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Recognized by the
Federal Communications Commission
**Anechoic chamber registration no.: 90462 (FCC)**
**Anechoic chamber registration no.: 3463 (IC)**
TCB ID: DE 0001

Accredited by the
German Accreditation Council
DAR–Registration Number
DAT-P-176/94-D1

Independent ETSI
compliance test house

# Accredited Bluetooth® Test Facility (BQTF)

| | | |
|---|---|---|
| **Test report no.** | **:** | **2-4302-01-01/06** |
| **Applicant** | **:** | **Idesco Oy** |
| **Type** | **:** | **Access 8 AH** |
| **Test Standard** | **:** | **FCC Part 15.209 / 207**<br>**RSS-210 Issue 6** |
| **FCC ID** | **:** | **UJRA8AH** |
| **Certification No. IC** | **:** | **6701A-A8AH** |

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# 1. Administrative data

## 1.1. Administrative data of the test facility

### 1.1.1 Identification of the testing laboratory

| | |
|---|---|
| Company name: | Cetecom ICT Services GmbH |
| Address: | Untertürkheimerstr. 6-10<br>D-66117 Saarbruecken<br>Germany |
| Laboratory accreditation: | DAR-Registration No. DAT-P-176/94-D1<br>Bluetooth Qualification Test Facility (BQTF) |
| Responsible for testing laboratory: | Dirk Hausknecht<br>Phone: +49 681 598 0<br>Fax: +49 681 598 9075<br>email: info@ict.cetecom.de |

.....
Responsible for testing
(Harro Ames)

### 1.1.2 Organizational items

| | |
|---|---|
| Reference No.: | 2-4302-01-01/06 |
| Order No.: | |
| Receipt of EUT: | 2006-08-16 |
| Date(s) of test: | 2006-08-16 |
| Date of report: | 2006-10-09 |
| Number of report pages: | 25 |
| Number of diagram pages (annex): | |
| Version of template: 1.8 | |

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Responsible for laboratory
(Dirk Hausknecht)

Note:
The test results of this test report relate exclusively to the item tested as specified in this report. The 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.

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

During the test no hardware and software changes are allowed to be performed at the EUT.

### 1.1.3 Applicant´s details

| | |
|---|---|
| Applicant´s name: | Idesco Oy |
| Address: | Teknollogiantie 9<br>90570 Oulu<br>Finland |
| Contact person: | Mr. Erno Väyrynen<br>Tel: +358 20 743 4175<br>Fax: +358 8 551 4176<br>email: erno.vayrynen@idesco.fi |

## 1.2 Administrative data of manufacturer / member

| | |
|---|---|
| Manufacturer´s name: | - applicant - |
| Address: | |

## 1.3 Description of the Equipment under test (EUT)

### 1.3.1 EUT: Type, S/N etc.

| | | |
|---|---|---|
| Type of equipment | : | RFID Reader |
| Model name | : | Access 8 AH |
| Manufacturer | : | Idesco Oy |
| Address | : | Teknollogiantie 9 |
| City | : | 90570 Oulu |
| Country | : | Finland |
| Tested to Radio Standards Specification(RSS) No. | : | 210 Issue 6 |
| Open Area Test Site Industry Canada Number | : | 3463 |
| Frequency Range (or fixed frequency) | : | Tx: 125 kHz |
| R F: Power in Watts | : | -/- |
| Field Strength (at what distance) | : | 2.82 mV/m ( 69 dBµV/m) in 10m |
| Occupied Bandwidth (99% BW) | : | 1 kHz |
| Type of Modulation | : | N0N (inductive loop) |
| Antenna Information | : | Loop antenna |
| Emission Designator | : | 1K00N0N |
| Transmitter Spurious (worst case) | : | No spurious found (noise floor) |
| Receiver Spurious (worst case) | : | -/- |
| IC no. | : | 6701A-A8AH |
| FCC ID | : | UJRA8AH |

**ATTESTATION:**
**DECLARATION OF COMPLIANCE:** I declare 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 :**

| Date | Name | Signature |
|---|---|---|
| 2006-10-09 | Harro Ames | |

## 1.4 Test Setup

Hardware :
Software :

## 1.5 Test Specifications

| | |
|---|---|
| **FCC:** | **CFR Part 15.209 / 207** |
| **IC:** | **RSS 210, Issue 6** |

# 2 Statement of Compliance

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

## 2.1 Summary of Measurement Results

### 2.1.1 CFR 47 Part 15 Radio frequency devices

| Section in this Report | Test Name / Section FCC Part 15 | Test Name / Section RSS 210 and RSS-GEN | applicable | Verdict |
|---|---|---|---|---|
| 4.1 | § 15.35 (c)<br>Timing of the transmitter (Duty cycle correction factor ) | Pulsed Operation | YES | pass |
| 4.2 | § 15.209 (a)<br>FIELDSTRENGTH OF FUNDAMENTAL | 2.6 | YES | pass |
| 4.3 | § 15.209 (a)<br>FIELDSTRENGTH OF HARMONICS and SPURIOUS | 2.2 | YES | pass |
| 4.4 | § 15.109<br>Receiver spurious emissions (radiated) | 2.2 | NO | |
| 4.5 | § 15.107 / 15.207 Conducted Limits | Section 6.6 , 7.4 | YES | pass |
| | | | | |
| | | | | |

# 3 Measurements and results

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 20 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 conform with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2003 clause 4.1.5. 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 set-ups 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 C63.4-2003 clause 4.2.
Antennas are conform with ANSI C63.2-1996 item 15.
150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth, passive loop antenna.

