



TEST REPORT

Test Report No.: 1-2530-01-02/10



Testing Laboratory

CETECOM ICT Services GmbH

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Accredited Test Laboratory:

The test laboratory (area of testing) is accredited

according to DIN EN ISO/IEC 17025

DAR registration number: DGA-PL-176/94-D1

Area of Testing: Radio Satellite Communications

Applicant

AMEDTEC Medizintechnik Aue GmbH

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08280 Aue/GERMANY
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e-mai: kfp@amedtec.de
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Manufacturer

AMEDTEC Medizintechnik Aue GmbH

Schneeberger Straße 5 08280 Aue/GERMANY

Test Standard/s

47 CFR Part 15 Title 47 of the Code of Federal Regulations; Chapter I-Federal Communications

Commission

subchapter A - general, Part 15-Radio frequency devices

RSS - 210 Issue 7 Spectrum Management and Telecommunications - Radio Standards Specification

Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands):

Category I Equipment

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

Test Item

Kind of test item: Electrocardiograph (ECG)

Model name: CareCenter MD BT (Transmitter)

CareCenter MD Stress QRS Sync (Receiver)

FCC ID: X8X-CCMD-BT

Frequency [MHz]: 915 MHz

Power supply: 3.0 V DC via 2x 1.5 V DC Mignon AA (Transmitter) or

2.4 V DC via 2 x 1.5 V DC NiMH Accu (Receiver)

5.0 V DC USB

Temperature range: -20 °C to +55 °C



Test performed:

Test Report authorised:

2010-08-05 Daniel Muyunga 2010-08-05 Jakob Reschke

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2 General Information

2.1 Notes

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 generalisations 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 CETECOM ICT Services GmbH.

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

2.2 Application details

Date of receipt of order: 2010-08-02
Date of receipt of test item: 2010-08-02
Start of test: 2010-08-02
End of test: 2010-08-04

Person(s) present during the test: Karl-Friedrich Pfefferkorn

AMEDTEC Medizintechnik Aue GmbH

3 Test standard/s

Test Standard	Version	Test Standard Description
47 CFR Part 15	2009-10	Title 47 of the Code of Federal Regulations; Chapter I-Federal Communications Commission subchapter A - general, Part 15-Radio frequency devices
RSS - 210 Issue 7	2007-06	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

4 Test Environment

Temperature: 23 [™]C during room temperature tests $\mathsf{T}_{\mathsf{nom}}$ +55 °C during high temperature test T_{max} T_{min} -20 °C during low temperature test Relative humidity content: 43 % not relevant for this kind of testing Air pressure: Transmitter 3.0 V DC and Power supply: V_{nom} 5.0 V DC Receiver V_{max} -/-V $V_{\text{min}} \\$ -/-٧

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5	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 7, Annex 2.6	Passed	2010-08-05	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Results (max.)
§ 15.35 (c)/ RSS-GEN Issue 2 Section 4.5	Timing of the transmitter (Duty cycle correction factor)	Nominal	Nominal	\boxtimes				complies
§ 15.225 (a)/ RSS-210 Issue 7 Annex 2.6	Fieldstrength of Fundamental	Nominal	Nominal	\boxtimes				complies
§ 15.209/ RSS-210 Issue 7 Annex 2.6	Fieldstrength of harmonics and spurious	Nominal	Nominal					complies
§ 15.109/ RSS-210 Issue 7	Receiver spurious emissions (radiated)	Nominal	Nominal					complies
§ 15.107 / 15.207/ Section RSS 210 Issue 7 Section 6.6 , 7.4	AC Line Conducted	Nominal	Nominal					

Note: NA = Not Applicable; NP = Not Performed

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6 RF measurement testing

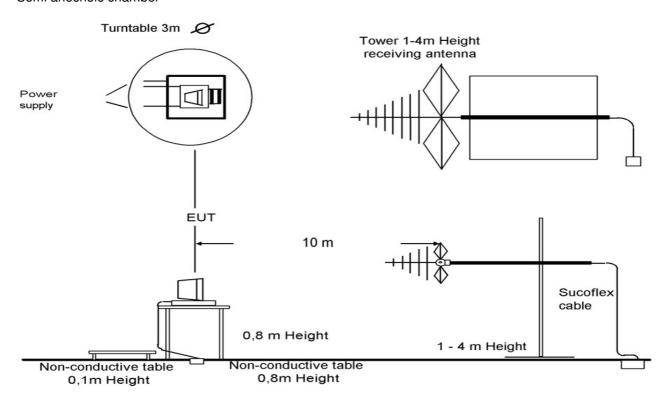
6.1 Description of test setup

6.1.1 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 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 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 C63-4-2003 clause 4.2.

