

TRaC Wireless Test Report: TTR-004932WUS1

Applicant: Widex A/S

Apparatus: C4-XP

Specification(s) : CFR47 Part 15 October 2008

Purpose of Test : Certification

FCCID : TTY-C4XP

IC ID : 5676B-C4XP

Authorised by

:Radio Product Manager

John Charters

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Section 1: Introduction

1.1 General

This report contains an assessment of an apparatus against Electromagnetic Compatibility Standards based upon tests carried out on samples submitted to the Laboratory.

Test performed by: TRaC Telecoms & Radio

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KI anderson

1.2 Tests Requested By

This testing in this report was requested by:

Widex A/S Nymoellevej 6 DK-3540 Lynge Denmark

1.3 Manufacturer

Widex A/S Nymoellevej 6 DK-3540 Lynge Denmark

1.4 Apparatus Assessed

The following apparatus was assessed on 21/03/11

C4-XP

The above equipment was a hearing aid, containing radio circuitry operating at 10.6 MHz.

In addition, other model variants exist, which are de-featured variants of the product tested (see Appendix D for details). No testing was performed on these variants.

1.5 Test Result Summary

Full details of test results are contained within Appendix A. The following table summarises the results of the assessment.

The statements relating to compliance with the standards below apply ONLY as qualified in the notes and deviations stated in sections 1.6 to 1.7 of this test report.

Full details of test results are contained within Appendix A. The following table summarises the results of the assessment.

Test Type	Regulation	Measurement standard	Result
Spurious Emissions Radiated <1000MHz	Title 47 of the CFR: Part 15 Subpart (c) 15.209	ANSI C63.10	Pass
Spurious Emissions Radiated >1000MHz	Title 47 of the CFR: Part 15 Subpart (c)	ANSI C63.10	N/A
AC Power conducted emissions	Title 47 of the CFR: Part 15 Subpart (c) 15.207	ANSI C63.10	N/A
Intentional Emission Frequency	Title 47 of the CFR: Part 15 Subpart (c) 15.209	ANSI C63.10	Pass
Intentional Emission Field Strength:	Title 47 of the CFR: Part 15 Subpart (c) 15. 209	ANSI C63.10	Pass
Intentional Emission Band Occupancy	Title 47 of the CFR: Part 15 Subpart (c) 15.215	ANSI C63.10	Pass
Intentional Emission ERP (mW)	Title 47 of the CFR: Part 15 Subpart (c)	ANSI C63.10	N/A
Unintentional Radiated Spurious Emissions	Title 47 of the CFR: Part 15 Subpart (b) 15.109	ANSI C63.10	Pass
Antenna Arrangements Integral:	Title 47 of the CFR: Part 15 Subpart (c) 15.203	-	Pass
Antenna Arrangements External Connector	Title 47 of the CFR: Part 15 Subpart (c) 15.204	-	-
Restricted Bands	Title 47 of the CFR: Part 15 Subpart (c) 15.205	-	-
Maximum Frequency Of Search	Title 47 of the CFR: Part 15 Subpart (c) 15.33	-	-
Extrapolation Factor	Title 47 of the CFR: Part 15 Subpart (c) 15.31(f)	-	-

Abbreviations used in the above table:

CFR : Code of Federal Regulations ANSI : American National Standards Institution REFE : Radiated Electric Field Emissions PLCE : Power Line Conducted Emissions

1.6 Notes Relating To The Assessment

With regard to this assessment, the following points should be noted:

The results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

The apparatus was set up and exercised using the configurations, modes of operation and arrangements defined in this report only.

Particular operating modes, apparatus monitoring methods and performance criteria required by the standards tested to have been performed except where identified in Section 1.7 of this test report (Deviations from Test Standards).

For emissions testing, throughout this test report, "Pass" indicates that the results for the sample as tested were below the specified limit (refer also to Section 2, Measurement Uncertainty).

Where relevant, the apparatus was only assessed using the monitoring methods and susceptibility criteria defined in this report.

All testing with the exception of testing at the Open Area Test Site was performed under the following environmental conditions:

Temperature : 17 to 23 °C Humidity : 45 to 75 % Barometric Pressure : 86 to 106 kPa

All dates used in this report are in the format dd/mm/yy.

This assessment has been performed in accordance with the requirements of ISO/IEC 17025.

1.7 Deviations from Test Standards

There were no deviations from the standards tested to.

