

## TEST REPORT

Test report no.: 1-5634/12-01-04-A



### Testing laboratory

**CETECOM ICT Services GmbH**  
 Untertuerkheimer Strasse 6 – 10  
 66117 Saarbruecken / Germany  
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#### Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS). The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01  
 Area of Testing: Radio/Satellite Communications

### Applicant

**UNITRON HEARING LTD**  
 20 Beasley Drive  
 N2G 4X1 Kitchener, Ontario / CANADA  
 Fax: +1 51 98 95 01 08  
 Contact: Ric Castle  
 Phone: +1 51 98 95 01 00x 2127

### Manufacturer

**UNITRON HEARING LTD**  
 20 Beasley Drive  
 N2G 4X1 Kitchener, Ontario / CANADA

### Test standard/s

- |                   |  |
|-------------------|--|
| 47 CFR Part 15    | Title 47 of the Code of Federal Regulations; Chapter I<br>Part 15 - Radio frequency devices  |
| RSS - 210 Issue 8 | Spectrum Management and Telecommunications - Radio Standards Specification<br>Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands):<br>Category I Equipment |
| RSS - Gen Issue 3 | General Requirements and Information for the Certification of Radiocommunication<br>Equipment  |

For further applied test standards please refer to section 3 of this test report.

### Test Item

**Kind of test item:** Wireless digital hearing aid  
**Model name:** Moxi Kiss Pro / Moxi Kiss 20 / Moxi Kiss 6 / Moxi Kiss E  
**FCC ID:** VMY-UWCRT2  
**IC:** 2756A-UWCRT2  
 Frequency: 10.6 MHz  
 Technology tested: Magnetic coupling  
 Antenna: Integrated coil antenna  
 Power Supply: 1.3 V DC by Zinc – Air - Battery  
 Temperature Range: -20°C to +55 °C



This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

### Test report authorised:



Stefan Bös  
 Senior Testing Manager

### Test performed:



Tobias Wittenmeier  
 Expert

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## 2 General information

### 2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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In no case this test report can be considered as a Letter of Approval.

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

### 2.2 Application details

Date of receipt of order:	2012-11-20
Date of receipt of test item:	2013-01-02
Start of test:	2013-01-02
End of test:	2013-01-03
Person(s) present during the test:	-/-

## 3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	2010-10	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	2010-12	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment
RSS - Gen Issue 3	2010-12	General Requirements and Information for the Certification of Radiocommunication Equipment

#### 4 Test environment

Temperature:	$T_{nom}$	+22 °C during room temperature tests
	$T_{max}$	+55 °C during high temperature tests
	$T_{min}$	-20 °C during low temperature tests
Relative humidity content:		55 %
Barometric pressure:		not relevant for this kind of testing
Power supply:	$V_{nom}$	1.3 V DC by Zinc – Air - Battery
	$V_{max}$	1.3 V
	$V_{min}$	1.1 V

#### 5 Test item

Kind of test item	:	Wireless digital hearing aid
Type identification	:	Moxi Kiss Pro
Variants	:	Difference in audiological Features / same RF part: Moxi Kiss 20 Moxi Kiss 12 Moxi Kiss 6 Moxi Kiss E
S/N serial number	:	TX: 1245K000E RX: 1245K000L
HW hardware status	:	Unknown
SW software status	:	Tru-fit 2.1
Frequency band [MHz]	:	10.6 MHz
Type of radio transmission	:	single carrier
Use of frequency spectrum	:	
Type of modulation	:	FSK
Number of channels	:	1
Antenna	:	Integrated coil antenna
Power supply	:	1.3 V DC by Zinc – Air - Battery
Temperature range	:	-20°C to +55 °C

#### 6 Test laboratories sub-contracted

None

**7 Summary of measurement results**

- No deviations from the technical specifications were ascertained**
- There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210, Issue 8	Passed	2013-01-18	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Results
§ 15.35 (c) / RSS-GEN Issue 3 Section 4.5	Timing of the transmitter (Duty cycle correction factor )	Nominal	Nominal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.209 / RSS-210 Issue 8	Bandwidth of the modulated carrier	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.209 / RSS-210 Issue 8	Fieldstrength of fundamental	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.209 (a) / RSS-210 Issue 8	Fieldstrength of harmonics and spurious	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.109 / RSS-210 Issue 8	Receiver spurious emissions	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.107 / § 15.207	Conducted limits	Nominal	Nominal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-/-

**Note:** NA = Not Applicable; NP = Not Performed

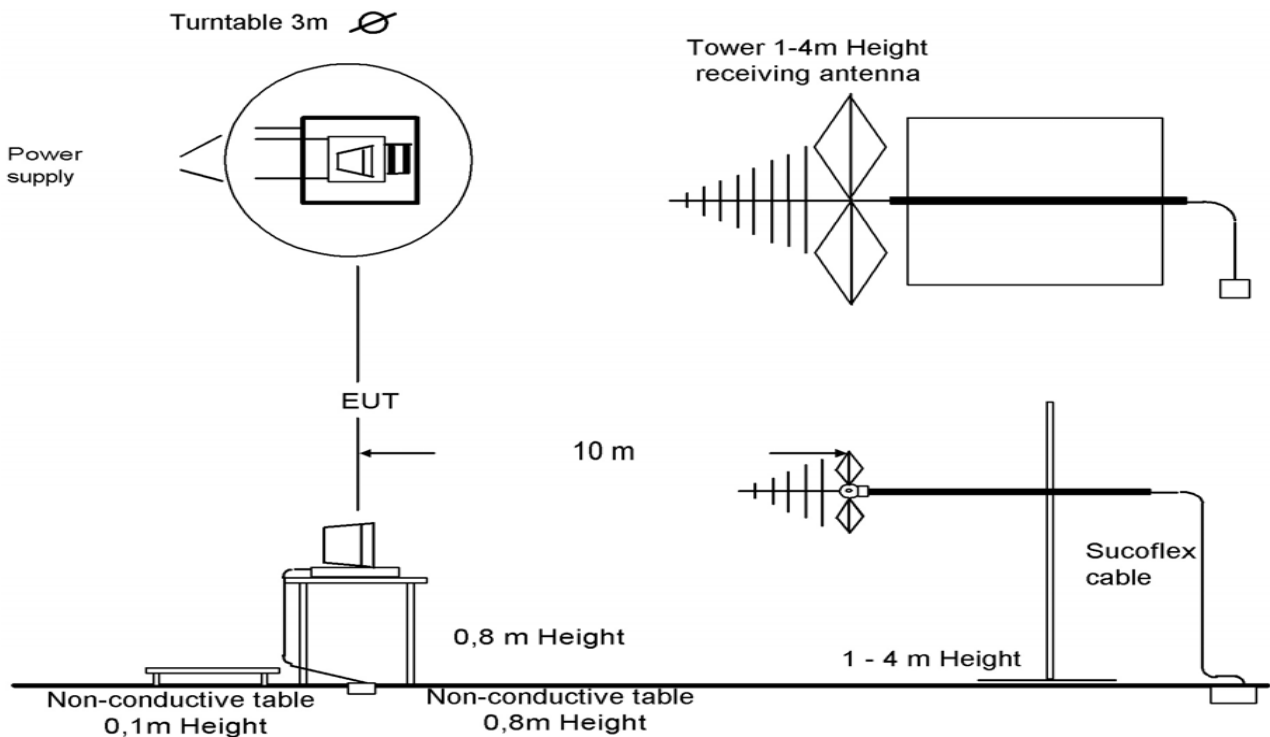
**8 RF measurements**

**8.1 Description of test setup**

**8.1.1 Radiated measurements**

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 25 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are confirmed with specifications ANSI C63.2-1996 and ANSI C63.4-2009. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63-4-2009. Antennas are confirmed with ANSI C63.2-1996 item 15.