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 is performed from outside the chamber with a signalling unit (CMU200 or other) by air link using signalling antenna.

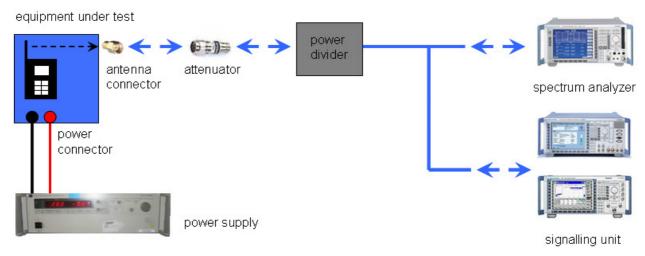
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6.1.2 Conducted measurements

Not Performed

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). One of the signal paths is connected to the communication base Station (CMU200 or other), the other one is connected to the spectrum analyzer. The specific losses for both signal paths are first checked within a calibration. The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signalling unit and the spectrum analyzer are impedance matched on 50 Ohm.



Picture 2: Diagram conducted measurements

6.2 Additional comments

Some modifications were mace on the EUT for passing the compliance test. A small filter circuit was additionally soldered to antenna output.

Reference documents: Test report: 1369-09-EE-10ePB002

Special test descriptions: None

Configuration descriptions: Some modifications were mace on the EUT for passing the compliance test. A small filter circuit was additionally soldered to antenna output.

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6.3 Test Item

Kind of test item	:	Electrocardiograph (ECG)
Type identification	:	CareCenter MD BT
		CareCenter MD Stress QRS Sync (Receiver)
S/N serial number	:	Transmitter: A1004300108, A0908300021, A1007300210
		Receiver: 27006
HW hardware status	:	Not specified
SW software status	:	Not specified
Frequency Band [MHz]	:	702 MHz to 928 MHz (915 MHz)
Type of Modulation	:	FSK
Number of channels	:	1
Antenna	:	Internal rod antenna (Transmitter and Receiver)
Power Supply	:	3.0 V DC via 2x 1.5 V DC Mignon AA (Transmitter) or 2.4 V DC via 2 x 1.5 V DC NiMH Accu (Transmitter)
		5.0 V DC via USB (Receiver)
Temperature Range	:	-20 ℃ to +55 ℃

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6.4 RSP100 Test Report Cover Sheet / Performance Test Data

Test Report Number :	1-2530-01-02/10
Equipment Model Number :	CareCenter MD BT CareCenter MD BT (Transmitter) CareCenter MD Stress QRS Sync (Receiver)
Certification Number :	
Manufacturer (complete Address) :	AMEDTEC Medizintechnik Aue GmbH Schneeberger Straße 5 08280 Aue / GERMANY
Tested to radio standards specification no. :	RSS 210, Issue 7, Annex 8
Open Area Test Site IC No. :	IC 3462C-1
Frequency Range or fixed frequency :	702 MHz to 928 MHz (915 MHz)
Field Strength [dBμV/m] (at which distance):	91.9 dBμV/m at 3 m distance
Occupied bandwidth (99%-BW) [kHz] :	85.17 kHz
Type of modulation :	FSK
Emission Designator (TRC-43) :	85K17F1D
Antenna Information :	Internal rod antenna (Transmitter and Receiver)
Transmitter Spurious (worst case) [μV/m @ 3m] :	323.96 μV/m @ 5x915 MHz
Receiver Spurious (worst case) [μV/m @ 3m] :	316.22 μV/m (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:

2010-08-05	Daniel Muyunga		
Date	Name	Signature	

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7 Measurement Results

7.1 Timing of the transmitter

Measurement:

Limits:

FCC	IC		
CFR Part SUBCLAUSE § 15.35 (c)	RSS-GEN Issue 2 Section 4.5		
Timing of the transmitter			

Timing of the transmitter

(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.

