Test Report

Manufacturer:	**DK-Audio**
Product:	**PT 5202 mk. 2**
Standards:	**EN 55022**
Report No:	**B2005012**
Date and Signature:	18/3 05

Bolls Rådgivning

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Test object:	PT 5202 MK. 2
Manufacturer:	DK-Audio Marielundvej 37D DK-2730 Herlev, Denmark
Test dates:	2005-03-18
Standards:	Emission: Product family standards EN 55022; 1998 + A1; 2000
Test engineer:	Kim Boll Jensen
Test laboratory:	All tests are made in the test laboratories of Bolls Rådgivning, Denmark.
Conclusion:	The product has been tested according to the above mentioned standards and has been found to fulfil the requirements. This gives presumption of compliance for the protection requirements given in article 4 of the EMC directive 89/336/EEC and the unit can be CE-marked according to that directive.

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1. Introduction

1.1 General

The purpose of this report is to describe the tests that this product has been submitted to. These tests have been performed to verify that EMC requirements for the product are met.

1.2 Summery of tests

Phenomenon	Used Basic standard	Test on	Result
Radiated emission	EN 55022/09.98	Enclosure port	requirements fulfilled
Conducted emission	EN 55022/09.98	Input AC power port	requirements fulfilled

1.3 Test set-up

See pictures in attachment.

1.4 Climatic conditions

Ambient temperature (15 – 30 °C) ; 23 °C

Relative humidity (30% – 60%); 36%

2. Emission test: EN 55022

Test applicable [X] Not applicable [ ]. Comment:
Number of test sheets: 6 in Attachment

Measurements (shortform) :
Test setup shall be normal use with max. load according to standards.
In the TEM-cell, the product shall be measured from three different sides and each measurement is indicated on the test sheets. The corrected limits shall be indicated on the sheets.

Conducted emission can be measured in a shielded room or outside, just remember to use a HF-ground plane according to the standard.
Test sheets shall always be attached to this test.

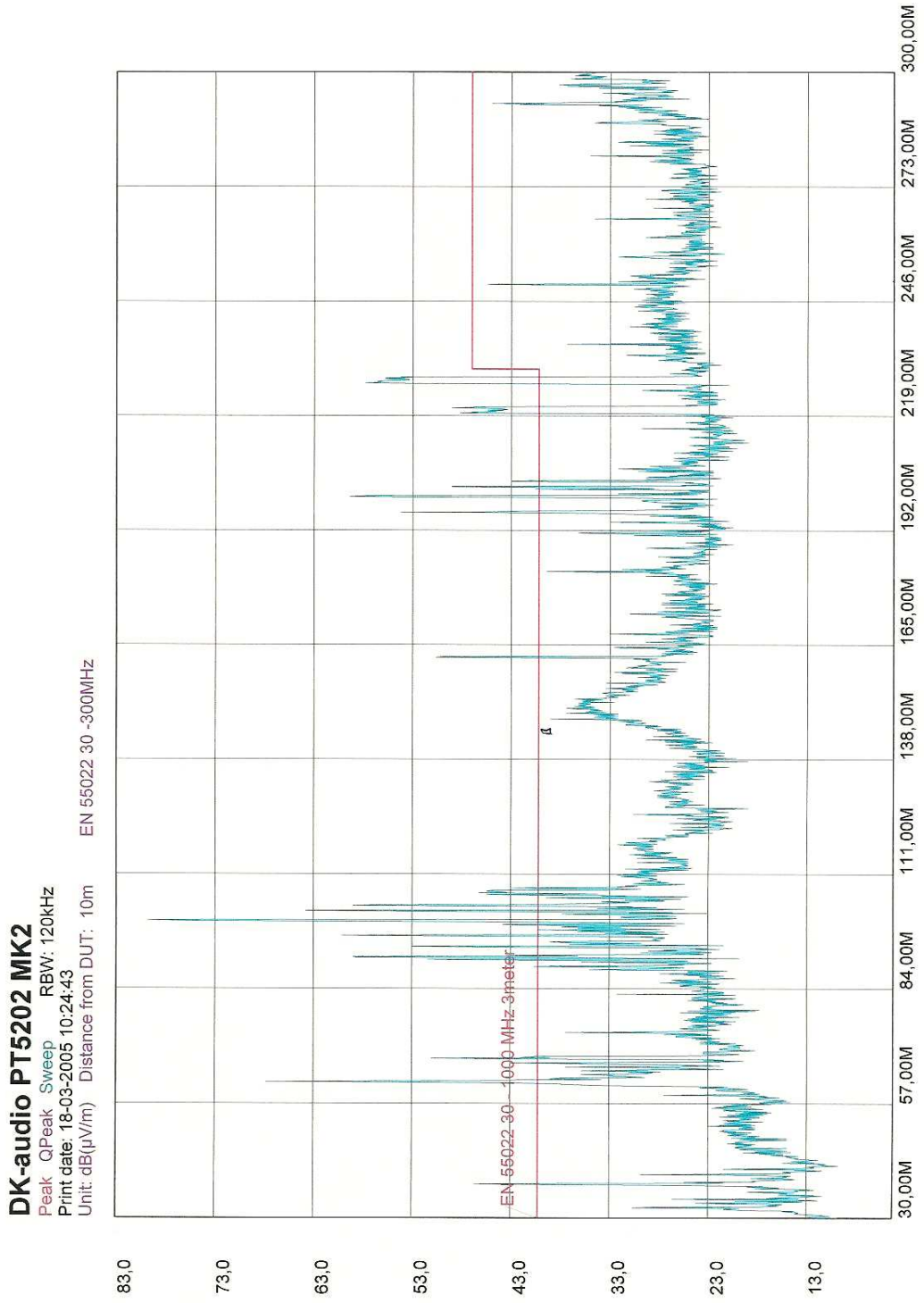
Test :	OK / not OK	Comments :
Shielded room 3m	-	
Open test site :	OK	
Conducted mains:	OK	