Semi anechoic chamber



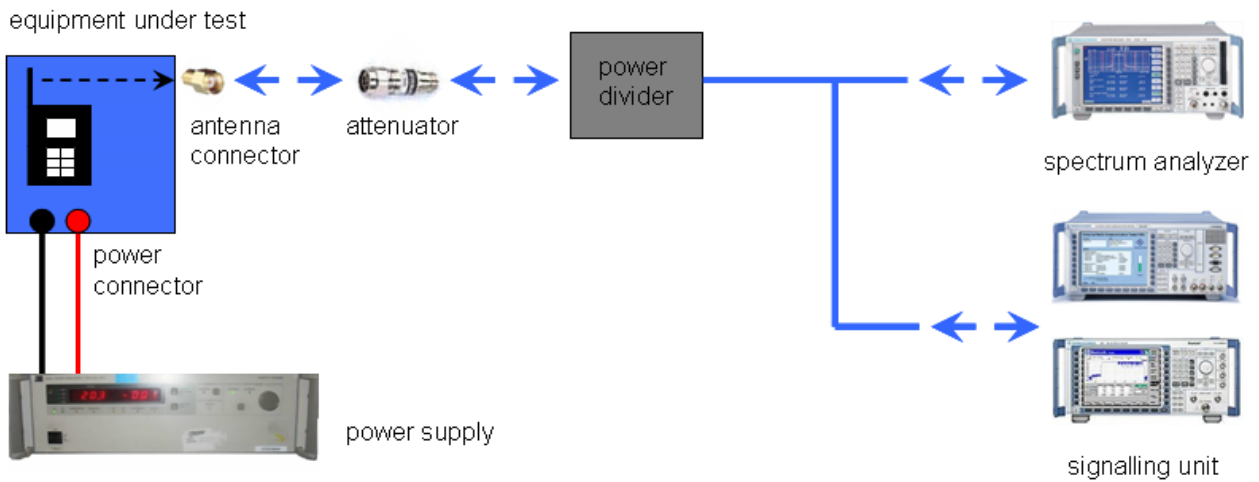
**Picture 1: Diagram radiated measurements**

9 kHz - 30 MHz:	active loop antenna
30 MHz – 1 GHz:	tri-log antenna
> 1 GHz:	horn antenna

The EUT is powered by an external power supply with nominal voltage. The signalling (if needed) is performed from outside the chamber with a signalling unit by air link using signalling antenna.

### 8.1.2 Conducted measurements

The EUT's RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The signal is first 10dB attenuated before it is power divided (~6dB loss per branch). The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, and the spectrum analyzer are impedance matched on 50 Ohm.



Picture 2: Diagram conducted measurements

### 8.2 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: None

### 8.3 RSP100 test report cover sheet / performance test data

Test Report Number	:	1-5634/12-01-04-A
Equipment Model Number	:	Moxi Kiss Pro Moxi Kiss 20 Moxi Kiss 12 Moxi Kiss 6 Moxi Kiss E
Certification Number	:	2756A-UWCRT2
Manufacturer (complete Address)	:	UNITRON HEARING LTD 20 Beasley Drive N2G 4X1 Kitchener, Ontario / CANADA
Tested to radio standards specification no.	:	RSS 210, Issue 8, Annex 2
Open Area Test Site IC No.	:	IC 3462C-1
Frequency Range or fixed frequency	:	10.6 MHz
Field Strength [dB $\mu$ V/m] (at which distance)	:	32 @ 3m
Occupied bandwidth (99%-BW) [kHz]	:	544.36
Type of modulation	:	FSK
Emission Designator (TRC-43)	:	544KF1D
Antenna Information	:	Integrated coil antenna
Transmitter Spurious (worst case) [dB $\mu$ V/m @ 10m]:		9.1 @ 54.2 MHz (Noise floor)

#### ATTESTATION:


#### DECLARATION OF COMPLIANCE:

I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

#### Laboratory Manager:

2013-01-18  
Date

Tobias Wittenmeier  
Name

  
Signature



## 9 Measurement results

### 9.1 Timing of the transmitter

Not applicable

## 9.2 Bandwidth of the modulated carrier

### Limits:

FCC	IC
Bandwidth of the modulated carrier	

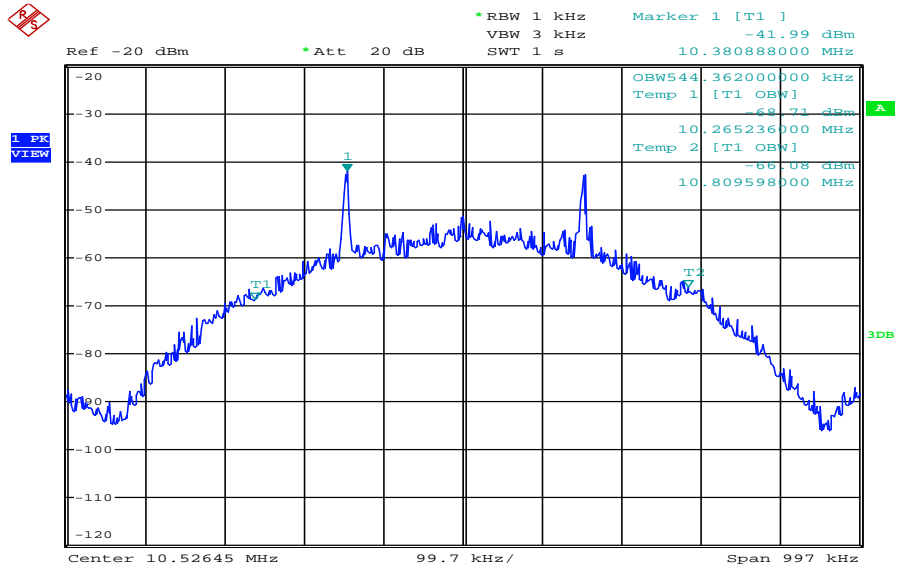
Measured with the integrated OBW-function of the spectrum analyser Rohde&Schwarz ESPI (measurement criteria is the integrated power in %)

### Result:

	Occupied Bandwidth (kHz)
20 dB (99%)	544.36

Plot of the measurement

Plot 1: 20dB (99%) - bandwidth



Date: 3.JAN.2013 10:34:16

### 9.3 Field strength of the fundamental

**Measurement:**

Measurement parameter	
Detector:	Quasi Peak (CISPR)
Resolution bandwidth:	10kHz
Trace-Mode:	Max Hold

**Limits:**

FCC		IC
Fundamental Frequency (MHz)	Field strength of Fundamental (dBµV/m)	Measurement distance (m)
1.705 – 30.0	29.5	30

**Result:**

TEST CONDITIONS		MAXIMUM POWER (dBµV/m)	
Frequency		10.6 MHz	10.6 MHz
Mode		at 1 m distance	at 30 m distance
T <sub>nom</sub>	V <sub>nom</sub>	52	-8
Measurement uncertainty		±3dB	

Recalculation to a measurement distance of 30m with a correction of 40 dB/decade.

**Result: Passed.**

## 9.4 Fieldstrength of the harmonics and spurious

**Measurement:**

Measurement parameter	
Detector:	Average / Quasi Peak
Sweep time:	Auto
Resolution bandwidth:	3 kHz - 120 kHz
Video bandwidth:	Comparable to RBW
Trace-Mode:	Max hold

**Limits:**

FCC		IC	
Field strength of the harmonics and spurious.			
Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)	
0.009 – 0.490	2400/F(kHz)	300	
0.490 – 1.705	24000/F(kHz)	30	
1.705 – 30	30 (29.5 dBµV/m)	30	
30 – 88	100 (40 dBµV/m)	3	
88 – 216	150 (43.5 dBµV/m)	3	
216 – 960	200 (46 dBµV/m)	3	

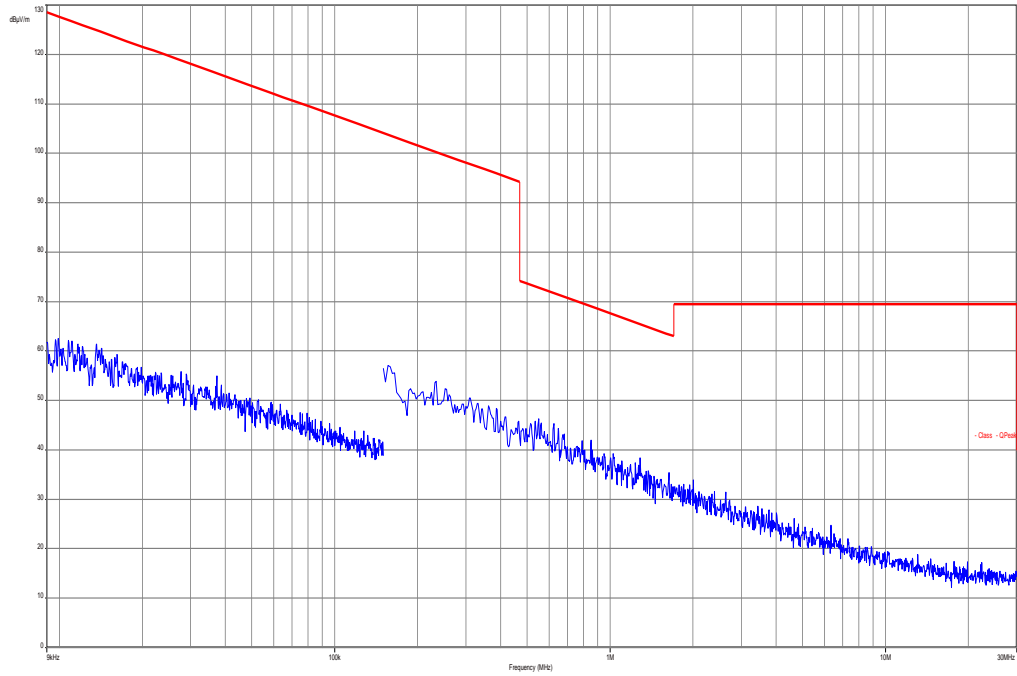
**Result:**

EMISSION LIMITATIONS				
f [MHz]	Detector	Limit max. allowed [dBµV/m]	Amplitude of emission [dBµV/m]	Results
No critical peaks detected!				

