







TEST REPORT

Test report no.: 1-8637/14-01-10-A



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-12076-01-00

Applicant

Sanitär Services GmbH

Ischlerbahnstrasse 15 5020 Salzburg / AUSTRIA

Phone: -/-

Fax: +43 662 455 171 Contact: Josef Hofer

e-mail: hofer.aquis@gmx.com
+43 664 24 20 818

Manufacturer

Sanitär Services GmbH

Ischlerbahnstrasse 15 5020 Salzburg / AUSTRIA

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):

Radio Communications & EMC

Category I Equipment

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

Test Item

Kind of test item: RF-ID 13.56 MHz
Model name: RFID BOX 1JU
FCC ID: 2ADLV60900138
IC: 12507A-60900138

Frequency: 13.56 MHz
Technology tested: RFID

Technology tested: RFID

Antenna: Loop antenna

Power supply: 5.00 V DC

Radio Communications & EMC

Temperature range: 0°C to +85°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:
Marco Bertolino	Stefan Bös



Table of contents

2 General information 2.1 Notes and disclaimer 2.2 Application details
2.1 Notes and disclaimer 2.2 Application details 3 Test standard/s 4 Test environment 5 Test item 5.1 Additional information 6 Test laboratories sub-contracted 7 Description of the test setup 7.1 Radiated measurements 7.2 Open area site 7.3 AC conducted 8 Summary of measurement results 9 Additional comments 10 Measurement results 10.1 Timing of the transmitter 10.2 Field strength of the fundamental 10.3 99 % emission bandwidth 10.4 Field strength of the harmonics and spurious 10.5 Frequency tolerance 10.6 AC line conducted
2.2 Application details
Test standard/s
4 Test environment
5 Test item
5.1 Additional information 6 Test laboratories sub-contracted 7 Description of the test setup 7.1 Radiated measurements 7.2 Open area site 7.3 AC conducted 8 Summary of measurement results 9 Additional comments 10 Measurement results 10.1 Timing of the transmitter 10.2 Field strength of the fundamental 10.3 99 % emission bandwidth 10.4 Field strength of the harmonics and spurious 10.5 Frequency tolerance 10.6 AC line conducted
6 Test laboratories sub-contracted
7 Description of the test setup
7 Description of the test setup
7.1 Radiated measurements 7.2 Open area site 7.3 AC conducted 8 Summary of measurement results 9 Additional comments 10 Measurement results 10.1 Timing of the transmitter 10.2 Field strength of the fundamental 10.3 99 % emission bandwidth 10.4 Field strength of the harmonics and spurious 10.5 Frequency tolerance 10.6 AC line conducted
7.2 Open area site 7.3 AC conducted 8 Summary of measurement results 9 Additional comments 10 Measurement results 10.1 Timing of the transmitter 10.2 Field strength of the fundamental 10.3 99 % emission bandwidth 10.4 Field strength of the harmonics and spurious 10.5 Frequency tolerance 10.6 AC line conducted
7.3 AC conducted 8 Summary of measurement results
9 Additional comments
10.1 Timing of the transmitter
10.1 Timing of the transmitter
10.1 Timing of the transmitter
10.2 Field strength of the fundamental
10.3 99 % emission bandwidth
10.4 Field strength of the harmonics and spurious
10.5 Frequency tolerance
10.6 AC line conducted
11 Test equipment and ancillaries used for tests
12 Observations
Annex A Document history
Annex B Further information
Annex C. Accreditation Certificate



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.

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.

The testing service provided by CETECOM ICT Services GmbH has been rendered under the current "General Terms and Conditions for CETECOM ICT Services GmbH".

CETECOM ICT Services GmbH will not be liable for any loss or damage resulting from false, inaccurate, inappropriate or incomplete product information provided by the customer.

Under no circumstances does the CETECOM ICT Services GmbH test report include any endorsement or warranty regarding the functionality, quality or performance of any other product or service provided.

