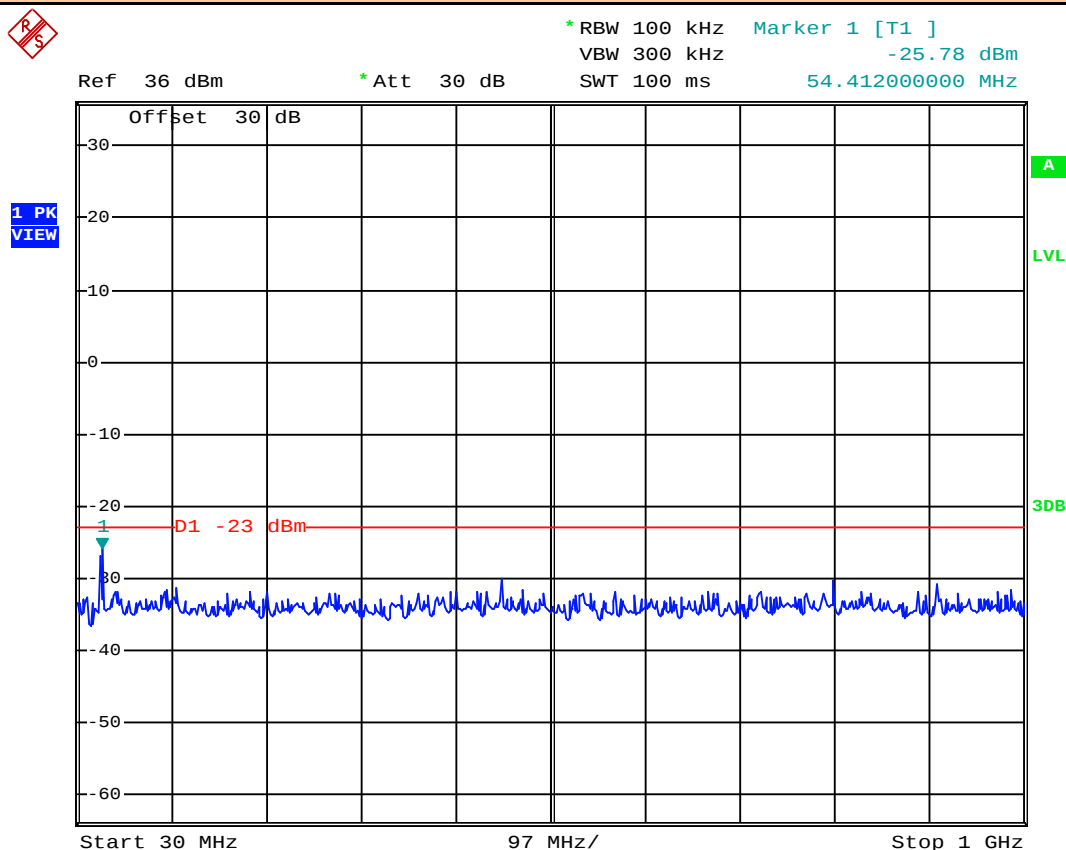
Emission Frequency	Level	Level	Limit	Margin
[MHz]	[dBm]	[dBc]	[dBc]	[dB]
54.41	-26.8	62.8	60	-2.8
244.8	-37.3	73.3	60	-13.3
272	-38.3	74.3	60	-14.3

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	
	Measurement Date(s):	07/08/2014-11/08/2014	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	

