

Königswinkel 10 32825 Blomberg

Germany

Phone: +49 (0) 52 35 95 00-0 Fax: +49 (0) 52 35 95 00-10

Test Report

Report Number: F113169E3 2nd Version

Applicant:

audifon GmbH & Co. KG

Manufacturer:

audifon GmbH & Co. KG

Equipment under Test (EUT):

Hearing System

"eox S TRT", "via S", "eox S"

Laboratory (CAB) accredited by
Deutsche Gesellschaft für Akkreditierung mbH
in compliance with DIN EN ISO/IEC 17025
under the Reg. No. DGA-PL-105/99-22,
FCC Test site registration number 90877 and
Industry Canada Test site registration IC3469A-1



REFERENCES

- [1] **ANSI C63.4-2009** American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
- [2] FCC CFR 47 Part 15 (October 2011) Radio Frequency Devices
- [3] **RSS-210 Issue 8 (December 2010)** Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment
- [4] **RSS-Gen Issue 3 (December 2010)** General Requirements and Information for the Certification of Radiocommunication Equipment

TEST RESULT

The requirements of the tests performed as shown in the overview (clause 4) were fulfilled by the equipment under test.

The complete test results are presented in the following.

Test engineer:	Raimund BLASK	Bll	31 January 2012
_	Name	Signature	Date
Authorized reviewer:	Bernd STEINER	B. Sher	1 February 2012
	Name	Signature	Date

RESERVATION

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The test results herein refer only to the tested sample. PHOENIX TESTLAB GmbH is not responsible for any generalizations or conclusions drawn from these test results concerning further samples. Any modification of the tested samples is prohibited and leads to the invalidity of this test report. Each page necessarily contains the PHOENIX TESTLAB Logo and the TEST REPORT NUMBER.

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1 IDENTIFICATION

1.1 APPLICANT

Name:	audifon GmbH & Co. KG
Address:	Am Dännekamp 15
	51469 Bergisch Gladbach
Country:	Germany
Name for contact purposes:	Mr. Stephan Teders
Tel:	+49-(0)-2202-92638-14
Fax:	+49-(0)-2202-92638-29
e-mail address:	stephan.teders@audifon.com

1.2 MANUFACTURER

Name:	audifon GmbH & Co. KG
Address:	Am Dännekamp 15
	51469 Bergisch Gladbach
Country:	Germany
Name for contact purposes:	Mr. Stephan Teders
Tel:	+49-(0)-2202-92638-14
Fax:	+49-(0)-2202-92638-29
e-mail address:	stephan.teders@audifon.com

1.3 TEST LABORATORY

The tests were carried out at: PHOENIX TESTLAB GmbH

Königswinkel 10 32825 Blomberg

Germany

accredited by DGA Deutsche Gesellschaft für Akkreditierung mbH in compliance with DIN EN ISO/IEC 17025 under Reg. No. DGA-PL-105/99-22, FCC Test site registration number 90877 and Industry Canada Test site registration IC3469A-1.

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1.4 EUT (EQUIPMENT UNDER TEST)

Test object: *	Hearing System
Type: *	EUT1: "eox S TRT"; EUT2: "via S", EUT3: "eox S"
Antenna type: *	Integral H-Field-Antenna (6mm x 2mm coil with 22 turns)
Hardware version: *	-
Software version: *	-

1.5 TECHNICAL DATA OF EQUIPMENT

Duty cycle class: *	Up to 100)%				
Rated transmitter field strength: *	≤ -13 dBµA/m @ 1 m distance					
Channel spacing: *	-					
ITU classification: *	586KF1D					
Alignment range: *	10.579 M	Hz				
Switching range: *	10.579 MHz					
Modulation: *	FSK					
Bit rate of transmitter: *	298 kBit/s					
Supply Voltage: * (TX)	U _{Nom} =	1.4 V	U _{Min} =	1.7 V	U _{Max} =	0.9 V
Power Supply: * (TX)	1.4 V ZincAir-Battery					
Temperature range: *	-20°C to 55°C (tested range), 0°C to 35°C (manufacturers declaration)					

^{*:} Declared by the applicant.