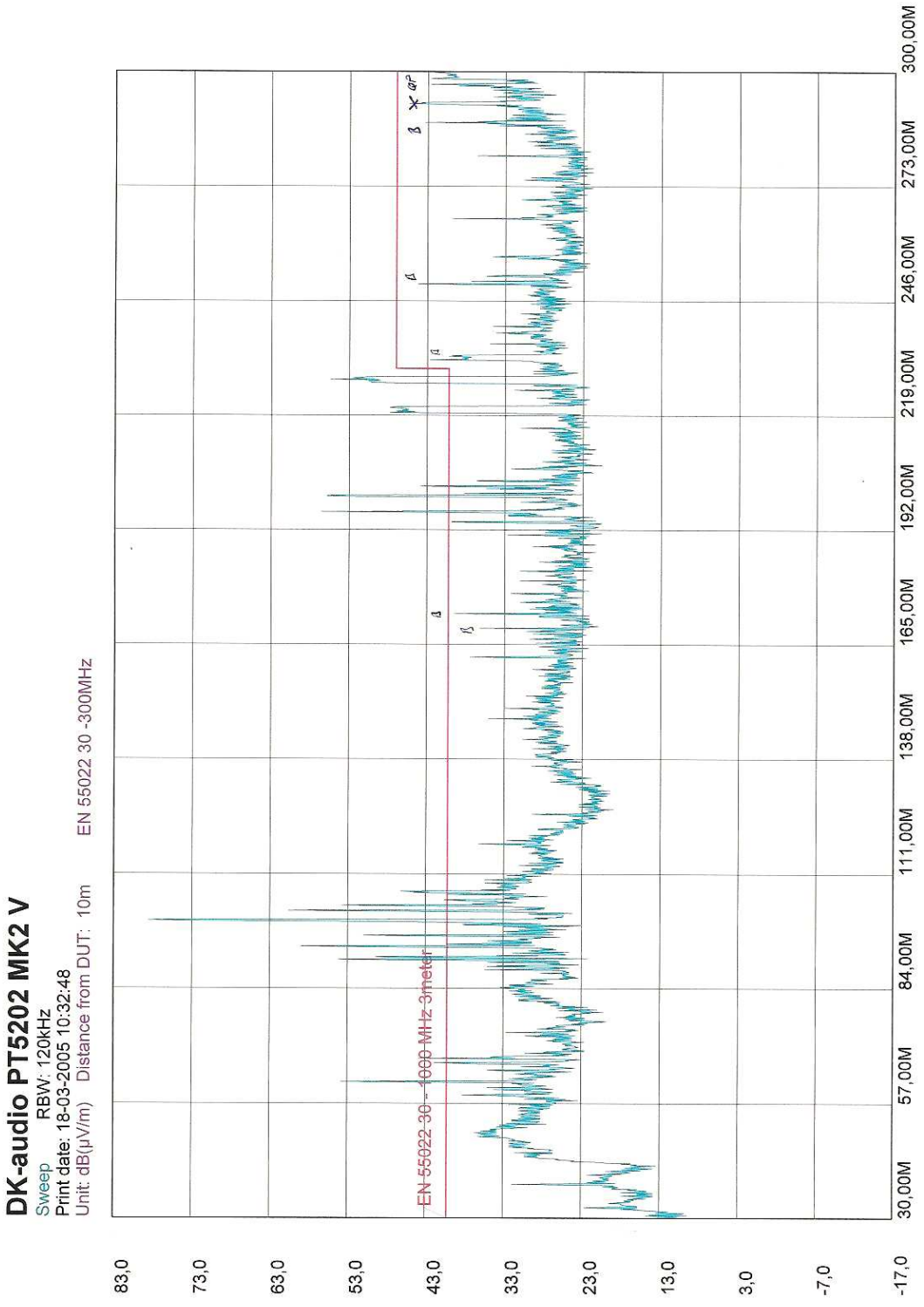
Comments

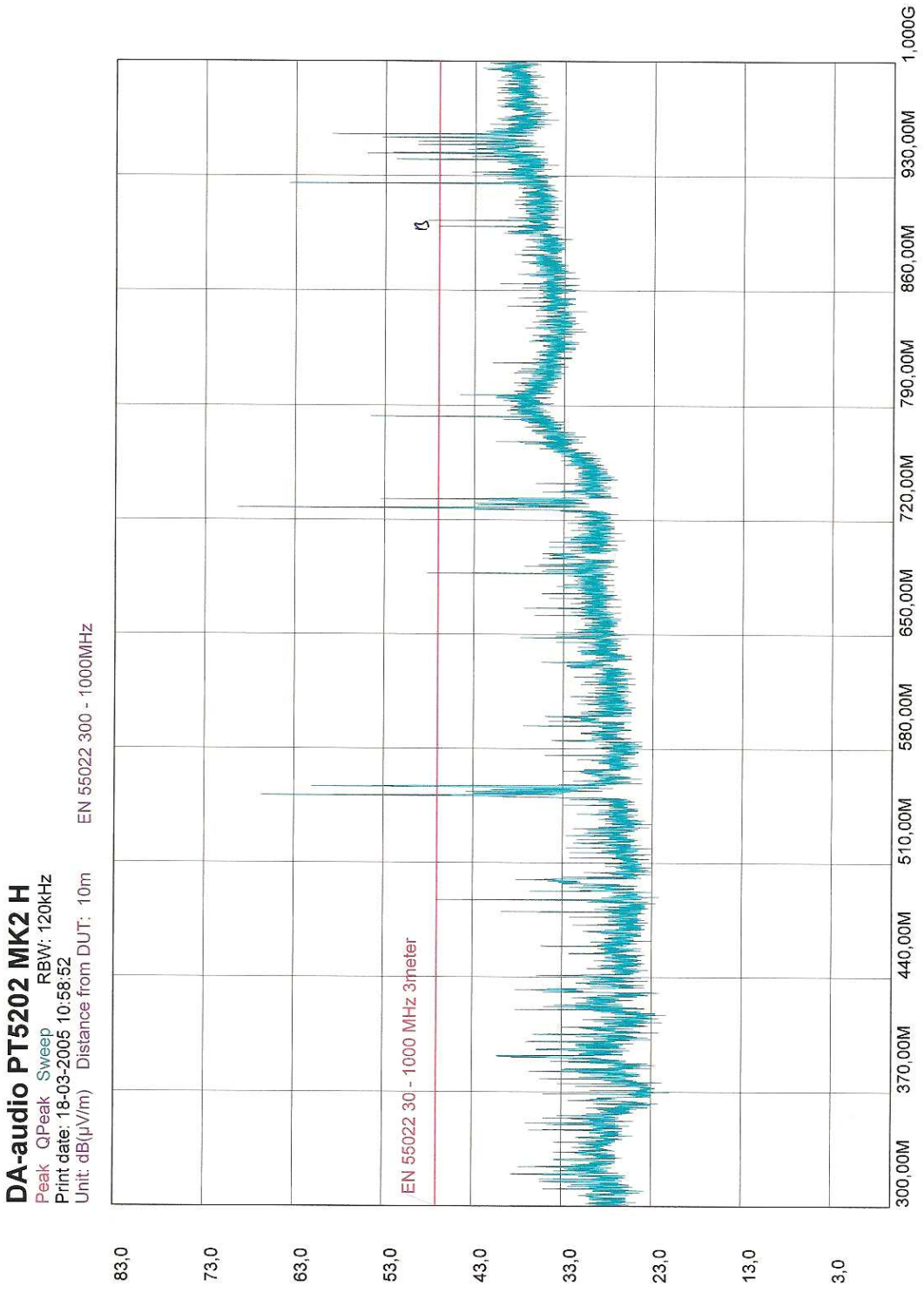
On the measurement printouts in the attachment, all measurements over limit were verified to be background by turning the EUT off. QP checks are indicated with an “x” (a “B” indicates background only at some backgrounds)