Test Lab Certificate No. 2470.01

E.6 TEST RESULTS: COMPLIES

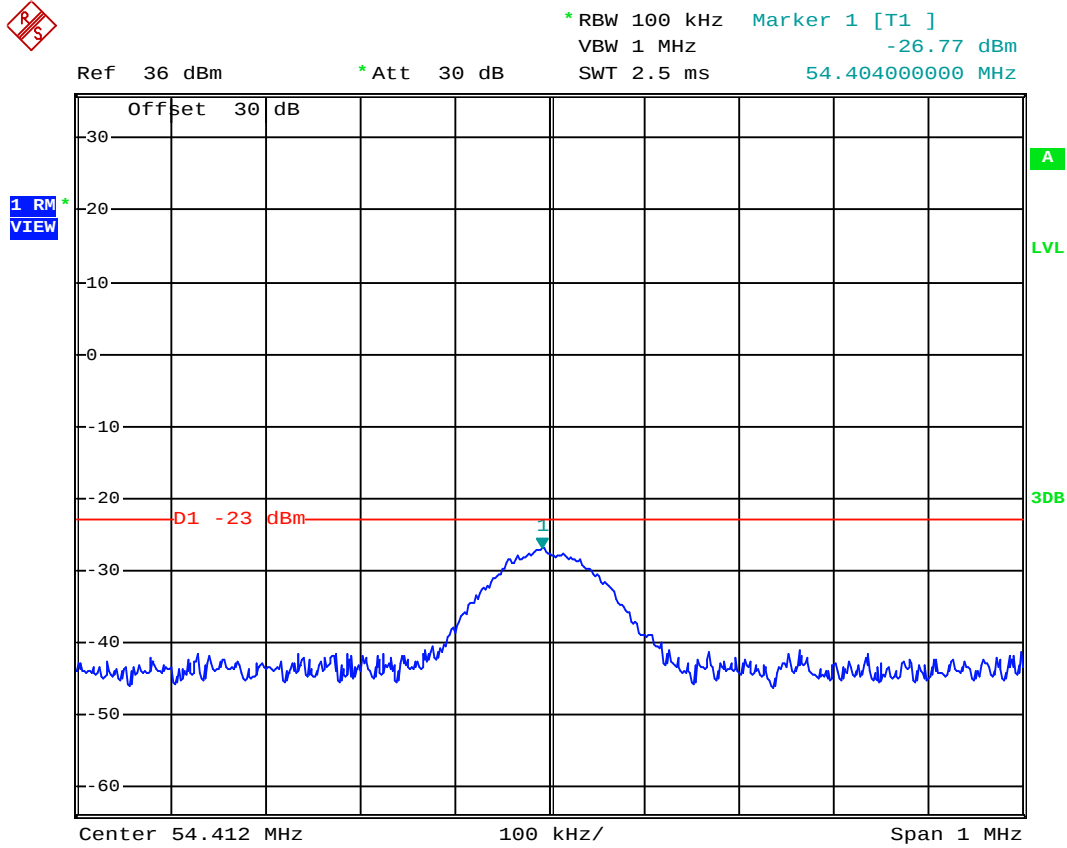


Date: 8.AUG.2014 15:52:13

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	
	Measurement Date(s):	07/08/2014-11/08/2014	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	