The following external I/O cables were used:

Identification	Conn	Length*	
	EUT	Ancillary	
-	-	-	-

^{*:} Length during the test.

1.6 DATES

Date of receipt of test sample:	20 September 2011
Start of test:	23 September 2011
End of test:	30 September 2011

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2 OPERATIONAL STATES

The tests was carried out with unmodified test samples. The EUT was powered with the internal 1.4V ZincAir-Batteries.

The EUT2 "via S" was used for the Test because a continuous audio link is available.

The physical boundaries are shown below:



3 ADDITIONAL INFORMATION (as declared by the applicant):

The different EUT's "eox S TRT", "via S" and "eox S" are based on the same Hardware. Only additional Software-Features are available for different user modes. If not otherwise stated, the EUT2 "via S" was tested as worst case (continuous audio transmission) operation mode.

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4 OVERVIEW

Application	Frequency range	FCC 47 CFR	RSS 210 [3]	Status	Refer page
	[MHz]	Part 15 section	or		
		[2]	RSS-Gen [4]		
Radiated emissions	0.009 - 1,000	15.205 (a)	2.6 [3]	Passed	15 et seq.
		15.209 (a)			
Conducted	0.15 - 30	15.207 (a)	7.2.2 [4]	Not	-
emissions on supply		, ,		applicable*	
line					
99 % bandwidth	10.579 MHz	-	4.6.1 [4]	Passed	Annex D

^{*} EUT is battery-powered, no lines available.

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5 METHODS OF MEASUREMENT

5.1 RADIATED EMISSIONS

The radiated emission measurement is subdivided into five stages.

- A preliminary measurement carried out in a fully anechoic chamber with a fixed antenna height in the frequency range 9 kHz to 1 GHz.
- A final measurement carried out on an outdoor test side without reflecting ground plane and a fixed antenna height in the frequency range 9 kHz to 30 MHz.
- A final measurement carried out on an open area test side with reflecting ground plane and various antenna heights in the frequency range 30 MHz to 1 GHz.
- A preliminary measurement carried out in a fully anechoic chamber with a variable antenna distance and height in the frequency range 1 GHz to 25 / 40 GHz.
- A final measurement carried out in a fully anechoic chamber with a fixed antenna height in the frequency range 1 GHz to 25 / 40 GHz.

Preliminary measurement (9 kHz to 30 MHz):

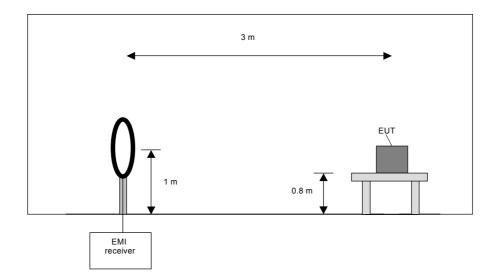
In the first stage a preliminary measurement will be performed in a shielded room with a measuring distance of

3 meters. Tabletop devices will set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm. Floor-standing devices will be placed directly on the turntable/ground plane. The set up of the Equipment under test will be in accordance to ANSI C63.4-2009 [1].

The frequency range 9 kHz to 30 MHz will be monitored with a spectrum analyser while the system and its cables will be manipulated to find out the configuration with the maximum emission levels if applicable. The EMI Receiver will be set to MAX Hold mode. The EUT and the measuring antenna will be rotated around their vertical axis to found the maximum emissions.

The resolution bandwidth of the spectrum analyser will be set to the following values:

Frequency range	Resolution bandwidth
9 kHz to 150 kHz	200 Hz
150 kHz to 30 MHz	10 kHz



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Preliminary measurement procedure:

Prescans were performed in the frequency range 9 kHz to 150 kHz and 150 kHz to 30 MHz.