Section 2:

Measurement Uncertainty

2.1 Measurement Uncertainty Values

For test data recorded, the following measurement uncertainty was calculated:

Test type	Quantity	Quantity frequency range	Uncertainty
		30MHz to 300MHz Horizontal	±4.6dB
Radiated electric field emissions 3m alternative test site		30MHz to 300MHz Vertical	±5.1dB
		300MHz to 1000MHz Horizontal	±5.2dB
Effective Radiated Power 3m alternative test site		300MHz to 1000MHz Vertical	±5.5dB
	Amplitude	1GHz to 26.5GHz Horizontal and Vertical	±4.1dB
Radiated magnetic field emissions 3m alternative test site		9kHz to 150kHz 150kHz to 30 MHz	±2.1dB ±1.6dB
Conducted emissions		N/A	±0.9 dB
Absolute RF power (via antenna connector)		N/A	±0.9 dB
PSD		N/A	±0.9 dB
Frequency Range	Frequency	9kHz to 26.5GHz	3.611kHz

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Section 3: Modifications

3.1 Modifications Performed During Assessment

No modifications were performed during the assessment

Appendix A:

Formal Emission Test Results

Abbreviations used in the tables in this appendix:

Spec Mod : Specification **ALSR** : Absorber Lined Screened Room

: Open Area Test Site : Modification OATS ATS : Alternative Test Site

EUT : Equipment Under Test SE : Support Equipment Ref : Reference : Frequency Freq

: Live Power Line Ν : Neutral Power Line MD : Measurement Distance

Ε : Earth Power Line : Spec Distance SD

Pk : Peak Detector Pol : Polarisation QP : Quasi-Peak Detector : Horizontal Polarisation Н

: Vertical Polarisation : Average Detector Αv

CDN : Coupling & decoupling network

A1 Transmitter Intentional Emission Radiated

Carrier power was verified with the EUT transmitting Test Details:			
Regulation	Title 47 of the CFR: Part15 Subpart (c) 15.209(b)(1)		
Measurement standard	ANSI C63.10:2009		
EUT sample number	S01		
Modification state	0		
SE in test environment	None		
SE isolated from EUT	None		
EUT set up	Refer to Appendix C		
Photographs (Appendix F)	Photograph 1		

FREQ. (MHz)	MEASUREMENT DISTANCE Meters	MEASUREMENT Rx. READING (dBµV/m)	EXTRAP. FACTOR (dB)		FIELD STRENGTH (µV/m)
10.818	1	35.1	59).1	0.06
Limit va	lue @ fc	② fc 30 μV/m			
Band occupancy @ -20 dBc		f lower			f higher
		10.2650 MH	Z	10	.9529 MHz
			687.9	kHz	

Notes:

- 1 Results quoted are extrapolated as indicated
- 2 Receiver detector @ fc = Quasi Peak 10 kHz
- 3 When battery powered the EUT was powered with new batteries
- 4 Extrapolation 1 30 Meters 59.1 dB as per 15.31(f)
- 5 Due to the low level of the signal measurements at a distance greater than 1 meter could not be made.

Test Method:

- 1 As per Radio Noise Emissions, ANSI C63.10
- 2 Measuring distances 1m
- 3 EUT 0.8 metre above ground plane
- 4 Emissions maximised by rotation of EUT, on an automatic turntable. Raising and lowering the receiver antenna between 1m & 4m. Horizontal and vertical polarisations, of the receive antenna. EUT orientation in three orthagonal planes.

Maximum results recorded

A2 Radiated Electric Field Emissions

Preliminary scans were performed using a peak detector with the RBW = 100kHz. The radiated electric filed emission test applies to all spurious emissions and harmonics emissions. The maximum permitted field strength is listed in Section 15.209. The EUT was set to transmit as required.

The following test site was used for final measurements as specified by the standard tested to:

3m open area test site :	3m alternative test site :	Χ
--------------------------	----------------------------	---

The effect of the EUT set-up on the measurements is summarised in note (c) below.