E.7 TEST RESULTS: COMPLIES



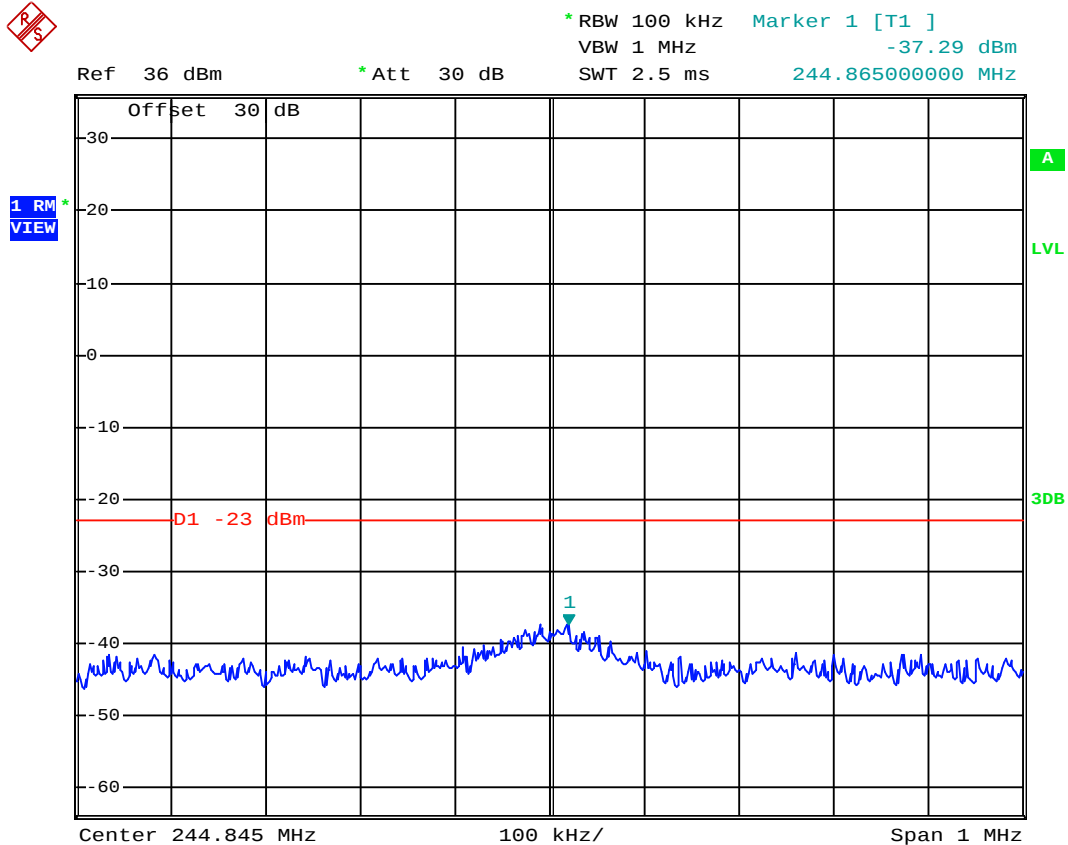
Date: 8.AUG.2014 15:53:22

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Measurement Date(s):	07/08/2014-11/08/2014	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	

E.8 TEST RESULTS: COMPLIES

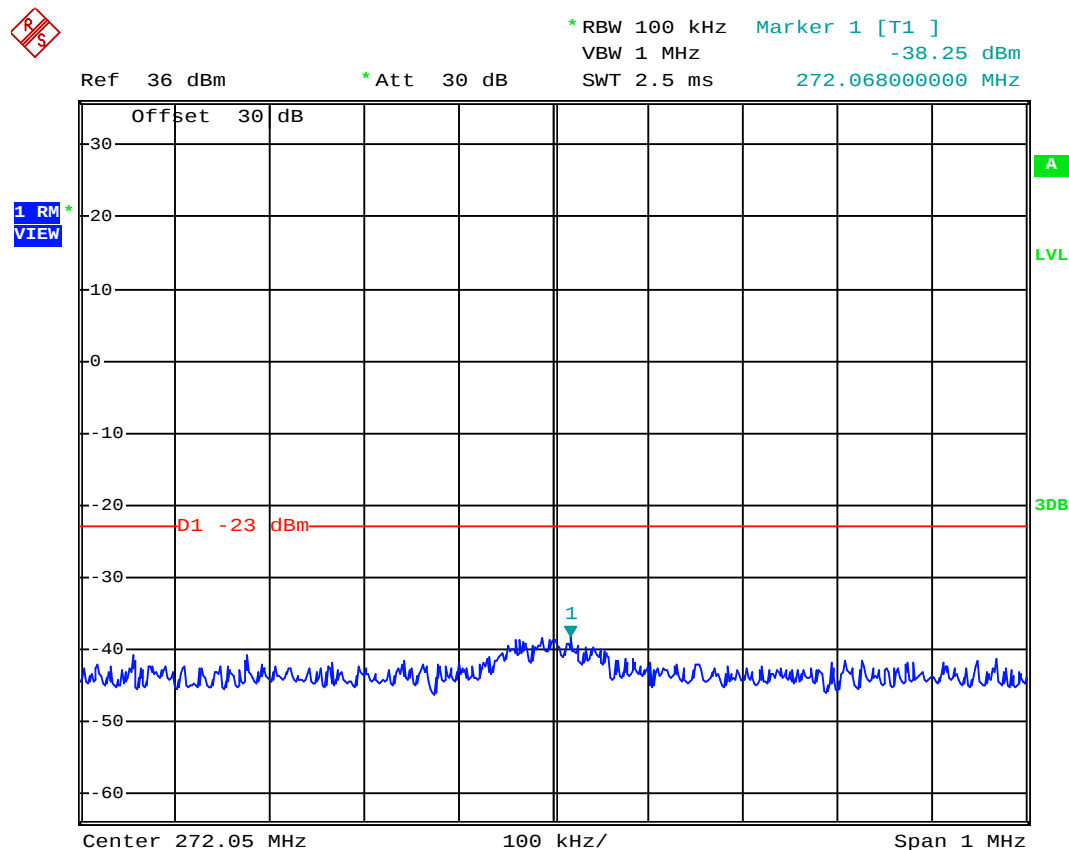


Date: 8.AUG.2014 15:54:55

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Measurement Date(s):	07/08/2014-11/08/2014	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	

