



TEST REPORT

Test report no.: 1-5412/12-01-05-C



Testing laboratory

CETECOM ICT Services GmbH

Untertuerkheimer Strasse 6 – 10 66117 Saarbruecken / Germany Phone: + 49 681 5 98 - 0 Fax: + 49 681 5 98 - 9075 Internet: http://www.cetecom.com ict@cetecom.com

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

Mobotix AG

Kaiserstr.

67722 Winnweiler / GERMANY Phone: +49 6302 9816-0

Fax:

Contact: Thomas Kern

e-mail: thomas.kern@mobotix.com

Phone: +49 6302-9816-0

Manufacturer

Mobotix AG

Kaiserstr.

67722 Winnweiler / GERMANY

Test standard/s

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

Part 15 - Radio frequency devices

RSS - 210 Issue 8 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: RFID Reader
Model name: Bell-A
FCC ID: YYRBELLA
IC: 9357A-BELLA
Frequency: 13.56 MHz
Technology tested: RFID

Antenna: Integrated loop antenna

Power Supply: 48V DC by external power supply

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:	Test performed:		
	p.o.		
Christoph Schneider	Tobias Wittenmeier		

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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: 2012-11-28
Date of receipt of test item: 2013-02-25
Start of test: 2013-02-25
End of test: 2013-02-28

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

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4 Test environment

T_{nom} +22 °C during room temperature tests

Temperature: 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

V_{nom} 48 V DC by external power supply

Power supply: V_{max} 54 V

 V_{min} 20 V

5 Test item

Kind of test item	:	RFID Reader	
Type identification	:	Bell-A	
S/N serial number	:	Unknown	
HW hardware status	:	Unknown	
SW software status	:	Unknown	
Frequency band [MHz]	:	13.56 MHz	
Type of radio transmission	:	single carrier	
Use of frequency spectrum	:	Single carrier	
Type of modulation	:	ASK	
Number of channels	:	1	
Antenna	:	Integrated loop antenna	
Power supply	:	48 V DC by external power supply	
Temperature range	:	-20°C to +55 °C	

6 Test laboratories sub-contracted

None

7 Additional information

Test setup - and EUT - photos are included in the following test reports:

External EUT photos: 1-5412/12-01-05-C_AnnexA Internal EUT photos: 1-5412/12-01-05-C_AnnexB Test setup: 1-5412/12-01-05-C_AnnexC

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8	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, Annex 2.6	Passed	2013-07-12	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Remark
§ 15.35 (c)/ RSS-GEN Issue 3	Timing of the transmitter (Duty cycle correction factor)	Nominal	Nominal	\boxtimes				complies
RSS-GEN Issue 3	99 % emission bandwidth	Nominal	Nominal					complies
§ 15.225 (a)/								
RSS-210 Issue 8 Annex 2.6	Fieldstrength of Fundamental	Nominal	Nominal					complies
§ 15.209/ RSS-210 Issue 8 Annex 2.6	Fieldstrength of harmonics and spurious	Nominal	Nominal	\boxtimes				complies
§ 15.225 (e)/ RSS-210 Issue 8	Frequency tolerance	Nominal	Extreme					complies
Annex 2.6	Frequency tolerance	Extreme	Nominal	\boxtimes				complies
§15.107	Conducted emissions < 30 MHz (AC-line conducted)	Nominal	Nominal	\boxtimes				complies

Note: NA = Not Applicable; NP = Not Performed

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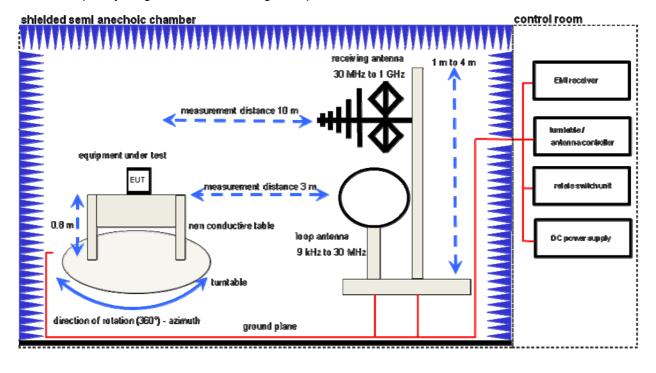


9 RF measurements

9.1 Description of test setup

9.1.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 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. 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.