Result: The result of the measurement is not applicable.

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7.2 Field Strength of the Fundamental

Measurement:

Measurement parameter			
Detector:	Quai Peak		
Sweep time:	Auto		
Resolution bandwidth:	200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz		
Video bandwidth:	≥ RBW		
Span:	Wide enough to capture all signal		
Trace-Mode:	Max Hold		

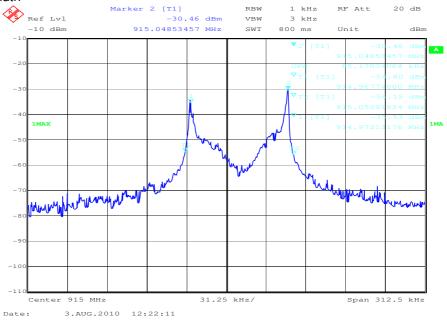
Limits:

Ellilli(3.		
FC	IC	
CFR Part SUBCLA	RSS-210 Issue 7 Section	
	A1.1.2 / 2.7 Table 4	
Fundamental Frequency (MHz)	Field strength of Fundamental (mV/m)	Field strength of Fundamental (μV/m)
902-928	50 (94 dBμV/m)	500 (54 dBμV/m)
2400-2483.5	50 (94 dBμV/m)	500 (54 dBμV/m)
5725-5875	50 (94 dBμV/m)	500 (54 dBμV/m)
24.0-24.25 GHz	250 (108 dBμV/m)	2500 (68 dBμV/m)

Result:

TEST C	ONDITIONS	MAXIMUM POWER (dBμV/m)	
Fre	quency	915 MHz	
N	Mode	FSK modulated	
T _{nom} = 23 °C V _{nom} = 4 V DC		91.9 dBμV/m at 3 m distance	
Measurem	ent uncertainty	±3dB	

Plot 1: Occupied bandwidth



Result: The result of the measurement is passed.

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7.3 Field Strength of the Harmonics and Spurious

Measurement:

Measurement parameter						
Detector: Average / Quasi Peak						
Sweep time:	Auto					
Resolution bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1MHz					
Video bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1MHz					
Span:	9 kHz to 12.75 GHz					
Trace-Mode:	Max hold					

Limits:

FCC		IC		
SUBCLAUSE § 15	.209			
Fie	eld strength of the ha	rmonics and spu	ırious.	
Frequency (MHz)	Frequency (MHz) Field streng		Measurement distance (m)	
0.0009 - 0.490	2400/F	(kHz)	300	
0.490 - 1.705	24000/F	(kHz)	30	
1.705 – 30	30 (29.5 c	BμV/m)	30	
30 – 88	100 (40 d	100 (40 dBμv/m)		
88 – 216	150 (43.5	dBμV/m)	3	
216 – 960	200 (46 d	BμV/m)	3	

Result:

Frequency (MHz)	(dBμV/m)	Detector (dB)
35.119	9.4	QuasiPeak
50.590	8.7	QuasiPeak
494.558	14.5	QuasiPeak
733.461	20.3	QuasiPeak
952.387	22.5	QuasiPeak
1600	44.59	Peak
1830	45.07	Peak
4575	50.21	Peak

Result: The result of the measurement is passed.