E.9 TEST RESULTS: COMPLIES



Date: 8.AUG.2014 15:55:54

E.10 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.

8/21/2014

Date

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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 Testing and Engineering Services Lab	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	07/08/2014-11/08/2014	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 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	LAST CAL / 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	(first cal cycle) / 04-Sep-15
00050	Chase	CBL-6111A	Bilog Antenna	25-Apr-2014 / 25-Apr-2016
00054	EMCO	3121C	Dipole Antenna	(first cal cycle) / 30-Apr-16
00051	HP	8566B	Spectrum Analyzer RF Section	30-Apr-14 / 30-Apr-16
00049	HP	85650A	Quasi-peak Adapter	30-Apr-14 / 30-Apr-16
00047	HP	85685A	RF Preselector	30-Apr-14 / 30-Apr-16
00006	R & S	SMR 20	Signal Generator (10MHz-40GHz)	08-May-14 / 08-May-16
00239	Mini-Ccts	ZFL-1000VH	Amplifier 10MHz-1GHz	Cal on use
00110	Gigatronics	8652A	Power Meter	17-Feb-14 / 17-Feb-16
00248	Gigatronics	80701A	Power Sensor	18-Feb-14 / 18-Feb-16

cnr = calibration not required

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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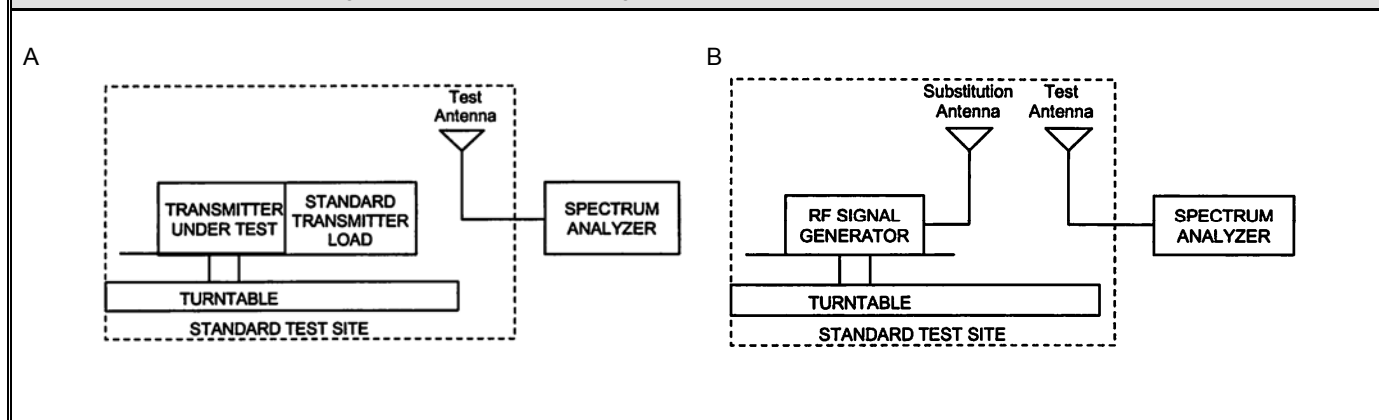
 Testing and Engineering Services Ltd	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1	
	Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site	

F.5 MEASUREMENT EQUIPMENT SETUP

MEASUREMENT EQUIPMENT CONNECTIONS	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 being investigated.		
	Frequency Range	RX Antenna	TX Antenna
	9kHz – 30MHz	6502 Loop Ant	N/A
	30 MHz - 1GHz	Bilog	Dipole
MEASUREMENT EQUIPMENT SETTINGS	For measuring the radiated field strength of emissions, the spectrum analyzer was set to the following settings:		
	Range	RBW	VBW
		kHz	kHz
	9kHz – 30MHz	10	30
	30 MHz - 1GHz	100	300
	1 GHz - 18 GHz	1000	3000
		Detector	
		Peak	
		Peak	
		Peak	