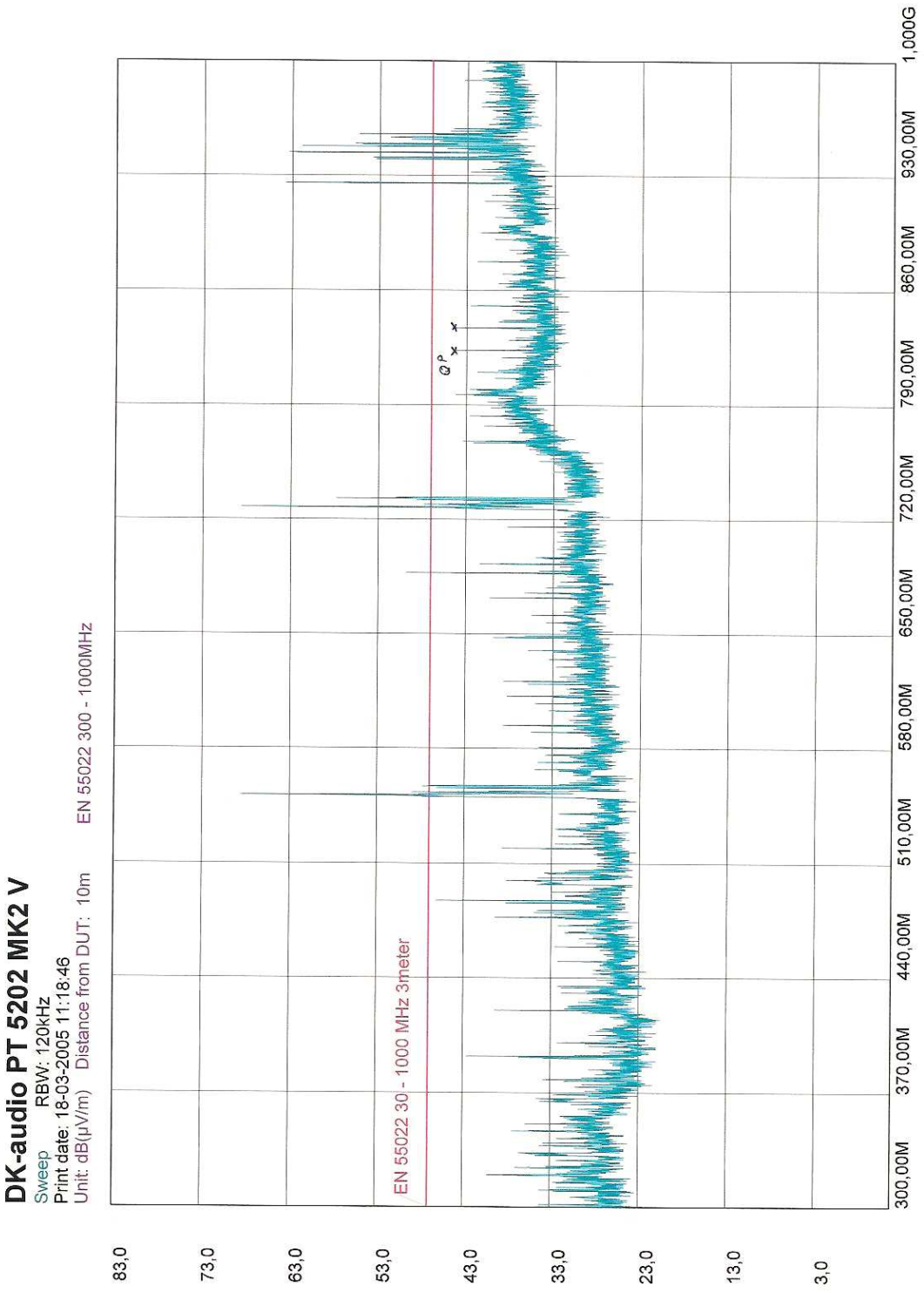
Tested by : Kim Boll Jensen
Date : 2005-03-18

