



TEST REPORT

Test report no.: 1-3099-01-03/11-A



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

Phonak AG

Laubisrütistrasse 28 8712 Stäfa / Switzerland

Fax: +41 (0) 58 928 20 11 Contact: Valentina Shcherba

e-mail: valentina.shcherba@phonak.com

Phone: +41 (0) 58 928 01 01

Manufacturer

Phonak AG

Laubisrütistrasse 28 8712 Stäfa / Switzerland

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: Wireless Hearing Instrument

Model name: Naida S IX UP (tested)

Naida S III UP Naida S V UP Naida S III SP Naida S V SP Naida S IX SP KWC-WHSBTE1U

FCC ID: KWC-WHSBTE1U IC: 2262A-WHSBTE1U

Frequency: 10.6 MHz

Power supply: 1.45 V DC by Zinc-Air battery

Temperature range: 0 °C to +35 °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 performed:

Test report authorised:

Stefan Bös Andreas Keller

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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 electronic signatures, the public keys can be requested at the testing laboratory.

2.2 Application details

Date of receipt of order: 2011-02-23
Date of receipt of test item: 2011-03-07
Start of test: 2011-03-07
End of test: 2011-03-31

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

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 Part 15 - Radio frequency devices
RSS - 210 Issue 8	2010-10	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} T _{max} T _{min}	+35 °C during room temperature test 0 °C during low temperature test
Relative humidity content:		53 %
Air pressure:		not relevant for this kind of testing
Power supply:	$egin{array}{c} oldsymbol{V}_{nom} \ oldsymbol{V}_{max} \ oldsymbol{V}_{min} \end{array}$	1.45 V DC by Zinc-Air battery V

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5 Test item

Kind of test item	:	Wireless Hearing Instrument	
Type identification :		Naida S IX UP (tested) Naida S III UP Naida S V UP Naida S III SP Naida S V SP Naida S IX SP	
S/N serial number	:	TX: 1106H08NX RX: 1111H09CA	
HW hardware status	:	WH2X	
SW software status	:	0.8.3.0	
Frequency band [MHz]	:	10.2 MHz to 11.0 MHz (10.6 MHz)	
Type of modulation	:	F1D inductive; FSK, modulation Index = 1	
Number of channels	:	1	
Antenna	:	Integrated antenna	
Power supply	:	1.45 V DC by Zinc-Air battery	
Temperature range	:	0°C to +35 °C	

6 Test laboratories sub-contracted

None

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7	Summary of measu	rement results
	\boxtimes	No deviations from the technical specifications were ascertained
		There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210, Issue 8	Passed	2011-04-01	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Results
§ 15.35 (c) / RSS-GEN Issue 2 Section 4.5	Timing of the transmitter (Duty cycle correction factor)	Nominal	Nominal	\boxtimes				complies
§ 15.209 /								
RSS-210 Issue 8	Bandwidth of the modulated carrier	Nominal	Nominal					complies
§ 15.209 / RSS-210 Issue 8	Fieldstrength of fundamental	Nominal	Nominal					complies
§ 15.209 (a) / RSS-210 Issue 8	Fieldstrength of harmonics and spurious	Nominal	Nominal	\boxtimes				complies
§ 15.109 / RSS-210 Issue 8	Receiver spurious emissions	Nominal	Nominal					complies
§ 15.109 / § 15.207	Conducted limits	Nominal	Nominal			\boxtimes		-

Note: NA = Not Applicable; NP = Not Performed

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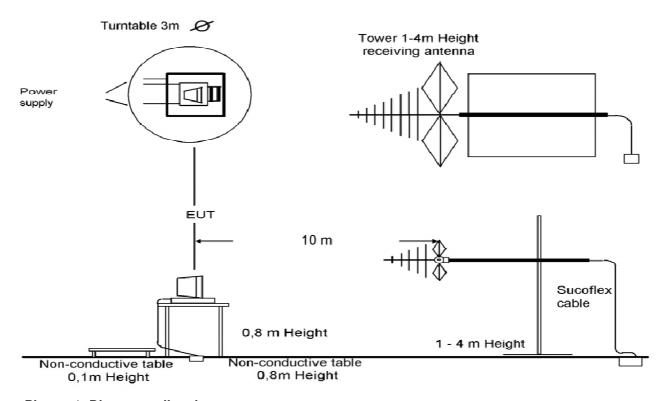
8 RF measurement testing