The following procedure will be used:

- 1) Monitor the frequency range at horizontal polarisation and a EUT azimuth of 0°.
- 2) Manipulate the system cables within the range to produce the maximum level of emission.
- 3) Rotate the EUT by 360 ° to maximize the detected signals.
- 4) Make a hardcopy of the spectrum.
- 5) Measure the frequencies of highest detected emission with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
- 6) Repeat steps 1) to 5) with the other orthogonal axes of the EUT (because of EUT is a module and might be used in a handheld equipment application).
- 7) Rotate the measuring antenna and repeat steps 1) to 5).

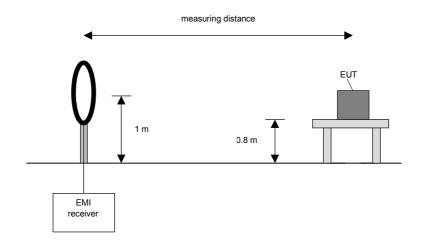
Final measurement (9 kHz to 30 MHz):

In the second stage a final measurement will be performed on an open area test site with no conducting ground plane in measuring distances of 3 m, 10 m and 30 m. In the case where larger measuring distances is required the results will be extrapolated based on the values measured on the closer distances according to Section 15.31 (f) (2) [2]. The final measurement will be performed with a EMI Receiver set to Quasi Peak detector except for the frequency bands 9 kHz to 90 kHz and 110 kHz to 490 kHz where an average detector will be used according Section 15.209 (d) [2].

On the during the preliminary measurement detected frequencies the final measurement will be performed while rotating the EUT and the measuring antenna in the range of 0 ° to 360 ° around their vertical axis until the maximum value is found.

The resolution bandwidth of the EMI Receiver will be set to the following values:

Frequency range	Resolution bandwidth
9 kHz to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz



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Final measurement procedure:

The following procedure will be used:

- 1) Monitor the frequency range with the measuring antenna at vertical orientation parallel to the EUT at an azimuth of 0 °.
- 2) Rotate the EUT by 360 ° to maximize the detected signals and note the azimuth and orientation.
- 3) Rotate the measuring antenna to find the maximum and note the value.
- 4) Rotate the measuring antenna and repeat steps 1) to 3) until the maximum value is found.
- 5) Repeat steps 1) to 4) with the other orthogonal axes of the EUT (because of EUT is a module and might be used in a handheld equipment application).

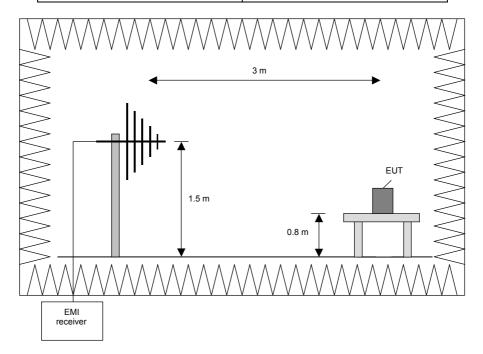
Preliminary measurement (30 MHz to 1 GHz)

In the first stage a preliminary measurement will be performed in a fully anechoic chamber with a measuring distance of 3 meter. Tabletop devices will set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm. Floor-standing devices will be placed directly on the turntable/ground plane. The set up of the Equipment under test will be in accordance to ANSI C63.4-2009 [1].

The frequency range 30 MHz to 1 GHz will be measured with an EMI Receiver set to MAX Hold mode and a resolution bandwidth of 100 kHz. The measurement will be performed in horizontal and vertical polarisation of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 $^{\circ}$ to 360 $^{\circ}$.

The resolution bandwidth of the EMI Receiver will be set to the following values:

Frequency range	Resolution bandwidth
30 MHz to 230 MHz	100 kHz
230 MHz to 1 GHz	100 kHz



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Procedure preliminary measurement:

Prescans were performed in the frequency range 30 MHz to 230 MHz and 230 MHz to 1 GHz. The following procedure will be used:

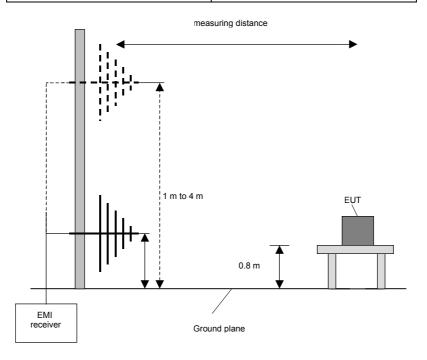
- 1. Monitor the frequency range at horizontal polarisation and a EUT azimuth of 0 °.
- 2. Manipulate the system cables within the range to produce the maximum level of emission.
- 3. Rotate the EUT by 360 ° to maximize the detected signals.
- 4. Make a hardcopy of the spectrum.
- 5. Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
- 6. Repeat 1) to 4) with the other orthogonal axes of the EUT (because of EUT is a module and might be used in a handheld equipment application).
- 7. Repeat 1) to 5) with the vertical polarisation of the measuring antenna.

Final measurement (30 MHz to 1 GHz)

A final measurement on an open area test site will be performed on selected frequencies found in the preliminary measurement. During this test the EUT will be rotated in the range of 0 ° to 360 °, the measuring antenna will be set to horizontal and vertical polarisation and raised and lowered in the range from 1 m to 4 m to find the maximum level of emissions.

The resolution bandwidth of the EMI Receiver will be set to the following values:

Frequency range	Resolution bandwidth	
30 MHz to 1 GHz	120 kHz	



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Procedure final measurement:

The following procedure will be used:

- 1) Measure on the selected frequencies at an antenna height of 1 m and a EUT azimuth of 23 °.
- 2) Move the antenna from 1 m to 4 m and note the maximum value at each frequency.
- 3) Rotate the EUT by 45 ° and repeat 2) until an azimuth of 337 ° is reached.
- 4) Repeat 1) to 3) for the other orthogonal antenna polarization.
- 5) Move the antenna and the turntable to the position where the maximum value is detected.
- 6) Measure while moving the antenna slowly +/- 1 m.
- 7) Set the antenna to the position where the maximum value is found.
- 8) Measure while moving the turntable +/- 45 °.
- 9) Set the turntable to the azimuth where the maximum value is found.
- 10) Measure with Final detector (QP and AV) and note the value.
- 11) Repeat 5) to 10) for each frequency.
- 12) Repeat 1) to 11) for each orthogonal axes of the EUT (because of EUT is a module and might be used in a handheld equipment application).

Preliminary and final measurement (1 GHz to 40 GHz)

This measurement will be performed in a fully anechoic chamber. Tabletop devices will set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm. Floor-standing devices will be placed directly on the turntable/ground plane. The set up of the Equipment under test will be in accordance to ANSI C63.4-2009 [1].

Preliminary measurement (1 GHz to 40 GHz)

The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The spectrum analyser set to MAX Hold mode and a resolution bandwidth of 100 kHz. The measurement will be performed in horizontal and vertical polarisation of the measuring antenna, the antenna close to the EUT and while moving the antenna over all sides of the EUT. With the spectrum analyser in CLEAR / WRITE mode the cone of the emission should be found and than the measuring distance will be set to 3 m with the receiving antenna moving in this cone of emission. At this position the final measurement will be carried out.

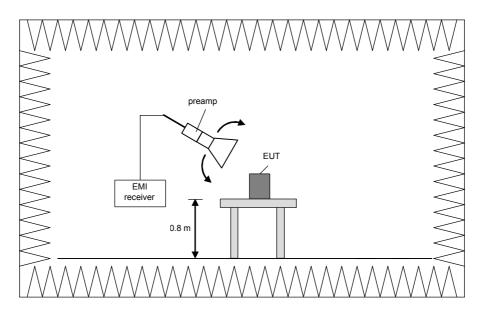
The resolution bandwidth of the EMI Receiver will be set to the following values:

Frequency range	Resolution bandwidth
1 GHz to 4 GHz	100 kHz
4 GHz to 12 GHz	100 kHz
12 GHz to 18 GHz	100 kHz
18 GHz to 25 / 26.5 GHz	100 kHz
26.5 GHz to 40 GHz	100 kHz

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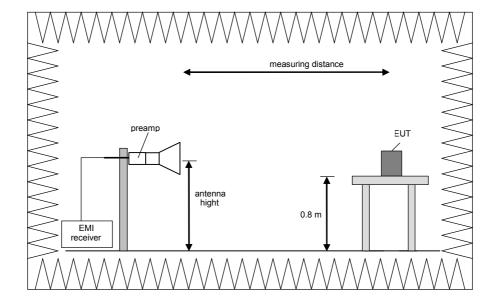


Final measurement (1 GHz to 40 GHz)

The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1 MHz. The measurement will be performed in horizontal and vertical polarisation of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 ° to 360 ° in order to have the antenna inside the cone of radiation.