30 MHz - 200 MHz: Quasi Peak measurement, 120KHz Bandwidth, biconical antenna
200MHz - 1GHz: Quasi Peak measurement, 120KHz Bandwidth, log periodic antenna
>1GHz: Average, RBW 1MHz, VBW 10 Hz, wave guide horn

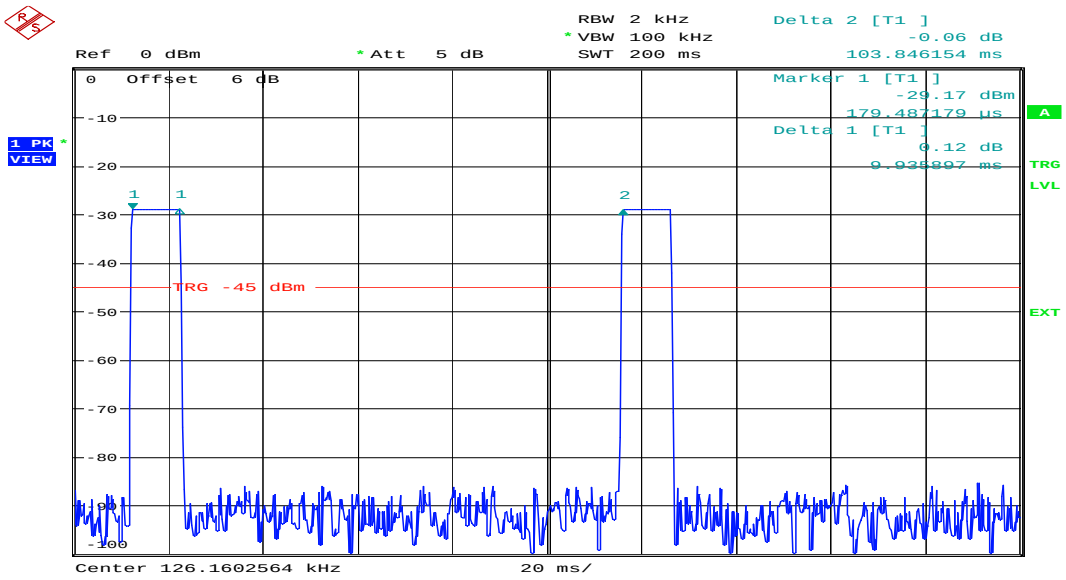
All measurement settings are according to FCC 15.109 and 15.107

# 4 FCC Part 15 Subpart B

## 4.1 Timing of the transmitter

**Reference**

| | |
|---|---|
| FCC: | CFR Part SUBCLAUSE § 15.35 (c) |
| IC: | RSS 210, ISSUE 6 6.5 Pulsed operation |




Date: 18.AUG.2006 08:44:07

**This plot was made to show the timing behavior of the product.**

**Limits:** § 15.35 (c)

(c) Unless otherwise specified, e.g. Section 15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED :
( see test equipment listing)

## 4.2 Field strength of the fundamental

**Reference**

| | |
|---|---|
| FCC: | CFR Part SUBCLAUSE § 15.209 (a) |
| IC: | RSS 210, Issue 6, 6.2.1 |

**Maximum output power (average) - (radiated)**

| TEST CONDITIONS | | MAXIMUM FIELD (at 10m) | | |
|---|---|---|---|---|
| Frequency | | 125 | | |
| | | kHz | | |
| $T_{nom}$ +21 °C | $V_{nom}$ 24V DC | 2.82 mV<br>69.0 dBµV/m | | |
| Maximum deviation from output power under extreme test conditions (dBc) | | not applicable | | |
| Measurement uncertainty | | ±3dB | | |

RBW/VBW : 200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz

**Limits** **SUBCLAUSE § 15.209 (a)**

| Fundamental Frequency (MHz) | Field strength of Fundamental (µV/m) | 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 |
| 30.0 – 88.0 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 – 960 | 200 | 3 |
| Above 960 | 500 | 3 |

## 4.3 Field strength of the harmonics and the spurious

**Reference**

| | |
|---|---|
| FCC: | CFR Part SUBCLAUSE § 15.209 (a) |
| IC: | RSS 210, Issue 6, 6.2.1 |

| EMISSION LIMITATIONS | | | | | |
|---|---|---|---|---|---|
| f (MHz) | | amplitude of emission (dBµV/m) Average/QP | limit max. allowed emmision power **at 10m** | actual attenuation below frequency of operation (dB) | results |
| 0.125 | | 69.0 (AV) | 85.6 dBµV/m | 16.6 dB | Operating frequency |
| | | | | | |
| | | | | | |
| | | no | other | spurious | found |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Measurement uncertainty | | | ± 3dB | | |

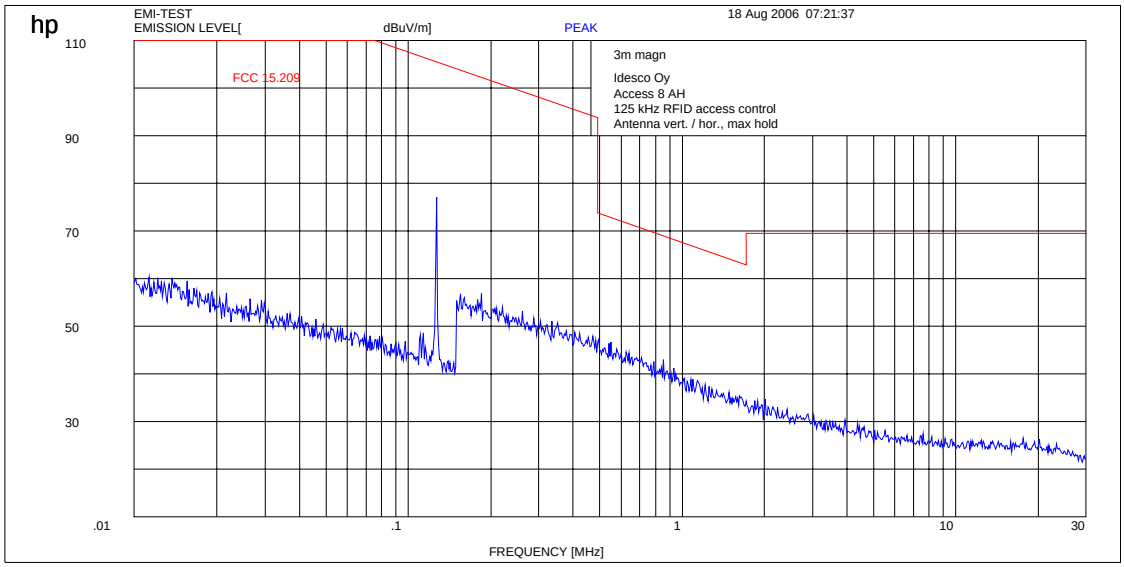
RBW/VBW : 200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz

**Limits** **SUBCLAUSE § 15.209 (a)**

| Fundamental Frequency (MHz) | Field strength of Fundamental (µV/m) | 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 |
| 30.0 – 88.0 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 – 960 | 200 | 3 |
| Above 960 | 500 | 3 |

## 4.4 Plots of measurements

Plot 1:
***Part 15.209 Magnetics TX***




RBW/VBW : 200 Hz up to 150 kHz, 9 kHz up to 30 MHz

Performed in a fully anechoic chamber at 3m to getan overview about radiated emissions.
This values may have some errors because of the small distance between measureing antenna and sample.
Therefore we remeasured all found peaks at 10m. (see page 10)

(to convert the measuring distance from 10m to 30m and 30 to 300m a correction factor from 40 dB/decade was used.
Here we use 80 dB to recalculate from 3m to 300m)

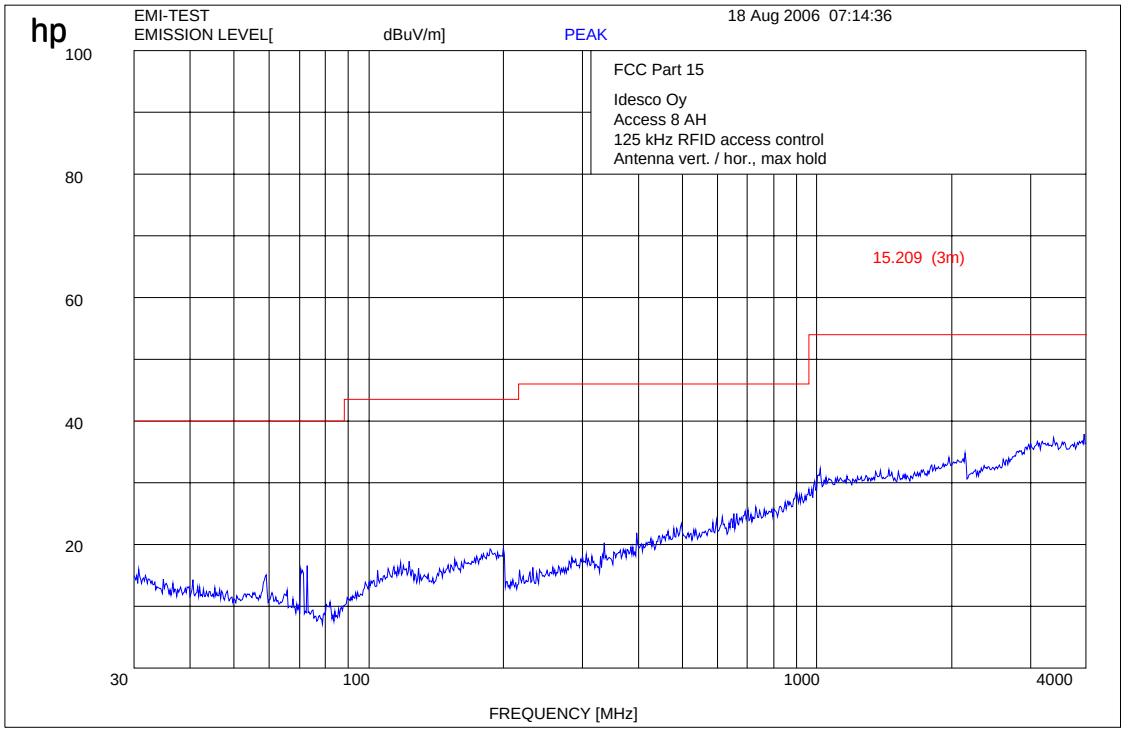
Measurement distance 3 m
This measurement was done in 3 planes, the plot shows the worst case ase

**Limits** **SUBCLAUSE § 15.209**

| Frequency (MHz) | Field strength (µV/m) | Measurement distance (m) |
|---|---|---|
| 0.0009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| above 960 | 500 | 3 |

Plot 2:

**TX (30 MHz to 4 GHz)**



## 4.5 Receiver spurious emission (radiated)

**not applicable**

**Reference**

| | |
|---|---|
| FCC: | CFR Part SUBCLAUSE § 15.109 |
| IC: | RSS 210, Issue 6, Section 7.3 Receiver Spurious Emissions (Radiated) |

| SPURIOUS EMISSIONS LEVEL (µV/m) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Low Channel | | | Middle Channel | | | High Channel | | |
| MHz | | | MHz | | | MHz | | |
| F [MHz] | Detector | Level [µV/m] | F [MHz] | Detector | Level [µV/m] | F [MHz] | Detector | Level [µV/m] |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Measurement uncertainty | | | ±3 dB | | | | | |