Under no circumstances does the CETECOM ICT Services GmbH test report include or imply any product or service warranties from CETECOM ICT Services GmbH, including, without limitation, any implied warranties of merchantability, fitness for purpose, or non-infringement, all of which are expressly disclaimed by CETECOM ICT Services GmbH.

All rights and remedies regarding vendor's products and services for which CETECOM ICT Services GmbH has prepared this test report shall be provided by the party offering such products or services and not by CETECOM ICT Services GmbH.

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: 2014-09-15
Date of receipt of test item: 2014-10-16
Start of test: 2014-11-07
End of test: 2014-11-15

Person(s) present during the test: -/-

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	-/-	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	01.12.2010	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment



4 Test environment

Temperature:

T_{nom} +22 °C during room temperature tests
T_{max} +85 °C during high temperature tests

T_{min} 0 °C during low temperature tests

Relative humidity content: 53 %

Barometric pressure: not relevant for this kind of testing

V_{nom} 5.00 V DC

Power supply: V_{max} 5.25 V

V_{min} 4.75 V

5 Test item

Kind of test item	:	RF-ID 13.56 MHz
Type identification	:	RFID BOX 1JU
S/N serial number	:	-/-
HW hardware status	:	5.0
SW software status	:	5.0
Frequency band [MHz]	:	13.56 MHz
Type of radio transmission	:	Modulated carrier
Use of frequency spectrum	:	Modulated carrier
Type of modulation	:	Air protocol according to ISO 15693 Standard with data transmission speed of 26kbps
Number of channels	:	1
Antenna	:	Loop antenna
Power supply	:	5.00 V DC
Temperature range	:	0°C to +85 °C

5.1 Additional information

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup- and EUT-photos are included in test report:

 External Photos:
 1-8637/14-01-01_AnnexA

 Internal Photos:
 1-8637/14-01-01_AnnexB

 Test setup:
 1-8637/14-01-01_AnnexD

6 Test laboratories sub-contracted

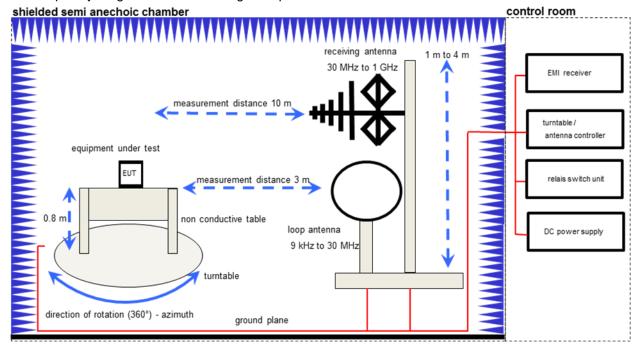
None



7 Description of the test setup

7.1 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.

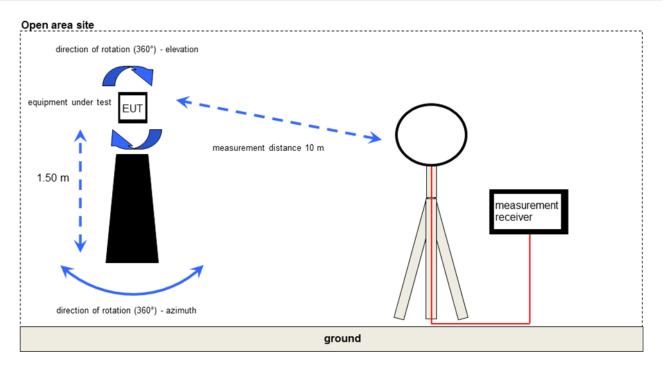


Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
Software	EMC32 V. 9.12.05	R&S	-/-	-/-
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



