

Straubing, July 1, 2005

**T E S T - R E P O R T**

**No. 50104-40281 (Edition 1)**

**for**

**2500 (H2500)**

**Wireless Headphone System**

**Applicant:** Amphony (Deutschland) GmbH

**Test Specifications:** FCC Code of Federal Regulations,  
CFR 47, Part 15,  
Sections 15.107, 15.109, 15.205, 15.207,  
15.215 and 15.249

Industry Canada Radio Standards  
Specification RSS-210 Issue 5,  
Sections 6.2.2 (m2), 6.3, 6.6 and 7  
(Category I Equipment)

**Note:**

The test data of this report is related only to the individual item which has been tested. This report shall not be reproduced except in full extent without the written approval of the testing laboratory.

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## 1 Description of the Equipment Under Test (EUT)

<b>General data of EUT</b>	
Type designation <sup>1</sup> :	2500 (H2500)
Parts <sup>2</sup> :	---
Serial number(s):	01
Manufacturer:	Amphony (Deutschland) GmbH Annenstraße 26 D-10179 Berlin
Type of equipment:	Wireless Headphone System
Version:	as received
FCC ID:	---
Additional parts/accessories:	---

<b>Technical data of EUT</b>	
Application frequency range:	5.725 - 5.850 GHz
Frequency range:	5.725 - 5.850 GHz
Operating frequency:	
Type of modulation:	---
Pulse train:	---
Pulse width:	---
Number of RF-channels:	1
Channel spacing:	N/A
Designation of emissions <sup>3</sup> :	
Type of antenna:	
Size/length of antenna:	
Connection of antenna:	<input type="checkbox"/> detachable <input checked="" type="checkbox"/> not detachable
Type of power supply:	AC supply 115 V
Specifications for power supply:	

<sup>1</sup> Type designation of the system if EUT consists of more than one part.

<sup>2</sup> Type designations of the parts of the system, if applicable.

<sup>3</sup> Also known as "Class of Emission".

## 2 Administrative Data

<b>Application details</b>	
Applicant (full address):	Amphony (Deutschland) GmbH Annenstraße 26 D-10179 Berlin
Contact person:	Mr. Jens Kurrat
Contract identification:	---
Receipt of EUT:	April 20, 2004
Date(s) of test:	May 12 to June 23, 2004 and June 29, 2005
Note(s):	---

<b>Report details</b>	
Report number:	50104-40281
Edition:	1
Issue date:	July 1, 2005

### 3 Identification of the Test Laboratory

<b>Details of the Test Laboratory</b>	
Company name:	Senton GmbH EMI/EMC Test Center
Address:	Aeussere Fruehlingstrasse 45 D-94315 Straubing Germany
Laboratory accreditation:	DAR-Registration No. DAT-P-171/94-02
FCC test site registration number	90926
Industry Canada test site registration:	IC 3050
Contact person:	Mr. Johann Roidt
	Phone: (+49) (0)9421 5522-0
	Fax: (+49) (0)9421 5522-99

## 4 Summary

### Summary of test results

The tested sample complies with the requirements set forth in the  
**Code of Federal Regulations CFR 47, Part 15, Sections 15.107, 15.109, 15.205, 15.207, 15.215 and 15.249**  
of the Federal Communication Commission (FCC) and the  
**Radio Standards Specification RSS-210 Issue 5, Sections 6.2.2 (m2), 6.3, 6.6 and 7 (Category I Equipment)**  
of Industry Canada (IC).

### Personnel involved in this report

Laboratory Manager:



Mr. Johann Roidt

Responsible for testing:

Mr. Johann Roidt

Responsible for test report:

Mr. Johann Roidt

## 5 Operation Mode and Configuration of EUT

### Operation Mode(s)

- AC 115 V power supply (DC 9 V)
- all cables connected
- audio-signal: 1Vpp @ 1kHz
- transmitting continuously

### Configuration(s) of EUT

Not applicable

### List of ports and cables

Not applicable

### List of devices connected to EUT

Not applicable

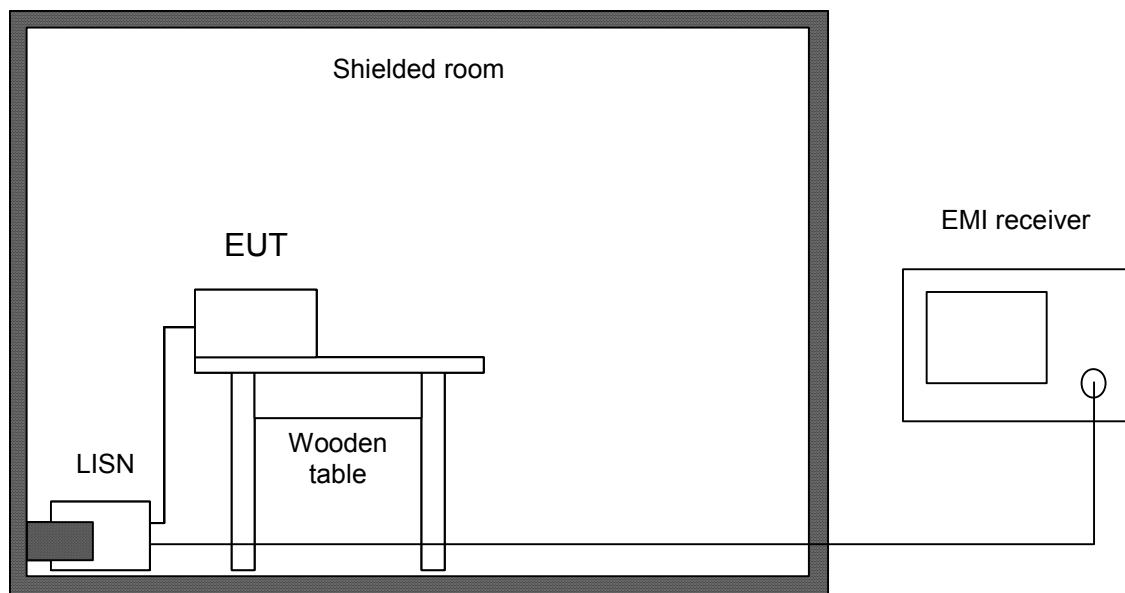
### List of support devices

Not applicable

## 6 Measurement Procedures

### 6.1 Conducted AC Powerline Emission

<b>Measurement Procedure:</b>	
Rules and specifications:	CFR 47 Part 15, sections 15.107 and 15.207 IC RSS-210 Issue 5, sections 6.6 and 7.4
Guide:	ANSI C63.4 (CISPR 22)
Conducted emission tests in the frequency range 150 kHz to 30 MHz are performed using Line Impedance Stabilization Networks (LISNs). To simplify testing with quasi-peak and average detector the following procedure is used:	
First the whole spectrum of emission caused by the equipment under test (EUT) is recorded with detector set to peak using CISPR bandwidth of 10 kHz. After that all emission levels having less margin than 10 dB to or exceeding the average (CFR 47 Part 15) or quasi-peak (IC RSS-210) limit are retested with detector set to quasi-peak.	
If average limit is kept with quasi-peak levels no additional scan with average detector is necessary. In cases of emission levels between quasi-peak and average limit an additional scan with detector set to average is performed.	
According to ANSI C63.4, section 13.1.3.1, testing of intentional radiators with detachable antenna shall be performed using a suitable dummy load connected to the antenna output terminals. Otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended.	
Testing with dummy load may be necessary to distinguish (unintentional) conducted emissions on the supply lines from (intentional) emissions radiated by the antenna and coupling directly to supply lines and/or LISN. Usage of dummy load has to be stated in the appropriate test record(s) and notes should be added to clarify the test setup.	

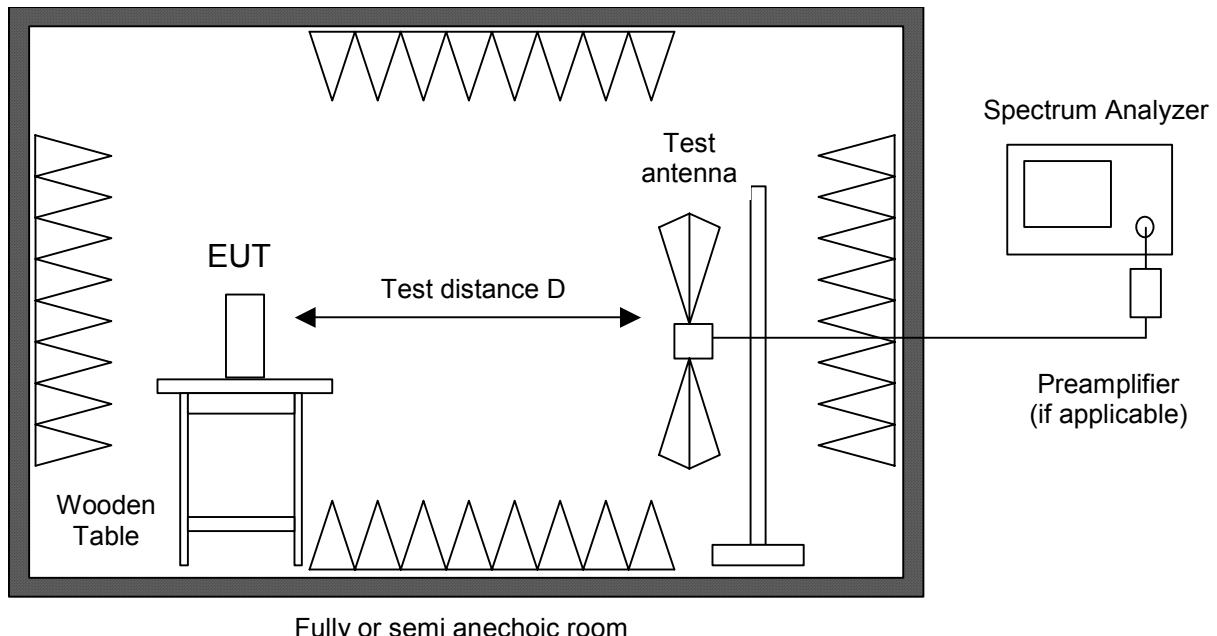


Test instruments used:

Used	Type	Model	Serial No. or ID	Manufacturer
<input checked="" type="checkbox"/>	EMI receiver	ESHS 10	860043/016	Rohde & Schwarz
<input checked="" type="checkbox"/>	LISN	ESH3-Z5	862770/021	Rohde & Schwarz
<input checked="" type="checkbox"/>	LISN	ESH3-Z5	830952/025	Rohde & Schwarz
<input type="checkbox"/>	Artificial mains network	ESH 2-Z5	842966/004	Rohde & Schwarz
<input type="checkbox"/>	Shielded room	No. 1	1451	Albatross Projects
<input checked="" type="checkbox"/>	Shielded room	No. 4	3FD-100 544	Euroshield

## 6.2 Radiated Emission in Fully or Semi Anechoic Room

Measurement Procedure:	
Rules and specifications:	CFR 47 Part 15, sections 15.109, 15.215(b) and 15.249 IC RSS-210 Issue 5, sections 6.2.2 (m2) and 7.3
Guide:	ANSI C63.4
Radiated emission in fully or semi anechoic room is measured in the frequency range from 30 MHz to the maximum frequency as specified in CFR 47 Part 15 section 15.33.	
Measurements are made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution as well as video bandwidth set to 100 kHz (below 1 GHz) or 1 MHz (above 1 GHz).	
Testing up to 1 GHz is performed with a linear polarized logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna"). For testing above 1 GHz horn antennas are used.	
All tests below 18 GHz are performed at a test distance D of 3 meters. For higher frequencies the test distance is reduced (e.g. to 1 meter) due to the sensitivity of the measuring instrument(s) and the test results are calculated according to CFR 47 Part 15 section 15.31(f)(1) using an extrapolation factor of 20 dB/decade. If required, preamplifiers are used for the whole frequency range. Special care is taken to avoid overload, using appropriate attenuators and filters, if necessary.	
If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.	
Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.	
During testing the EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.	
For final testing below 1 GHz an open field test-site is used and the plots recorded in the fully or semi anechoic room are indicated as prescans.	

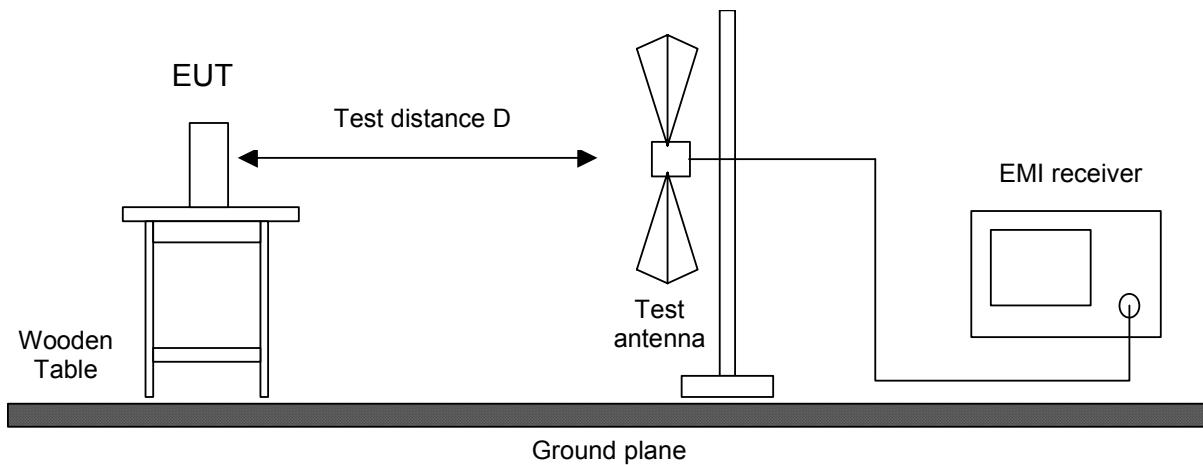


Test instruments used:

Used	Type	Model	Serial No. or ID	Manufacturer
<input checked="" type="checkbox"/>	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
<input type="checkbox"/>	Spectrum analyzer	R 3271	05050023	Advantest
<input type="checkbox"/>	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
<input checked="" type="checkbox"/>	Preamplifier	CPA9231A	3393	Schaffner
<input type="checkbox"/>	Preamplifier	R14601		Advantest
<input checked="" type="checkbox"/>	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
<input type="checkbox"/>	Preamplifier 0.5-8 GHz	AMF-4D-005080-25-13P	860149	Miteq
<input checked="" type="checkbox"/>	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
<input type="checkbox"/>	External Mixer	WM782A	845881/005	Tektronix
<input type="checkbox"/>	Harmonic Mixer	FS-Z30	843389/007	Rohde & Schwarz
	Accessories			
<input checked="" type="checkbox"/>	Trilog broadband antenna	VULB 9163	9163-188	Schwarzbeck
<input type="checkbox"/>	Horn antenna	3115	9508-4553	EMCO
<input type="checkbox"/>	Horn antenna	3160-03	9112-1003	EMCO
<input checked="" type="checkbox"/>	Horn antenna	3160-04	9112-1001	EMCO
<input checked="" type="checkbox"/>	Horn antenna	3160-05	9112-1001	EMCO
<input checked="" type="checkbox"/>	Horn antenna	3160-06	9112-1001	EMCO
<input checked="" type="checkbox"/>	Horn antenna	3160-07	9112-1008	EMCO
<input type="checkbox"/>	Horn antenna	3160-08	9112-1002	EMCO
<input type="checkbox"/>	Horn antenna	3160-09	9403-1025	EMCO
<input type="checkbox"/>	Horn antenna	3160-10	399185	EMCO
<input checked="" type="checkbox"/>	Fully anechoic room	No. 2	1452	Albatross Projects
<input type="checkbox"/>	Semi-anechoic room	No. 3	1453	Siemens

### 6.3 Radiated Emission at Open Field Test Site

<b>Measurement Procedure:</b>	
Rules and specifications:	CFR 47 Part 15, sections 15.109, 15.215(b) and 15.249 IC RSS-210 Issue 5, sections 6.2.2 (m2) and 7.3
Guide:	ANSI C63.4
Radiated emission at open field test site is measured in the frequency range 30 MHz to 1 GHz using a biconical antenna up to 300 MHz and a logarithmic periodic antenna above. The measurement bandwidth of the test receiver is set to 120 kHz with quasi-peak detector selected.	
If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.	
Hand-held or body-worn devices are tested in the position producing the highest emission relative to the limit as verified by prescans in the fully anechoic room. EUT is rotated all around and receiving antenna is raised and lowered within 1 meter to 4 meters to find the maximum levels of emission. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.	
For measuring emissions of intentional radiators and receivers a test distance D of 3 meters is selected. Testing of unintentional radiators is performed at a distance of 10 meters. If limits specified for 3 meters shall be used for measurements performed at 10 meters distance the limits are calculated according to CFR 47 Part 15 section 15.31(d) and (f)(1) using an inverse linear-distance extrapolation factor of 20 dB/decade.	