f < 1 GHz : RBW/VBW: 100 kHz f ≥ 1GHz : RBW/VBW: 1 MHz

**Limits** **SUBCLAUSE § 15.109**

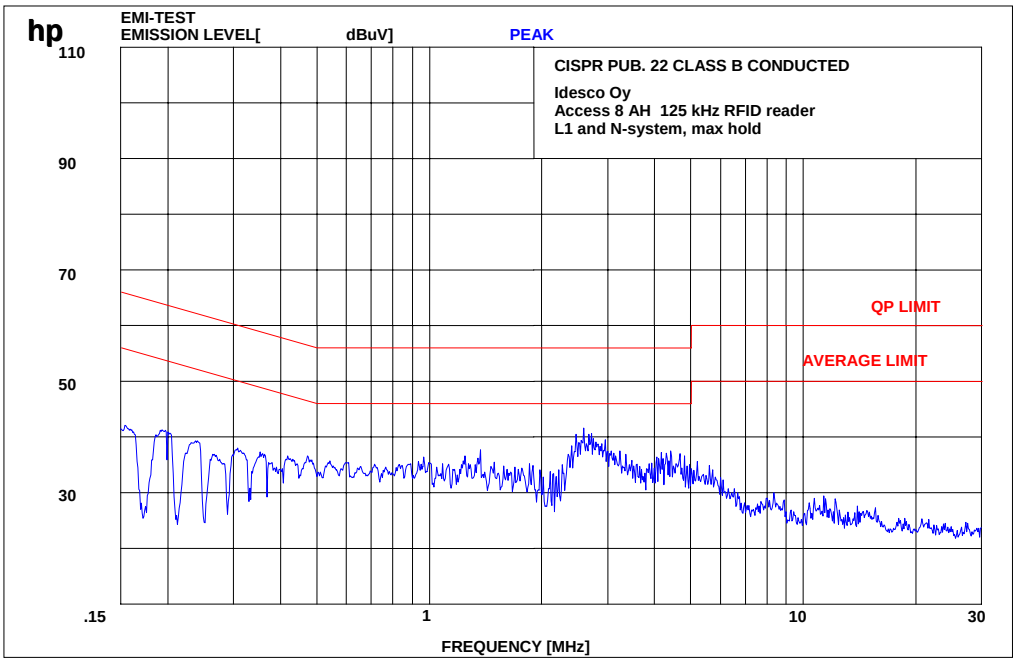
| Frequency (MHz) | Field strength (µV/m) | Measurement distance (m) |
|---|---|---|
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| above 960 | 500 | 3 |

## 4.6 Conducted Limits

**Reference**

| | |
|---|---|
| FCC: | CFR Part 15.207, 15.107 |
| IC: | RSS 210, Issue 6, Section 6.6 , 7.4 |

for this measurement we used a power supply from our house, as there is no dedicated power supply.




**Limits:** § 15.107 / 15.207

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 – 0.5 | 66 to 56 * | 56 to 46 * |
| 0.5 – 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

* Decreases with the logarithm of the frequency

# 5 Used Testequipment

| No. | Instrument/ Ancillary | Manufacturer | Type | Serial-No. | Internal ID No. | | |
|---|---|---|---|---|---|---|---|
| | **Anechoic chamber** | | | | | | |
| 1. | Anechoic chamber | MWB | | 87400/02 | 300000996 | | |
| 2. | Bi conical antenna | EMCO | 3104C | 9909-4868 | 300002590 | | |
| 3. | Log. Per. antenna | EMCO | 3146 | 2130 | 300001603 | | |
| 4. | Double ridge horn | EMCO | 3115P | 3088 | 300001032 | | |
| 5. | Active loop antenna | EMCO | 6502 | 2210 | 300001015 | | |
| 6. | Loop antenna | Rohde & Schwarz | HFH2-Z2 | 891847-35 | 300001169 | | |
| 7. | Spectrum analyzer | Hewlett-Packard | 8566B | 2747A05306 | 300001000 | | |
| 8. | Spectrum analyzer display | Hewlett-Packard | 85662A | 2816A16541 | 300002297 | | |
| 9. | Quasi peak adapter | Hewlett-Packard | 85650A | 2811A01131 | 300000999 | | |
| 10. | RF pre selector | Hewlett-Packard | 85685A | 2833A00768 | 400000081 | | |
| 11. | Workstation | Hewlett-Packard | Vectra VL | | 300001688 | | |
| 12. | Software | Hewlett-Packard | EMI Halle C | | 300000983 | | |
| 13. | Power attenuator | Byrd | 8325 | 1530 | 300001595 | | |
| 14. | Band reject filter | Wainwright | WRCG1855/1910 | 7 | 300003350 | | |
| 15. | Band reject filter | Wainwright | WRCG2400/2483 | 11 | 300003351 | | |
| 16. | Power supply unit | Hewlett-Packard | 6032A | 2818A03450 | 300001040 | | |
| 17. | Universal communication tester | Rohde & Schwarz | CMU 200 | 103992 | 300003231 | | |
| | | | | | | | |
| | **Laboratories Short Range Devices** | | | | | | |
| 18. | Amplifier | Parzich GMBH | js42-00502650-28-5a | 928979 | 300003143 | | |
| 19. | Analog-/Digital multi-meter | | DF-971A | 438309, 438320, 438361 | 400000082 | | |
| 20. | Audio Analyzer 2Hz - 300 kHz | Rohde & Schwarz | UPD | 841074/009 | 300001236 | | |
| 21. | Bit error analyzer | Hewlett-Packard | 37732A | 3606U03073 | 300001446 | | |
| 22. | Communication tester | Rohde & Schwarz | CMD55 | 831050/082 | 300003018 | | |
| 23. | Communication test Set | Schlumberger | 4040 | 1725117 | 300001387 | | |
| 24. | Directional coupler | Amplifier Research | DC 3010 | 12709 | 300001226 | | |
| 25. | Directional coupler | EMV | DC3010 | 12306 | 300001429 | | |
| 26. | Field strength meter (Near field probe) | EMCO | 7405 | 9202-2150 | 300001203 | | |
| 27. | Frequency Counter | Hewlett-Packard | 5386A | 2704A01243 | 300000998 | | |
| 28. | Climatic chamber | Heraeus Voetsch | VT 4002 | 5,8566E+13 | 300003019 | | |
| 29. | Climatic chamber | Heraeus Voetsch | VT 4002 | 521/83761 | 300002326 | | |
| 30. | Power sensor | Hewlett-Packard | 8484A | 2237A10156 | 300001140 | | |
| 31. | Power sensor | Hewlett-Packard | 8482A | 2237A06016 | 300001139 | | |
| 32. | Power sensor | Hewlett-Packard | 8484A | 2237A10494 | 300001666 | | |
| 33. | Power sensor | Hewlett-Packard | 8482A | 1925A04674 | 300001667 | | |
| 34. | Power sensor | Hewlett-Packard | 8485A | 2238A00849 | 300001668 | | |
| 35. | Power sensor | Hewlett-Packard | 8482A | 2237A06009 | 300001267 | | |
| 36. | Power sensor (attenuator) | Hewlett-Packard | 8482B | 2703A02586 | 300001492 | | |
| 37. | Local Oscillator | Hewlett-Packard | 70900A | 2842A02221 | 300002019 | | |
| 38. | Measurement Receiver | Rohde & Schwarz | ESH 2 | 871921/095 | 300002505 | | |
| 39. | Multi-meter (Hand) | Siemens | Multizet | | 300001102 | | |
| 40. | Multi-meter (Hand) | Goerz | 6EP | | 300001116 | | |
| 41. | Multi-meter (Hand) | MetraWatt | MA4S | | 300001740 | | |
| 42. | Multi-meter digital | Rohde & Schwarz | UDS 5 | 872677/042 | 300001325 | | |
| 43. | Power supply | Hewlett-Packard | 6038A | 3122A11097 | 300001204 | | |
| 44. | Power supply | Hewlett-Packard | 6038A | 2848A07027 | 300001174 | | |
| 45. | Power supply | Zentro | 2X30V | 2007 | 300001109 | | |
| 46. | Power supply | Hewlett-Packard | 6038A | 2752A04866 | 300001161 | | |
| 47. | Power supply | Heiden | 1108-32 | 1701 | 300001392 | | |
| 48. | Power supply | Heiden | 1108-32 | 1802 | 300001383 | | |
| 49. | Power supply | Heiden | 1108-32 | 3202 | 300001187 | | |