8.1 Description of test setup

8.1.1 Radiated measurements

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

Semi anechoic chamber



Picture 1: Diagram radiated measurements

9 kHz - 30 MHz: active loop antenna

30 MHz - 1 GHz: tri-log antenna

> 1 GHz: horn antenna

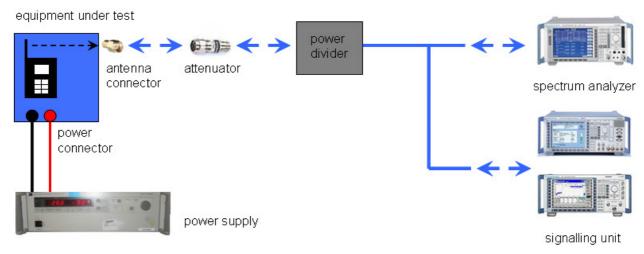
The EUT is powered by an external power supply with nominal voltage. The signalling (if needed) is performed from outside the chamber with a signalling unit by air link using signalling antenna.

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8.1.2 Conducted measurements

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



Picture 2: Diagram conducted measurements

8.2 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: None

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8.3 RSP100 test report cover sheet / performance test data

Test Report Number	:	1-3099-01-03/11-A
Equipment Model Number	:	Naida S IX UP (tested) Naida S III UP Naida S V UP Naida S III SP Naida S V SP Naida S IX SP
Certification Number	:	2262A-WHSBTE1U
Manufacturer (complete Address)	:	Phonak AG Laubisrütistrasse 28 8712 Stäfa / Switzerland
Tested to radio standards specification no.	1	RSS 210, Issue 8, Annex 8
Open Area Test Site IC No.	:	IC 3462C-1
Frequency Range or fixed frequency	:	10.2 MHz – 11.0 MHz (10.6 MHz)
Field Strength [dBμV/m] (at which distance)	•	-14.6 @ 30 m (extrapolated, emission level below spurious noise level @ 3 m)
Occupied bandwidth (99%-BW) [kHz]	:	489 kHz
Type of modulation	:	F1D inductive; FSK, modulation Index = 1
Emission Designator (TRC-43)	;	489kF1D
Antenna Information	:	Internal antenna
Transmitter Spurious (worst case) [dBµV/m	@ 3m]:	31.8 @ 956.8 MHz (noise floor)
Receiver Spurious (worst case) [dBµV/m @	3m]:	31.8 @ 956.8 MHz (noise floor)

ATTESTATION: DECLARATION OF COMPLIANCE:

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

Laboratory Manager:

2011-04-01

Signature

Stefan Bös

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9 Measurement results

9.1 Timing of the transmitter

Limits:

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

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.

Duty cycle of the sample with test mode: 100%

Result: The result of the measurement is passed.

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9.2 Bandwidth of the modulated carrier

Limits:

FCC	IC	
CFR Part SUBCLAUSE § 15.209	RSS-210 Issue 8	
Bandwidth of the modulated carrier		

Measured with the integrated OBW-function of the spectrum analyser Rohde&Schwarz FSIQ26 (measurement criteria is the integrated power in %)

Result:

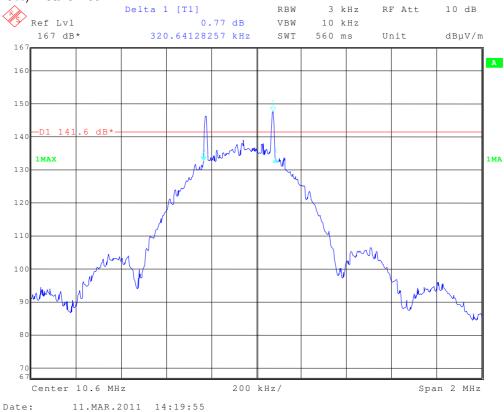
	Occupied Bandwidth (kHz)
6 dB (75%)	320.6
20 dB (99%)	489.0

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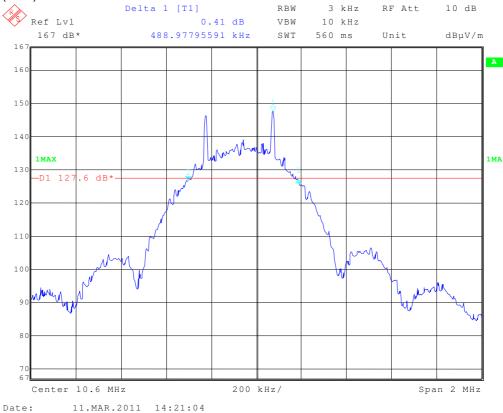


Plots of the measurement

Plot 1: 6dB (75%) - bandwidth



Plot 2: 20dB (99%) - bandwidth



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9.3 Field strength of the fundamental

Measurement:

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

Limits:

FCC		IC			
CFR Part SUBCLAUSE §	15.209		RSS-210 Issue 8		
Fundamental Frequency (MHz)	Field strength ο (μV/				
1.705 – 30.0	30)	30		

Result:

TEST CO	NDITIONS	MAXIMUM PO	WER (dBμV/m)	
Freq	uency	10.6 MHz 10.6 MHz		
M	Mode		at 30 m distance	
T _{nom}	V _{nom}	44.5	-14.6	
Measureme	nt uncertainty	±30	dB	

Recalculation to a measurement distance of 30 m with a correction of 40 dB/decade. The resulting correction factor from 1 m to 30 m is -59.1 dB

Result: The result of the measurement is passed.

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9.4 Fieldstrength of the harmonics and spurious

Measurement:

Measurement parameter						
Detector:	Average / Quasi Peak					
Trace-Mode:	Max Hold					

Limits:

FCC			IC				
SUBCLAUSE § 15.2	09 (a)	RSS-210 Issue 8					
Fi	eld strength of the ha	d strength of the harmonics and spurious.					
Frequency (MHz)	Field streng	jth (μV/m)	Measurement distance (m)				
0.009 - 0.490	2400/F	(kHz)	300				
0.490 - 1.705	24000/F	(kHz)	30				
1.705 – 30	30 (29.5 c	IBμV/m)	30				
30 – 88	100 (40 d	BμV/m)	3				
88 – 216	150 (43.5	dBμV/m)	3				
216 – 960	200 (46 d	BμV/m)	3				

Result:

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

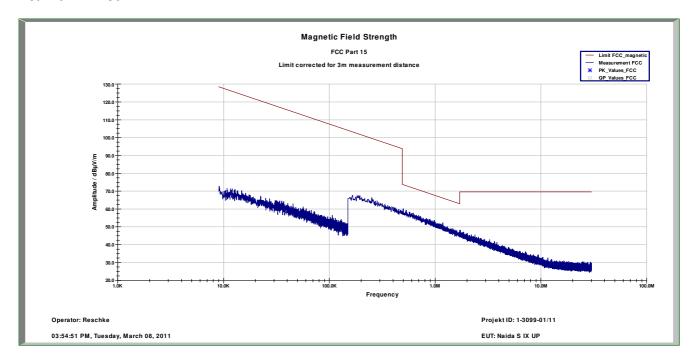
Result: The result of the measurement is passed.

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Plots of the measurements

Plot 1: 9 kHz - 30 MHz



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Plot 2: 30 MHz - 1000 MHz

Common Information

EUT: Naida S IX UP
Serial Number: 1106H08NX
Test Description: FCC Part 15 C

Operating Conditions: active
Operator Name: LANGER

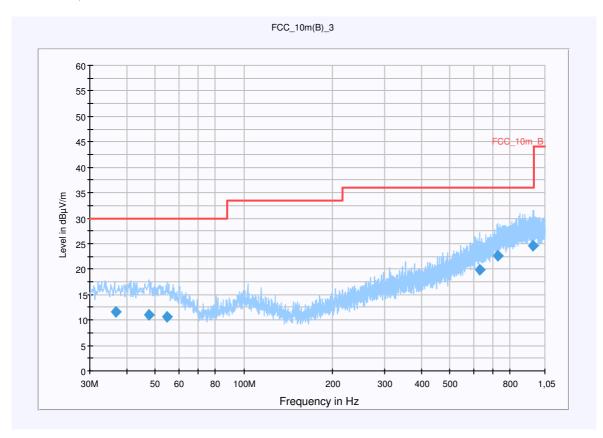
Comment: battery powered p675 1,45 V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)

Level Unit: $dB\mu V/m$

SubrangeDetectorsIF BandwidthMeas. TimeReceiver30 MHz - 1,05 GHzQuasiPeak120 kHz15 sReceiver



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
36.754800	11.7	15000.000	120.000	220.0	Н	188.0	13.2	18.3	30.0	
47.796900	11.1	15000.000	120.000	220.0	٧	70.0	13.3	18.9	30.0	
54.662100	10.6	15000.000	120.000	170.0	Н	39.0	12.9	19.4	30.0	
630.299850	19.9	15000.000	120.000	98.0	٧	251.0	21.0	16.1	36.0	
725.207550	22.5	15000.000	120.000	169.0	٧	90.0	23.1	13.5	36.0	
956.816250	24.5	15000.000	120.000	210.0	٧	241.0	25.4	11.5	36.0	

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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 4.32

Signal Path: without Notch

FW 1.0

Antenna: VULB 9163

SN 9163-295, FW ---

Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (1005)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]