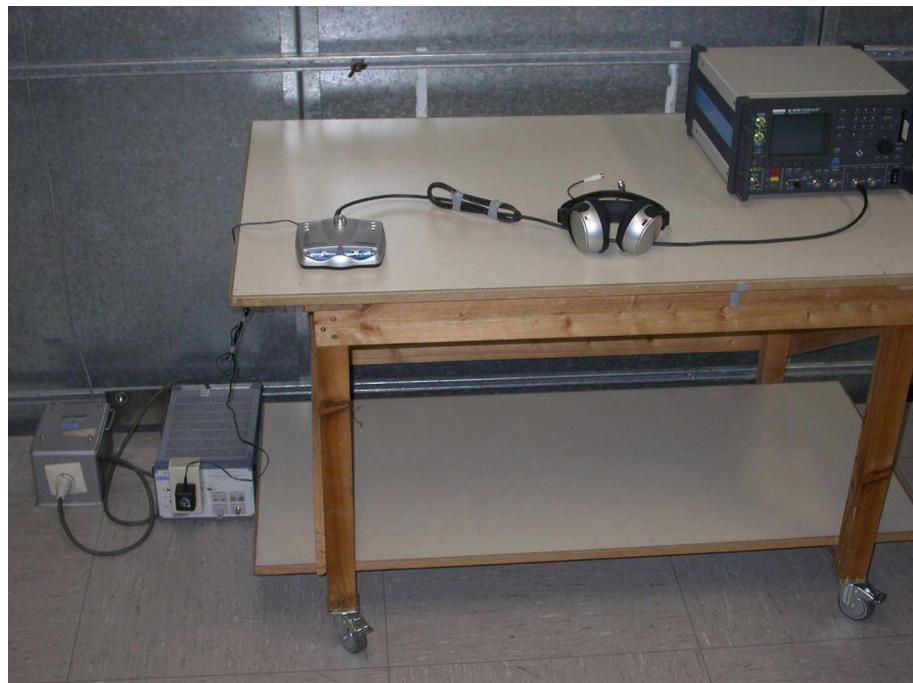


Test instruments used:

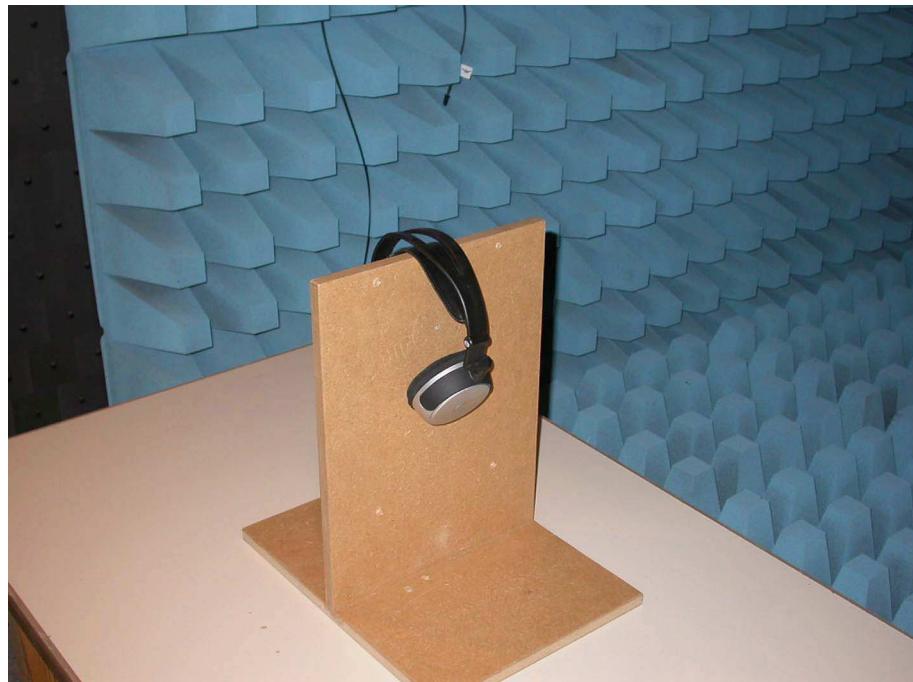
Used	Type	Model	Serial No. or ID	Manufacturer
<input checked="" type="checkbox"/>	EMI receiver	ESVP	881414/009	Rohde & Schwarz
<input checked="" type="checkbox"/>	Biconical antenna	EG 1	HK 116	Rohde & Schwarz
<input checked="" type="checkbox"/>	Log. per. antenna	EG 1	HL 223	Rohde & Schwarz
<input checked="" type="checkbox"/>	Open field test site	EG 1	1450	Senton

**7      Photographs Taken During Testing**

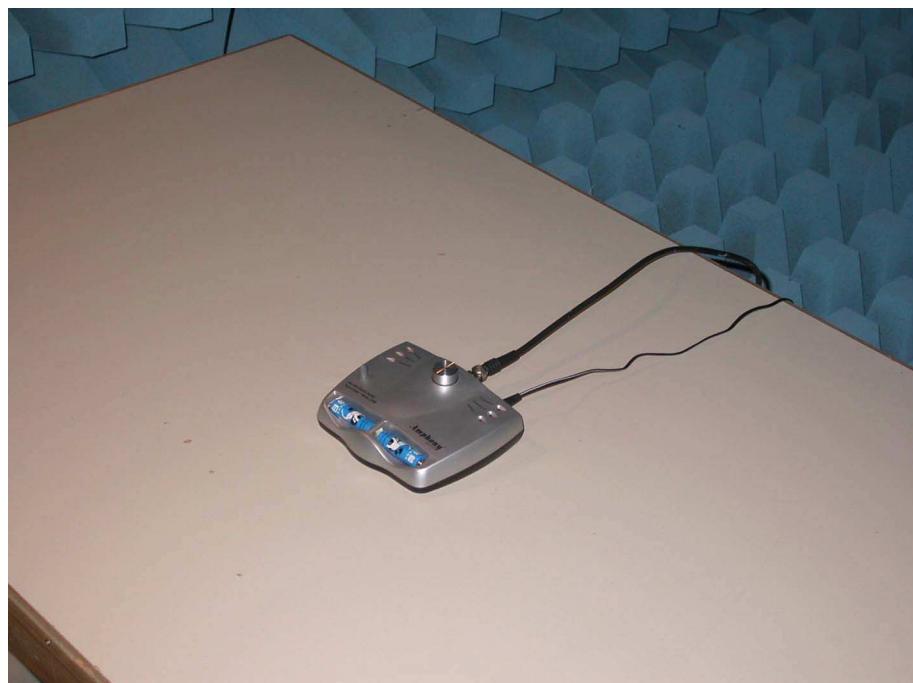
**Test setup for conducted AC powerline emission measurement**



**Test setup for radiated emission measurement  
(fully anechoic room)**



**Test setup for radiated emission measurement  
(fully anechoic room) - continued -**



## 8 Test Results for Transmitter

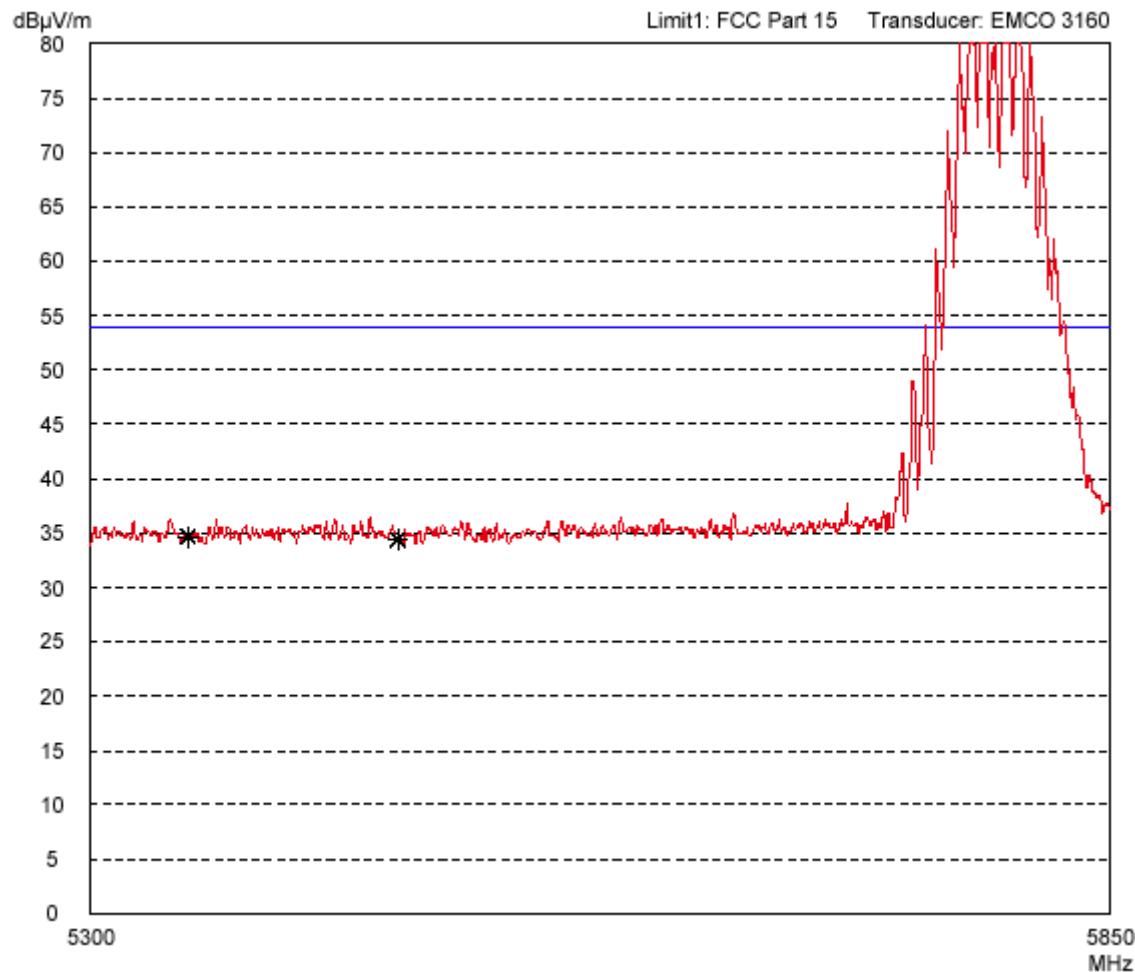
<b>FCC CFR 47 Parts 2 and 15</b>			
<b>Section(s)</b>	<b>Test</b>	<b>Page</b>	<b>Result</b>
15.205(a)	Restricted bands of operation	18	Test passed
15.207	Conducted AC powerline emission 150 kHz to 30 MHz	19	Test passed
15.205(b) 15.249	Radiated emission 9 kHz to 30 MHz	---	Not applicable according to CFR 47 Part 15, section 15.33(a)
15.205(b) 15.215(b) 15.249	Radiated emission 30 MHz to 40 GHz	21	Test passed