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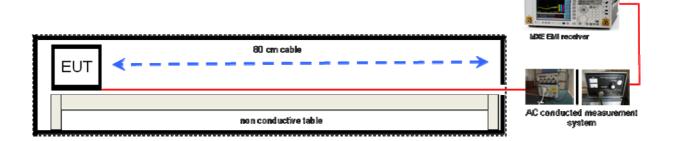
Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368
DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580
EMI Test Receiver	ESCI 3	R&S	100083	300003312
Amplifier	JS42-00502650-28-5A	MITEQ	1084532	300003379
Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745
Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746
Turntable Interface- Box	Model 105637	ETS-LINDGREN	44583	300003747
TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787
Test Receiver	ESH2	R&S	871921/095	300002505
Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824
EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059

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9.2 AC conducted



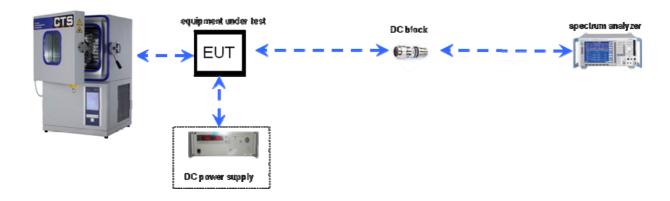
Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologies	MY51210197	300004405
Isolating Transformer	MPL IEC625 Bus Regeltrenntravo	Erfi	91350	300001155
Switch / Control Unit	3488A	HP Meßtechnik	*	300000199
Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001168
Artificial Mains 9 kHz to 30 MHz	ESH3-Z5	R&S	828576/020	300001210

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9.3 Conducted measurements



Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
DC Power Supply 0 – 32V	1108-32	Heiden	001802	300001383
Temperature Test Chamber	T-40/50	CTS GmbH	064023	300003540
Spectrum Analyzer 20 Hz - 50 GHz	FSU50	R&S	200012	300003443

9.4 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: None

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9.5 RSP100 test report cover sheet / performance test data

Test Report Number	:	1-5412/12-01-05-C
Equipment Model Number	:	Bell-A
Certification Number	:	9357A-BELLA
Manufacturer (complete Address)	:	Mobotix AG Kaiserstr. 67722 Winnweiler / GERMANY
Tested to radio standards specification no.	:	RSS 210, Issue 8, A2.6
Open Area Test Site IC No.	:	IC 3462C-1
Frequency Range or fixed frequency	:	13.56 MHz
Field Strength [dBµV/m] (at which distance)	:	58.5 @ 10m
Occupied bandwidth (99%-BW) [MHz]	:	400 kHz
Type of modulation	:	ASK
Emission Designator (TRC-43)	:	400KA1D
Antenna Information	:	Integrated loop antenna
Transmitter Spurious (worst case) [dBµV/m @ 10m]	:	23.3 dBμV/m @ 67.82 MHz Quasi-Peak

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:

2013-07-12	Tobias Wittenmeier	p.o.
Date	Name	Signature

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10 Measurement results

10.1 Timing of the transmitter

Measurement:

Measurement parameter				
Detector:	Positive peak			
Sweep time:	100 ms			
Resolution bandwidth:	100 kHz			
Video bandwidth:	300 kHz			
Span:	Zero span			
Trace-Mode:	Single sweep			

Limits:

FCC	IC					
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.

EUT is transmitting continuously (100% duty cycle).