F.6 SETUP DRAWING

Figure F.6-1 - Setup Drawing – Detected Radiated Spurious Emissions



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:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Measurement Date(s):	07/08/2014-11/08/2014	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	

Test Lab Certificate No. 2470.01

F.7 TEST RESULTS: COMPLIES

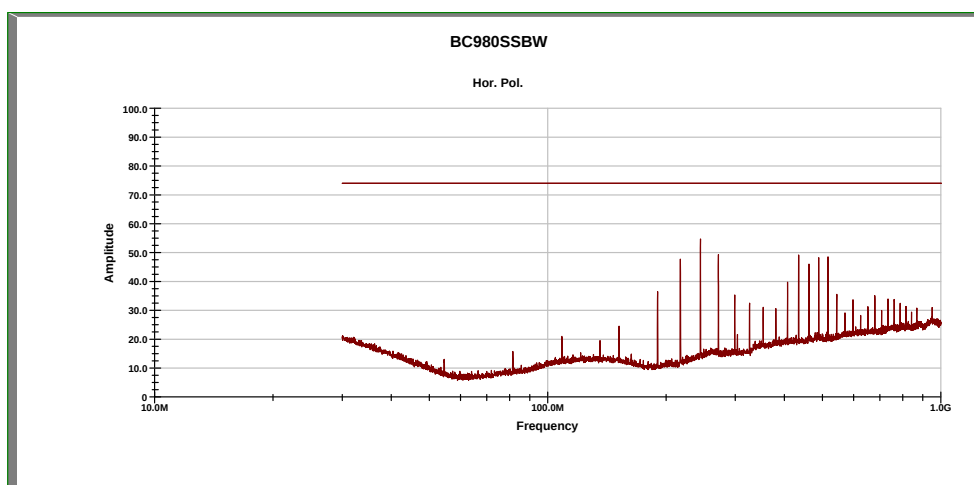
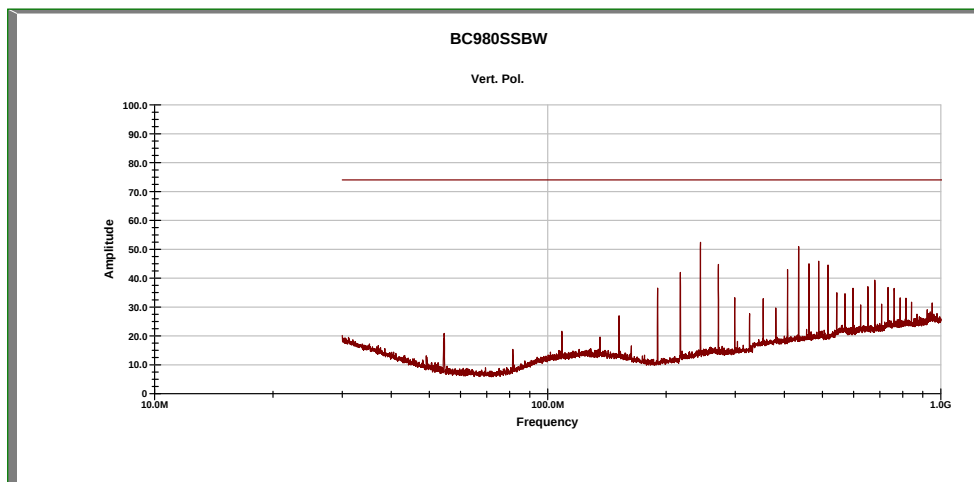
Radiated Emissions: Signal Substitution (Fig. A&B)

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)
190.435	H	52.9	-58.3	-0.95	21.6	-80.85	-24.0	-56.85
217.64	H	62.5	-47.7	-0.75	21.6	-70.05	-24.0	-46.05
244.845	H	72.7	-34.6	-0.25	21.6	-56.45	-24.0	-32.45
272.05	H	71.3	-34.2	-0.35	21.6	-56.15	-24.0	-32.15