7.2 Open area site

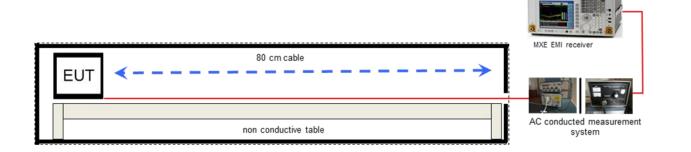


Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
Test Receiver	ESH2	R&S	871921/095	300002505
Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824



7.3 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



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	2015-03-05	-/-

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	\boxtimes				complies
§ 15.225 (a)/ RSS-210 Issue 8 Annex 2.6	Fieldstrength of Fundamental	Nominal	Nominal	\boxtimes				complies
§ 15.209/ RSS-210 Issue 8 Annex 2.6	Fieldstrength of harmonics and spurious	Nominal	Nominal	\boxtimes				complies
§ 15.225 (e)/	Cross constalarons	Nominal	Extreme	\boxtimes				
RSS-210 Issue 8 Annex 2.6	Frequency tolerance	Extreme	Nominal					complies
§15.107 §15.207	Conducted emissions < 30 MHz	Nominal	Nominal	\boxtimes				complies

Note: NA = Not Applicable; NP = Not Performed



9 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: None



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:

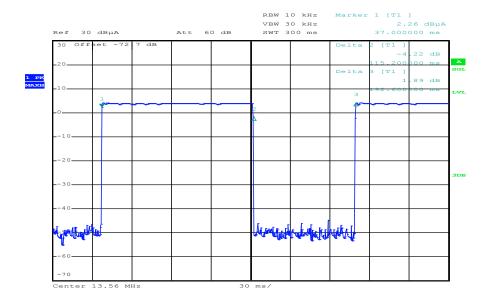
FCC	IC
Timing of the	e transmitter

(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:

Plot 1: Transmit burst



Date: 20.OCT.2014 15:34:57

Transmit time (Tx on) = 115.3 ms (Plot 1) Tx on + Tx off = 192.6 ms (Plot 1)

For TX-time < 100 ms: The peak-to-average correction factor is calculated with 20Log [Tx on/(Tx on + Tx off)]. Hereby the peak-to-average correction factor is.

For TX-time > 100 ms: The peak-to-average correction factor is 0 dB.

Result: passed



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			

Limits:

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

Result:

TEST CO	ONDITIONS	MAXIMUM POV	VER (dBμV/m)	
Free	quency	13.56 MHz 13.56 MHz		
N	Mode		@ 30 m distance	
T _{nom}	V _{nom}	57 37*		
Measurement uncertainty		±30	dB	

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

Result: passed



10.3 99 % emission bandwidth

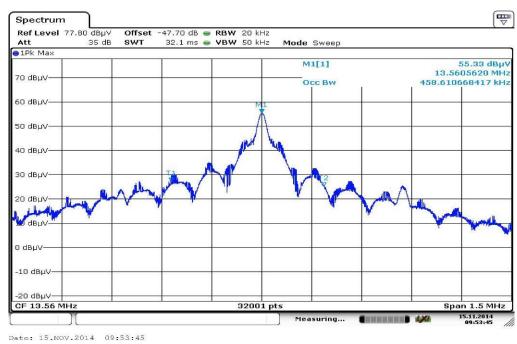
Measurement:

Measurement parameter					
Detector: Peak					
Resolution bandwidth:	> 1 % span				
Video bandwidth:	≥ RBW				
Trace-Mode:	Max Hold				

Results:

TEST CONDITIONS		99 % emission bandwidth (kHz)		
Freq	uency	13.56 MHz		
T _{nom}	V _{nom}	459		
Measureme	nt uncertainty	± RBW		

Plot:





10.4 Field strength of the harmonics and spurious

Measurement:

Measurement parameter				
Detector:	Quasi Peak / Average			
Sweep time:	Auto			
Resolution bandwidth:	F < 150 kHz: 200 Hz 150 kHz > F > 30 MHz: 9 kHz F > 30 MHz: 120 kHz			
Video bandwidth:	F < 150 kHz: 1 kHz 150 kHz > F > 30 MHz: 100 kHz F > 30 MHz: 300 kHz			
Span:	See plots!			
Trace-Mode:	Max hold			