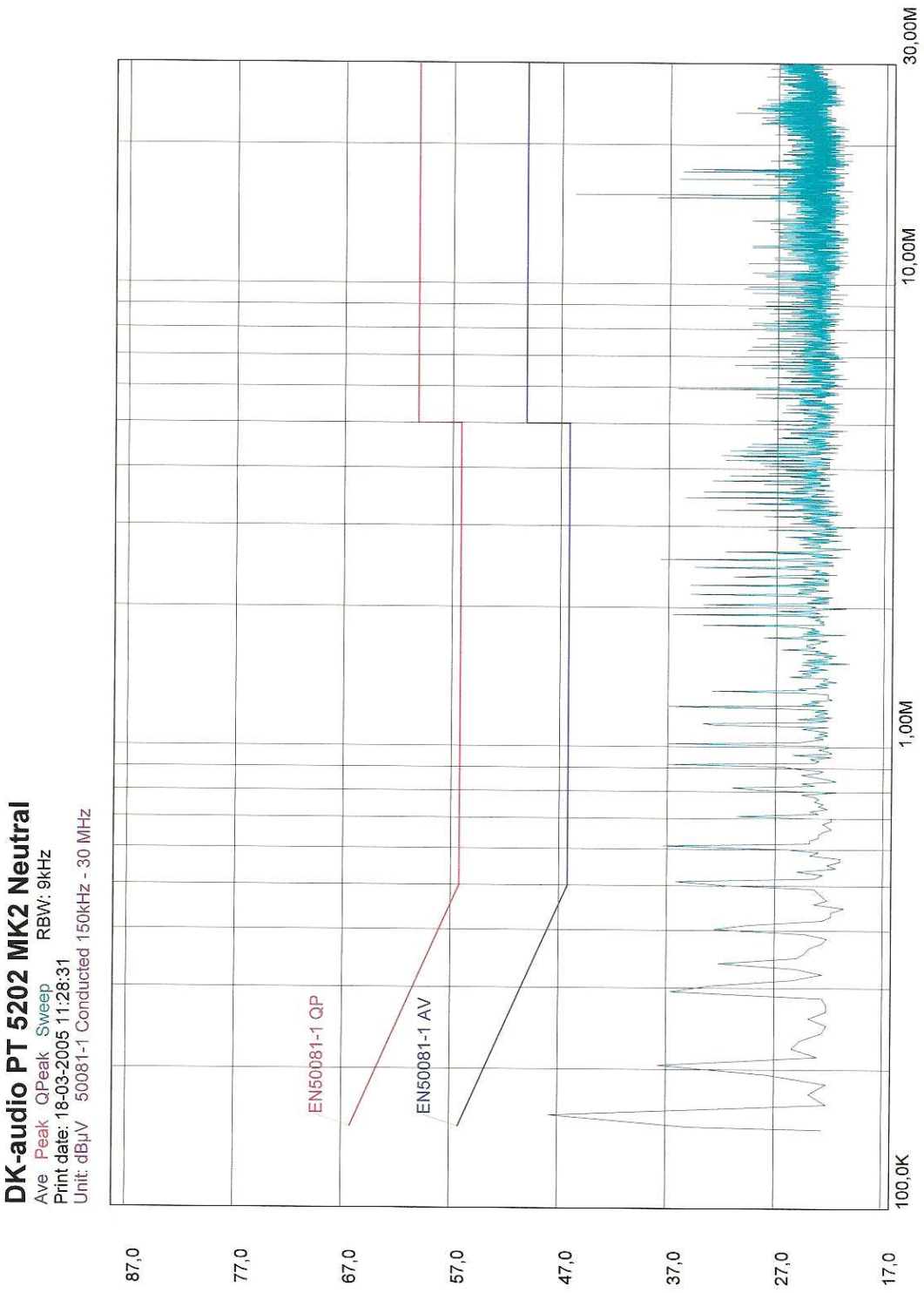
3. Attachment

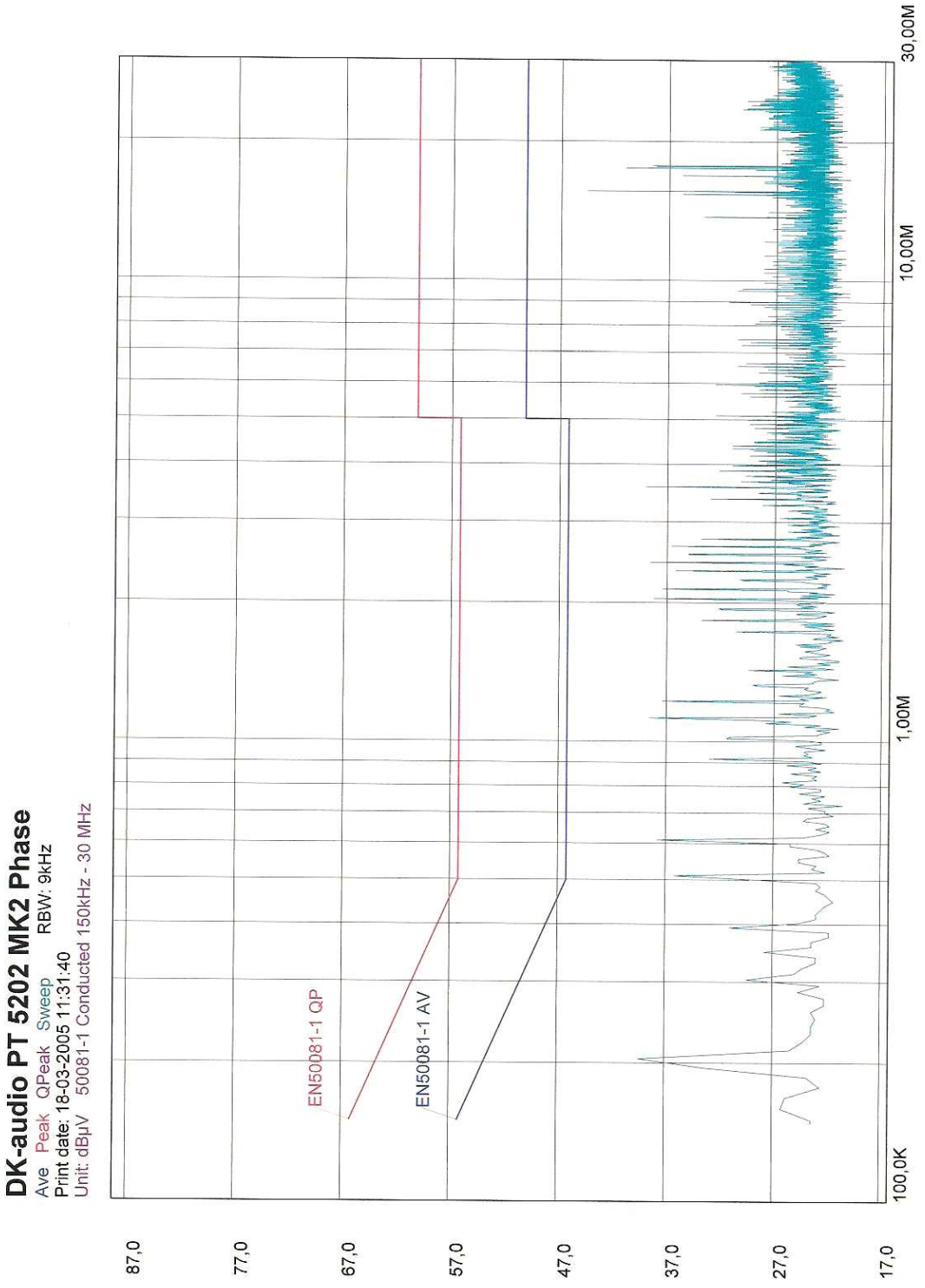



DK-audio PT5202 MK2 V
Sweep RBW: 120kHz
Print date: 18-03-2005 10:32:48
Unit: dB(µV/m) Distance from DUT: 10m
EN 55022 30 -300MHz
EN 55022 30 - 1000 MHz 3meter
83,0
73,0
63,0
53,0
43,0
33,0
23,0
13,0
3,0
-7,0
-17,0
30,00M
57,00M
84,00M
111,00M
138,00M
165,00M
192,00M
219,00M
246,00M
273,00M
300,00M