**Result:** Passed.

**Plots of the measurements**

Plot 1: 9 kHz – 30 MHz



Plot 2: 30 MHz – 1000 MHz

### Common Information

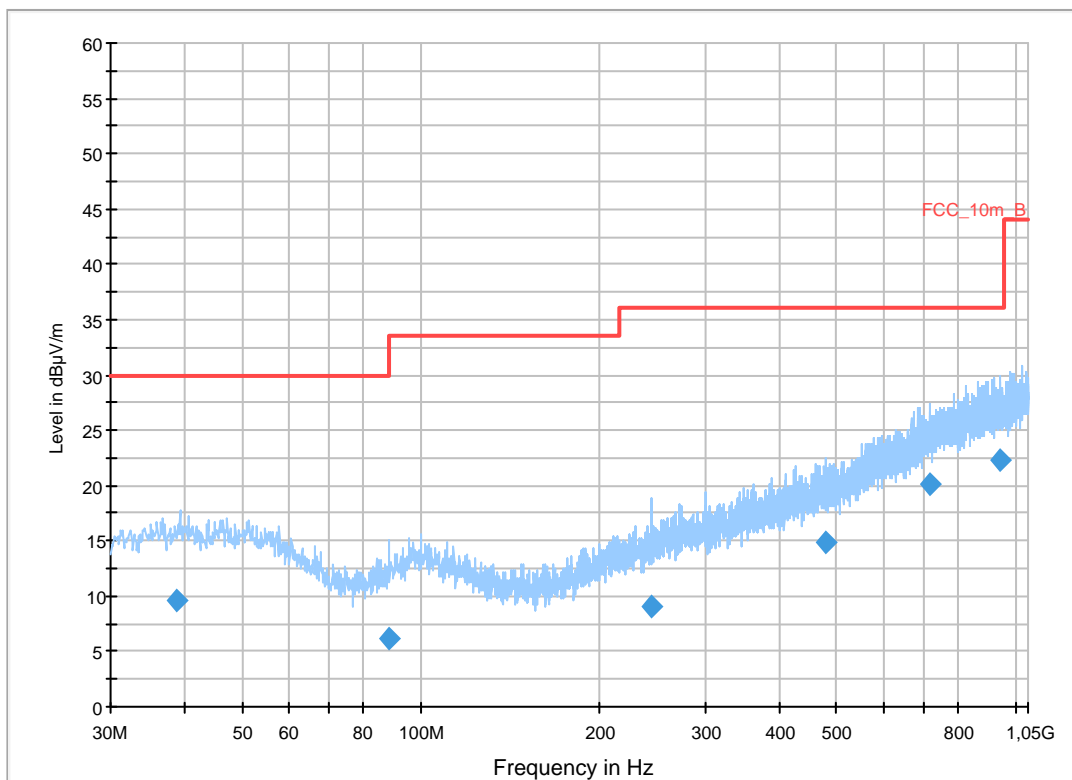
EUT: Moxi Kiss pro  
 Serial Number: 1245K000L  
 Test Description: FCC part 15 C class B @ 10m  
 Operating Conditions: TX  
 Operator Name: Hennemann  
 Comment: battery powered

### Scan Setup: STAN\_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)  
 Receiver: [ESC1 3]  
 Level Unit: dBµV/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB

FCC\_10m(B)\_3



### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
38.793750	9.5	1000.0	120.000	98.0	V	0.0	13.3	20.5	30.0	
88.172400	6.2	1000.0	120.000	170.0	H	81.0	10.3	27.3	33.5	
244.247400	9.1	1000.0	120.000	104.0	V	-3.0	13.1	26.9	36.0	
478.178400	14.8	1000.0	120.000	170.0	H	-5.0	18.3	21.2	36.0	
719.610450	20.1	1000.0	120.000	98.0	H	100.0	23.0	15.9	36.0	
940.757550	22.4	1000.0	120.000	170.0	H	81.0	25.3	13.6	36.0	

## Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30 MHz - 2 GHz

Receiver: Receiver [ESCI 3]  
@ GPIB0 (ADR 20), SN 100083/003, FW 4.42

Signal Path: without Notch  
FW 1.0

Antenna: VULB 9163  
SN 9163-295, FW ---  
Correction Table (vertical): VULP6113  
Correction Table (horizontal): VULP6113  
Correction Table (vertical): Cable\_EN\_1GHz (1005)  
Correction Table (horizontal): Cable\_EN\_1GHz (1005)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]  
@ GPIB0 (ADR 8), FW REV 3.12

Turntable: Turntable [EMCO Turntable]  
@ GPIB0 (ADR 9), FW REV 3.12

EMC 32 Version 8.52



## 9.5 Receiver spurious emissions

**Measurement:**

Measurement parameter	
Detector:	Average / Quasi Peak
Sweep time:	Auto
Resolution bandwidth:	3 kHz - 120 kHz
Video bandwidth:	Comparable to RBW
Trace-Mode:	Max hold

**Limits:**

FCC		IC	
<b>Field strength of the harmonics and spurious.</b>			
Frequency (MHz)	Field strength ( $\mu\text{V}/\text{m}$ )	Measurement distance (m)	
0.009 – 0.490	2400/F(kHz)	300	
0.490 – 1.705	24000/F(kHz)	30	
1.705 – 30	30 (29.5 dB $\mu\text{V}/\text{m}$ )	30	
30 – 88	100 (40 dB $\mu\text{V}/\text{m}$ )	3	
88 – 216	150 (43.5 dB $\mu\text{V}/\text{m}$ )	3	
216 – 960	200 (46 dB $\mu\text{V}/\text{m}$ )	3	

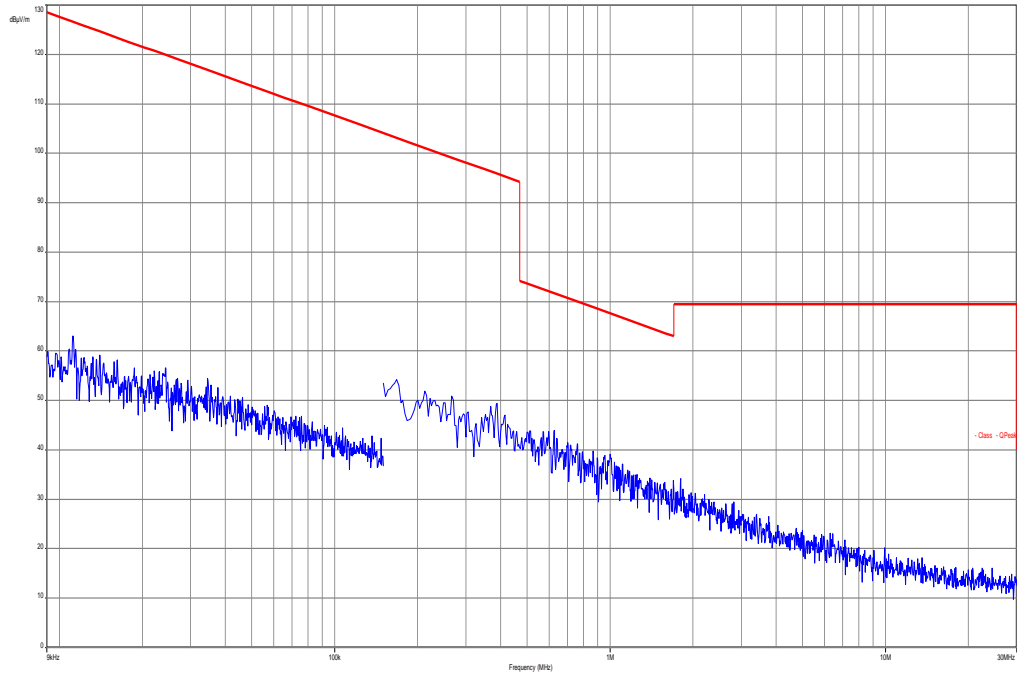
**Result:**

EMISSION LIMITATIONS				
f [MHz]	Detector	Limit max. allowed [dB $\mu\text{V}/\text{m}$ ]	Amplitude of emission [dB $\mu\text{V}/\text{m}$ ]	Results
No critical peaks detected!				