Result: Passed

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10.2 Field strength of the fundamental

Measurement:

Measurement parameter				
Detector:	Quasi Peak			
Resolution bandwidth:	200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz			
Video bandwidth:	≥ RBW			
Trace-Mode:	Max Hold			

<u>Limits:</u>

FCC			IC		
Fundamental Frequency (MHz)	Field strength of Fundamental (μV/m / dΒμV/m)		Measurement distance (m)		
	15848 μV/m (84 dBµV/m)	30		
13.553 to 13.567	158489 μV/m (104 dΒμV/m)		10 (Recalculated acc. to FCC part15.31 (f2)		

Result:

TEST CO	NDITIONS	MAXIMUM POV	VER (dBμV/m)	
Freq	uency	13.56 MHz	OWER (dBµV/m) 13.56 MHz at 30 m distance *38.5	
Mode		at 10 m distance	at 30 m distance	
T _{nom} = 22°C		58.5 *38.5		
Measureme	nt uncertainty	±30	dB	

^{*} Limits recalculated from 10m to 30m with 40 dB/decade according to FCC 15.31 (f2).

Result: passed

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10.3 99 % emission bandwidth

Measurement:

Measurement parameter				
Detector:	Peak			
Resolution bandwidth:	10 kHz			
Video bandwidth:	≥ RBW			
Trace-Mode:	Max Hold			

Results:

TEST CO	ONDITIONS	99 % emission bandwidth
Fred	luency	13.56 MHz
T _{nom}	V _{nom}	400 kHz
Measureme	nt uncertainty	± RBW

Plot:



Date: 1.MAR.2013 11:34:48

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10.4 Field strength of the harmonics and spurious

Measurement:

Measurement parameter				
Detector:	Quasi Peak / Average			
Sweep time:	Auto			
Resolution bandwidth:	120 kHz			
Video bandwidth:	300 kHz			
Span:	See plots!			
Trace-Mode:	Max hold			

Limits:

FCC	FCC			
Field strength of the harmonics and			urious.	
Frequency (MHz)	Frequency (MHz) Field streng		Measurement distance (m)	
0.009 - 0.490	2400/F	2400/F(kHz))
0.490 – 1.705	24000/F(kHz)		30	
1.705 – 30	30 (29.5 c	30 (29.5 dBμV/m)		
30 – 88	100 (40 dBμV/m)		3	
88 – 216	150 (43.5 dBµV/m)		3	
216 – 960	200 (46 d	BµV/m)	3	

Result:

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

Result: passed

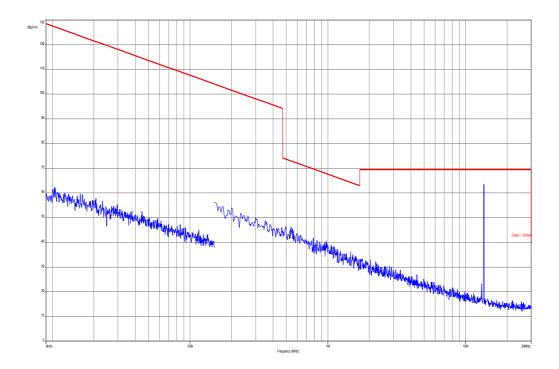
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Plots of the measurements