Limits:

FCC		IC		
Fi	Field strength of the ha			
Frequency (MHz)	Frequency (MHz) Field streng		ngth (μV/m) Measurement distance	
0.009 - 0.490	2400/F	(kHz)	300)
0.490 - 1.705	24000/F	(kHz)	30	
1.705 – 30	30 (29.5 c	30 (29.5 dBμV/m)		
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:

	EMISSION LIMITATIONS							
f [MHz]	Detector	Limit max. allowed [dBµV/m]	Amplitude of emission [dBμV/m]	Results				
	Please take a look at the table below the 1 GHz plot.							

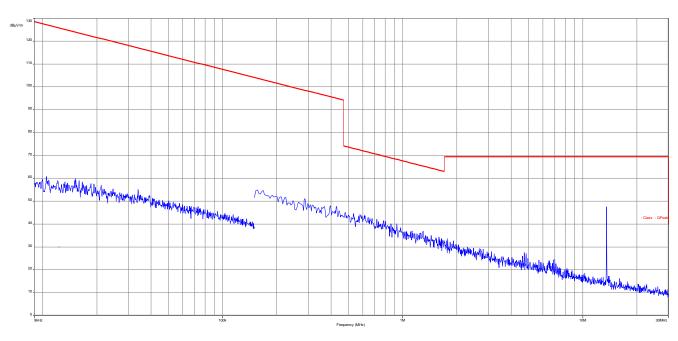
Result: passed

Note: The limit was recalculated with 20 dB / decade (Part 15.31) for all radiated spurious emissions 30 MHz to 1 GHz from 3 meter limit to a 10 meter distance. (40dB/decade for emissions < 30MHz)



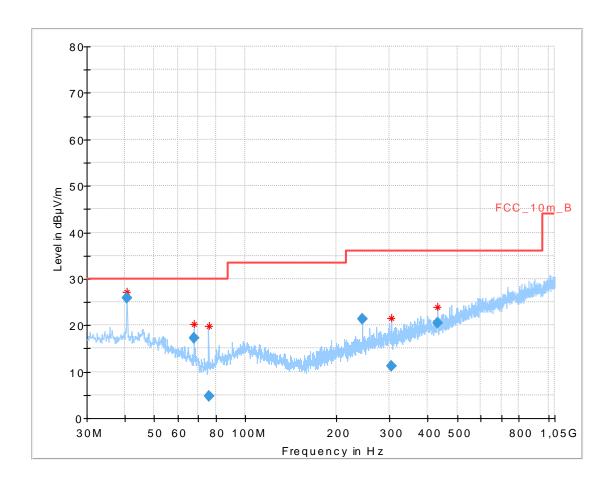
Plots of the measurements:

Plot 1: 9 kHz – 30 MHz





Plot 2: 30 MHz – 1000 MHz, vertical & horizontal polarization



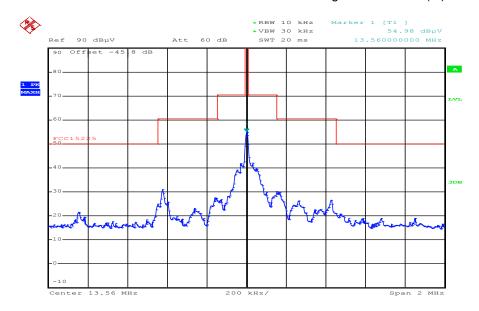
Final_Result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
40.691250	25.84	30.00	4.16	1000.0	120.000	98.0	٧	155	14.0
67.821150	17.20	30.00	12.80	1000.0	120.000	101.0	٧	270	8.9
76.012650	4.79	30.00	25.21	1000.0	120.000	98.0	Н	180	8.2
244.084050	21.40	36.00	14.60	1000.0	120.000	101.0	٧	-25	13.2
303.543150	11.29	36.00	24.71	1000.0	120.000	170.0	Н	179	14.6
432.031950	20.52	36.00	15.48	1000.0	120.000	98.0	V	65	17.3