| No. | Instrument/ Ancillary | Manufacturer | Type | Serial-No. | Internal ID No. | | |
|---|---|---|---|---|---|---|---|
| 50. | Power supply | Zentro | LA 2x30/5GB2 | 2012 | 300001275 | | |
| 51. | Power supply | Systron | M5P 40/15A | 828233 | 300001291 | | |
| 52. | V-network AC | Rohde & Schwarz | ESH3-Z5 | 828576/020 | 300001210 | | |
| 53. | Oscilloscope | Hewlett-Packard | 54502A | 2934A01917 | 300001374 | | |
| 54. | Power meter | Hewlett-Packard | 436A | 2101A12378 | 300001136 | | |
| 55. | Power meter | Hewlett-Packard | 436A | 2031U01461 | 300001105 | | |
| 56. | Precision – frequency – reference | Hewlett-Packard | 70310A | 2736A00707 | 300002018 | | |
| 57. | Radio communication analyzer | Rohde & Schwarz | CMTA 54 | 894043/010 | 300001175 | | |
| 58. | Radio communication analyzer | Rohde & Schwarz | CMTA 84 | 894199/012 | 300001176 | | |
| 59. | Radio communication analyzer | Rohde & Schwarz | CMTA 84 | 894581/013 | 300001355 | | |
| 60. | Signal generator | Hewlett-Packard | 8111A | 2215G00867 | 300001117 | | |
| 61. | Signal generator | Rohde & Schwarz | SMPC | 882416/019 | 300001162 | | |
| 62. | Function signal generator | Rohde & Schwarz | AFGU | 862490/032 | 300001201 | | |
| 63. | Function signal generator | Rohde & Schwarz | APN-04 | 894326/014 | 300001184 | | |
| 64. | Signal generator 0.01-1280 MHz | Hewlett-Packard | 8662A | 2224A01012 | 300001110 | | |
| 65. | Signal generator 0.01-1280 MHz | Hewlett-Packard | 8662A | 2232A01038 | 300001264 | | |
| 66. | Signal generator 0.1-2000 MHz | Rohde & Schwarz | SMH | 864219/033 | 300001410 | | |
| 67. | Signal generator 0.1-2000 MHz | Rohde & Schwarz | SMH | 883909/010 | 300001183 | | |
| 68. | Signal generator 0.1-2060 MHz | Hewlett-Packard | 8657A | 2838U00736 | 300001009 | | |
| 69. | Signal generator 0.1-4200 MHz | Hewlett-Packard | 8665A | 2833A00109 | 300001177 | | |
| 70. | Signal generator 0.1-4200 MHz | Hewlett-Packard | 8665A | 2833A00112 | 300001373 | | |
| 71. | Signal generator 0.1-4320 MHz | Rohde & Schwarz | SMHU | 2790575 | 300001404 | | |
| 72. | Signal generator 0.1-4320 MHz | Rohde & Schwarz | SMHU | 894055/005 | 300001190 | | |
| 73. | Signal generator DC-600 KHz | Hewlett-Packard | 8904A | 2822A01213 | 300001157 | | |
| 74. | Signal generator DC-600 KHz | Hewlett-Packard | 8904A | 2822A01214 | 300001158 | | |
| 75. | Signal generator DC-600 KHz | Hewlett-Packard | 8904A | 2822A01203 | 300001367 | | |
| 76. | Function signal generator | Rohde & Schwarz | APN 04 | 2273637 | 300001395 | | |
| 77. | Signal generator NF | Rohde & Schwarz | SPN | 880139/068 | 300001142 | | |
| 78. | Spectrum Analyzer | Rohde & Schwarz | FSiQ26 | 835111/0004 | 300002678 | | |
| 79. | Spectrum analyzer | Hewlett-Packard | 71210A (70000) | 2731A02347 | 300000321 | | |
| 80. | Spectrum analyzer | Rohde & Schwarz | FSMS | 826067/004 | 300001223 | | |
| 81. | Spectrum analyzer 2 | Hewlett-Packard | 85660B | 3138A07614 | 300001207 | | |
| 82. | Spectrum analyzer 3 | Hewlett-Packard | 8566A | 1925A00257 | 300001098 | | |
| 83. | Spectrum analyzer Display | Hewlett-Packard | 70206A | 2840A01553 | 300002017 | | |
| 84. | Spectrum analyzer Display 2 | Hewlett-Packard | 85662A | 3144A20627 | 300001208 | | |
| 85. | Spectrum analyzer Display 3 | Hewlett-Packard | 85662 | 1925A00860 | 300002306 | | |
| 86. | Isolating transformer | Erfi | 913501 | | 300001205 | | |
| 87. | Isolating transformer | Erfi | MPL | 91350 | 300001155 | | |
| 88. | Isolating transformer | Erfi | MPL | 91350 | 300001151 | | |
| 89. | Isolating transformer | Erfi | 6210 | | 300001179 | | |
| 90. | Isolating transformer | Grundig | RT5A | 8781 | 300001277 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 91. | Isolating transformer | Grundig | RT5A | 9242 | 300001263 | | |
| 92. | Amplifier | Hewlett-Packard | 8447D | 2648A04780 | 300001360 | | |
| 93. | Amplifier | EMV | 10W1000 | 9549 | 300001377 | | |