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Measurement Date(s):	07/08/2014-11/08/2014	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	
Test Lab Certificate No. 2470.01					

Part 15B, Radiated Emissions plot using peak Detector
Bearcat 980SSBW

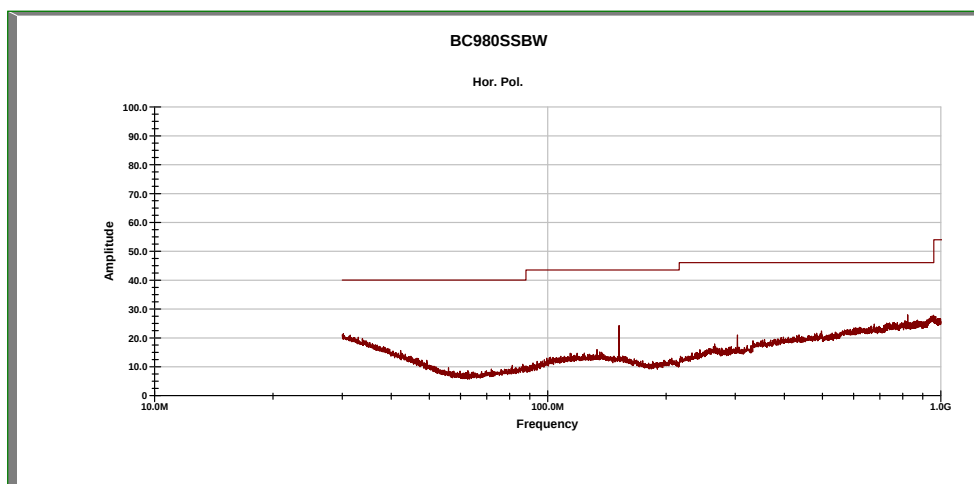
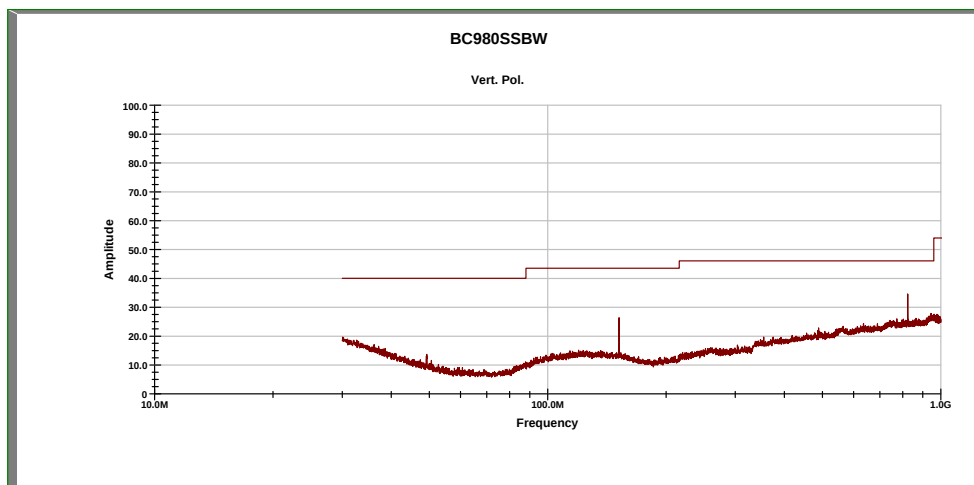


Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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 Testing and Engineering Services Ltd	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	 ilac-MRA  ACCREDITED
	Measurement Date(s):	07/08/2014-11/08/2014	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	
Test Lab Certificate No. 2470.01					

Data from Chamber, Fig. A

Part 15B, Radiated Emissions Plots using Peak Detector (RX)



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.