Plot 3: Spectrum mask

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



Date: 7.NOV.2014 08:24:49



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

			Fre	equency tolera	nce						
Over	temperature v										
Lir	nit is +/- 1.356	kHz	Lin	nit is +/- 1.356	kHz		-/-				
T (°C)]	Frequency	result	Power voltage	Frequency result F [MHz]		Detector	Level [µV/m]				
0°	13.553	Pass	4.75 V	13.564	Pass						
10°	13.558	Pass	4.80 V	13.564	Pass						
20°	13.564	Pass	4.90 V	13.564	Pass						
30°	13.566	Pass	5.00 V	13.564	Pass						
40°	13.568	Pass	5.10 V	13.564	Pass						
50°	13.570	Pass	5.20 V	13.564	Pass		,				
60°	13.569	Pass	5.25 V	13.564	Pass		-/-				
70°	13.567	Pass									
80°	13.565	Pass									
Mea	Measurement uncertainty ±100 Hz										



10.6 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	

Results:

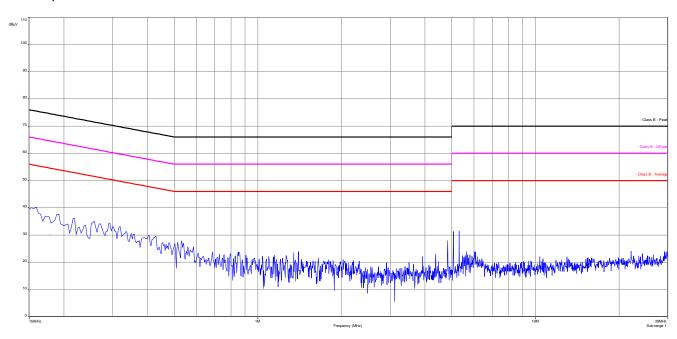
See plots

Result: passed

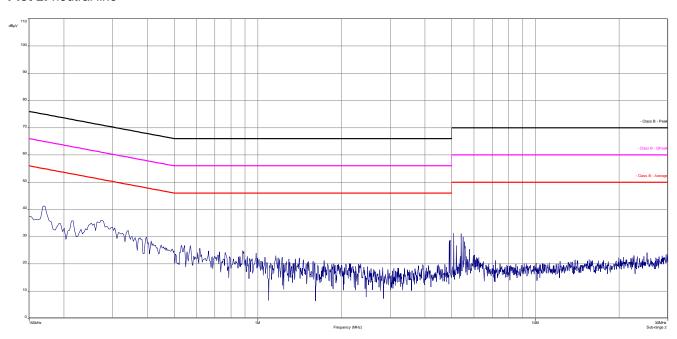


Plots:

Plot 1: phase line



Plot 2: neutral line





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 (Lab/Item).

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	n. a.	Netztgerät 0-20V	6632A	HP Meßtechnik	2851A01814	300000924	ne	09.11.2005	
2	n. a.	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO Elektronik	9709-5290	300000212	k	23.07.2013	23.07.2015
3	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	318	300003696	k	22.04.2014	22.04.2017
4	n. a.	Spectrum-Analyzer	FSU26	R&S	200809	300003874	k	22.01.2014	22.01.2015
5	n. a.	Broadband Amplifier 0.5-18 GHz	CBLU5184540	CERNEX	22050	300004482	ev		
6	n. a.	Broadband Amplifier	CBLU5135235	CERNEX	22011	300004492	ev		
7	n. a.	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000032	300004510	ne		
8	n. a.	Messrechner und Monitor	Intel Core i3 3220/3,3 GHz, Prozessor		2V2403033A54 21	300004591	ne		
9	n. a.	NEXIO EMV- Software	BAT EMC	EMCO		300004682	ne		
10	n. a.	Spectrum Analyzer 9kHz to 30GHz - 140+30dBm	FSP30	R&S	100886	300003575	k	26.08.2014	26.08.2016