| No. | Instrument/ Ancillary | Manufacturer | Type | Serial-No. | Internal ID No. | | |
|---|---|---|---|---|---|---|---|
| 94. | Amplifier | EMV | 25W1000 | 12948 | 300001440 | | |
| 95. | Amplifier 5W | Amplifier Research | 5W1000 | 9725 | 300001592 | | |
| | | | | | | | |
| | **Laboratory Bluetooth** | | | | | | |
| 96. | Power splitter | Inmet Corp. | 1499382 | | 300002841 | | |
| 97. | Power sensor | Rohde & Schwarz | NRV-Z1 | 833894/011 | 300002681-0010 | | |
| 98. | Signal generator | Rohde & Schwarz | SMIQ03 | 836206/0092 | 300002680 | | |
| 99. | Bluetooth RF-test system | Rohde & Schwarz | TS8960 | | 300002681-0000 | | |
| 100. | Signal generator | Rohde & Schwarz | SMIQ03 | 835541/055 | 300002681-0001 | | |
| 101. | Signal generator | Rohde & Schwarz | SMIQ03 | 835541/056 | 300002681-0002 | | |
| 102. | Signal generator | Rohde & Schwarz | SMP02 | 835133/011 | 300002681-0003 | | |
| 103. | Power meter | Rohde & Schwarz | NRVD | 835430/044 | 300002681-0004 | | |
| 104. | Spectrum - analyzer | Rohde & Schwarz | FSIQ | 835540/018 | 300002681-0005 | | |
| 105. | Switch unit | Rohde & Schwarz | SSCU | | 300002681-0006 | | |
| 106. | Attenuator-step | Rohde & Schwarz | RSP | 834500/010 | 300002681-0007 | | |
| 107. | Frequency normal | Rohde & Schwarz | Rubidium | | 300002681-0009 | | |
| 108. | Power sensor | Rohde & Schwarz | NRV-Z1 | 833894/012 | 300002681-0013 | | |
| | | | | | | | |
| | **Conducted emission on AC line Room 006** | | | | | | |
| 109. | Measurement receiver | Rohde & Schwarz | ESH3 | 881515/002 | 300002490 | | |
| 110. | Measurement receiver | Rohde & Schwarz | ESVP | 881487/021 | 300002491 | | |
| 111. | Measurement receiver | Rohde & Schwarz | ESH3 | 890174/002 | 300000296 | | |
| 112. | V-network AC | Rohde & Schwarz | ESH3 Z5 | 892475/017 | 300002209 | | |
| 113. | V-network AC | Rohde & Schwarz | ESH3-Z5 | 892239/020 | 300002506 | | |
| 114. | Software | Rohde & Schwarz | ESK-1 | | | | |
| 115. | DC power supply | Hewlett-Packard | 6032A | 2743A02600 | 300001498 | | |
| 116. | V-network AC | Rohde & Schwarz | ESH3-Z5 | 861189/014 | 300001458 | | |
| 117. | V-network DC | Rohde & Schwarz | ESH3-Z6 | 893689/012 | 300001504 | | |
| 118. | V-network DC | Rohde & Schwarz | ESH3-Z6 | 861406/005 | 300001518 | | |
| 119. | | | | | | | |
| 120. | | | | | | | |
| 121. | | | | | | | |
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| 123. | | | | | | | |
| 124. | | | | | | | |
| 125. | | | | | | | |
| 126. | | | | | | | |
| 127. | | | | | | | |
| 128. | | | | | | | |
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| 131. | | | | | | | |
| 132. | | | | | | | |
| 133. | | | | | | | |
| 134. | | | | | | | |