Test Details:			
Regulation	Title 47 of the CFR, Part 15 Subpart (c) Clause 15.209		
Measurement standard	ANSI C63.10:2009		
Frequency range	9kHz – 1000MHz		
EUT sample number	S01		
Modification state	0		
SE in test environment	None		
SE isolated from EUT	None		
EUT set up	Refer to Appendix C		
Photographs (Appendix F)	Photographs 1 and 2		

The worst case radiated emission measurements for spurious emissions and harmonics that fall within the restricted bands are listed below:

Ref No.	FREQ. (MHz)	MEAS Rx (dBµV)	CABLE LOSS (dB)	ANT FACT. (dB/m)	PRE AMP (dB)	FIELD ST'GH (dBµV/m)	EXTRAP FACT (dB)	FIELD ST'GH (μV/m)	LIMIT (µV/m)
1.				No Significant	Emissions With	in 20 dB of the	limit		

The worst measured noise floor level was 27.0 dBµV/m at 995.555 MHz

Notes:

- Any testing performed below 30 MHz was performed using a magnetic loop antenna in accordance with ANSI C63.10: section 4.5, Table 1. For emissions below 30MHz the cable losses are assumed to be negligible.
- In accordance with 15.35(b), above 1 GHz, emissions measured using a peak detector shall not exceed a level 20 dB above the average limit.
- Testing was performed with the EUT orientated in three orthogonal planes and the maximum emissions level recorded. In addition, the EUT antenna was varied within its range of motion in order to maximise emissions.
- 4 For Frequencies below 1 GHz, RBW= 120 kHz, testing was performed with CISPR16 compliant test receiver with QP detector. Above 1 GHz tests were performed using a spectrum analyser using the following settings:

Peak RBW=VBW= 1MHz Average RBW=VBW= 1MHz

The upper and lower frequency of the measurement range was decided according to 47 CFR Part 15:2008 Clause 15.33(a) and 15.33(a)(1).

Radiated emission limits 47 CFR Part 15: Clause 15.209 for all emissions:

Frequency of emission (MHz)	Field strength μV/m	Measurement Distance m	Field strength dBμV/m
0.009-0.490	2400/F(kHz)	300	67.6/F (kHz)
0.490-1.705	24000/F(kHz)	30	87.6/F (kHz
1.705-30	30	30	29.5
30-88	100	3	40.0
88-216	150	3	43.5
216-960	200	3	46.0
Above 960	500	3	54.0

(a) Where results have been measured at one distance, and a signal level displayed at another, the results have been extrapolated using the following formula:

Extrapolation (dB) =
$$20 \log_{10} \left(\frac{\text{measurement distance}}{\text{specification distance}} \right)$$

(b) The levels may have been rounded for display purposes.

The following table summarises the effect of the EUT operating mode, internal (c) configuration and arrangement of cables / samples on the measured emission levels:

	See (i)	See (ii)	See (iii)	See (iv)
Effect of EUT operating mode on emission levels		✓		
Effect of EUT internal configuration on emission levels		✓		
Effect of Position of EUT cables & samples on emission levels	√			

- Parameter defined by standard and / or single possible, refer to Appendix D
- (i) (ii) Parameter defined by client and / or single possible, refer to Appendix D
- (iii) Parameter had a negligible effect on emission levels, refer to Appendix D
- Worst case determined by initial measurement, refer to Appendix D (iv)

A3 Unintentional Radiated Emissions

Preliminary scans were performed using a peak detector with the RBW = 100kHz. The radiated electric filed emission test applies to all spurious emissions on directly related to the transmitter. The maximum permitted field strength is listed in Section 15.109. The EUT was set to operate in a transmit standby / receive mode.

The following test site was used for final measurements as specified by the standard tested to:

3m open area test site :	3m alternative test site :	Χ
		<i>_</i>

The effect of the EUT set-up on the measurements is summarised in note (c) below.

Test Details:			
Regulation	Title 47 of the CFR, Part 15 Subpart (c) Clause 15.109		
Measurement standard	ANSI C63.10:2009		
Frequency range	9kHz – 1000MHz		
EUT sample number	S04		
Modification state	0		
SE in test environment	None		
SE isolated from EUT	None		
EUT set up	Refer to Appendix C		
Photographs (Appendix F)	Photographs 1 and 2		

The worst case radiated emission measurements for spurious emissions are listed below:

Ref No.	FREQ. (MHz)	MEAS Rx (dBµV)	CABLE LOSS (dB)	ANT FACT. (dB/m)	PRE AMP (dB)	FIELD ST'GH (dBµV/m)	EXTRAP FACT (dB)	FIELD ST'GH (μV/m)	LIMIT (µV/m)
1				No Significant	Emissions With	in 20 dB of the	limit		