Plot 1: 9 kHz – 30 MHz; Part 15.209 Magnetics, Measurement distance 3m

Transmit frequency 13.56 MHz



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Plot 2: 30 MHz - 1000 MHz

Transmit frequency 13.56 MHz

CETECOM ICT Services GmbH

Common Information

EUT: Bell Serial Number: unknown

Test Description: FCC part 15 class B @ 10 m

Operating Conditions: cond. TX
Operator Name: Hennemann
Comment: DC: 24 V

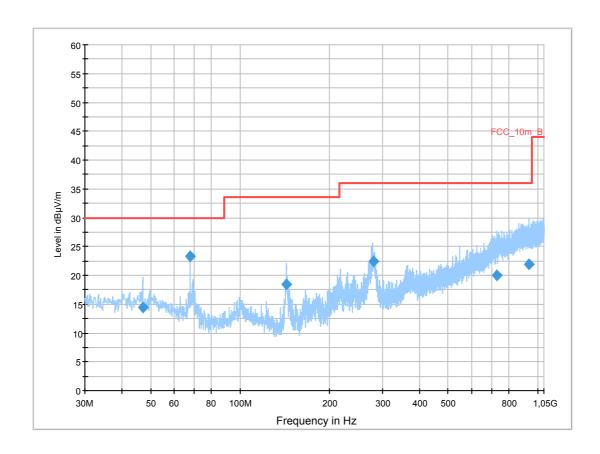
Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)

 $\begin{array}{ll} \text{Receiver:} & \quad \text{[ESCI 3]} \\ \text{Level Unit:} & \quad \text{dB}\mu\text{V/m} \end{array}$

Subrange Step Size Detectors IF BW Meas. Preamp Time

30 MHz - 2 GHz 60 kHz QPK 120 kHz 1 s 20 dB



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Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidt h (kHz)	Height (cm)	Polarizatio n	Azimut h (deg)	Corr. (dB)	Margi n (dB)	Limit (dBµV/m)	Comment
47.014500	14.5	1000.0	120.000	98.0	V	170.0	13.3	15.5	30.0	
67.813650	23.3	1000.0	120.000	170.0	V	272.0	9.8	6.7	30.0	
142.905000	18.5	1000.0	120.000	132.0	V	261.0	8.7	15.0	33.5	
279.726750	22.5	1000.0	120.000	98.0	V	261.0	14.0	13.5	36.0	
729.010500	20.0	1000.0	120.000	170.0	V	190.0	23.2	16.0	36.0	
933.329550	21.9	1000.0	120.000	170.0	V	272.0	25.3	14.1	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]

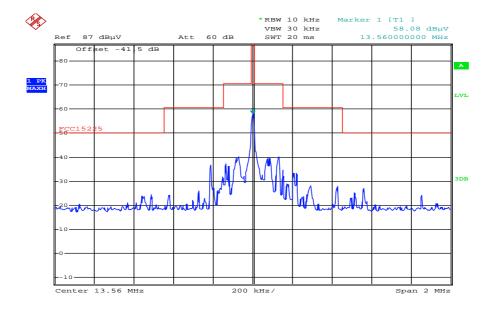
@ GPIB0 (ADR 9), FW REV 3.12

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Plot 3: Spectrum mask part15.225 (a, b, c, d)

Limits recalculated from 30 m to 10 m with 40 dB/decade according to FCC 15.31 (f2)



Date: 1.MAR.2013 11:45:05

The transmitter holds the requirements of FCC 15.225 (a, b, c and d)

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10.5 Frequency tolerance

Measurement:

Measurement parameter				
Detector:	Positive peak			
Sweep time:	Auto			
Resolution bandwidth:	10 Hz			
Video bandwidth:	1 MHz			
Span:	1 kHz			
Trace-Mode:	Clear – write			

Limits:

FCC	IC

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

Result: passed

Frequency tolerance									
Over	temperature v	ariation	Over voltage variation						
Lir	nit is +/- 1.356	kHz	Lin	Limit is +/- 1.356 kHz -/-					
T (°C)]	Frequency	result	Power voltage	Frequency	result	F [MHz]	Detector	Level [µV/m]	
-20°	13.56051	Pass	20 V	13.56046	Pass				
-10°	13.56053	Pass	24 V	13.56046	Pass	-/-			
0°	13.56052	Pass	28 V	13.56046	Pass				
10°	13.56049	Pass	32 V	13.56046	Pass				
20°	13.56046	Pass	36 V	13.56046	Pass				
30°	13.56041	Pass	40 V	13.56046	Pass				
40°	13.56041	Pass	44 V	13.56046	Pass				
50°	13.56040	Pass	48 V	13.56046	Pass				
55°	13.56040	Pass	50 V	13.56046	Pass				
			54 V	13.56046	Pass				
Measurement uncertainty ±10						Hz			