8/21/2014

Date

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site	

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

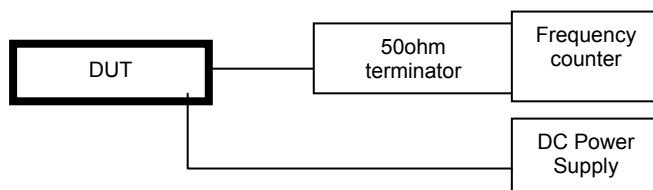
Temperature	25 +/- 5 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

G.4 EQUIPMENT LIST

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE
na	ESPEC	ECT-2	Heater/Refrigerator	na
00003	HP	53181A	Frequency Counter	28-Apr-14 / 28-Apr-16
na	HP	E3611A	DC Power Supply	Cal on use
00234	VWR	61161-378	Temperature Humidity Monitor	New / 08-May-2016

G.5 SETUP DRAWING

Figure G.5-1 - Setup Drawing – Frequency Stability

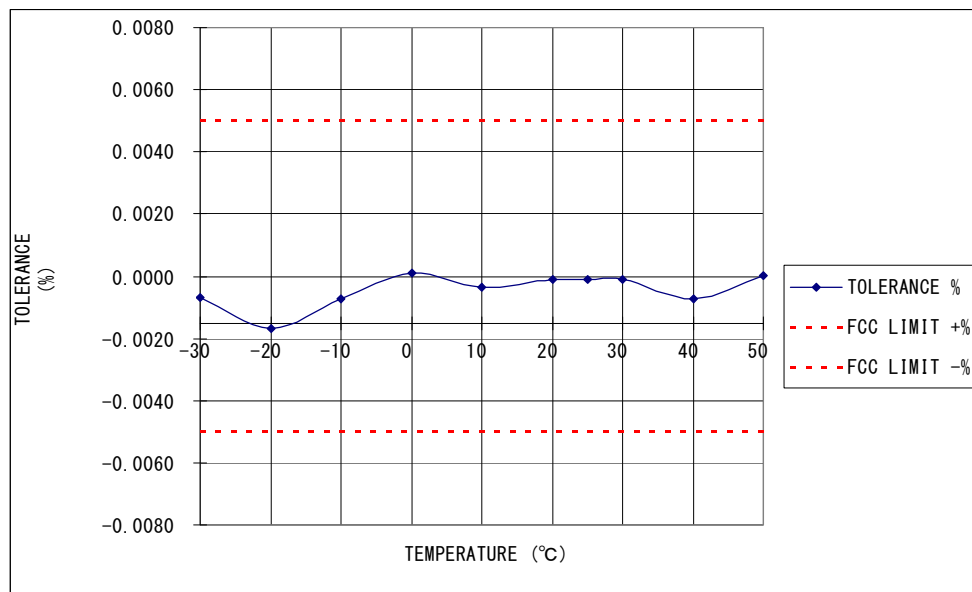


Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	
	Measurement Date(s):	07/08/2014-11/08/2014	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

Bearcat 980SSBW



Channel: 20			
Temperature (degrees C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Deviation (%)
-30	27.20481	27.204431	-0.0006984
-20	27.204546	27.204471	-0.0016688
-10	27.204798	27.204495	-0.0007425
0	27.205031	27.204887	0.0001139
10	27.204903	27.204922	-0.0003566
20	27.204976	27.204981	-0.0000882
30	27.204973	27.204972	-0.0000992
40	27.204801	27.204880	-0.0007315
50	27.205007	27.204801	0.0000257

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

Battery %	Assigned frequency (MHz)	Measured Frequency (MHz)	Deviation %
-15%	27.205 000	27 204 943	-0.0002095
0%	27.205 000	27 204 953	-0.0001728
15%	27.205 000	27 204 953	-0.0001728

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.



Glen Westwell

Lab Manager

Celltech Labs Inc.