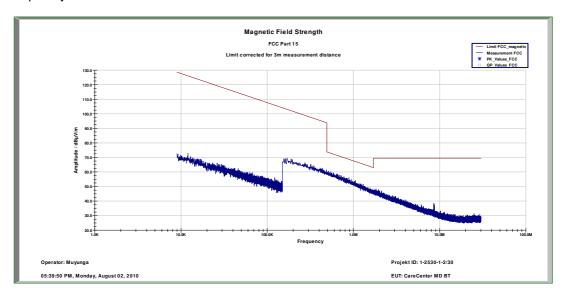
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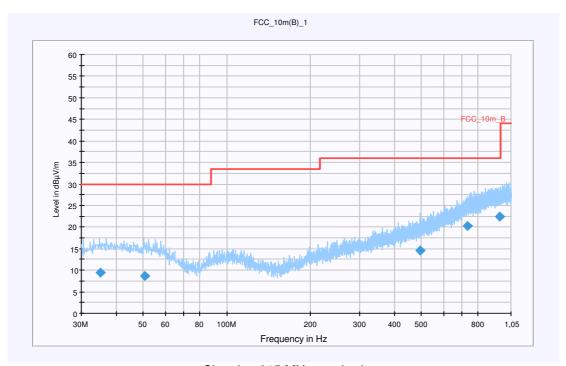
Plots of the measurements

Plot 2: 9 kHz – 30 MHz; Part 15.209 Magnetics, Measurement distance 3m

Transmit frequency 915 MHz



Plot 3: 30 MHz – 1000 MHz Transmit frequency 915 MHz

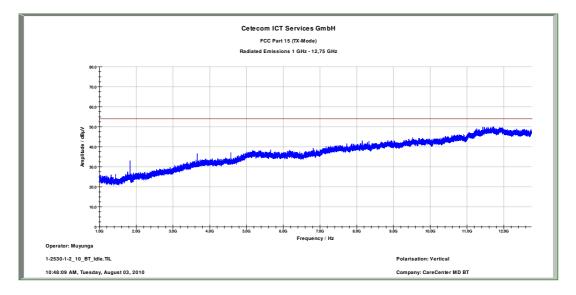


Signal at 915 MHz notched

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Plot 4: 1 GHz – 12.75 GHz Transmit frequency 915 MHz



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7.4 RX Spurious Emissions Radiated

Description:

Measurement of the radiated spurious emissions in idle/receive mode. The results are valid for both modes.

Measurement:

Measurement parameter						
Detector: Peak / Quasi Peak						
Sweep time:	Auto					
Video bandwidth:	Sweep: 100 kHz Remeasurement: 10 Hz					
Resolution bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz					
Span:	30 MHz to 25 GHz					
Trace-Mode:	Max Hold					

Limits:

FCC		IC				
CFR Part 15.109		RSS Gen, Issue 2, 4.10				
	RX Spurious Emissions Radiated					
Frequency (MHz)	Field Strength (dBμV/m)		Measurement distance			
30 - 88	30.0		10			
88 – 216	33.5		10			
216 – 960	36.0		10			
Above 960	54	1.0	3			

Result: Also see plots

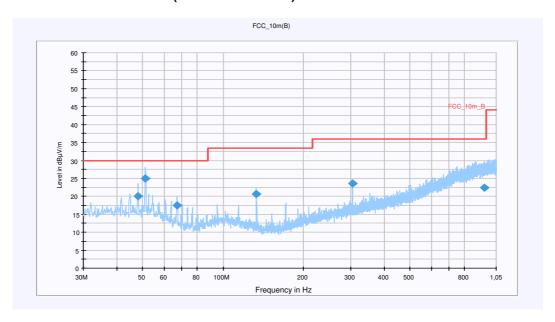
Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
47.962800	20.1	15000.000	120.000	113.0	٧	16.0	13.3	9.9	30.0
51.153000	25.0	15000.000	120.000	200.0	٧	326.0	13.3	5.0	30.0
67.116900	17.5	15000.000	120.000	214.0	V	53.0	9.9	12.5	30.0
133.28445	20.7	15000.000	120.000	114.0	٧	239.0	9.2	12.8	33.5
304.68810	23.6	15000.000	120.000	258.0	Н	13.0	14.7	12.4	36.0
952.01985	22.4	15000.000	120.000	200.0	V	70.0	25.4	13.6	36.0

Result: The result of the measurement is passed.