Agenda: Kind of Calibration

k	calibration / calibrated	EK	limited calibration
ne	not required (k, ev, izw, zw not required)	ZW	cyclical maintenance (external cyclical maintenance)
ev	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vlkl!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress

12 Observations

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



Annex A Document history

Version	Applied changes	Date of release	
	Initial release	2014-11-21	
А	Model name changed	2015-03-05	

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



Accreditation Certificate Annex C

Front side of certificate

Back side of certificate

(DAkkS

Deutsche Akkreditierungsstelle GmbH

Bellehene gemäß § 8 Absatz 1 AkkStelleG i.V.m. § 1 Absatz 1 AkkStelleGBV Unterzeichnerin der Multilateralen Abkommen von EA, II.AC und IAF zur gegenseitigen Anerkennung

Akkreditierung



Die Deutsche Akkreditierungsstelle GmbH bestätigt hiermit, dass das Prüflaboratorium

CETECOM ICT Services GmbH Untertürkheimer Straße 6-10, 66117 Saarbrücken

die Kampetenz nach DIN EN ISO/IEC 17025:2005 besitzt, Prüfungen in folgenden Bereichen durchzuführen:

Drahtgebundene Kommunikation einschileßlich xDSL VoIP und DECT Akustik

Akustik
Funk einschließlich WLAN
Short Range Devices (SRD)
RRID
WilMax und Richtfunk
Mobilfunk (S0M) / DCS, Over the Air (OTA) Performance)
Elektromagnetische Verträglichkeit (EMV) einschließlich Automotive
SAR und Hearing Aid Compatibility (HAC)
Umweltsimulation
Smart Card Terminals
Bluetooth
Wi-Fi- Services

Die Akkreditierungsurkunde gijt nur in Verbindung mit dem Bescheld vom 07 03 2014 mit der Akkreditierungsnummer D-PI-12076-01 und ist giltig 17.01.2018. Sie besteht aus diesem Deckblatt, de Rückseite des Deckblatts und der fülgenden Anlage mit Insgesamt 77 Seiten.

Frankfurt om Main, 07.03.2014

Deutsche Akkreditierungsstelle GmbH

Standort Berlin Spittelmarkt 10 10117 Berlin

Standort Frankfurt am Main Gartenstraße 6 60594 Frankfurt am Main

Standart Braunschweig Bundesallee 100 38116 Braunschweig

Die auszugsweise Veröffentlichung der Akkreditierungsutunde bedanf der verhenigen schriftlichen Zusämmung der Deutsche Akkreditierungsstelle GmbH (DANKS). Ausgenammen davon ist die separatie Weberveroreitung des Deckhattes durch die umseitig genamme Kunformitälsbewertungsstelle in unweiß deter Form.

Die Akkreditierung erfolgte gemößt des Geschren über din Akkreditierungsstells (Akkstellect) vom 31. Juli 2009 (Boß). I. S. 2675) sowie der Verordrung (Sci) Nr. 7657/2008 des Europäischen Parlament und des Rates vom S. Luli 2008 (Boß der Verordrung) (Sci) Nr. 7657/2008 des Europäischen Parlament und des Rates vom S. Luli 2008 (Boß der Verordrung) (Boß Akksold tellerung und Mahrichbervachung zur Produkten (Abl. L. 218 vom S. Juli 2008 (Sci) S. 30). Die Dakksist Unterzeichbersin der Walthiestellen Akksommen ung aggenate bigen Artes (Boß) (Boß

Der aktue in Stund der Wilglindschaft kann folgenden Webselten entnommen werden: F&: www.naropieum notred tallon.org IIAC www.likicang I&: www.likicang

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