The worst measured noise floor level was 26.9 dB μ V/m at 1000.000 MHz

Notes:

- 1 Any testing performed below 30 MHz was performed using a magnetic loop antenna in accordance with ANSI C63.10: section 4.5, Table 1. For emissions below 30MHz the cable losses are assumed to be negligible.
- 2 In accordance with 15.35(b), above 1 GHz, emissions measured using a peak detector shall not exceed a level 20 dB above the average limit.
- 3 Testing was performed with the EUT orientated in three orthogonal planes and the maximum emissions level recorded. In addition, the EUT antenna was varied within its range of motion in order to maximise emissions.
- 4 For Frequencies below 1 GHz, RBW = 120 kHz, testing was performed with CISPR16 compliant test receiver with QP detector. Above 1 GHz tests were performed using a spectrum analyser using the following settings:

Peak RBW=VBW= 1MHz Average RBW=VBW= 1MHz

The upper and lower frequency of the measurement range was decided according to 47 CFR Part 15:2008 Clause 15.33(a) and 15.33(a)(1).

Radiated emission limits 47 CFR Part 15 Clause 15.109 for all emissions:

Frequency of emission (MHz)	Field strength μV/m	Measurement Distance m	Field strength dBμV/m
30-88	100	3	40.0
88-216	150	3	43.5
216-960	200	3	46.0
Above 960	500	3	54.0

(a) Where results have been measured at one distance, and a signal level displayed at another, the results have been extrapolated using the following formula:

Extrapolation (dB) =
$$20 \log_{10} \left(\frac{\text{measurement distance}}{\text{specification distance}} \right)$$

(b) The levels may have been rounded for display purposes.

The following table summarises the effect of the EUT operating mode, internal configuration and arrangement of cables / samples on the measured emission levels

	See (i)	See (ii)	See (iii)	See (iv)
Effect of EUT operating mode on emission levels		√		
Effect of EUT internal configuration on emission levels		✓		
Effect of Position of EUT cables & samples on emission levels	✓			

- Parameter defined by standard and / or single possible, refer to Appendix D
- (i) (ii) Parameter defined by client and / or single possible, refer to Appendix D
- (iii) Parameter had a negligible effect on emission levels, refer to Appendix D
- Worst case determined by initial measurement, refer to Appendix D (iv)

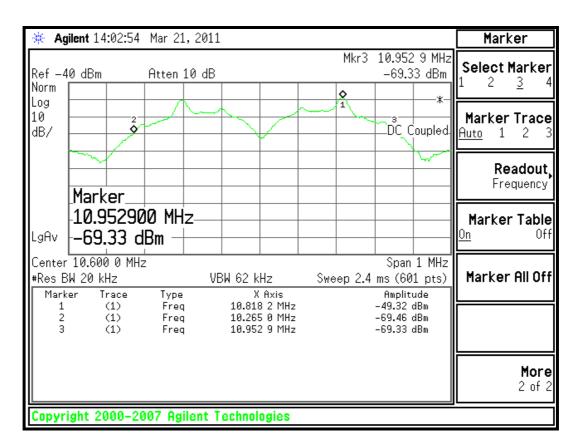
Appendix B:

Supporting Graphical Data

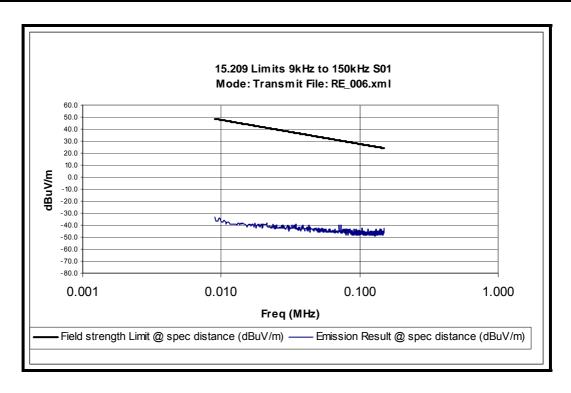
This appendix contains graphical data obtained during testing.