@ GPIB0 (ADR 8), FW REV 3.12

Turntable: Turntable [EMCO Turntable]

@ GPIB0 (ADR 9), FW REV 3.12

EMC 32 Version 8.10.00

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9.5 Receiver spurious emissions

Measurement:

Measurement parameter					
Detector:	Average / Quasi Peak				
Trace-Mode:	Max Hold				

Limits:

FCC			IC				
SUBCLAUSE § 15.2	209 (a)		RSS-210 Issue 8				
	Receiver Spurious Emissions						
Frequency (MHz)	Field strenç	jth (μV/m)	Measurement distance (m)				
0.009 - 0.490	2400/F	(kHz)	300				
0.490 – 1.705	24000/F	(kHz)	30				
1.705 – 30	30 (29.5 c	IBμV/m)	30				
30 – 88	100 (40 d	BμV/m)	3				
88 – 216	150 (43.5	dBμV/m)	3				
216 – 960	200 (46 d	BμV/m)	3				

Result:

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

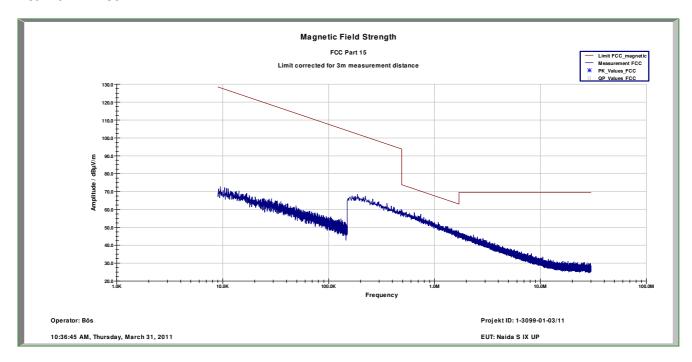
Result: The result of the measurement is passed.

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Plots of the measurements

Plot 1: 9 kHz - 30 MHz



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Plot 2: 30 MHz - 1000 MHz

Common Information

EUT: Naida S IX UP
Serial Number: 1111H09CA
Test Description: FCC Part 15 B
Operating Conditions: RX Mode
Operator Name: KRA

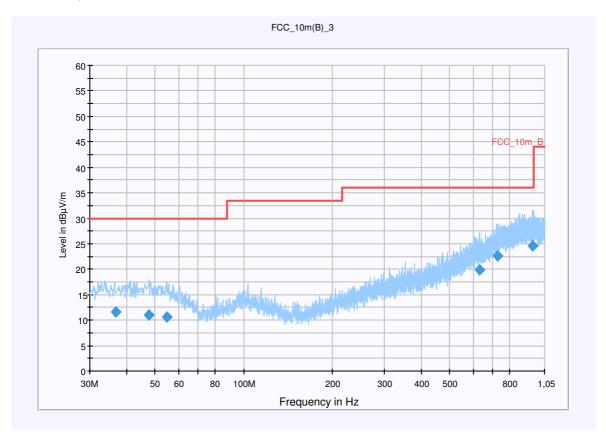
Comment: Battery powered 1,45 V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)

Level Unit: $dB\mu V/m$

SubrangeDetectorsIF BandwidthMeas. TimeReceiver30 MHz - 1,05 GHzQuasiPeak120 kHz15 sReceiver



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
36.755000	12.0	15000.000	120.000	220.0	Н	190.0	13.2	18.0	30.0	
47.796850	10.8	15000.000	120.000	220.0	٧	72.0	13.3	19.2	30.0	
54.662300	10.5	15000.000	120.000	170.0	Н	40.0	12.9	19.5	30.0	
630.299900	20.0	15000.000	120.000	99.0	٧	253.0	21.0	16.0	36.0	
725.209650	22.7	15000.000	120.000	171.0	V	91.0	23.1	13.3	36.0	
956.816450	24.8	15000.000	120.000	212.0	٧	243.0	25.4	11.2	36.0	

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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 4.32

Signal Path: without Notch

FW 1.0

Antenna: VULB 9163

SN 9163-295, FW ---

Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (1005)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]

@ GPIB0 (ADR 8), FW REV 3.12

Turntable: Turntable [EMCO Turntable]

@ GPIB0 (ADR 9), FW REV 3.12

EMC 32 Version 8.10.00

9.6 Conducted limits

Not applicable

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10 Test equipment and ancillaries used for tests