The resolution bandwidth of the EMI Receiver will be set to the following values:

Frequency range	Resolution bandwidth
1 GHz to 4 GHz	1 MHz
4 GHz to 12 GHz	1 MHz
12 GHz to 18 GHz	1 MHz
18 GHz to 25 / 26.5 GHz	1 MHz
26.5 GHz to 40 GHz	1 MHz



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Procedure of measurement:

The measurements were performed in the frequency ranges 1 GHz to 4 GHz, 4 GHz to 12 GHz, 12 GHz to 18 GHz, 18 GHz to 25 /26.5 GHz and 26.5 GHz to 40 GHz. The following procedure will be used:

- 1) Monitor the frequency range at horizontal polarisation and move the antenna over all sides of the EUT (if necessary move the EUT to another orthogonal axis).
- 2) Change the antenna polarisation and repeat 1) with vertical polarisation.
- 3) Make a hardcopy of the spectrum.
- 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
- 5) Change the analyser mode to Clear / Write and found the cone of emission.
- 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3 m and the antenna will be still inside the cone of emission.
- 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarisation and azimuth and the peak and average detector, which causes the maximum emission.
- 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.

Step 1) to 6) are defined as preliminary measurement.

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5.2 RADIATED EMISSIONS

5.2.1 TEST RESULTS (RADIATED EMISSIONS)

5.2.1.1 PRELIMINARY AND FINAL RADIATED EMISSION MEASUREMENT (9 kHz to 30 MHz)

Ambient temperature	20 °C	Relative humidity	45 %
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Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The

distance between EUT and antenna was 3 m.

Cable guide: The cable of the EUT is running vertically to the false floor. For detail

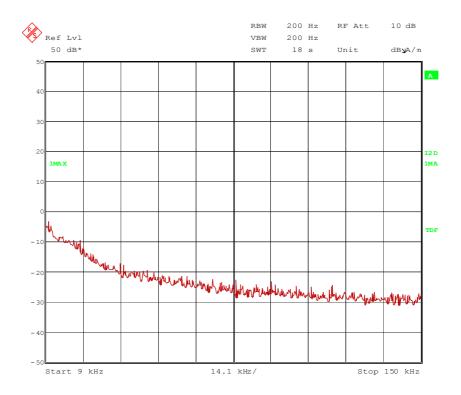
information of test set-up and the cable guide refer to the pictures in annex A of

this test report.

Test record: All results are shown in the following.

Supply voltage: During all measurements the EUT's were supplied with 1.4 V.

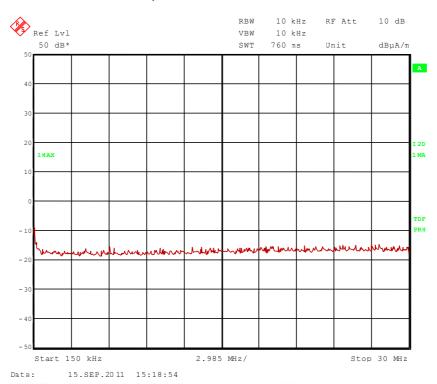
113169FCC1.wmf: Spurious emissions from 9 kHz to 150 kHz:



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113169FCC1.wmf: Spurious emissions from 150 kHz to 30 MHz:



Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Only the wanted frequency at 10.579 MHz was detected above the noise floor of the system during the preliminary radiated emission test.