Notes:

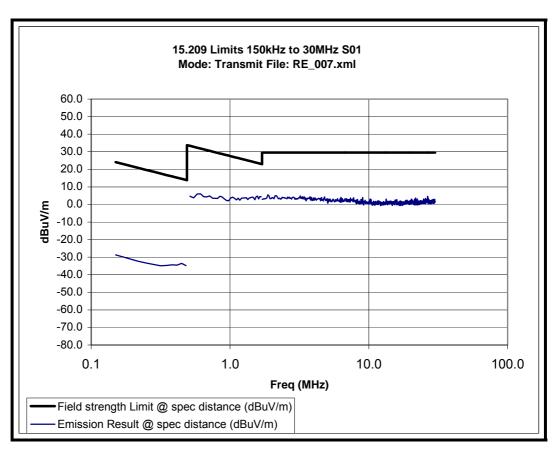
- (a) The radiated electric field emissions and conducted emissions graphical data in this appendix is preview data. For details of formal results, refer to Appendix A and Appendix B.
- (b) The time and date on the plots do not necessarily equate to the time of the test.
- (c) Where relevant, on power line conducted emission plots, the limit displayed is the average limit, which is stricter than the quasi peak limit.
- (d) Appendix C details the numbering system used to identify the sample and its modification state.
- (e) The plots presented in this appendix may not be a complete record of the measurements performed, but are a representative sample, relative to the final assessment.



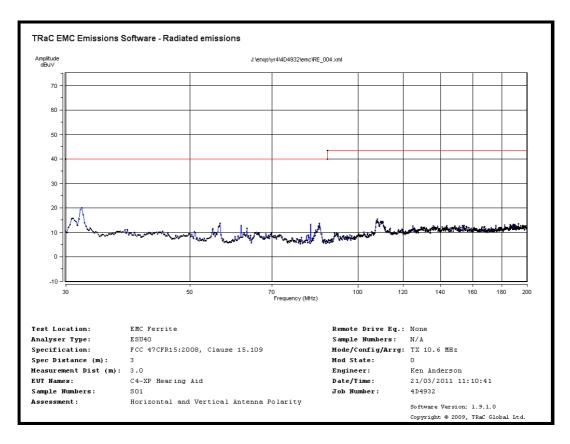
20dB Bandwidth



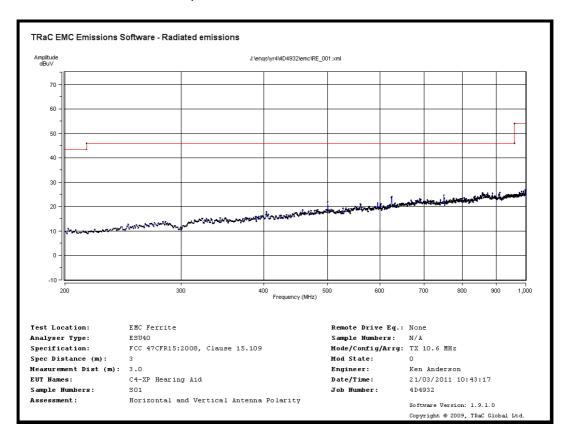
Radiated spurious emissions 9kHz to 150kHz



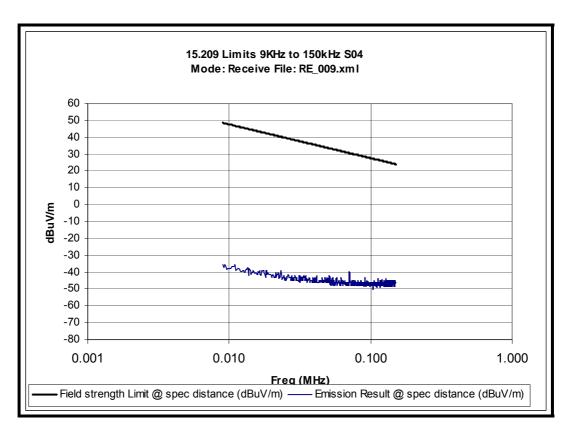
Radiated spurious emissions 150kHz to 30MHz



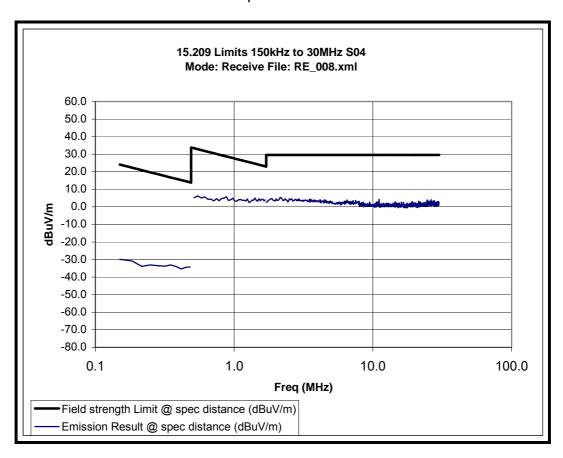
Radiated spurious emissions 30MHz to 200MHz