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

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

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	n. a.	Amplifier	js42-00502650- 28-5a	Parzich GMBH	928979	300003143	ne		
2	n. a.	Band Reject filter	WRCG1855/1910- 1835/1925- 40/8SS	Wainwright	7	300003350	ev		
3	n. a.	Band Reject filter	WRCG2400/2483- 2375/2505- 50/10SS	Wainwright	11	300003351	ev		
4	n. a.	TILE-Software Emission	Quantum Change, Modell TILE- ICS/FULL	EMCO	none	300003451	ne		
5	n. a.	Highpass Filter	WHKX2.9/18G- 12SS	Wainwright	1	300003492	ev		
6	n.a.	Highpass Filter	WHK1.1/15G- 10SS	Wainwright	3	300003255	ev		
7	n. a.	Highpass Filter	WHKX7.0/18G- 8SS	Wainwright	18	300003789	ne		
8	n. a.	PSA Spectrum Analyzer 3 Hz - 26.5 GHz	E4440A	Agilent Technologies	MY48250080	300003812	k	08.09.2010	08.09.2012
9	n. a.	MXG Microwave Analog Signal Generator	N5183A	Agilent Technologies	MY47420220	300003813	k	13.09.2010	13.09.2012
10	n.a.	RF Filter Section 9kHz - 1GHz	N9039A	Agilent Technologies	MY48260003	300003825	vlKI!	08.09.2010	08.09.2012
11	n. a.	TRILOG Broadband Test- Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	371	300003854	vIKI!	17.12.2008	17.12.2011
12	n. a.	Test Receiver	ESH2	R&S	871921/095	300002505	Ve	12.02.2010	12.02.2012
13	n.a.	Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824	vlKI!	18.11.2008	18.11.2011
14	n. a.	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	07.09.2010	07.09.2011
15	n.a.	Isolating Transformer	RT5A	Grundig	8041	300001626	g		
16	n. a.	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2818A03450	300001040	Ve	08.01.2009	08.01.2012
17	n. a.	PowerAttenuator	8325	Byrd	1530	300001595	ev		
18	n. a.	Double-Ridged Waveguide Horn Antenna 1- 18.0GHz	3115	EMCO	8812-3088	300001032	vlKI!	05.03.2009	05.09.2011
19	n.a.	Active Loop Antenna	6502	EMCO	2210	300001015	ne		
20	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996		23.03.2009	
21	Spec.A. 2_2e	System rack for EMI measurement solution	85900	HP I.V.	*	300000222	ne		
22	9	Artificial Mains 9 kHz to 30 MHz	ESH3-Z5	R&S	828576/020	300001210	Ve	06.01.2010	06.01.2012
23	n. a.	Relais Matrix	3488A	HP Meßtechnik	2719A15013	300001156	ne		
24	n. a.	Relais Matrix	PSU	R&S	890167/024	300001168	ne		
25	n.a.	Isolating Transformer	RT5A	Grundig	9242	300001263	ne		

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26	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne	
27	n. a.	Switch / Control Unit	3488A	HP	2605e08770	300001443	ne	

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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Annex A Photographs of the test setup

Photo documentation

Photo 1:



Photo 2:



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Photo 3:



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Annex B External photographs of the EUT

Photo documentation

Photo 1:



Photo 2:



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Photo 3:



Photo 4:



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Photo 5:



Photo 6:



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Annex C Internal photographs of the EUT

Photo documentation

Photo 1:



Photo 2:



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Photo 3:



Photo 4:



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Photo 5:



Photo 6:



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Photo 7:



Photo 8:



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Photo 9:



Photo 10:



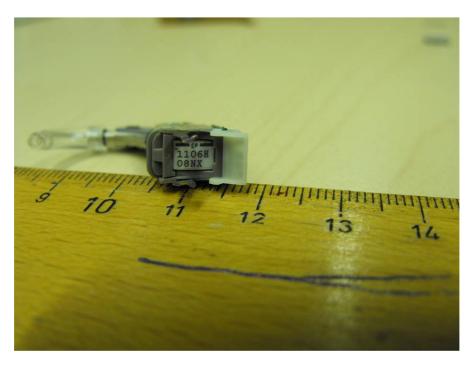
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Photo 11:



Photo 12:



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Annex D Document history

Version	Applied changes	Date of release
1.0	Initial release	2011-03-28
-A	RX-Spurious plots added	2011-04-01

Annex E Further information

Glossary

DUT - Device under Test

EMC - Electromagnetic Compatibility

EUT - Equipment under Test

FCC - Federal Communication Commission

FCC ID - Company Identifier at FCC

HW - Hardware

IC - Industry Canada
Inv. No. - Inventory number
N/A - not applicable
S/N - Serial Number
SW - Software

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