<b>IC RSS-210 Issue 5</b>			
<b>Section(s)</b>	<b>Test</b>	<b>Page</b>	<b>Result</b>
6.3(a)	Restricted bands and unwanted emission frequencies	18	Test passed
6.6	Transmitter AC wireline conducted emissions 450 kHz to 30 MHz	19	Test passed
6.2.2(m2) 6.3(b)-(d)	Field strength of emissions 9 kHz to 30 MHz	---	Not applicable according to IC RSS-210 Issue 5, section 6.3(e)
6.2.2(m2) 6.3(b)-(d)	Field strength of emissions 30 MHz to 40 GHz	21	Test passed

## 8.1 Restricted Bands of Operation

Rules and specifications:	CFR 47 Part 15, section 15.205(a) IC RSS-210 Issue 5, section 6.3(a)
Guide:	ANSI C63.4
Limit:	Only spurious emissions are permitted in any of the frequency bands listed in CFR 47 Part 15, section 15.205(a) or IC RSS-210 Issue 5, section 6.3(a).
Measurement procedure:	Radiated Emission in Fully or Semi Anechoic Room (6.2)

Comment:	---
Date of test:	May 14, 2005
Test site:	Fully anechoic room, cabin no. 2
Test distance:	3 meters



Test Result:	Test passed
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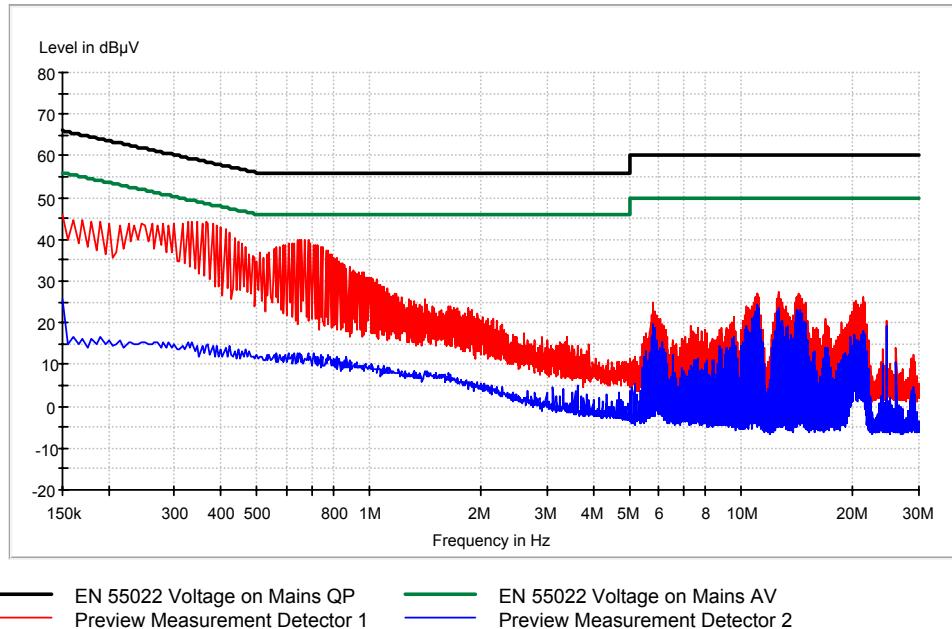
## 8.2 Conducted Powerline Emission Measurement 150 kHz to 30 MHz

Rules and specifications:	CFR 47 Part 15, section 15.207 IC RSS-210 Issue 5, section 6.6			
Guide:	ANSI C63.4 / CISPR 22			
Limit:	CFR 47 Part 15			IC RSS-210
	Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)		Frequency of Emission (MHz)
		Quasi-peak	Average	Quasi-peak
	0.15 - 0.5	66 to 56	56 to 46	0.45 - 30
	0.5 - 5	56	46	
	5 - 30	60	50	
Measurement procedure:	Conducted AC Powerline Emission (6.1)			

Comment:	---
Date of test:	June 29, 2005
Test site:	Shielded room, cabin no. 1

Test Result:	Test passed
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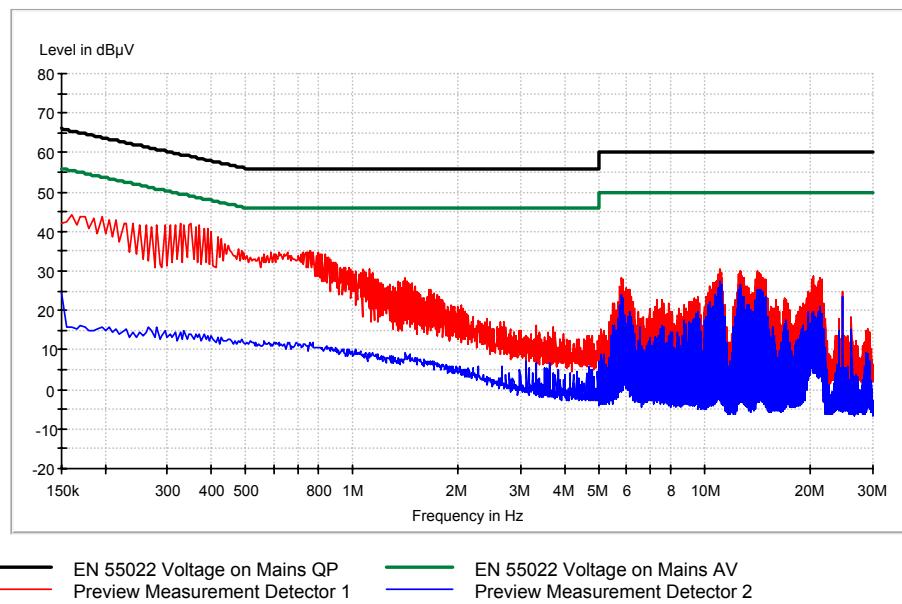
Tested on:	Power line, L1
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Quasipeak				Average			
Frequency(MHz)	Level(dB $\mu$ V)	Limit(dB $\mu$ V)	Margin(dB)	Frequency(MHz)	Level(dB $\mu$ V)	Limit(dB $\mu$ V)	Margin(dB)
0.15 - 30			> 10	0.15 - 30			> 10

Tested on:

Power line, N



Quasipeak			
Frequency( MHz)	Level(dB $\mu$ V)	Limit(dB $\mu$ V)	Margin(dB)
0.15 -30			> 10

Average			
Frequency( MHz)	Level(dB $\mu$ V)	Limit(dB $\mu$ V)	Margin(dB)
0.15 - 30			> 10

#### Sample calculation of final values:

$$\text{Final Value (dB}\mu\text{V)} = \text{Reading Value (dB}\mu\text{V)} + \text{Correction Factor (dB)}$$

### 8.3 Radiated Emission Measurement 30 MHz to 40 GHz

Rules and specifications:	CFR 47 Part 15, sections 15.215(b) and 15.249 IC RSS-210 Issue 5, section 6.2.2 (m2)		
Guide:	ANSI C63.4		
Limit:	Frequency of Emission (MHz)	Field Strength ( $\mu$ V/m)	Field Strength (dB $\mu$ V/m)
	30 - 88	100	40.0
	88 - 216	150	43.5
	216 - 960	200	46.0
	Above 960	500	54.0
Additionally, the level of any unwanted emissions shall not exceed the level of the fundamental emission.			
Measurement procedures:	Radiated Emission in Fully or Semi Anechoic Room (6.2) Radiated Emission at Open Field Test Site (6.3)		

Comment:	---
Date of test:	May 12 to 14 and June 23, 2005
Test site:	Frequencies $\leq$ 1 GHz: Open field test site Frequencies $>$ 1 GHz: Fully anechoic room, cabin no. 2
Test distance:	3 meters

Test Result:	Test passed
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Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dB $\mu$ V)	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
97.900	vertical	Quasi-Peak	15.7	14.3		30.0	43.5	13.5
136.700	horizontal	Quasi-Peak	25.2	9.8		35.0	43.5	8.5
150.280	horizontal	Quasi-Peak	25.4	9.6		35.0	43.5	8.5
159.980	horizontal	Quasi-Peak	24.9	10.0		35.0	43.5	8.5
176.147	horizontal	Quasi-Peak	24.1	10.8		34.9	43.5	8.6
189.727	horizontal	Quasi-Peak	25.9	11.9		37.8	43.5	5.7
202.660	vertical	Quasi-Peak	24.2	12.1		36.3	43.5	7.2
215.593	vertical	Quasi-Peak	24.4	12.5		36.9	43.5	6.7
228.527	vertical	Quasi-Peak	26.2	13.0		39.2	46.0	6.8
242.107	horizontal	Quasi-Peak	24.5	13.5		38.0	46.0	8.0
255.040	horizontal	Quasi-Peak	21.6	13.5		35.1	46.0	10.9
282.847	horizontal	Quasi-Peak	23.3	14.2		37.5	46.0	8.5
2896.000	vertical	Quasi-Peak	14.0	36.2		50.2	54.0	3.8

