

Starkey Laboratories, Inc. BTE 13

FCC 15.209:2018 NFMI Report # STAK0123.3







NVLAP LAB CODE: 200881-0

CERTIFICATE OF TEST



Last Date of Test: June 11, 2018 Starkey Laboratories, Inc. Model: BTE 13

Radio Equipment Testing

Standards

Specification	Method
FCC 15.209:2018	ANSI C63.10:2013

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not required for battery operated device.
6.4	Field Strength of Fundamental	Yes	Pass	
6.4, 6.5	Spurious Radiated Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.

REVISION HISTORY



Revision Number	Description	Date	Page Number
00	None		

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ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Element to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with ISED.

European Union

European Commission - Within Element, we have a EU Notified Body validated for the EMCD and RED Directives.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC - Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

For details on the Scopes of our Accreditations, please visit:

http://portlandcustomer.element.com/ts/scope/scope.htm http://gsi.nist.gov/global/docs/cabs/designations.html

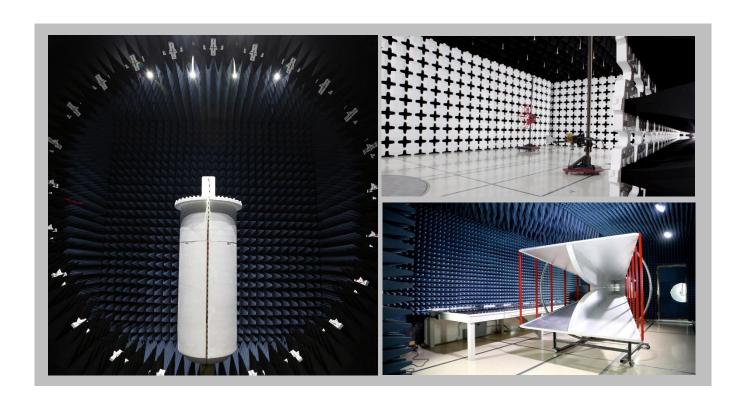
FACILITIES







California Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	Oregon Labs EV01-12 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington Labs NC01-05 19201 120 th Ave NE Bothell, WA 98011 (425)984-6600
		NV	LAP		
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0
	Innov	ation, Science and Eco	nomic Development Can	ada	
2834B-1, 2834B-3	2834E-1, 2834E-3	N/A	2834D-1, 2834D-2	2834G-1	2834F-1
		BS	MI		
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
		VC	CI		
A-0029	A-0109	N/A	A-0108	A-0201	A-0110
	Recognized Phase	e I CAB for ACMA, BSM	I, IDA, KCC/RRA, MIC, M	OC, NCC, OFCA	
US0158	US0175	N/A	US0017	US0191	US0157



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EMISSIONS MEASUREMENTS



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

Measurement Bandwidths

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

Sample Calculations

Radiated Emissions:

Field Strength		Measured Level		Antenna Factor		Cable Factor		Amplifier Gain		Distance Adjustment Factor		External Attenuation
33.5	=	42.6	+	28.6	+	3.1	-	40.8	+	0.0	+	0.0

Conducted Emissions:

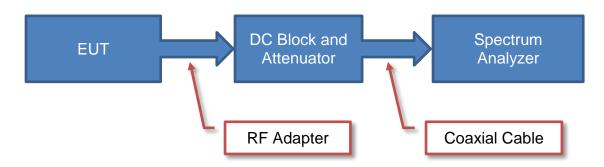
Adjusted		Measured		Transducer		Cable		External
Level		Level		Factor		Factor		Attenuation
47.1	=	26.7	+	0.3	+	0.1	+	20.0

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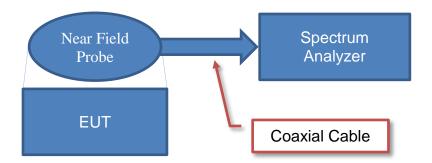
Test Setup Block Diagrams