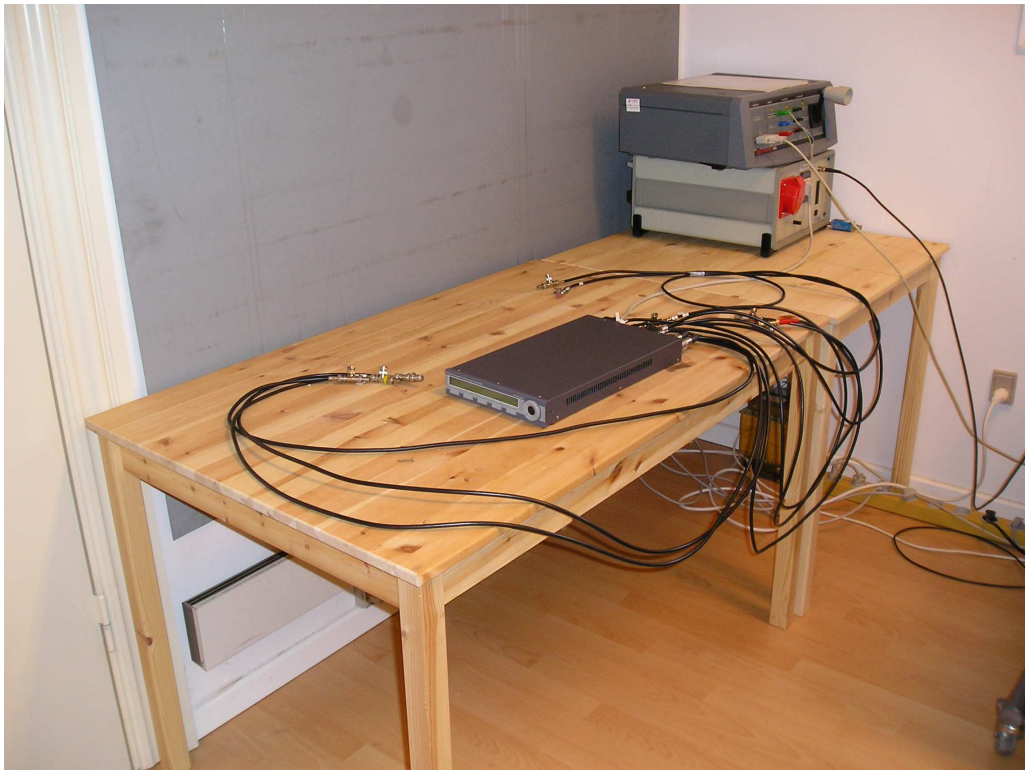

DA-audio PT5202 MK2 H
Peak QPeak Sweep RBW: 120kHz
Print date: 18-03-2005 10:58:52
Unit: dB(µV/m) Distance from DUT: 10m
EN 55022 300 - 1000MHz
EN 55022 30 - 1000 MHz 3meter
83,0
73,0
63,0
53,0
43,0
33,0
23,0
13,0
3,0
300,00M
370,00M
440,00M
510,00M
580,00M
650,00M
720,00M
790,00M
860,00M
930,00M
1,000G


DK-audio PT 5202 MK2 V
Sweep RBW: 120kHz
Print date: 18-03-2005 11:18:46
Unit: dB(µV/m) Distance from DUT: 10m
EN 55022 300 - 1000MHz
EN 55022 30 - 1000 MHz 3meter
83,0
73,0
63,0
53,0
43,0
33,0
23,0
13,0
3,0
300,00M
370,00M
440,00M
510,00M
580,00M
650,00M
720,00M
790,00M
860,00M
930,00M
1,000G


DK-audio PT 5202 MK2 Neutral
Ave Peak QPeak Sweep RBW: 9kHz
Print date: 18-03-2005 11:28:31
Unit: dBµV 50081-1 Conducted 150kHz - 30 MHz
EN50081-1 QP
EN50081-1 AV
87,0
77,0
67,0
57,0
47,0
37,0
27,0
17,0
100,0K
1,00M
10,00M
30,00M


DK-audio PT 5202 MK2 Phase
Ave Peak QPeak Sweep RBW: 9kHz
Print date: 18-03-2005 11:31:40
Unit: dBµV 50081-1 Conducted 150kHz - 30 MHz
EN50081-1 QP
EN50081-1 AV
87,0
77,0
67,0
57,0
47,0
37,0
27,0
17,0
100,0K
1,00M
10,00M
30,00M

Radiated emission



Conducted emission

4. List of instruments:

Radiated emission:

Instrument	Manu-facturer	Type	Instrument number	Calibrated at	Last calibration	Next calibration
Test receiver	Hamag	HM5014-2		York/Bolls	20.01.05	20.01.06
Software	Hamag	AS100		-	-	-
Antenna	UHALP	9107		tdc	12.02.02	12.02.06
Antenna	Schwarzbeck	9106		tdc	12.02.02	12.02.06
Antenna pre-amplifier	Mini circuit	ZFL-1000LN		York/Bolls	11.02.05	11.02.06
LISN	Chase	MN2053		Bolls	17.03.05	17.03.06

Conducted emission 150kHz – 30 MHz:

Instrument	Manu-facturer	Type	Instrument number	Calibrated at	Last calibration	Next calibration
Test receiver	Hamag	HM5014-2		Hamag	20.01.04	20.01.06
Software	Hamag	AS100		-	-	-
LISN	PMM	L3-25		Bolls	17.03.05	17.03.06