**Sample calculation of final values:**

$$\text{Final Value (dB}\mu\text{V/m)} = \text{Reading Value (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} \\ + \text{Pulse Train Correction (dB)}$$

## 9 Test Results for Receiver

<b>FCC CFR 47 Part 15</b>			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
15.107	Conducted AC powerline emission 150 kHz to 30 MHz	---	Not applicable
15.109	Radiated emission 30 MHz to 29 GHz	24	Test passed
15.111(a)	Antenna power conduction emission of receivers 9 kHz to 29 GHz	---	Not applicable

<b>IC RSS-210 Issue 5</b>			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
7.4	Receiver AC wireline conducted emissions 450 kHz to 30 MHz	---	Not applicable
7.3	Receiver spurious emissions (Radiated) 30 MHz to 29 GHz	24	Test passed
7.2	Receiver spurious emissions (Antenna Conducted) 9 kHz to 29 GHz	---	Not applicable

## 9.1 Radiated Emission Measurement 30 MHz to 29 GHz

Rules and specifications:	CFR 47 Part 15, section 15.109 (Class B) IC RSS-210 Issue 5, section 7.3		
Guide:	ANSI C63.4		
Limit:	Frequency of Emission (MHz)	Field Strength ( $\mu$ V/m)	Field Strength (dB $\mu$ V/m)
	30 - 88	100	40.0
	88 - 216	150	43.5
	216 - 960	200	46.0
Measurement procedures:	Above 960	500	54.0
	Radiated Emission in Fully or Semi Anechoic Room (6.2) Radiated Emission at Open Field Test Site (6.3)		

Comment:	---
Date of test:	May 14 and June 23, 2004
Test site:	Frequencies $\leq$ 1 GHz: Open field test site Frequencies $>$ 1 GHz: Fully anechoic room, cabin no. 2
Test distance:	3 meters

Test Result:	Test passed
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Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dB $\mu$ V)	Correction Factor (dB/m)	Final Value (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
164.507	horizontal	Quasi-Peak	23.8	10.2	34.0	43.5	9.5

### Sample calculation of field final values:

$$\text{Final Value (dB $\mu$ V/m)} = \text{Reading Value (dB $\mu$ V)} + \text{Correction Factor (dB/m)}$$

## 10 Referenced Regulations

All tests were performed with reference to the following regulations and standards:

<input checked="" type="checkbox"/>	CFR 47 Part 2	Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC)	October 10, 2004
<input checked="" type="checkbox"/>	CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	April 5, 2005
<input checked="" type="checkbox"/>	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	December 11, 2003 (published on January 30, 2004)
<input checked="" type="checkbox"/>	RSS-210	Radio Standards Specification RSS-210 Issue 5 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands), published by Industry Canada	November 2001
<input checked="" type="checkbox"/>	RSS-102	Radio Standards Specification RSS-102 Issue 1: Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields, published by Industry Canada	September 1999
<input type="checkbox"/>	ICES-003	Interference-Causing Equipment Standard ICES-003 Issue 4 for Digital Apparatus, published by Industry Canada	February 2004
<input checked="" type="checkbox"/>	CISPR 22	Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment – Radio Disturbance Characteristics – Limits and Methods of Measurement"	1997
<input type="checkbox"/>	CAN/CSA-CEI/IEC CISPR 22	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	2002
<input checked="" type="checkbox"/>	TRC-43	Notes Regarding Designation of Emission (Including Necessary Bandwidth and Classification), Class of Station and Nature of Service, published by Industry Canada	October 9, 1982

**11 Charts taken during testing**

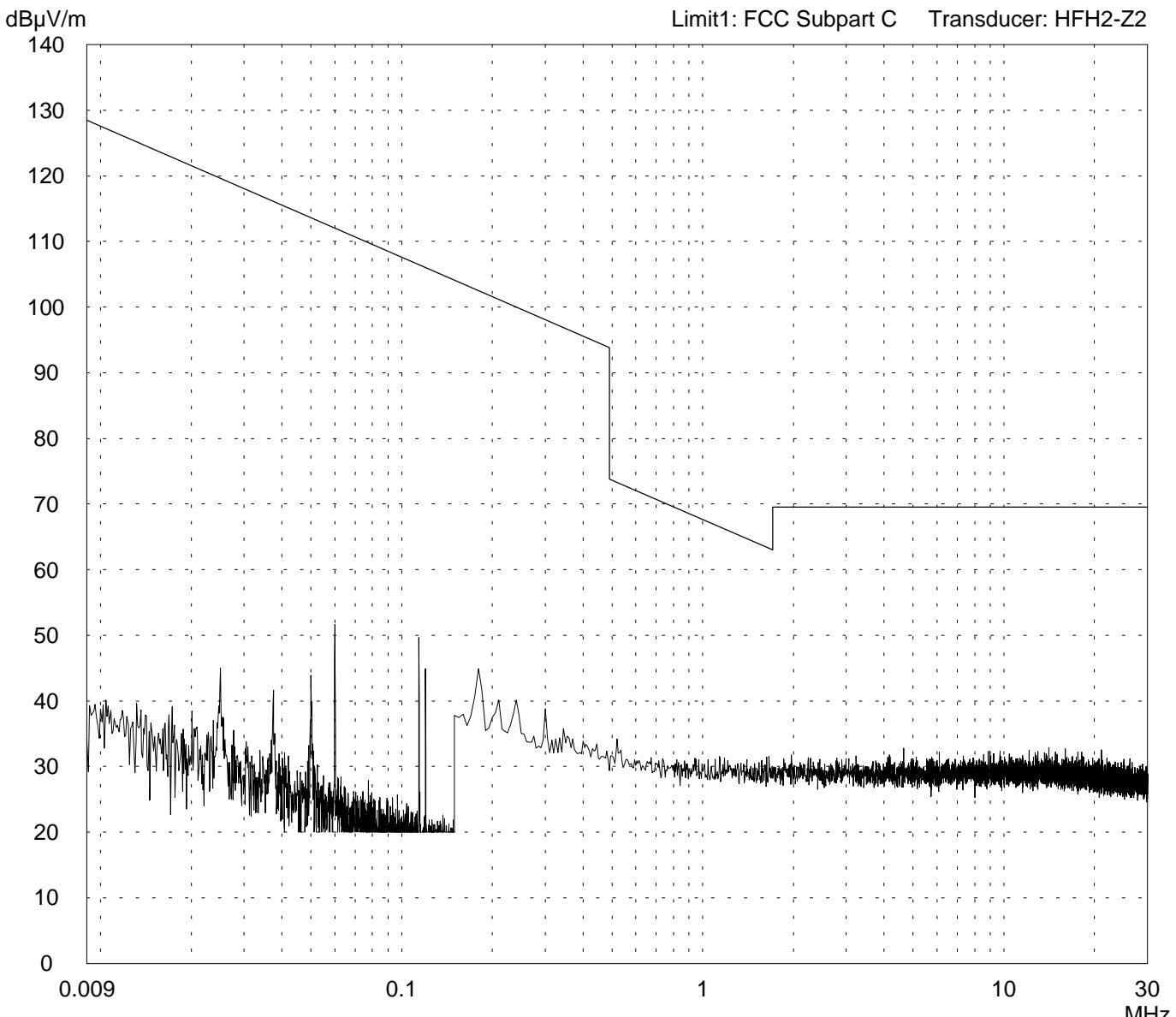
# Radiated Emission Test 9 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: H 2500	
Serial no.: 0001	
Applicant: Amphony	
Test site: Shielded room, cabin no. 1	
Tested on: Test distance 3 metres	
Date of test: 07/15/2005	Operator: J. Roidt
Test performed: automatically	File name:

Mode: TX active
--------------------

Detector: Peak / Final Results: QP
---------------------------------------

Final results: 20 dB Margin	25 Subranges
--------------------------------	--------------



Result: Limit kept
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Project file: 00000-00000	Page	of	Pages
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# Radiated Emission Test 30 MHz - 1 GHz