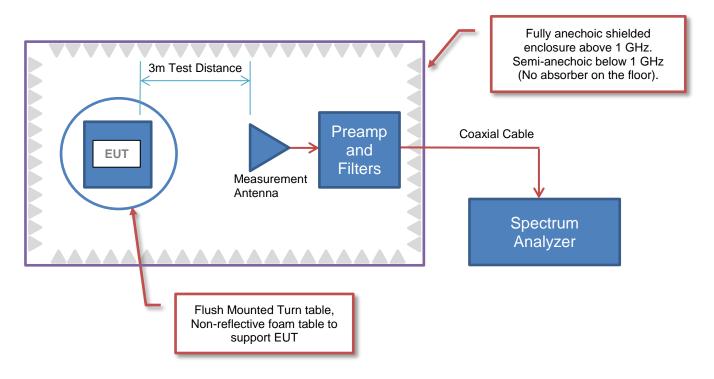
Antenna Port Conducted Measurements



Near Field Test Fixture Measurements



Spurious Radiated Emissions



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PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	Starkey Laboratories, Inc.
Address:	6600 Washington Ave. SO.
- 10.01.000	
City, State, Zip:	Eden Prairie, MN 55344
Test Requested By:	Bill Mitchell
Model:	BTE 13
First Date of Test:	June 11, 2018
Last Date of Test:	June 11, 2018
Receipt Date of Samples:	June 11, 2018
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:	
NEMI radio using near-field communications (NEC) with 1 antenna type	

Testing Objective:

To demonstrate compliance to FCC Part 15.209 specifications.

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CONFIGURATIONS



Configuration STAK0123- 2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Hearing Aid (Rx)	Starkey Laboratories, Inc.	BTE13	180913811
Hearing Aid (Tx)	Starkey Laboratories, Inc.	BTE13	180913810

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MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
		Field Strength	Tested as	No EMI suppression	EUT remained at
1	6/11/2018	of	delivered to	devices were added or	Element following the
		Fundamental	Test Station.	modified during this test.	test.
		Spurious	Tested as	No EMI suppression	Scheduled testing
2	6/11/2018	Radiated	delivered to	devices were added or	was completed.
		Emissions	Test Station.	modified during this test.	was completed.

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FIELD STRENGTH OF FUNDAMENTAL



PSA-ESCI 2018.03.06

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting NFMI (10.281 MHz) - SN 180913810 streaming to SN 180913811.

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

STAK0123 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency 490 kHz Stop Frequency 30 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-2017	12 mo
Cable	ESM Cable Corp.	Bilog Cables	MNH	9-Nov-2017	12 mo
Antenna - Loop	ETS Lindgren	6502	AOB	16-May-2017	24 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified.

The fundamental carrier of the EUT was maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A calibrated active loop antenna was used for this test in order to provide sufficient measurement sensitivity. The center of the loop antenna was maintained at 1m above the ground plane during the testing.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector

PK = Peak Detector

AV = RMS Detector

As outlined in 15.209(e), 15.31(f)(2), and RSS-GEN, 6.4, measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

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FIELD STRENGTH OF FUNDAMENTAL



											EmiR5 2018.05.07		PSA-ESCI 2018.05.04	4
	Wo	rk Order:		K0123		Date:		n-2018	1	1		24		
		Project:		lone	Ter	nperature:		4 °C		<u> </u>	/	M		
	Carial	Job Site:		<u>1N05</u> 0, 180913811	Barama	Humidity: etric Pres.:		% RH mbar		Tested by:	Chris Dotte	2000		
	Serial		BTE 13	0, 160913611	Daronne	euic Fies	1015	IIIDai		rested by.	CIIIS Falle	215011		_
	Confi	iguration:												_
				boratories, In	C.									_
			Charlie Es	ch										
	EU	JT Power:												_
0	perati	ng Mode:	Transmittii	ng NFMI (10.2	.81 MHz) -	SN 1809138	310 stream	ing to SN 18	30913811.					
			None											_
	De	eviations:	110110											
			None											_
	Co	omments:												
														=
		fications						Test Metho						_
FCC	15.209	9:2018						ANSI C63.	10:2013					
			•											_
F	Run #	42	Test	Distance (m)	1	Antenna	Height(s)		1(m)		Results	P	ass	_
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	60													
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dBuV/m	20													
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	-40													
	-40													