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10.6 Conducted emissions < 30 MHz (AC line conducted)

Measurement:

Measurement parameter						
Detector:	Peak / Quasi peak / Average					
Sweep time:	Auto					
Resolution bandwidth:	F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz					
Video bandwidth:	F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz					
Span:	9 kHz to 30 MHz					
Trace-Mode:	Max hold					

Limits:

FCC	IC				
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			

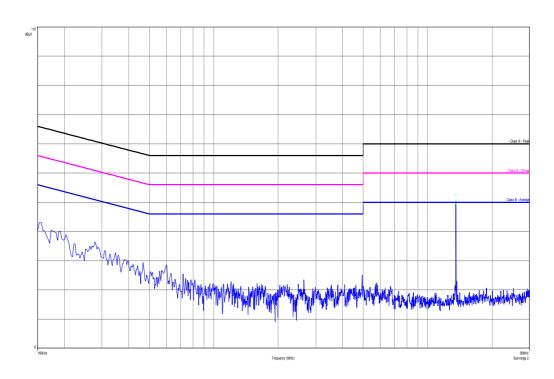
Result: passed

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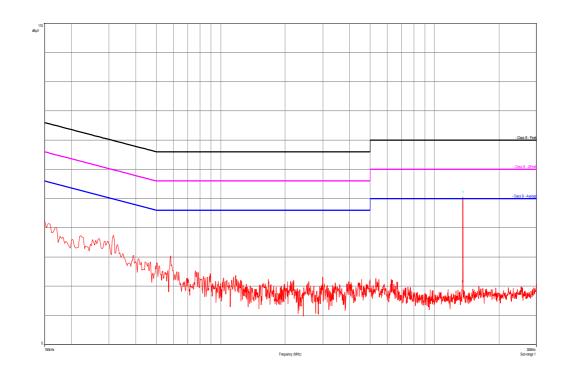


Plots:

Plot 1: phase line



Plot 2: neutral line



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11 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	Туре	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	k	05.06.2013	05.06.2015
2	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev		
3	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	*	300000199	ne		
4	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001156	ne		
5	9	Isolating Transformer	MPL IEC625 Bus Regeltrennt ravo	Erfi	91350	300001155	ne		
6	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
7	n. a.	Amplifier	js42- 00502650- 28-5a	Parzich GMBH	928979	300003143	ne		
8	n. a.	Band Reject filter	WRCG185 5/1910- 1835/1925- 40/8SS	Wainwright	7	300003350	ev		
9	n. a.	Band Reject filter	WRCG240 0/2483- 2375/2505- 50/10SS	Wainwright	11	300003351	ev		
10	n. a.	Highpass Filter	WHKX7.0/1 8G-8SS	Wainwright	18	300003789	ne		
11	n. a.	MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologi es	MY51210197	300004405	k	19.12.2011	25.02.2014
12	n. a.	Power Supply	LA30/5GA	Zentro Elektronik	2046	300000711	NK!		
13	n. a.	Temperature Test Chamber	VT 4002	Heraeus Voetsch	521/83761	300002326	Ve	20.09.2011	20.09.2013
14	n. a.	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	22.08.2012	22.08.2013
15	n. a.	Active Loop Antenna	HFH2-Z2	R&S	335471152	300001824	k	09.03.2012	09.03.2014
16	n. a.	Measuring Receiver	ESH2	R&S	303202052	300002505	k	12.01.2012	12.01.2014

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

vlkl! 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

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12 Observations

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

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Annex A Document history

Version	Applied changes	Date of release
1.0	Initial release	2013-05-22
-A	Editorial changings	2013-06-13
-B	Correction of model name	2013-06-28
-C	Photos extracted in separate Annex files	2013-07-12

Annex B 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

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Annex C Accreditation 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/eu/de/cetecom-group/europa/deutschland-saarbruecken/akkreditierungen.html

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