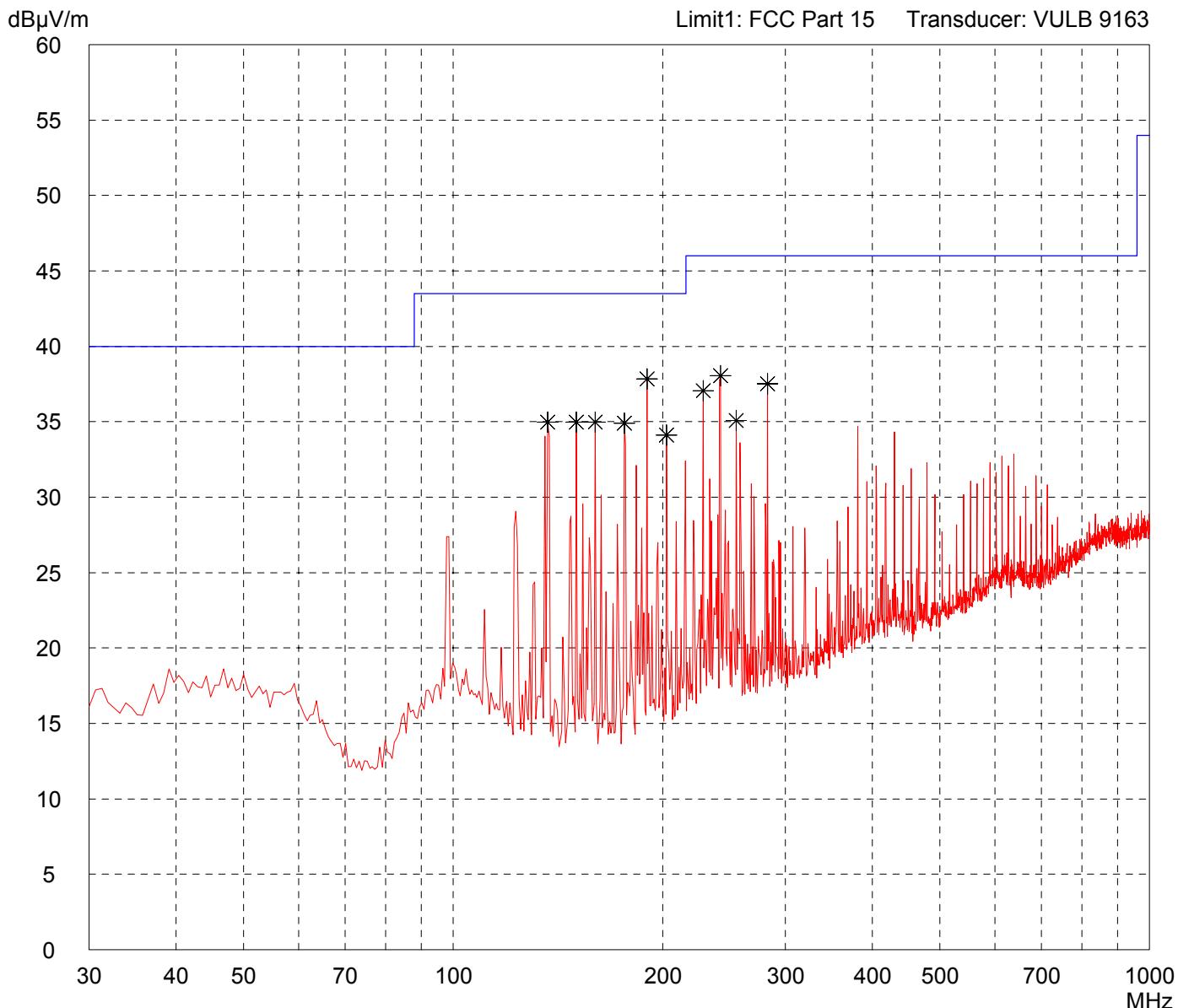
## acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 05/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:
- AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal: 1Vpp @ 1kHz
- transmitting continuously

Detector: Peak
-------------------

List of values: Selected by hand
-------------------------------------



Result: Prescan
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Project file: 50104-40281-1	Page of Pages
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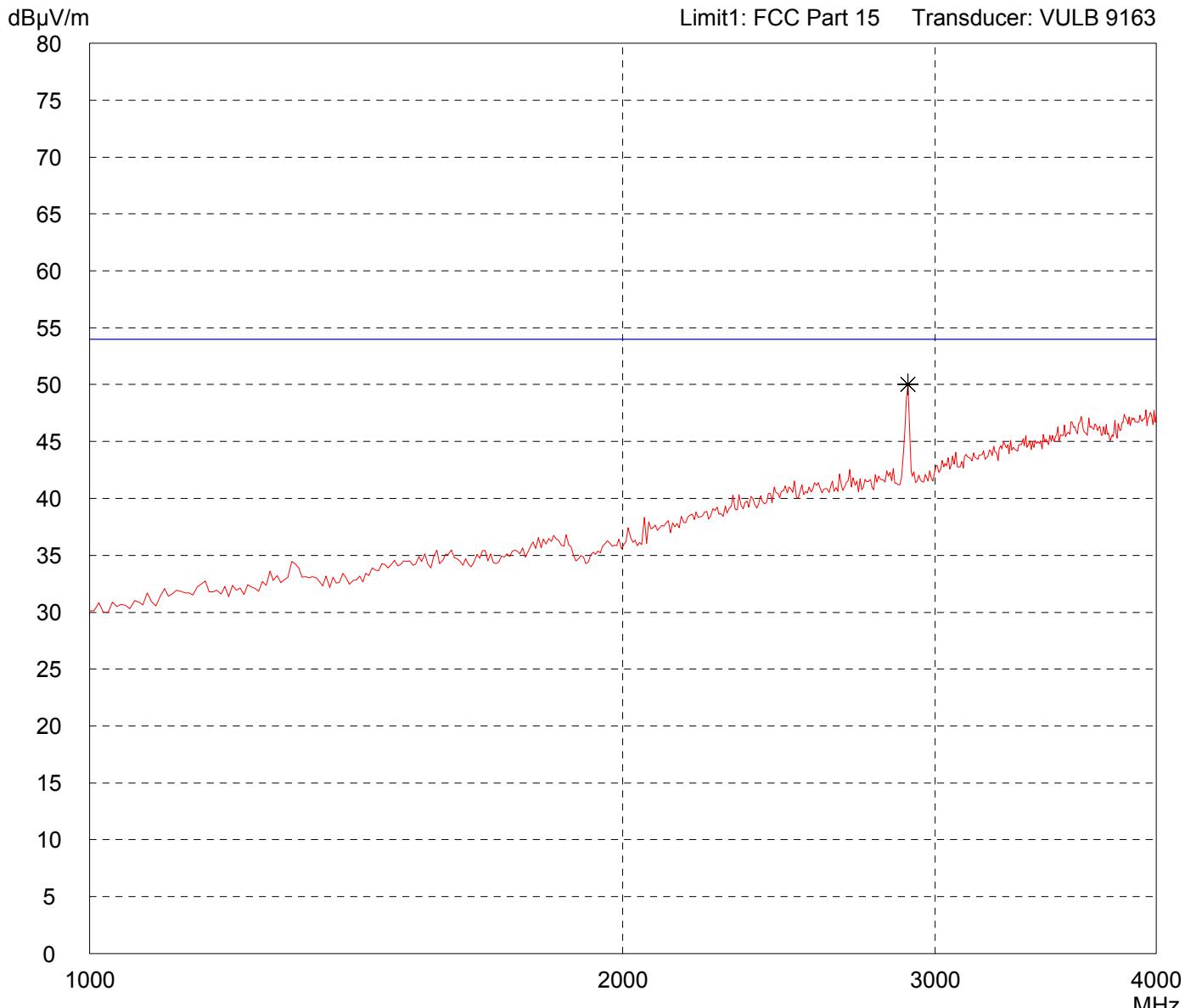
**Radiated Emission Test 1 GHz - 4 GHz**  
**acc. to FCC Part 15.225 (Fully Anechoic Chamber)**

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 05/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - AC 115 V power supply (DC 9 V) - all cables connected - Audio-signal: 1Vpp @ 1kHz - transmitting continuously
--

Detector: Peak
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List of values: Selected by hand
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Result: Prescan
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Project file: 50104-40281-1	Page	of	Pages
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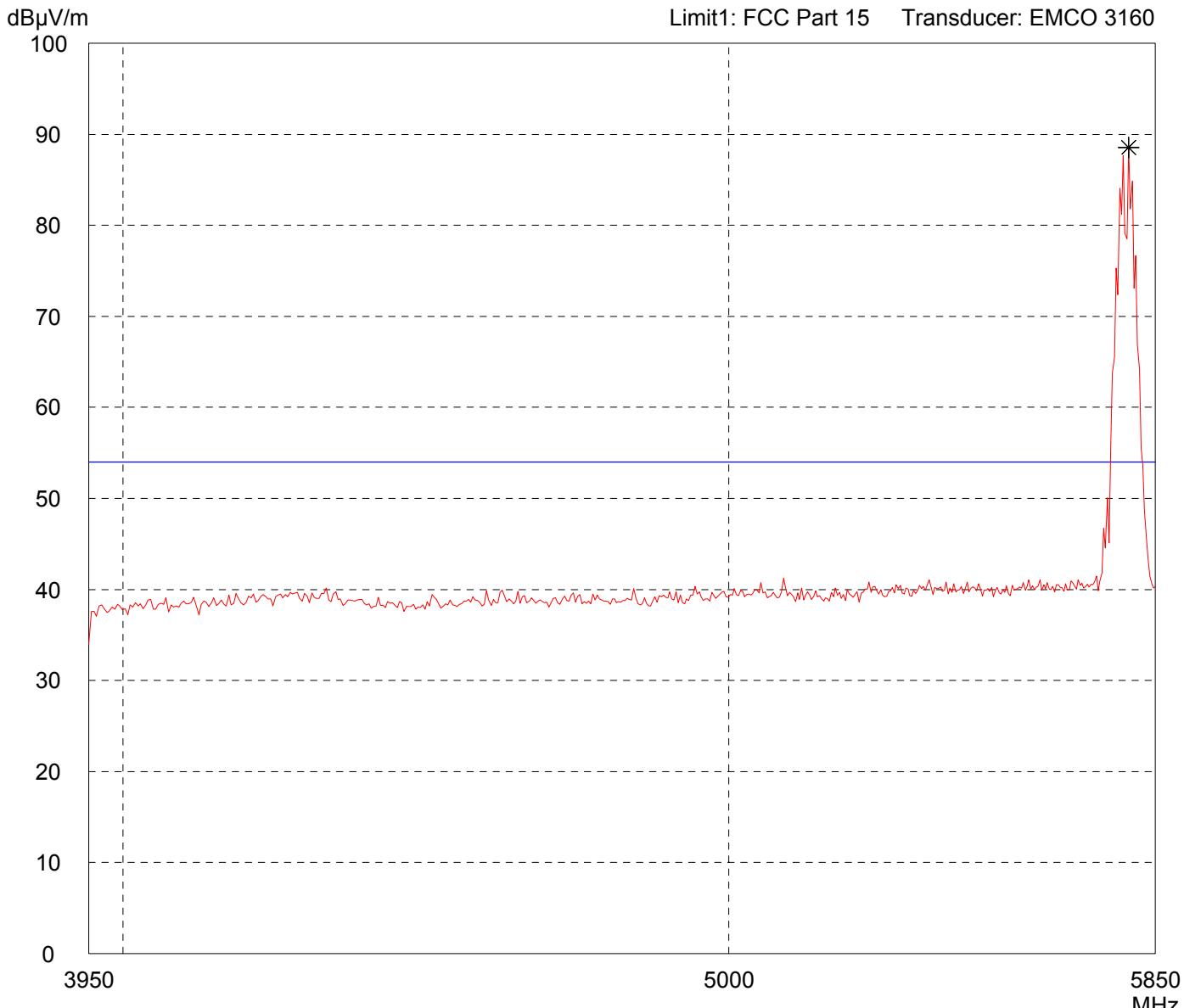
# Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - AC 115 V power supply (DC 9 V) - all cables connected - Audio-signal: 1Vpp @ 1kHz - transmitting continuously
--