Test results: The test results were calculated with the following formula: Result $[dB\mu V/m]$ = reading $[dB\mu V]$ + antenna factor [dB/m]

Results with measuring distance of 1 m						
Frequency	Result dBµV/m	Limit dBµV/m	Margin dB	Detector	Readings dBµV	Antenna factor * ² dB/m
10.579 MHz	38.5	89.5	51.0	QP	18.5	20.0
Measurement uncertainty			+2	2.2 dB / -3.6 dB		

^{*1:} Limit corrected with 40 dB / decade
*2: Cable loss included

Remark: At distances more than 1 m the wanted signal was below the noise of the measuring system

TEST EQUIPMENT USED FOR THE TEST:
1, 2, 4 – 7, 9

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5.2.1.2 PRELIMINARY MEASUREMENT (30 MHz to 1 GHz)

Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The

distance between EUT and antenna was 3 m.

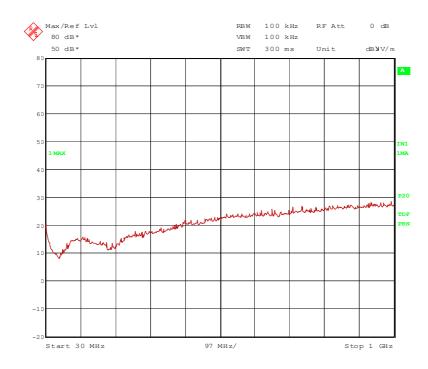
Cable guide: The cables of the EUT were fixed on the non-conducting table. For further

information of the cable guide refer to the pictures in annex A of this test report.

Test record: All results are shown in the following.

Supply voltage: During all measurements the EUT was supplied with 1.4 V.

113169FCC3.wmf: Spurious emissions from 30 MHz to 1 GHz:



Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	3	
30-88	100**	3	
88–216	150**	3	
216–960	200**	3	
Above 960	500	3	

The following frequencies were found inside the restricted bands during the preliminary radiated emission test:

The following frequencies were found outside the restricted bands during the preliminary radiated emission test:

Therefore no frequencies were measured in a final measurement on an open area test-site.

TEST EQUIPMENT USED FOR THE TEST:	
2, 4 - 8	

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6 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No.	Test equipment	Туре	Manufacturer	Serial No.	PM. No.	Cal. Date	Cal. due
1	Open area test site	-	Phoenix Test-Lab	-	480085	Weekly ve (systen	
2	Fully anechoic chamber M20	-	Albatross Projects	B83107-E2439-T232	480303	Weekly ve (systen	
3	Spectrum analyser	FSU	Rohde & Schwarz	200125	480956	04/15/2010	04/2012
4	Measuring receiver	ESI 40	Rohde & Schwarz	100064	480355	03/17/2010	03/2012
5	Controller	MCU	Maturo	MCU/043/971107	480832	-	-
6	Turntable	DS420HE	Deisel	420/620/80	480315	-	-
7	Antenna support	AS615P	Deisel	615/310	480187	-	-
8	Antenna	CBL6112 B	Chase	2688	480328	04/2011	04/2014
9	Loop antenna	HFH2-Z2	Rohde & Schwarz	832609/014	480059	08/2010	08/2012

7 REPORT HISTORY

Report Number	Date	Comment
F113169E3	25 November 2011	Document created
F113169E3 2nd Version	31 January 2012	Editorial changes
-	-	-

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8 LIST OF ANNEXES

ANNEX A TEST SETUP PHOTOS 3 pages

113169emi3.jpg: Test set-up radiated emission (E-Field) 113169emi4.jpg: Test set-up radiated emission (H-Field)

113169clima3.jpg: Test set-up climatic chamber

ANNEX B EXTERNAL PHOTOGRAPHS 2 pages

113169eut1.jpg: EUT, 3D-view 113169eut2.jpg: EUT, 3D-view

ANNEX C EXTERNAL PHOTOGRAPHS 3 pages

113169eut3.jpg: EUT, internal view 113169eut4.jpg: EUT, internal view 113169eut5.jpg: EUT, internal view

ANNEX D ADDITIONAL RESULTS FOR INDUSTRY CANADA 2 Pages

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