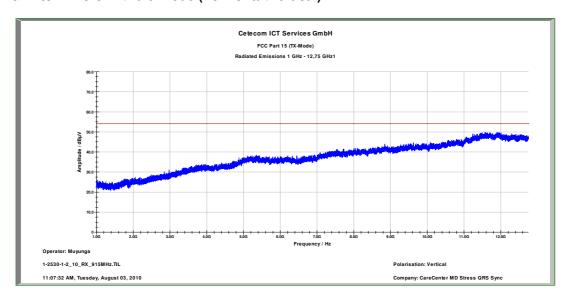
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Plot 1: 30 MHz to 1 GHz / Idle-mode (horizontal/vertical)



Plot 2: 1 GHz to 12.75 GHz / Idle-mode (horizontal/vertical)



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7.5 AC Line Conducted

Measurement:

Limits:

FCC	IC				
SUBCLAUSE § 15.107 / 15.207	RSS-210 Issue 7 Section 6.6, 7.4				
	Conducted Limit (dBμV)				
Frequency of Emission (MHz)	Conducted L	-imit (dBμV)			
Frequency of Emission (MHz)	Conducted L Quasi-peak	Limit (dBμV) Average			
Frequency of Emission (MHz) 0.15 – 0.5					
. ,	Quasi-peak	Average			

Result: The result of the measurement is not applicable.

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8 Test equipment and ancillaries used for tests

In order to simplify the identification of the equipment used at each specific test, each item of test equipment and ancillaries are provided with an identifier or number in the equipment list below.

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).

No.	Labor / Item	Equipment	Туре	Manufact.	Serial No.	INV. No Cetecom	Kal. Art	Last Calibration	Next Calibration
1	n. a.	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2818A03450	300001040	Ve	08.01.2009	08.01.2012
2	n.a.	PowerAttenuator	8325	Byrd	1530	300001595			
3	n. a.	Double-Ridged Waveguide Horn Antenna 1- 18.0GHz	3115	EMCO	8812-3088	300001032	vIKI!	05.03.2009	05.03.2011
4	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	ne		
5	n.a.	Anechoic chamber		MWB	87400/02	300000996			
6	Spec.A. 2_2e	System rack for EMI measurement solution	85900	HP I.V.	*	300000222	ne		
7	9	Artificial Mains 9 kHz to 30 MHz, 4 x 25 Ampere	ESH3-Z5	R&S	828576/020	300001210	Ve	06.01.2010	06.01.2012
8	n.a.	Relais Matrix	3488A	HP Meßtechnik	2719A15013	300001156	ne		
9	n.a.	Relais Matrix	PSU	R&S	890167/024	300001168	ne		
10	n. a.	Isolating Transformer	RT5A	Grundig	9242	300001263	ne		
11	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
12	n. a.	Switch / Control Unit	3488A	HP	2605e08770	300001443	ne		
13	n. a.	Band Reject filter	WRCG1855/1910- 1835/1925- 40/8SS	Wainwright	7	300003350	ev		
14	n. a.	Band Reject filter	WRCG2400/2483- 2375/2505- 50/10SS	Wainwright	11	300003351	ev		
15	n. a.	TILE-Software Emission	Quantum Change, Modell TILE- ICS/FULL	EMCO	none	300003451	ne		
16	n.a.	Highpass Filter	WHKX2.9/18G- 12SS	Wainwright	1	300003492	ev		
17	n.a.	Highpass Filter	WHK1.1/15G- 10SS	Wainwright	3	300003255	ev		
18	n.a.	Highpass Filter	WHKX7.0/18G- 8SS	Wainwright	18	300003789	ne		
19	n. a.	PSA Spectrum Analyzer 3 Hz - 26.5 GHz	E4440A	Agilent Technologies	MY48250080	300003812	k	05.08.2008	05.08.2010
20	n. a.	MXG Microwave Analog Signal Generator	N5183A	Agilent Technologies	MY47420220	300003813	k	06.08.2008	06.08.2010
21	n. a.	RF Filter Section 9kHz - 1GHz	N9039A	Agilent Technologies	MY48260003	300003825	vIKI!	19.08.2008	19.08.2010
22	n. a.	TRILOG Broadband Test- Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	371	300003854	vIKI!	17.12.2008	17.12.2010
24	n. a.	Isolating Transformer	913501	Erfi		300001205	ne		
25	4	Radiocom. Analyzer	CMTA 54	R&S	894043/010	300001175	NK!	06.06.2007	
26	9	Signal Generator 0.1-4320 MHz,	SMHU	R&S	894055/005	300001190	Ve	05.01.2010	05.01.2013