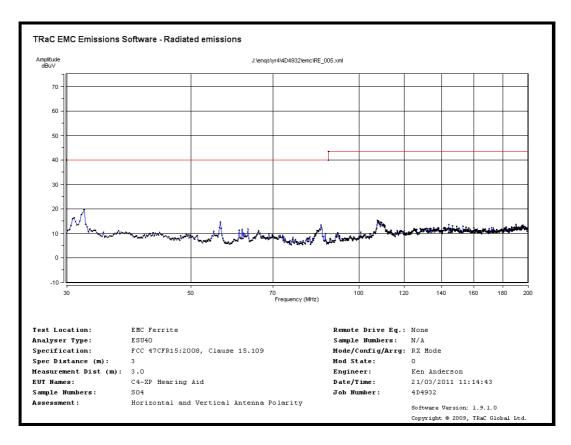
Radiated spurious emissions 200MHz to 1GHz



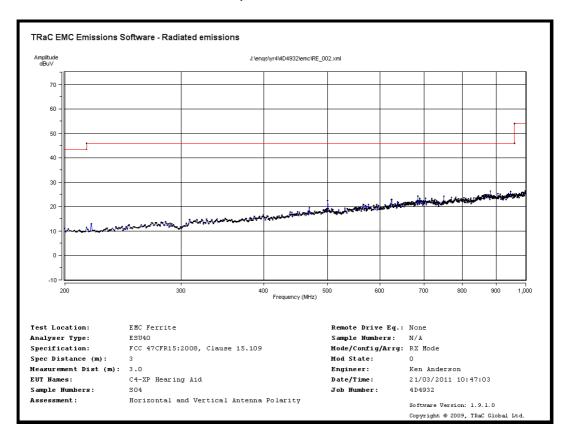
Unintentional Radiated spurious emissions 9kHz to 150kHz



Unintentional Radiated spurious emissions 150kHz to 30MHz



Unintentional Radiated spurious emissions 30MHz to 200MHz



Unintentional Radiated spurious emissions 200MHz to 1GHz

Appendix C: Additional Test and Sample Details

This appendix contains details of:

- 1. The samples submitted for testing.
- 2. Details of EUT operating mode(s)
- 3. Details of EUT configuration(s) (see below).
- 4. EUT arrangement (see below).

Throughout testing, the following numbering system is used to identify the sample and it's modification state:

Sample No: Sxx Mod w

where:

xx = sample number eg. S01 w = modification number eg. Mod 2

The following terminology is used throughout the test report:

Support Equipment (SE) is any additional equipment required to exercise the EUT in the applicable operating mode. Where relevant SE is divided into two categories:

SE in test environment: The SE is positioned in the test environment and is not isolated from the EUT (e.g. on the table top during REFE testing).

SE isolated from the EUT: The SE is isolated via filtering from the EUT. (e.g. equipment placed externally to the ALSR during REFE testing).

EUT configuration refers to the internal set-up of the EUT. It may include for example:

Positioning of cards in a chassis. Setting of any internal switches. Circuit board jumper settings. Alternative internal power supplies.

Where no change in EUT configuration is **possible**, the configuration is described as "single possible configuration".

EUT arrangement refers to the termination of EUT ports / connection of support equipment, and where relevant, the relative positioning of samples (EUT and SE) in the test environment.

For further details of the test procedures and general test set ups used during testing please refer to the related document "EMC Test Methods - An Overview", which can be supplied by TRaC Telecoms & Radio upon request.

C1) Test samples

The following samples of the apparatus were submitted by the client for testing:

Sample No.	Description	Identification
S01	C4-XP Hearing Aid (Constant transmit sample)	None
S04	C4-XP Hearing Aid (Normal sample)	None

The following samples of apparatus were submitted by the client as host, support or drive equipment (auxiliary equipment):

Sample No.	Description	Identification
NONE		

The following samples of apparatus were supplied by TRaC Telecoms & Radio as support or drive equipment (auxiliary equipment):

Identification	Description
NONE	

C2) EUT Operating Mode During Testing.