**Result:** The result of the measurement is passed.

**Plots of the measurements**

Plot 1: 9 kHz – 30 MHz



Plot 2: 30 MHz – 1000 MHz

### Common Information

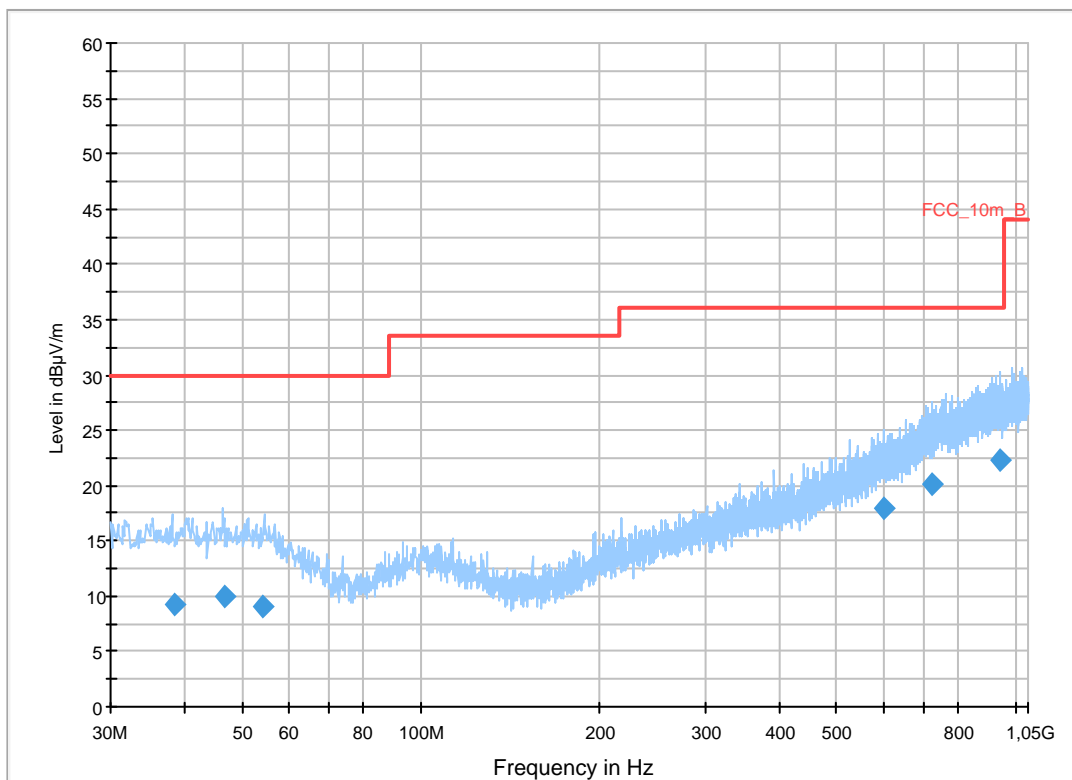
EUT: Moxi Kiss pro  
 Serial Number: SN: 1245K000E + (AE: 1245K000L)  
 Test Description: FCC part 15 C class B @ 10m  
 Operating Conditions: RX  
 Operator Name: Hennemann  
 Comment: battery powered

### Scan Setup: STAN\_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)  
 Receiver: [ESC1 3]  
 Level Unit: dBµV/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB

FCC\_10m(B)\_3



### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
38.482650	9.3	1000.0	120.000	170.0	V	190.0	13.3	20.7	30.0	
46.573800	9.9	1000.0	120.000	170.0	V	178.0	13.3	20.1	30.0	
54.156750	9.1	1000.0	120.000	170.0	H	178.0	13.0	20.9	30.0	
598.599600	17.9	1000.0	120.000	170.0	V	280.0	20.8	18.1	36.0	
722.887050	20.2	1000.0	120.000	98.0	H	280.0	23.0	15.8	36.0	
938.869050	22.3	1000.0	120.000	170.0	V	270.0	25.3	13.7	36.0	

## Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30 MHz - 2 GHz

Receiver: Receiver [ESCI 3]  
@ GPIB0 (ADR 20), SN 100083/003, FW 4.42

Signal Path: without Notch  
FW 1.0

Antenna: VULB 9163  
SN 9163-295, FW ---  
Correction Table (vertical): VULP6113  
Correction Table (horizontal): VULP6113  
Correction Table (vertical): Cable\_EN\_1GHz (1005)  
Correction Table (horizontal): Cable\_EN\_1GHz (1005)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]  
@ GPIB0 (ADR 8), FW REV 3.12

Turntable: Turntable [EMCO Turntable]  
@ GPIB0 (ADR 9), FW REV 3.12

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## 9.6 Conducted limits

Not applicable

The EUT is battery powered only!

No possibility to connect to the mains power supply!

## 10 Test equipment and ancillaries used for tests

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, rf-generating and signalling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Labor/Item).

No.	Lab / Item	Equipment	Type	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	n. a.	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032	vKI!	11.05.2011	11.05.2013
2	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	ne		
3	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev		
4	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	*	300000199	ne		
5	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001156	ne		
6	9	Isolating Transformer	MPL IEC625 Bus Regeltrennt ravo	Erfi	91350	300001155	ne		
7	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
8	n. a.	Amplifier	js42- 00502650- 28-5a	Parzich GMBH	928979	300003143	ne		
9	n. a.	Band Reject filter	WRCG185 5/1910- 1835/1925- 40/8SS	Wainwright	7	300003350	ev		
10	n. a.	Band Reject filter	WRCG240 0/2483- 2375/2505- 50/10SS	Wainwright	11	300003351	ev		
11	n. a.	Highpass Filter	WHKX7.0/1 8G-8SS	Wainwright	18	300003789	ne		
12	n. a.	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	22.08.2012	22.08.2013

### Agenda: Kind of Calibration

k calibration / calibrated  
 ne not required (k, ev, izw, zw not required)  
 ev periodic self verification  
 Ve long-term stability recognized  
 vKI! Attention: extended calibration interval  
 NK! Attention: not calibrated

EK limited calibration  
 zw cyclical maintenance (external cyclical maintenance)  
 izw internal cyclical maintenance  
 g blocked for accredited testing  
 \*) next calibration ordered / currently in progress

## 11 Observations

No observations exceeding those reported with the single test cases have been made.

**Annex A Photographs of the test setup**

Photo documentation:

Photo 1:

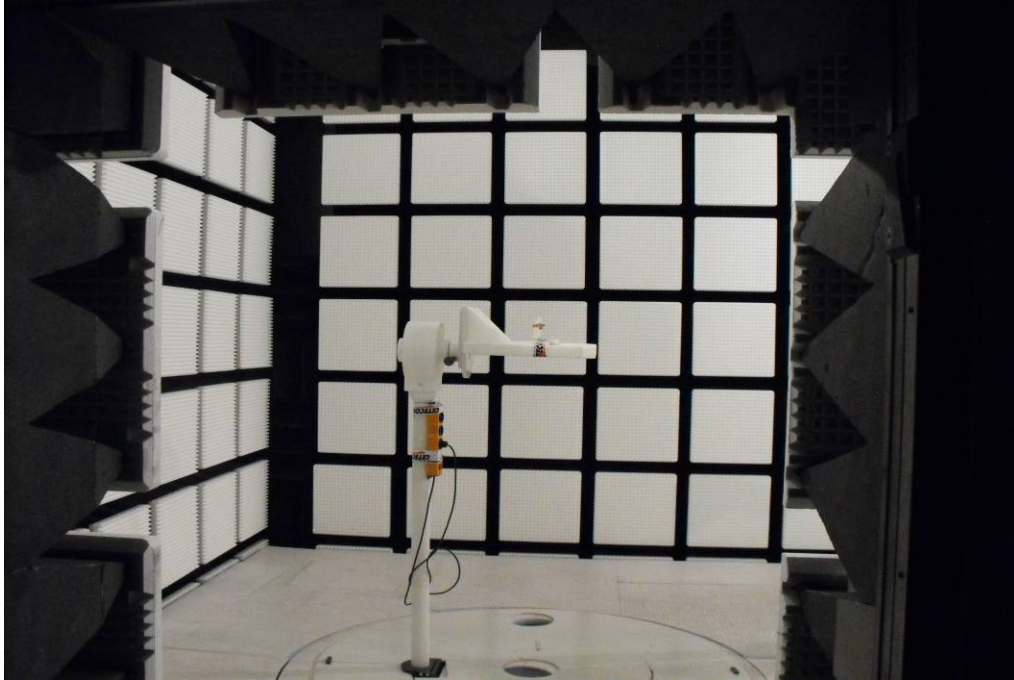


Photo 2:



Photo 3:



Photo 4:

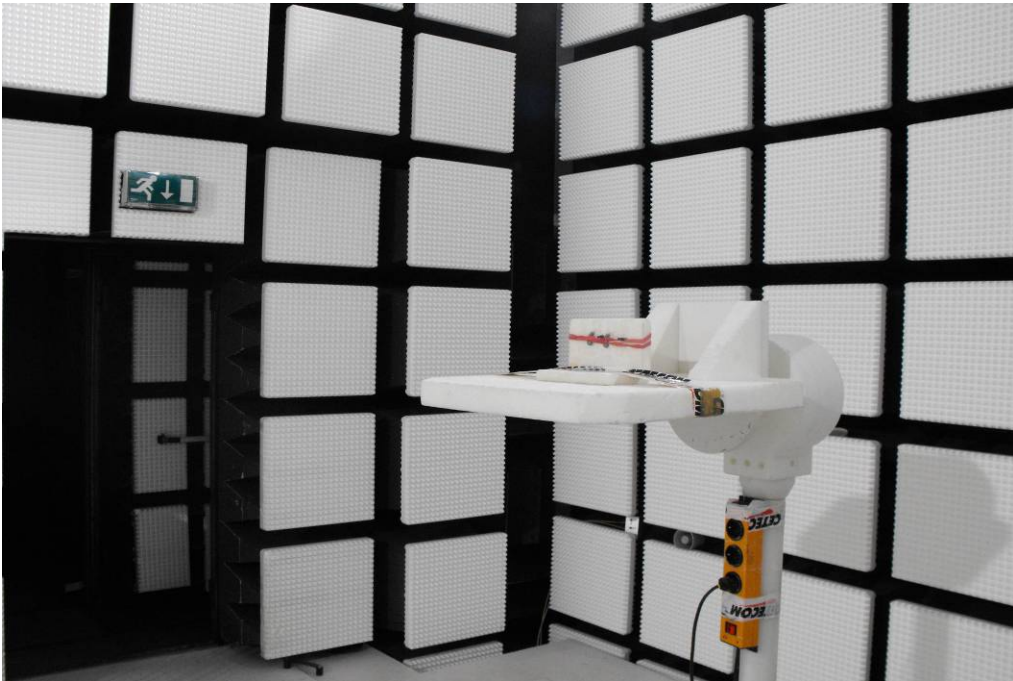




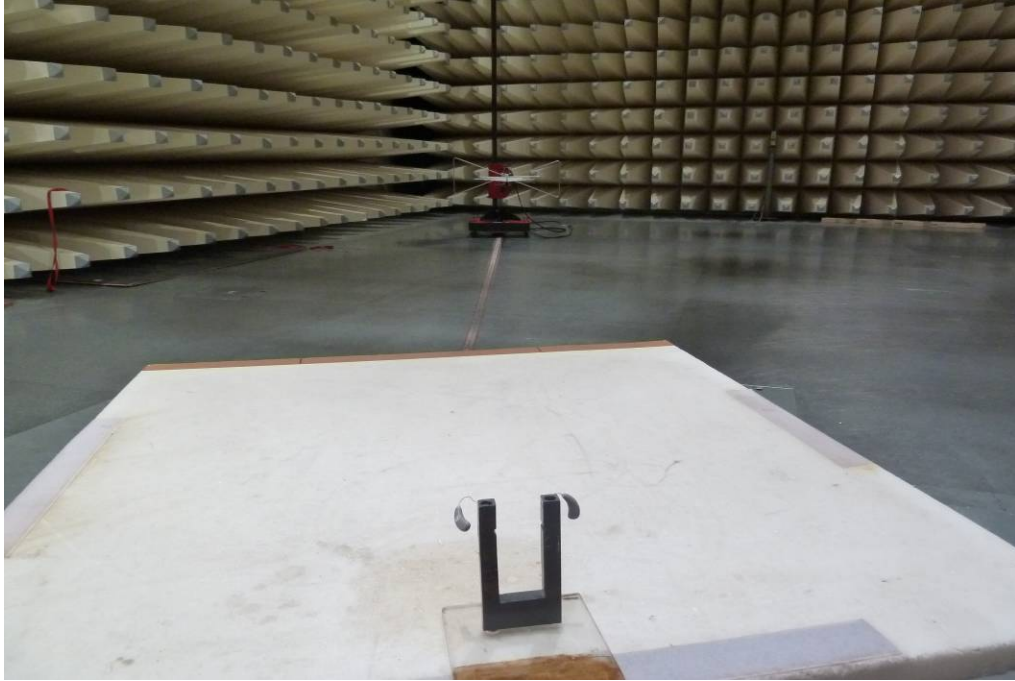
Photo 5:



Photo 6:



Photo 7:



**Annex B External photographs of the EUT**

Photo documentation:

Photo 1:



Photo 2:



Photo 3:

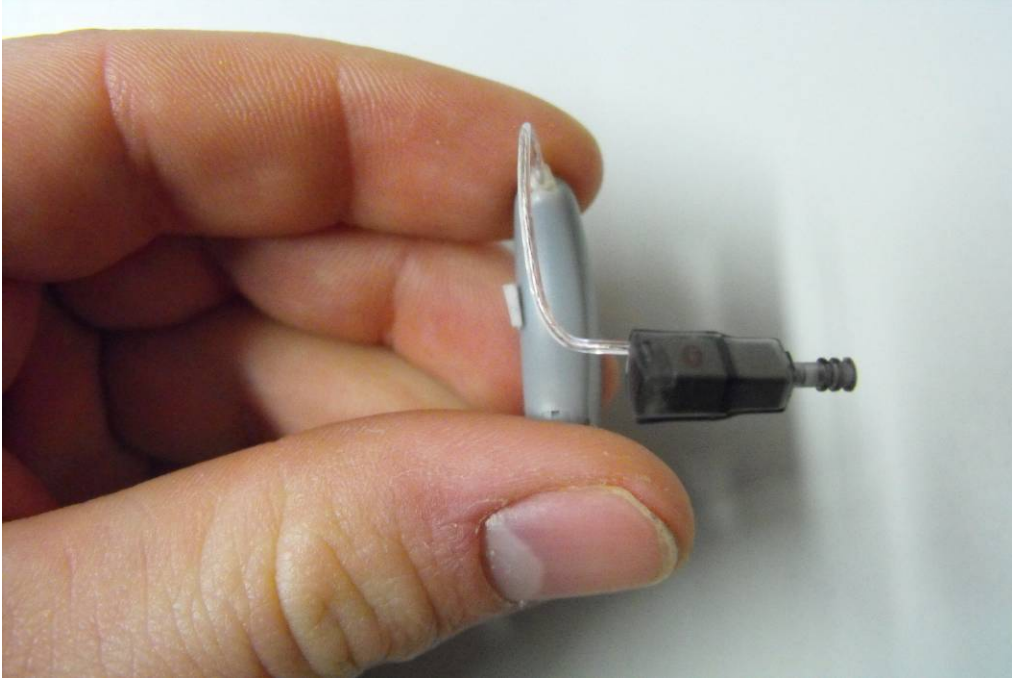


Photo 4:

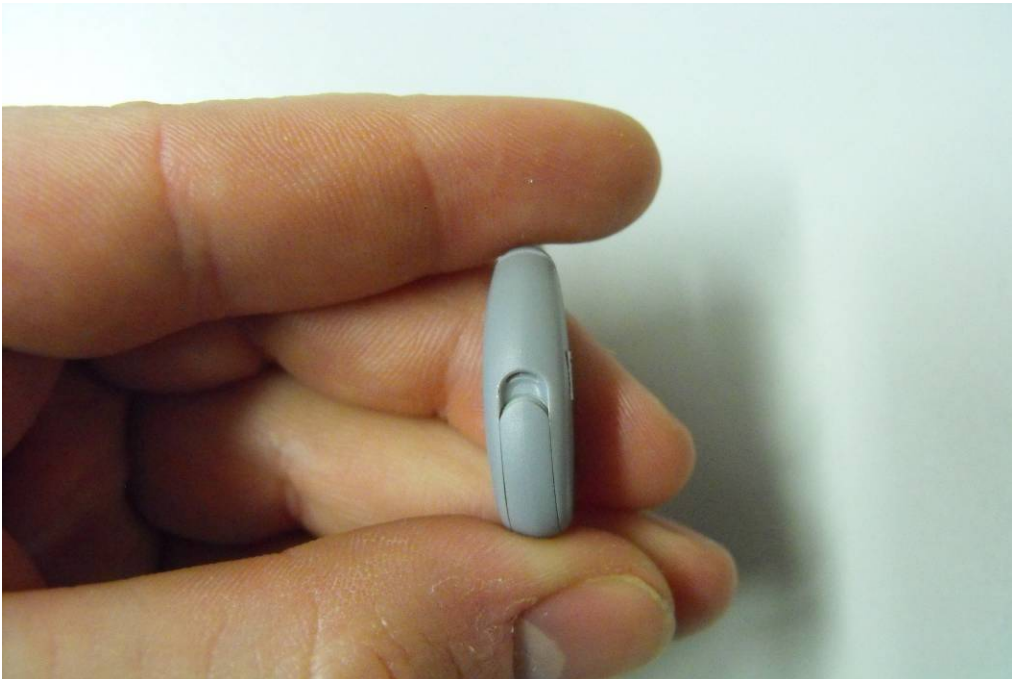


Photo 5:



Photo 6:

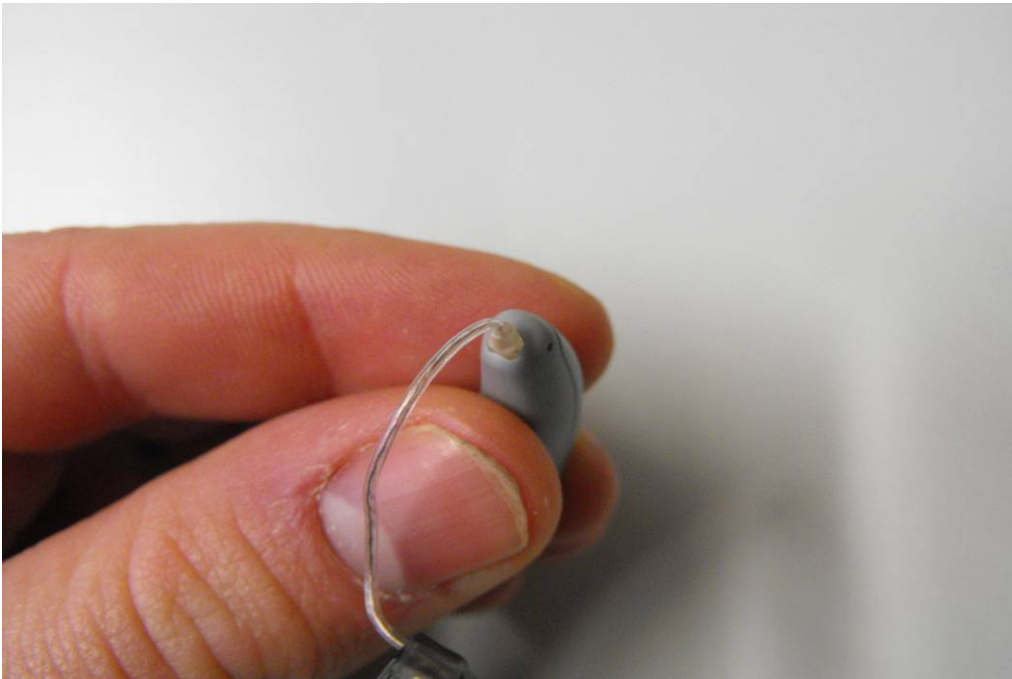


Photo 7:

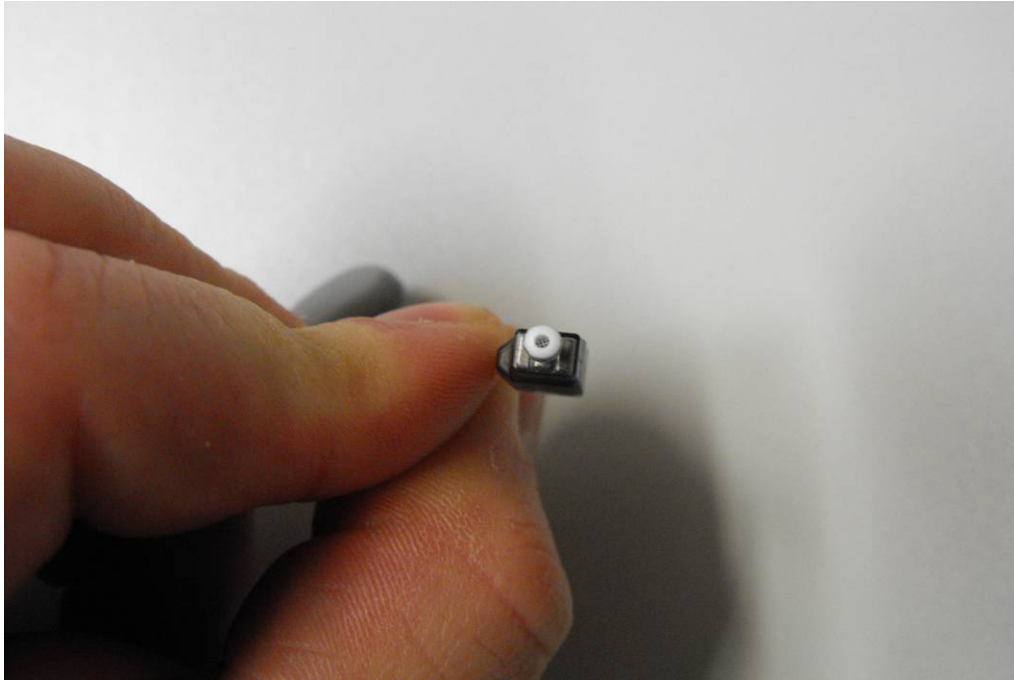


Photo 8:

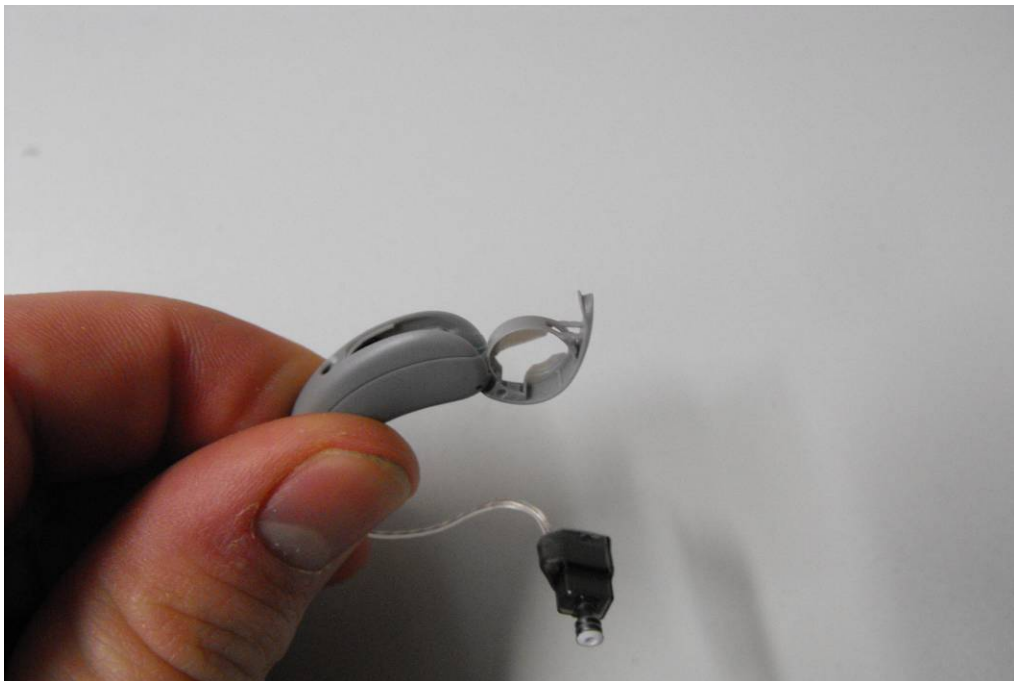


Photo 9:



Photo 10:



**Annex C Internal photographs of the EUT**

Photo documentation:

Photo 1:

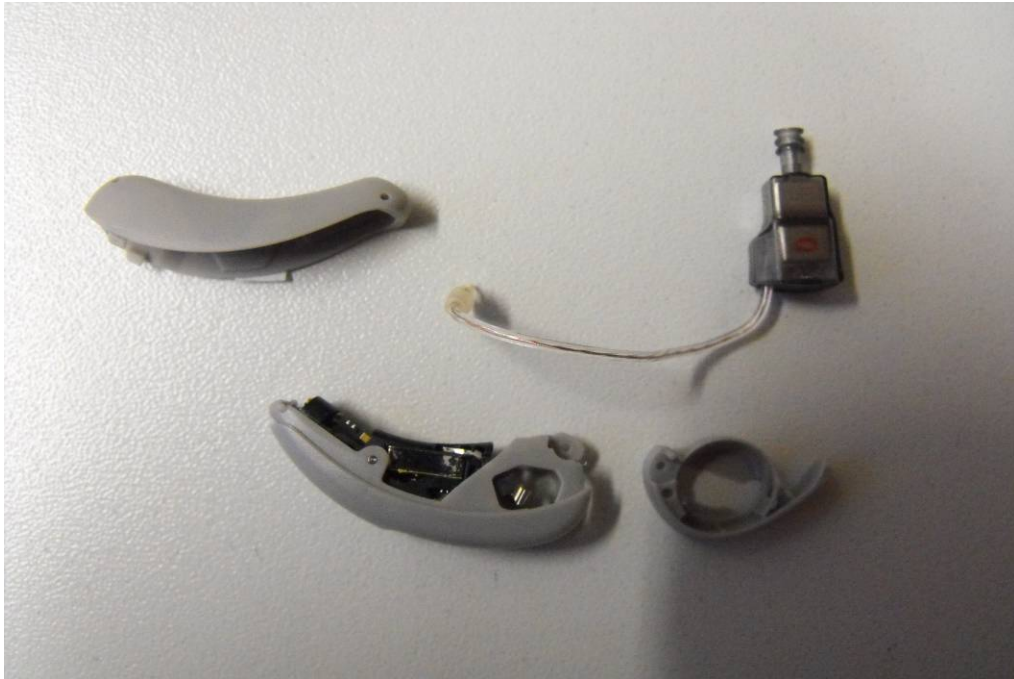


Photo 2:





Photo 3:

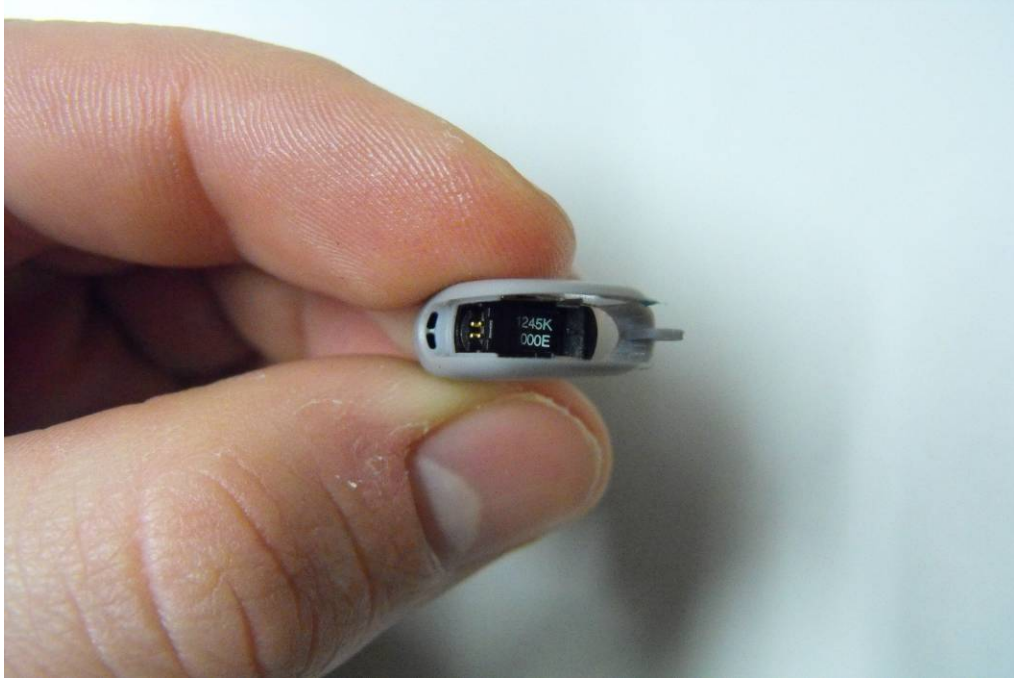


Photo 4:

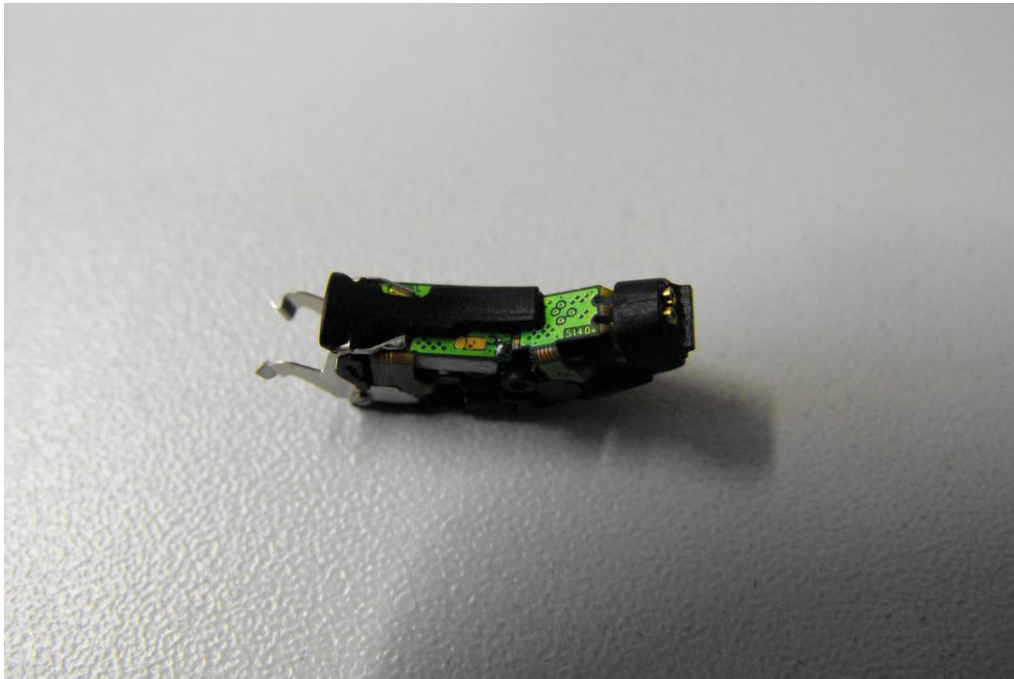


Photo 5:



Photo 6:



Photo 7:



Photo 8:

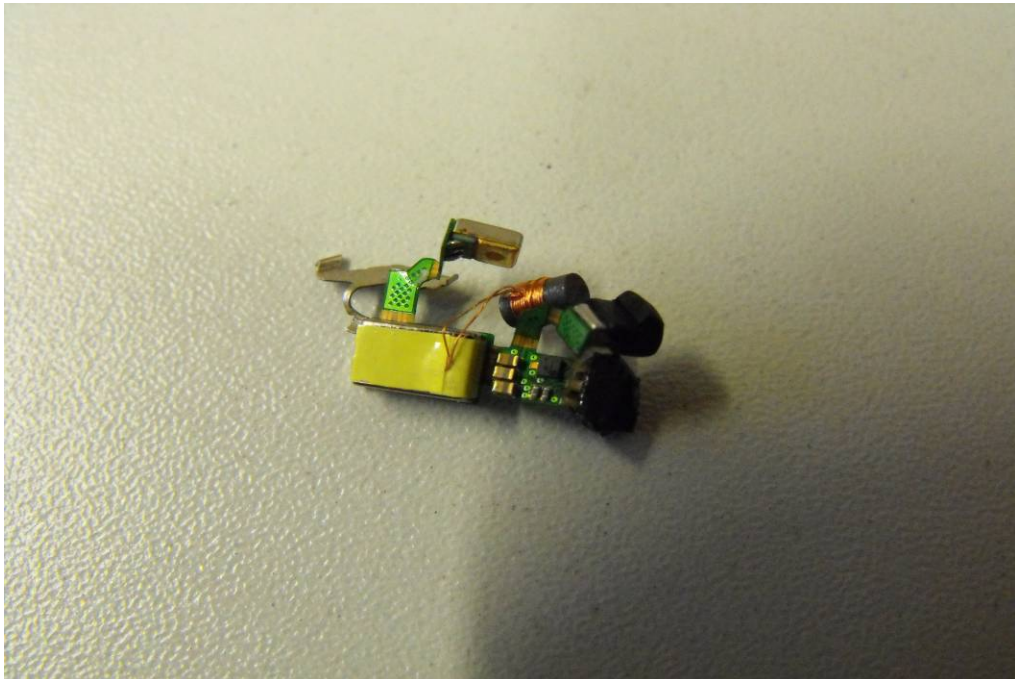


Photo 9:

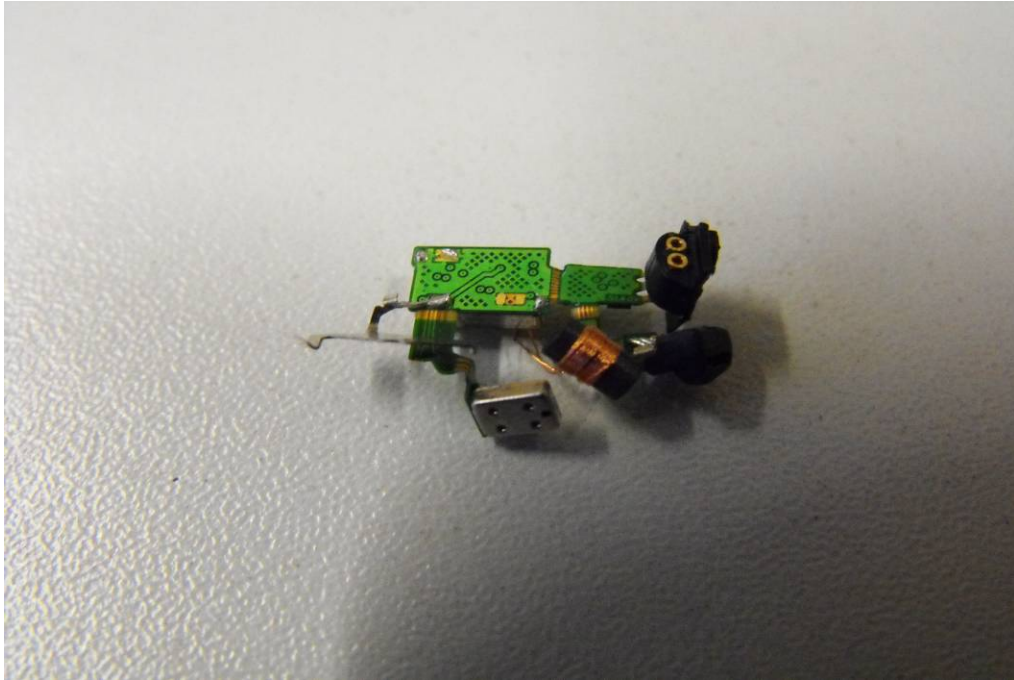


Photo 10:

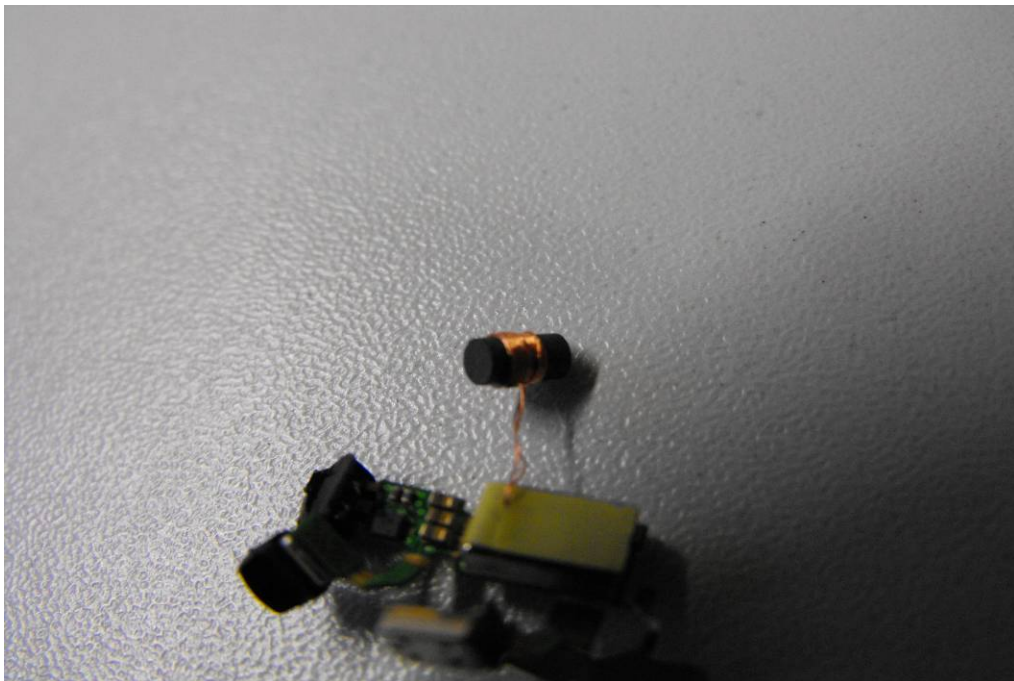
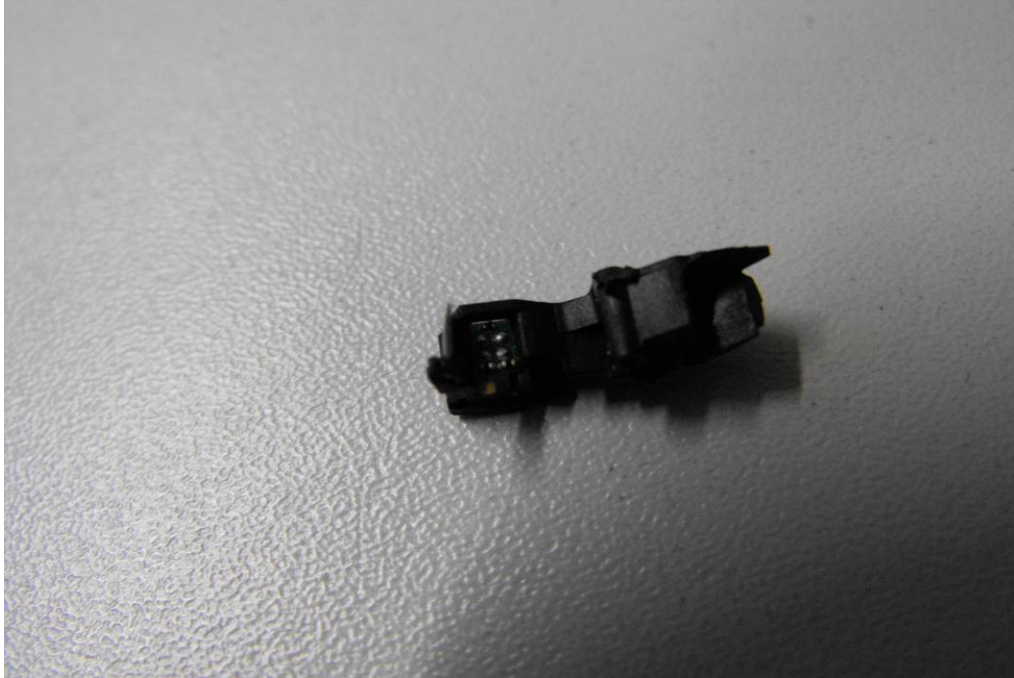


Photo 11:



**Annex D Document history**

Version	Applied changes	Date of release
1.0	Initial release	2013-01-07
-A	Correction of cover sheet and obw	2013-01-17

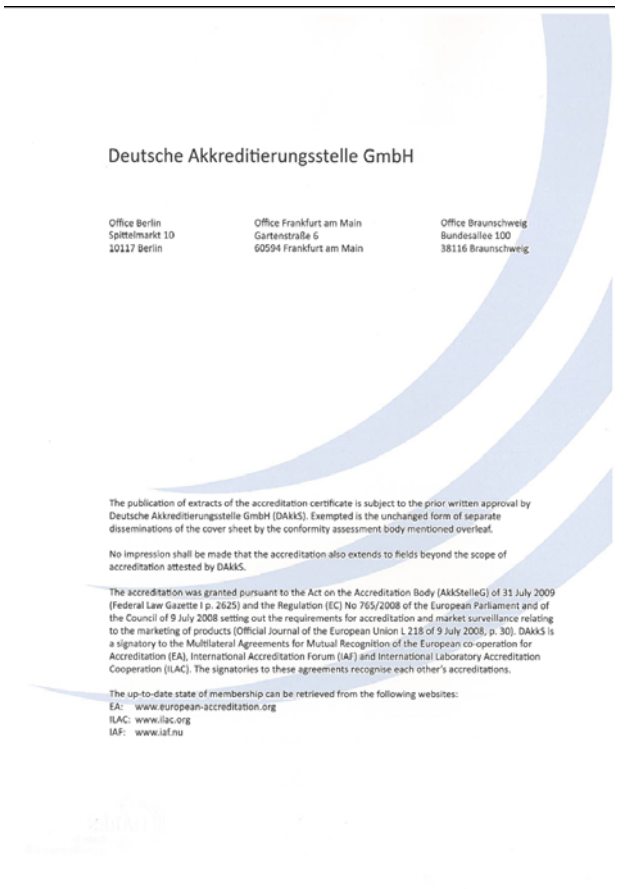
**Annex E Further information****Glossary**

AVG	-	Average
DUT	-	Device under test
EMC	-	Electromagnetic Compatibility
EN	-	European Standard
EUT	-	Equipment under test
ETSI	-	European Telecommunications Standard Institute
FCC	-	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	Inventory number
N/A	-	Not applicable
PP	-	Positive peak
QP	-	Quasi peak
S/N	-	Serial number
SW	-	Software

**Annex F Accreditation Certificate**



Front side of certificate



Back side of certificate

**Note:**

The current certificate including annex is published on our website (see link below) or may be received from CETECOM ICT Services on request.

[http://www.cetecom.com/fileadmin/de/CETECOM\\_D\\_Saarbruecken/accreditations\\_Jan\\_2010/DAKKS\\_Akkredi\\_Urk\\_EN17025-En\\_incl\\_Annex.pdf](http://www.cetecom.com/fileadmin/de/CETECOM_D_Saarbruecken/accreditations_Jan_2010/DAKKS_Akkredi_Urk_EN17025-En_incl_Annex.pdf)