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Prescan
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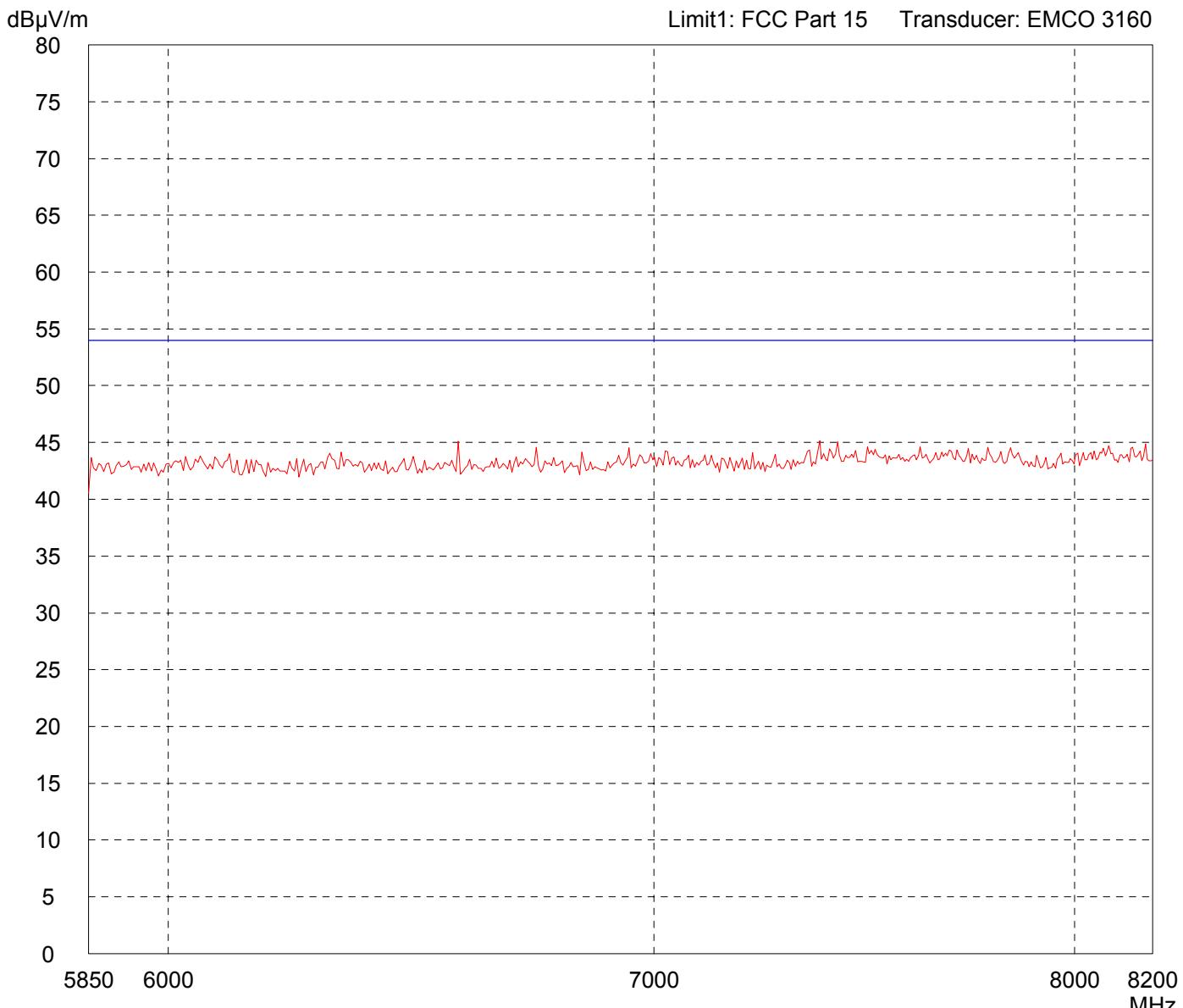
# Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - AC 115 V power supply (DC 9 V) - all cables connected - Audio-signal: 1Vpp @ 1kHz - transmitting continuously
--

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Prescan
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# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

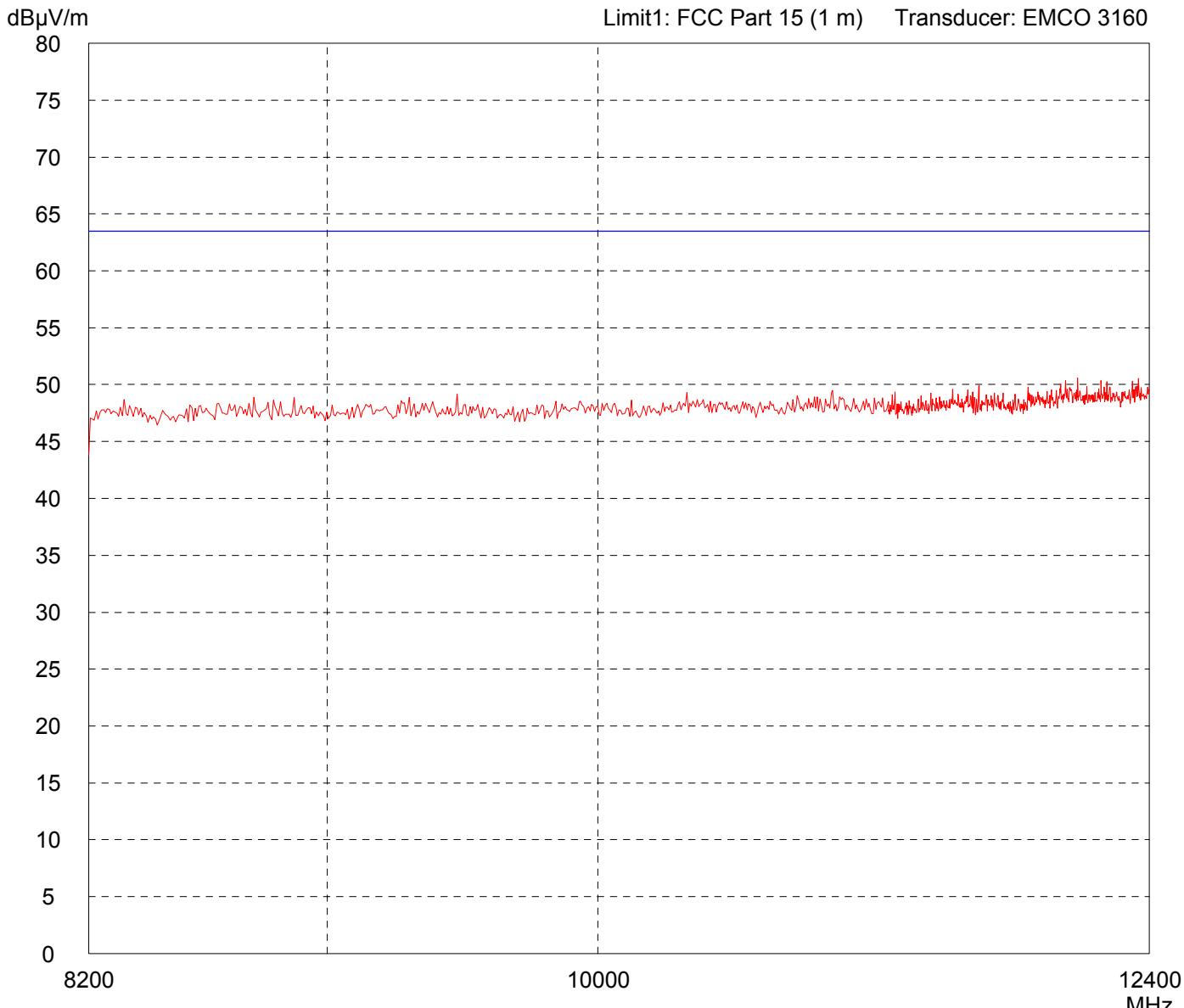
Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:
- AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal: 1Vpp @ 1kHz
- transmitting continuously