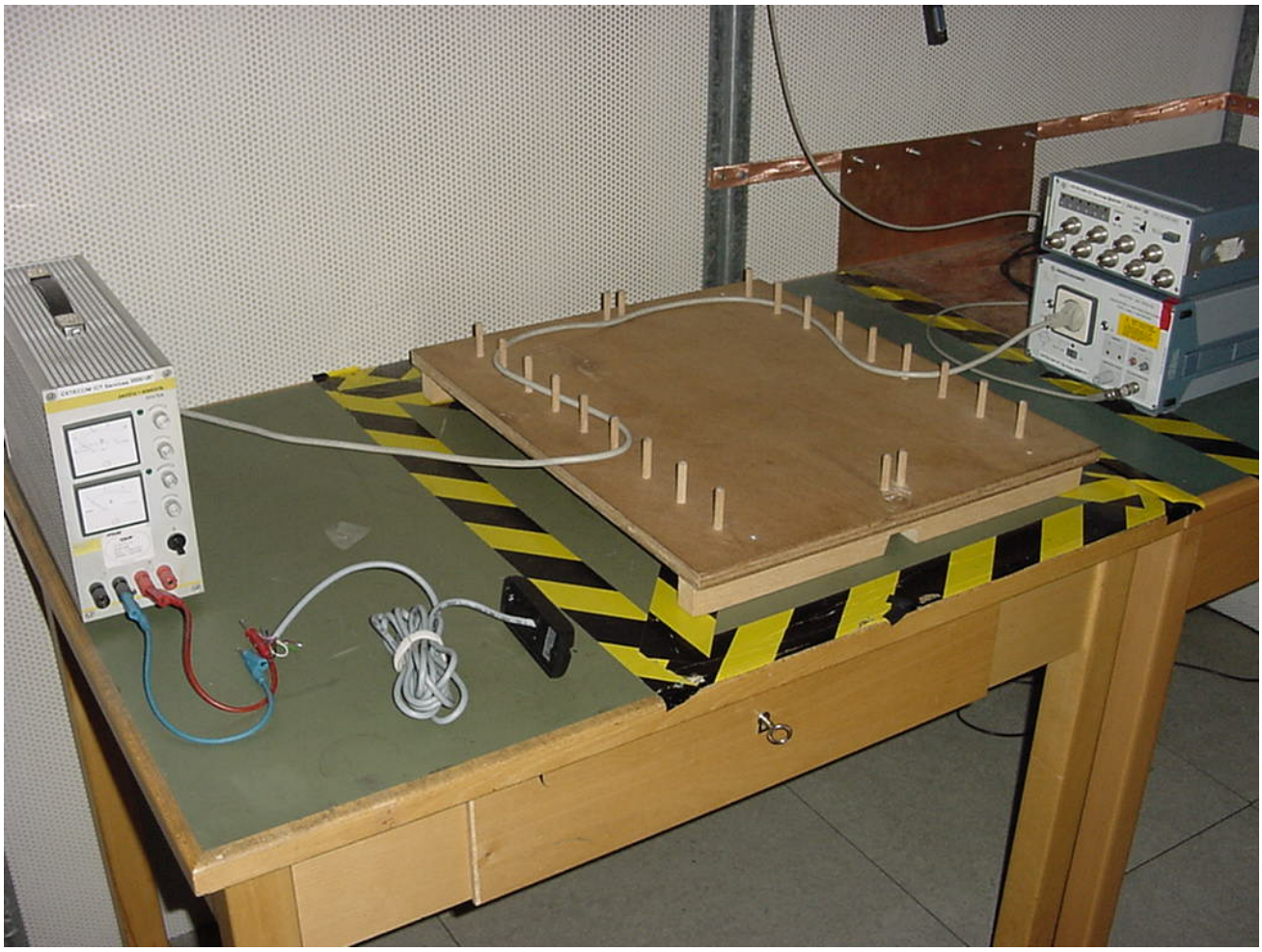
# 6 Annex B: Photographs of Test site

Photo 1 (Radiated Emissions):

Photo 2 (Radiated Emissions):

Photo 3 (Conducted Emissions):

for this measurement we used a power supply from our house, as there is no dedicated power supply.



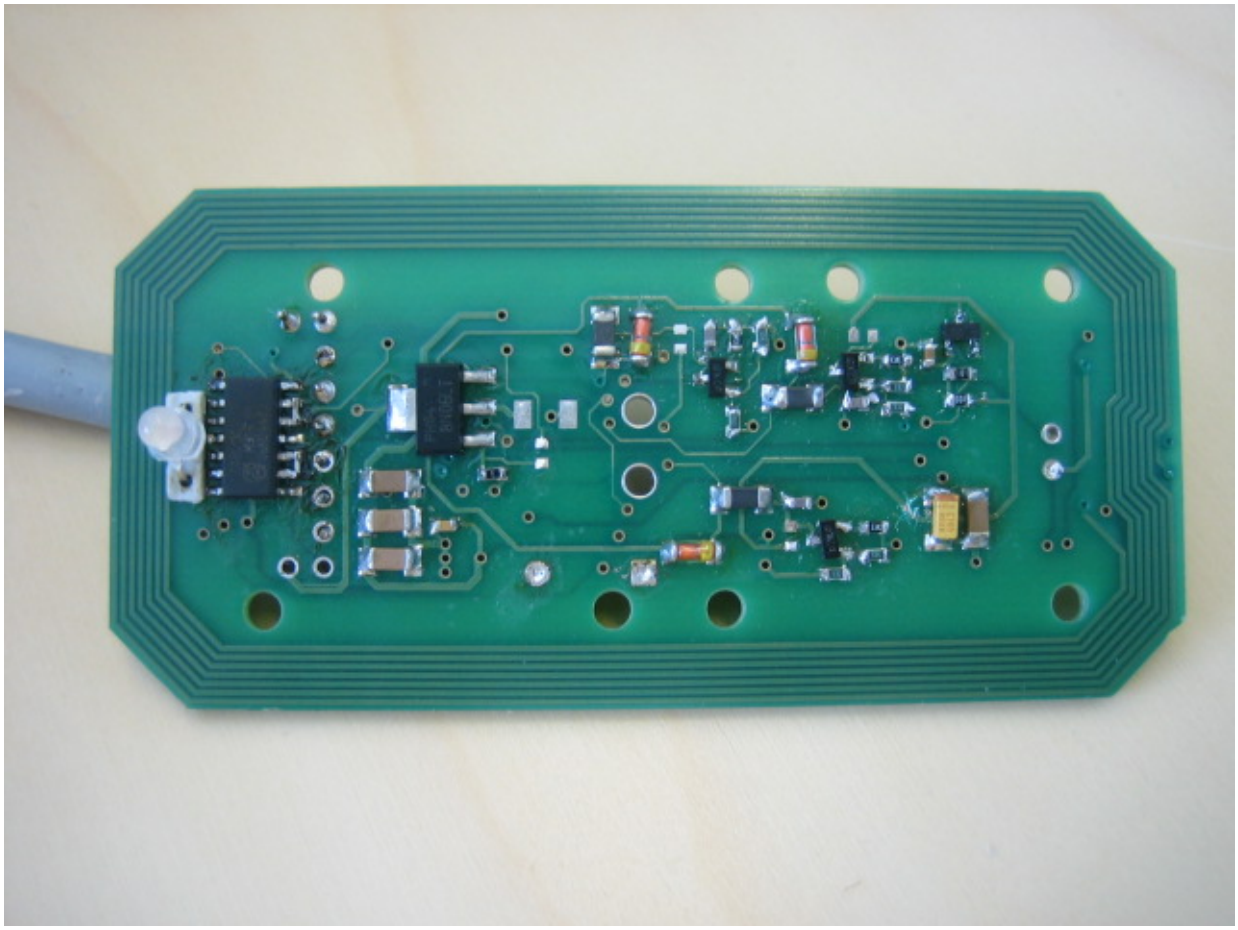
# 7 Annex C: External Photographs of the Equipment