8/21/2014

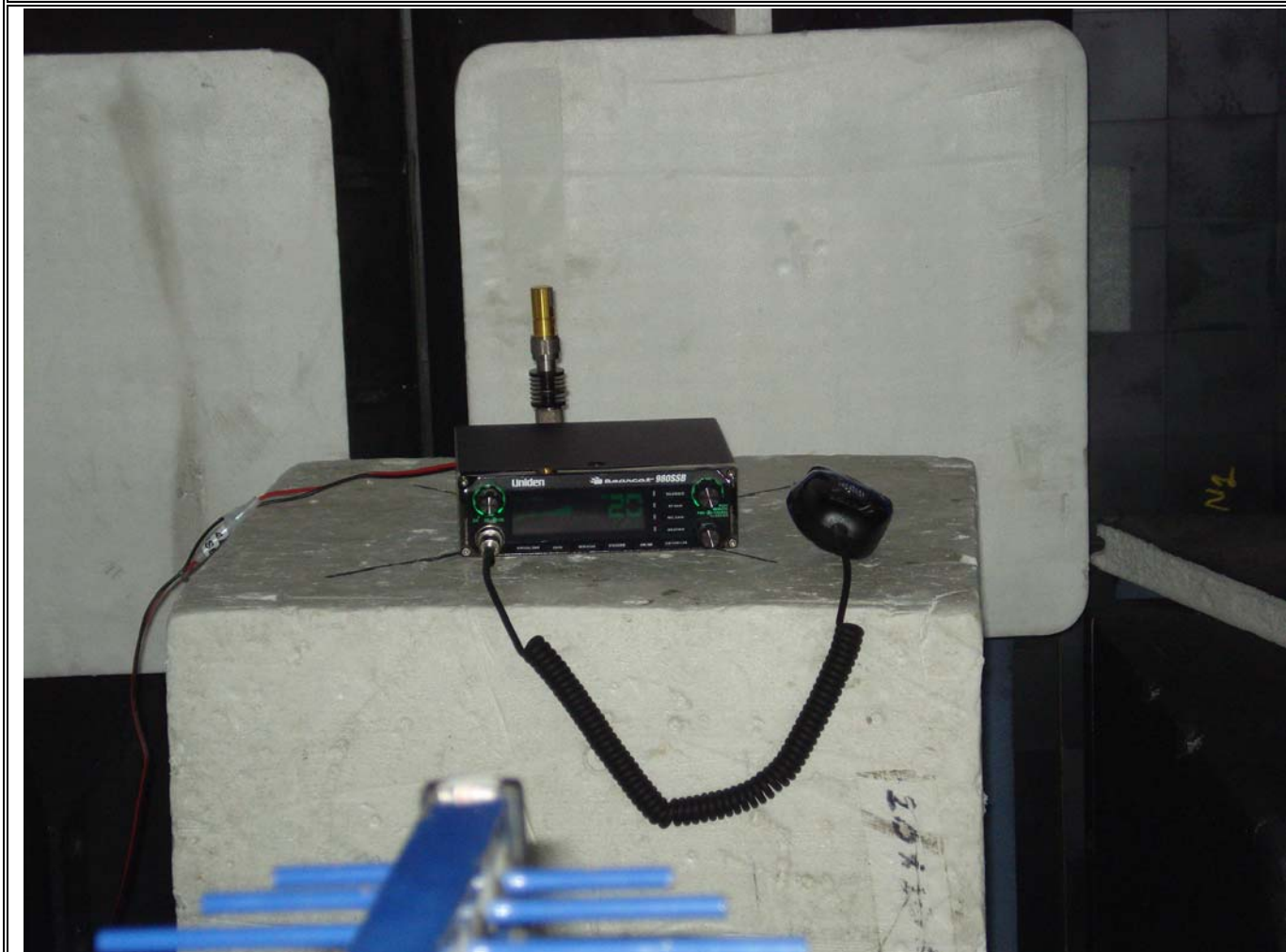
Date

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Measurement Date(s):	07/08/2014-11/08/2014	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 H Device Photographs

H.1 DUT PHOTOS - RADIATED EMISSIONS



Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Measurement Date(s):	07/08/2014-11/08/2014	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	

Test Lab Certificate No. 2470.01

H.2 DUT PHOTOS- RADIATED EMISSIONS



Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	07/08/2014-11/08/2014	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	

H.3 DUT PHOTOS- RADIATED EMISSIONS



Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014	  Test Lab Certificate No. 2470.01
	Measurement Date(s):	07/08/2014-11/08/2014	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	

H.4 DUT PHOTOS - FREQUENCY STABILITY



Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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	Measurement Date(s):	07/08/2014-11/08/2014	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	

END OF DOCUMENT

Applicant:	Uniden America Corporation	FCC ID: Ind. Can.:	AMWUT563 513C-UT563	Model(s):	Bearcat 980SSBW	
DUT Type:	AM Mobile CB Radio Transceiver.			Frequency Range:	26.965 - 27.405 MHz	
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