	-60 [⊥]													
	10.	.0	10.1	10.2	10.3	10.4	10.5	10.6	10	.7 1	8.01	10.9	11.0	
							MHz				■ PK	◆ AV	• QP	
											- 11	* AV		
							External	Polarity/ Transducer		Distance			Compared to	
	ed .	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	Attenuation (dB)	Туре	Detector	Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Spec. (dB)	
(IVI	Hz)	(dbdv)	(db)	(illetels)	(degrees)	(illeters)	(ub)			(ub)	(ubuv/III)	(dbd v/III)	(ub)	Comments
	239	28.3	11.4	1.0	104.0	1.0	0.0	Para to EUT	PK	-59.1	-19.4	29.5	-48.9	EUT Vert
	276 237	27.3 19.0	11.4 11.4	1.0 1.0	332.0 282.0	1.0 1.0	0.0 0.0	Perp to EUT Perp to EUT	PK PK	-59.1 -59.1	-20.4 -28.7	29.5 29.5	-49.9 -58.2	EUT Vert EUT Horz
	248	13.9	11.4	1.0	263.0	1.0	0.0	Para to GND	PK	-59.1	-33.8	29.5	-63.3	EUT Vert
	236	13.8	11.4	1.0	135.0	1.0	0.0	Para to GND	PK	-59.1	-33.9	29.5	-63.4	EUT On Side
	237 252	13.6 13.3	11.4 11.4	1.0 1.0	146.0 314.0	1.0 1.0	0.0 0.0	Para to EUT Para to EUT	PK PK	-59.1 -59.1	-34.1 -34.4	29.5 29.5	-63.6 -63.9	EUT On Side EUT Horz
10.	252	13.0	11.4	1.0	58.1	1.0	0.0	Para to GND	PK	-59.1	-34.7	29.5	-64.2	EUT Horz
	322	12.7	11.4	1.0	354.9	1.0	0.0	Perp to EUT	PK	-59.1	-35.0	29.5	-64.5	EUT On Side
	.281 .301	0.0 0.0	11.4 11.4	1.0 1.0	282.0 354.9	1.0 1.0	0.0 0.0	Perp to EUT Perp to EUT	AV AV	-59.1 -59.1	-47.7 -47.7	29.5 29.5	-77.2 -77.2	EUT Horz EUT On Side
10.	288	0.0	11.4	1.0	332.0	1.0	0.0	Perp to EUT	AV	-59.1	-47.7	29.5	-77.2	EUT Vert
	284	0.0 0.0	11.4	1.0	104.0 146.0	1.0	0.0	Para to EUT	AV	-59.1 -50.1	-47.7	29.5 29.5	-77.2 -77.2	EUT Vert EUT On Side
	258 293	0.0	11.4 11.4	1.0 1.0	314.0	1.0 1.0	0.0 0.0	Para to EUT Para to EUT	AV AV	-59.1 -59.1	-47.7 -47.7	29.5 29.5	-77.2 -77.2	EUT Horz
10.	269	0.0	11.4	1.0	58.1	1.0	0.0	Para to GND	AV	-59.1	-47.7	29.5	-77.2	EUT Horz
10	274	0.0	11.4	1.0	135.0	1.0	0.0	Para to GND	AV	-59.1 -59.1	-47.7 -47.7	29.5 29.5	-77.2	EUT On Side
	331	0.0	11.4	1.0	263.0	1.0	0.0	Para to GND	AV			29.5	-77.2	EUT Vert

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SPURIOUS RADIATED EMISSIONS



PSA-ESCI 2018 05 0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting at 10.281 MHz

POWER SETTINGS INVESTIGATED

Rattery

CONFIGURATIONS INVESTIGATED

STAK0123 - 2

FREQUENCY RANGE INVESTIGATED

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2-Aug-2017	12 mo
Antenna - Loop	ETS Lindgren	6502	AOB	16-May-2017	24 mo
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AVO	9-Nov-2017	12 mo
Cable	ESM Cable Corp.	Bilog Cables	MNH	9-Nov-2017	12 mo
Antenna - Biconilog	Teseq	CBL 6141B	AYD	25-Jan-2018	24 mo

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A calibrated active loop antenna was used for this test in order to provide sufficient measurement sensitivity. The center of the loop antenna was maintained at 1m above the ground plane during the testing.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector

PK = Peak Detector

AV = RMS Detector

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show the out-of-band emission level as applied to the limit.