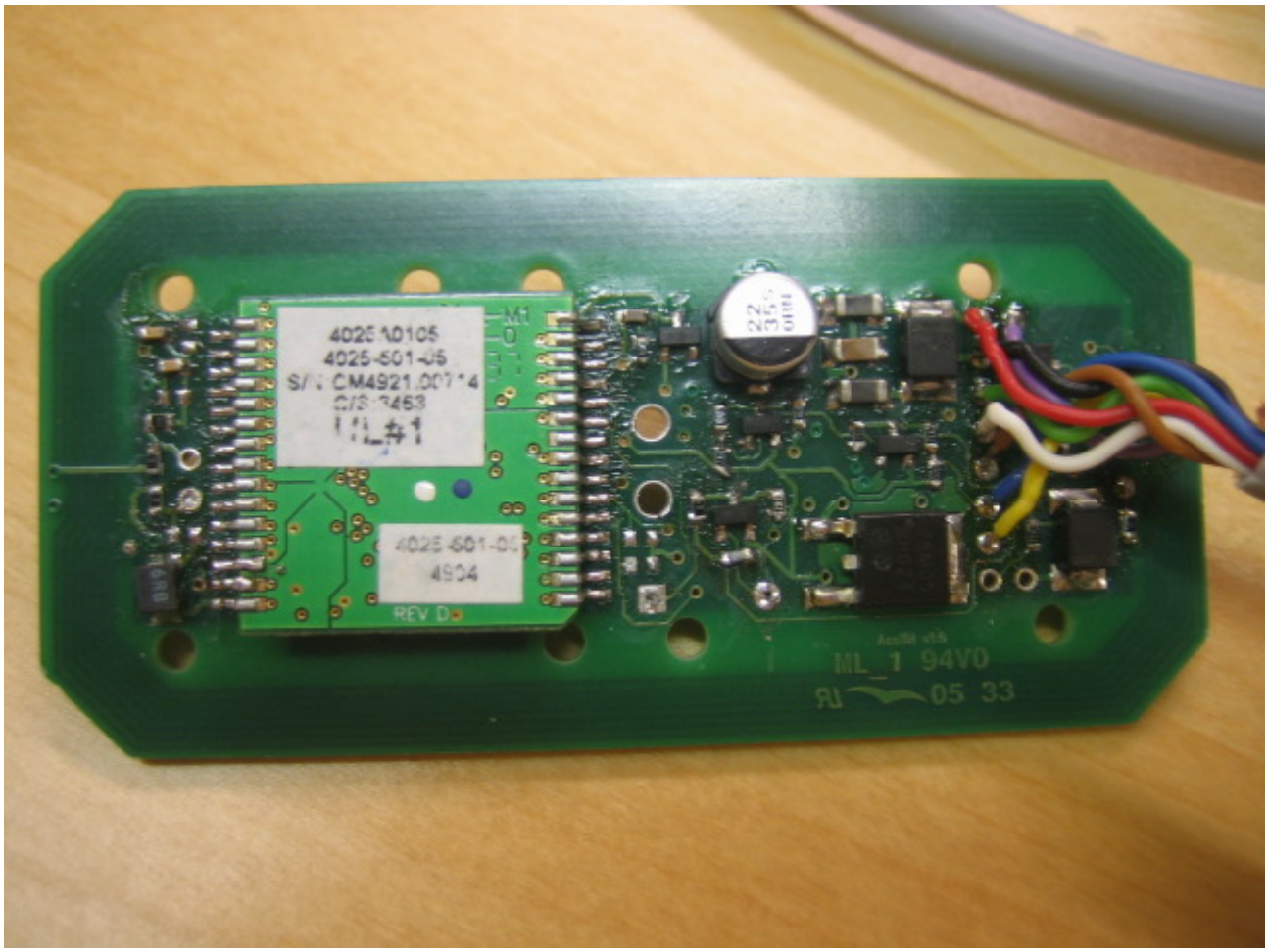
Photo 1:

Photo 2:


IDESCO
TYPE: ACCESS 8 AH
SERIAL NR:012341
Idesco Oy - Teknologiantie 9
90570 Oulu - Finland
CE

# 8 Annex D: INTERNAL PHOTOGRAPHS OF THE EQUIPMENT




4025-501-05
4924
REV D
ML 1 94V0
05 33