During testing, the EUT was exercised as described in the following tables:

Test	Description of Operating Mode: Transmit	
REFE: Radiated E-Field (Transmitter carrier output levels dBuV/m)		
REFE: Radiated Spurious emissions E- Field at frequencies below 30MHz (dBuV/m) (15.209)	The EUT was transmitting continuously on maximum power using FSK (center frequency	
Radiated Spurious emissions (E-Field) at frequencies ≥ 30MHz (15.209)	10.6MHz / Deviation ±200kHz) modulation and powered by a new battery.	
20dB Bandwidth of Emissions		

Test	Description of Operating Mode: Receive mode
REFE: 15.109 Radiated Spurious emissions E-field below 30MHz (Receive)	The EUT was placed in receive mode (non- transmitting) Mode during the test. Powered by a
REFE: 15.109 Radiated Spurious emissions (E-Field) frequencies ≥ 30MHz (Receive)	new battery.

C3) EUT Configuration Information.

The EUT was submitted for testing in one single possible configuration.

C4) List of EUT Ports

The tables below describe the termination of EUT ports:

Sample : S01 & S04

Tests : All

Port	Description of Cable Attached	Cable length	Equipment Connected
dc power port	None	N/A	PR48 Zinc-Air 1.25Vdc Battery
Antenna port	None	N/A	Integral

.

C5 Details of Equipment Used

For Radiated Electric Field Emissions 9 kHz to 30 MHz

REF No	Type	Description	Manufacturer	Date Calibrated.
886	ATS	Semi-Anechoic Chamber	TRaC	10/06/10
023	HFH-Z2	Mag Loop Antenna 9kHz-30MHz	R&S	26/05/09
847	ESU40	Spec Analyser/Test Rxer (LF/HF)	R&S	14/06/10
881	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10
882	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10
883	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10
884	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10
885	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10

For Radiated Electric Field Emissions 30MHz to 1GHz

REF No	Туре	Description	Manufacturer	Date Calibrated.
886	ATS	Semi-Anechoic Chamber	TRaC	10/06/10
RFG 095	3109	Biconical Antenna	EMCO	12/05/10
RFG 191	3146	Log Periodic Antenna	EMCO	12/05/10
847	ESU40	Spec Analyser/Test Rxer (LF/HF)	R&S	14/06/10
881	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10
882	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10
883	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10
884	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10
885	N-type	RF coaxial cable (Lab 16)	Teledyne Reynolds	10/06/10

For 20dB Bandwidth measurement

RFG No	Туре	Description	Manufacturer	Date Calibrated
REF837	E4440A	Spectrum analyser	Agilent	24/02/11

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Appendix D:

Additional Information

Additional Information regarding product family.



Widex A/S Nymoellevej 6 DK-3540 Lynge Denmark

Tel.: (+45) 44 35 56 00 Fax: (+45) 44 35 56 01 widex@widex.com http://www.widex.com CVR. Nr. 1577 1100

To whom it may concern

Re: Family relationship between hearing aid models

Widex A/S hereby declares that the Widex hearing aid models

C4-XP, C4Z-XP C3-XP, C3Z-XP C2-Xp, C2Z-XP

only differ from each other by different levels of hearing aid functionality.

The only difference between the C4-XP and the C4Z-XP is that the C4Z-XP has an additional audiologic feature called "Zen tones" that provides a relaxing sound background.

Model C4-XP and C4Z-XP have the highest level of functionality while the degraded models C3xxx and C2xxx have various audiological features disabled or restricted.

The 6 above mentioned models are identical in all other aspects, hereunder same mechanic design, electronic circuit, schematics and parts lists and therefore have identical electrical/electronic characteristics including EMC, Electrical safety and Radio performance.

Sincerely Widex A/S

Signature:

Name: Klavs Skafte

Position: Product Program Manager

Date: March 21'st, 2011

Appendix E:

Calculation of the duty cycle correction factor

No average detector measurements were made during testing, therefore this calculation is not required

Appendix F:

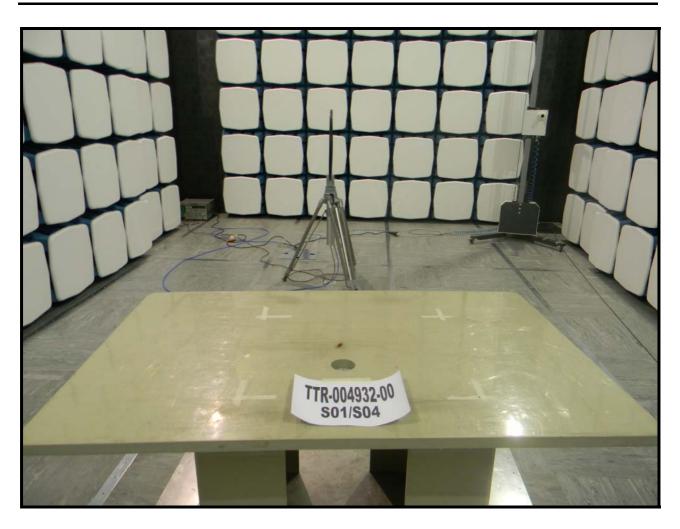
Photographs and Figures

The following photographs were taken of the test samples:

- 1. Radiated electric field emissions arrangement: < 30 MHz front view.
- 2. Radiated electric field emissions arrangement: < 30 MHz rear view.
- 3. Radiated electric field emissions arrangement: > 30 MHz front view.
- 4. Radiated electric field emissions arrangement: > 30 MHz rear view.



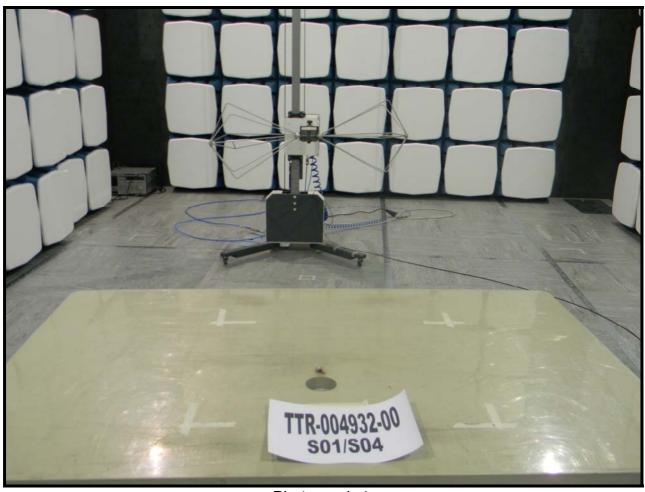
Photograph 1



Photograph 2



Photograph 3



Photograph 4

Appendix G: MPE Calculation

OET Bulletin No. 65, Supplement C 01-01

47 CFR §§1.1307 and 2.1091

2.1091 Radio frequency radiation exposure evaluation: mobile devices.

For purposes of these requirements mobile devices are defined by the FCC as transmitters designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimetres is normally maintained between radiating structures and the body of the user or nearby persons. These devices are normally evaluated for exposure potential with relation to the MPE limits. As the 20cm separation specified under FCC rules may not be achievable under normal operation of the EUT, an RF exposure calculation is needed to show the minimum distance required to be less than 1mW/cm² power density limit, as required under FCC rules.

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{EIRP}{4 \pi R^2}$$
 re - arranged $R = \sqrt{\frac{EIRP}{S 4 \pi}}$

where:

S = power density

R = distance to the centre of radiation of the antenna

EIRP = EUT Maximum power

Note:

The EIRP value was determined using the peak E Field measurement.

Result

Prediction Frequency (MHz)	Maximum EIRP (mW)	Power density limit (S) (mW/cm ²)	Distance (R) cm required to be less than 1mW/cm ²
10.818	1.14x10 ⁻⁷	1	9.55x10 ⁻⁵

Appendix H:

Cross Reference FCC Part 15c to IC RSS 210

The testing of the C4-XP was carried out to FCC 47CFR Part 15c and the results for this testing can be found in Appendix A of this report.

All measurements were carried out in accordance with ANSI C63.4, 'Methods of Measurements of RF Emissions from low voltage Electrical and Electronic Equipment in the Range 9kHz to 40GHz.

The table below shows the applicable RSS-210 Issue 8/RSS-Gen Issue 3 parts and the corresponding FCC 47CFR Part 15 rules:

RSS-Gen/RSS-210	FCC 47CFR Part 15
RSS-210 Section 2.5	Part 15.109
RSS-Gen Section 7.2.5	Part 15.209

In addition below is a plot of the 99% emissions bandwidth, as stipulated in Section 4.6.1 of RSS-Gen Issue 3.