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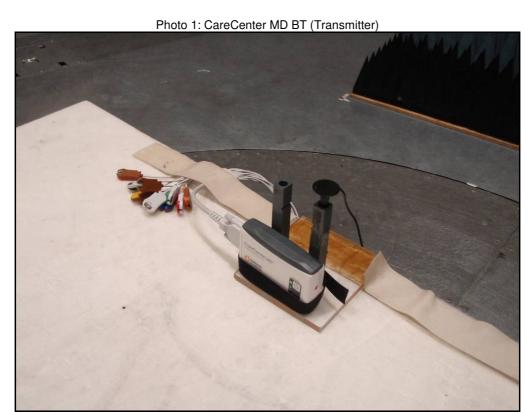
		AM/FM/PHIM/Puls Mod.							
28	n. a.	DC Power Supply 0 – 32V	1108-32	Heiden	001802	300001383	Ve	23.06.2010	23.06.2013
29	n. a.	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04590	300001041	Ve	08.01.2009	08.01.2012
30	n. a.	Temperature Test Chamber	VT 4002	Heraeus Voetsch	521/83761	300002326	Ve	28.05.2009	28.05.2011
31	n. a.	Audio Analyzer 2Hz - 300 kHz	UPD	R&S	841074/009	300001236	k	08.01.2010	08.01.2012
32	n. a.	Signal Analyzer 20Hz-26,5GHz- 150 to + 30 DBM	FSiQ26	R&S	835111/0004	300002678	Ve	06.01.2009	06.01.2011
33	n. a.	Temperature Test Chamber	T-40/50	CTS GmbH	064023	300003540	vlKI!	04.06.2009	04.06.2011
34	45	Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368	g		
35	50	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580	k	06.01.2009	06.01.2011
36	n. a.	software	SPS_PHE 1.4f	Spitzberger & Spieß	B5981; 5D1081;B5979	300000210	ne		
37	n. a.	EMI Test Receiver	ESCI 1166.5950.03	R&S	100083	300003312	k	08.01.2010	08.01.2012
38	n. a.	Analyzer- Reference- System (Harmonics and Flicker)	ARS 16/1	SPS	A3509 07/0 0205	300003314	k	01.06.2009	01.06.2011
39	n. a.	Amplifier	JS42-00502650- 28-5A	MITEQ	1084532	300003379	ev		
40	n. a.	Antenna Tower	Model 2175	ETS- LINDGREN	64762	300003745	izw		
41	n. a.	Positioning Controller	Model 2090	ETS- LINDGREN	64672	300003746	izw		
42	n. a.	Turntable Interface-Box	Model 105637	ETS- LINDGREN	44583	300003747	izw		
43	n. a.	TRILOG Broadband Test- Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787	k	01.04.2010	01.04.2012
44	n. a.	Spectrum- Analyzer	FSU26	R&S	200809	300003874	k	08.01.2010	08.01.2012

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Annex A Photographs of the Test Set-up

Photo documentation





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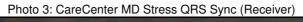
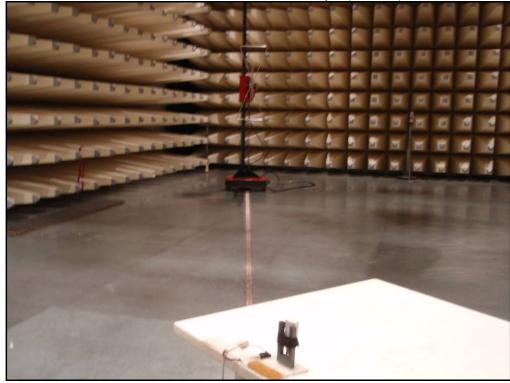




Photo 4: CareCenter MD Stress QRS Sync (Receiver)



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External Photographs of the EUT Annex B