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SPURIOUS RADIATED EMISSIONS



Ser Co Opera	J Infig Cu Atto EUT ating Dev	uration stomer endees Power g Mode iations	:: 180 :: 180 :: BTI :: 2 :: Sta :: Cha :: Bat :: Tra :: Noi :: Noi	0913 E 13 Irkey arlie ttery insm	MI 8810 Lab Esc	one N05 , 180 oorat h	091 torie	es, Ir 281	Temperature: 23.4 Humidity: 59.3% 1 Barometric Pres.: 1015 n nc. MHz O transmitting to hearing aid 1809138									% RH 5 mbar Tested by: Chris Patterson												5.04								
Run	Run # 45 Test Distance (m) 1 Antenna Height(s) 1(m) Results Pass																																					
80 60 40 W//Nngp 0 -20 -40			19.22			19				9.6			9.8			20. MF	.0		2	20.2			20	4		2	20.6			20	D.8 → A		2	21.0 QP				
Freq (MHz) 20.596	,	Amplitude (dBuV) (dB) Antenna H (meters		rs)	:	Azim (degr	ees) 3.0		t Dista			(dB)	tion	Par	Polarity ansdu Type	cer		Detector			standustm (dB)	ent 1	(0	djust	'm) 4		29.	/m) 5		npared Spec. (dB)	C	Comm EUT H	orz					
20.596 11.9 20.566 10.9 20.572 10.4 20.556 10.4 20.561 10.3 20.606 9.5 20.579 8.3 20.536 8.3 20.548 8.2 20.608 0.0 20.612 0.0 20.601 0.0 20.601 0.0 20.551 0.0 20.553 0.0 20.563 0.0 20.566 0.0 20.566 0.0 20.566 0.0		10.9 10.4 11.0.4 11.0.3 11.0.3 11.0.5				1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0				1.1 160.1 93.0 340.0 228.1 120.1 121.0 325.9 133.0 160.1 93.0 228.1 1.1 340.0 325.9 120.1			1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		Par Par Per Par Par Par Par Per Per Per Par	Perp to EUT Para to GND Para to GND Perp to EUT Perp to EUT Para to EUT Para to EUT Para to EUT Para to GND Para to GND Para to GND Para to GND Perp to EUT Perp to EUT Perp to EUT Para to EUT			PK PK PK PK PK PK PK AV		-59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1 -59.1		1 1 1 1 1 1 1 1 1 1 1 1	-37 -37 -38 -38 -40 -40 -48 -48 -48 -48 -48 -48 -48		9 9 0 8 0 0 1 3 3 3 3 3 3 3 3 3		29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5		-66.9 -67.4 -67.5 -68.3 -69.5 -69.6 -77.8 -77.8 -77.8 -77.8 -77.8 -77.8 -77.8		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	EUT CEUT VEUT CEUT VEUT CEUT CEUT CEUT VEEUT CEUT VEEUT VEEUT CEUT VEEUT CEUT CEUT CEUT CEUT CEUT CEUT CEUT	n Side ert n Side ert orz ert n Side orz n Side ert ert orz n Side ert ert orz n Side	

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SPURIOUS RADIATED EMISSIONS



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		oject:		None		Te		ature:			4 °C		<u> </u>	,	1-	M		
		Site:		MN05				nidity:		59.3	% RH							
S	erial Nu	mber:	1809138	10, 1809138	311	Barom	etric	Pres.:		1015	mbar		Tested by:	Chris F	Patte	rson		
			BTE 13															
C	onfigur																	
				aboratories,	Inc.													
	Atten	dees:	Charlie E	sch														
	EUT P	ower:	Battery															
Оре	erating I	Mode:	Transmitt	ing at 10.28	1 MHz	<u>z</u>												
	Devia	tions:	None															
	Comn	nents:	Hearing a	aid 1809138 ⁻	10 trar	nsmitting	to he	earing	aid 1	80913	811 at 10.2	81 MHz.						
Test S	pecifica	tions									Test Meth	od						
FCC 1	5.209:20	18									ANSI C63.							
Ru	n #	46	Tes	st Distance	(m)	3	Δr	itenna	Hei	ght(s)		1 to 4(m)		Resi	ılts		P:	ass
INU	π	70	100	ot Distance	(''')		A	itterinie		giit(3)		1 10 4(111)	ļ	IXC3	uito			100
7	70 																	+
_																		pd
5	50																	
3	30																	
Ę																		
≥																		
dBuV/m																		
0	10																	
-1	0																	
-3	30																	
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{	50									400								1000
	10									100								1000
									Ν	/lHz				■ F	ok .	* /	W	QP
															-	—		- vai
Freq (MHz		plitude BuV)	Factor (dB)	Antenna Heig (meters)	ght	Azimuth (degrees)		Distance eters)	Atte	ternal nuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjust (dBuV/		Spec. (dBu		Compared to Spec. (dB)
32.42	7 1	6.2	4.3	2.9		170.1	-	3.0		0.0	Vert	QP	0.0	20.5	5	40	0.0	-19.5
32.80		6.3	4.1	1.0		63.0		3.0		0.0	Horz	QP	0.0	20.4		40		-19.6
41.10	5 1	6.5	0.2	1.0		279.9	;	3.0		0.0	Horz	QP	0.0	16.7	7	40	0.0	-23.3
41.29		6.4	0.2	1.0		129.0		3.0		0.0	Vert	QP	0.0	16.6		40		-23.4
	৭ 1	6.3	-3.5	1.8		257.0		3.0		0.0	Vert	QP	0.0	12.8		40		-27.2
49.45 49.64		6.2	-3.6	1.0		300.0		3.0		0.0	Horz	QP	0.0	12.6	•	40		-27.4

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