Photo documentation

Photo 5: CareCenter MD BT (Transmitter)







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Annex C Internal Photographs of the EUT

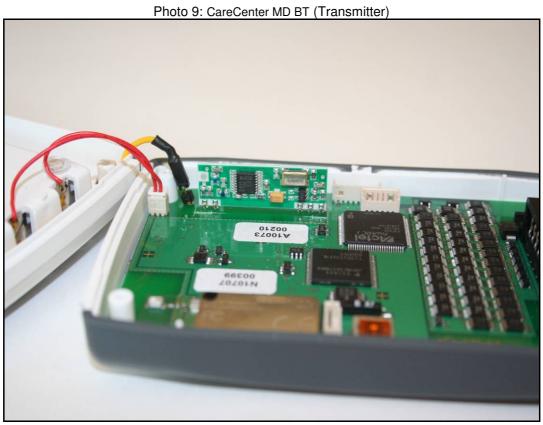
Photo documentation

Photo 8: CareCenter MD BT (Transmitter)

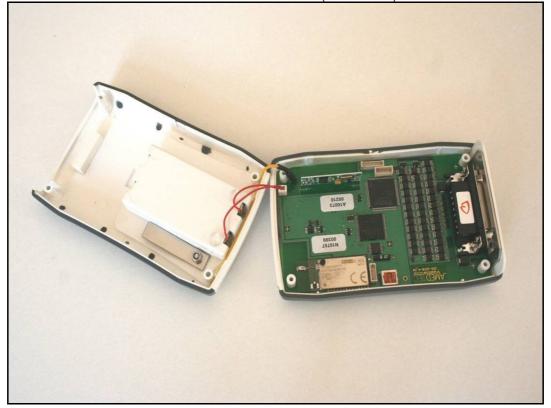


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Photo 11: CareCenter MD BT (Transmitter)

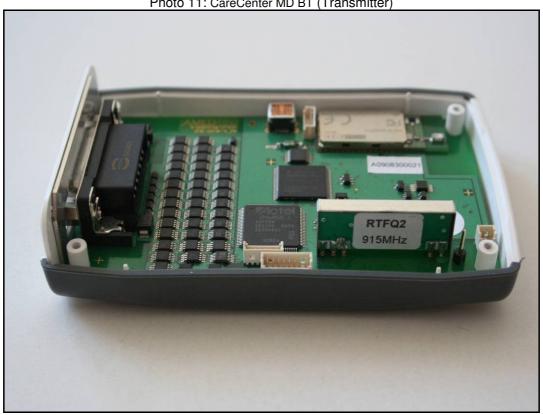
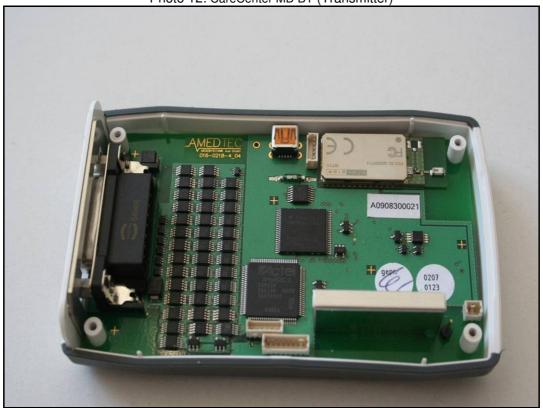


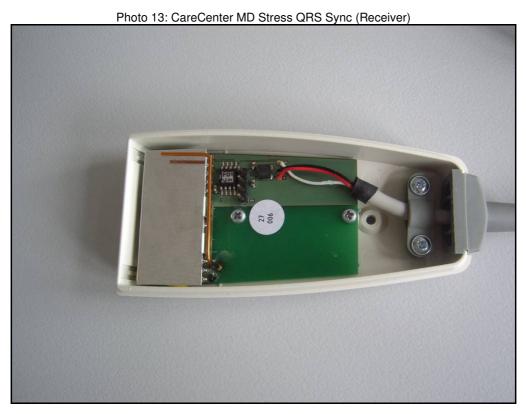
Photo 12: CareCenter MD BT (Transmitter)



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