Detector: Peak
-------------------

List of values:
10 dB Margin

50 Subranges



Result: Prescan
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# Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:
- AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal: 1Vpp @ 1kHz
- transmitting continuously

Detector: Peak
-------------------

List of values: Selected by hand
-------------------------------------

dB $\mu$ V/m

80

75

70

65

60

55

50

45

40

35

30

25

20

15

10

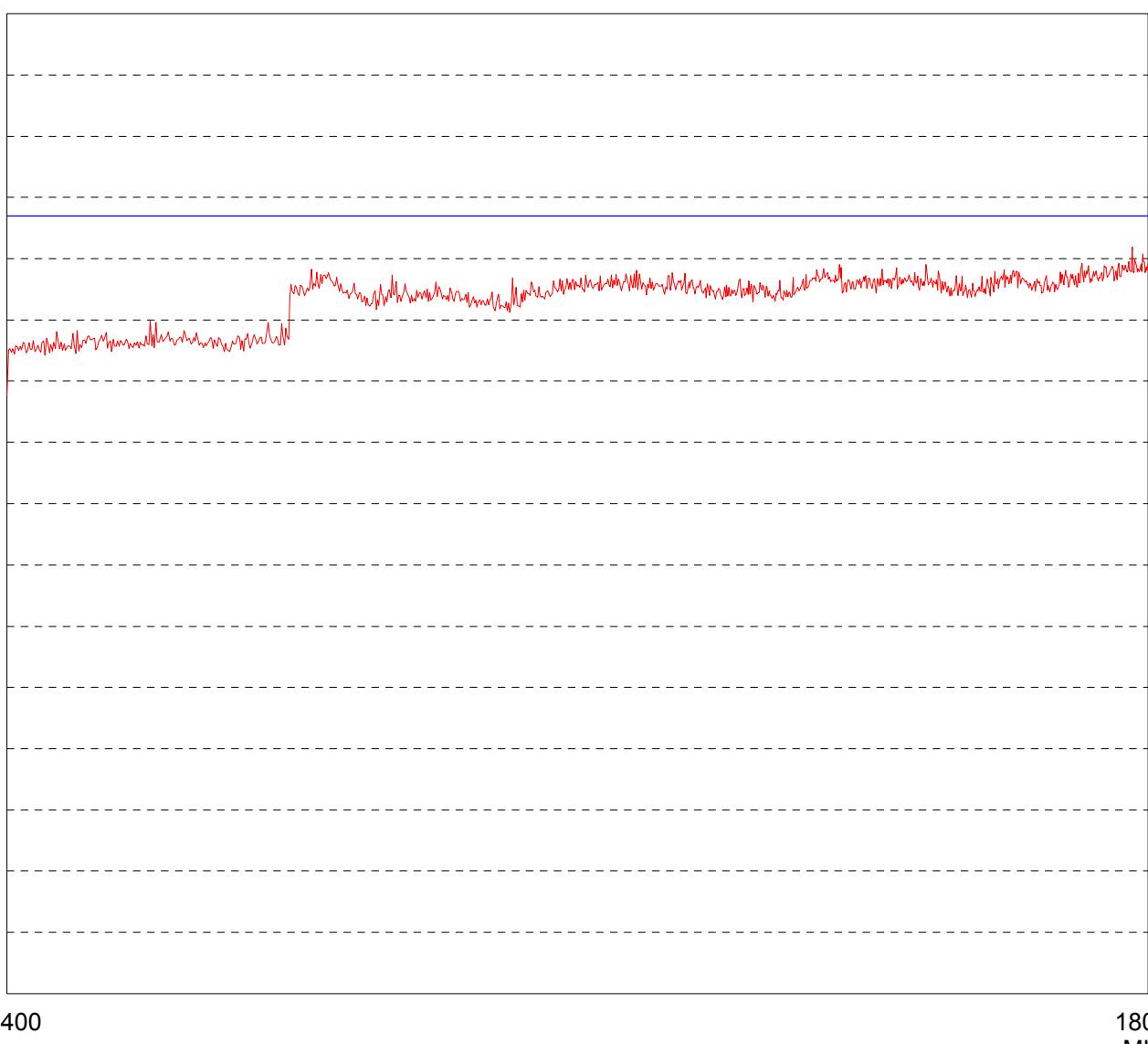
5

0

12400

18000  
MHz

Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160



Result:

Prescan

Project file:

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## Radiated Emission Test 18 GHz - 26.5 GHz acc. to FCC Part 15.225

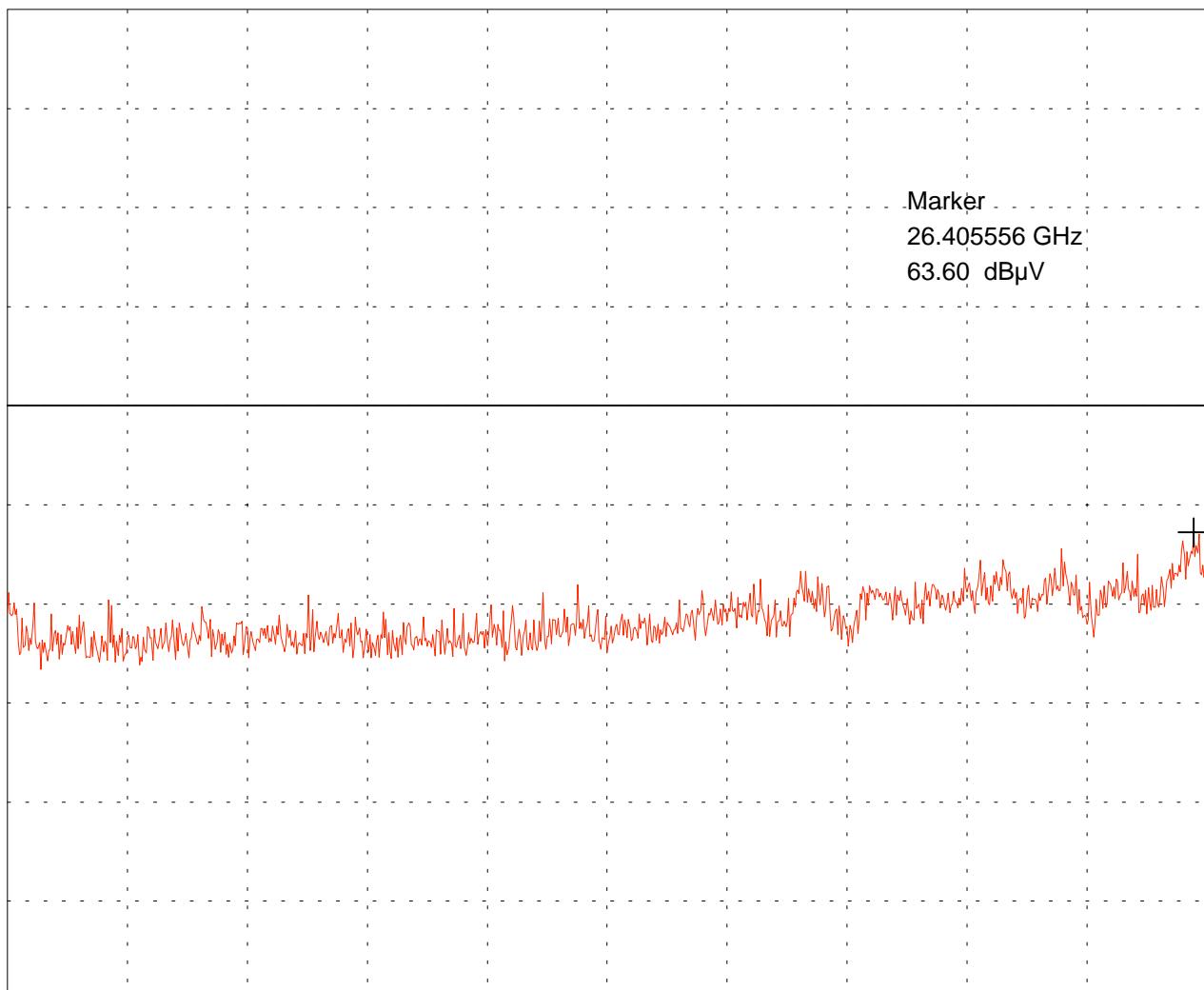
Model: 2500 (H2500) - Transmitter
Serial No.: 02
Applicant: Amphony GmbH

Mode: - AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal 1 Vpp @ 1 kHz
- transmitting continuously
- test distance: 0.5 m
- polarisation: horizontal

Ref.Level 90 dB $\mu$ V  
5 dB/Div.

ATT 0 dB

Ref. Offset 43 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

Tested by: Martin Steindl
Date: 06/23/2004

Project-No.:
50104-40281
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## Radiated Emission Test 26 GHz - 29 GHz acc. to FCC Part 15.225

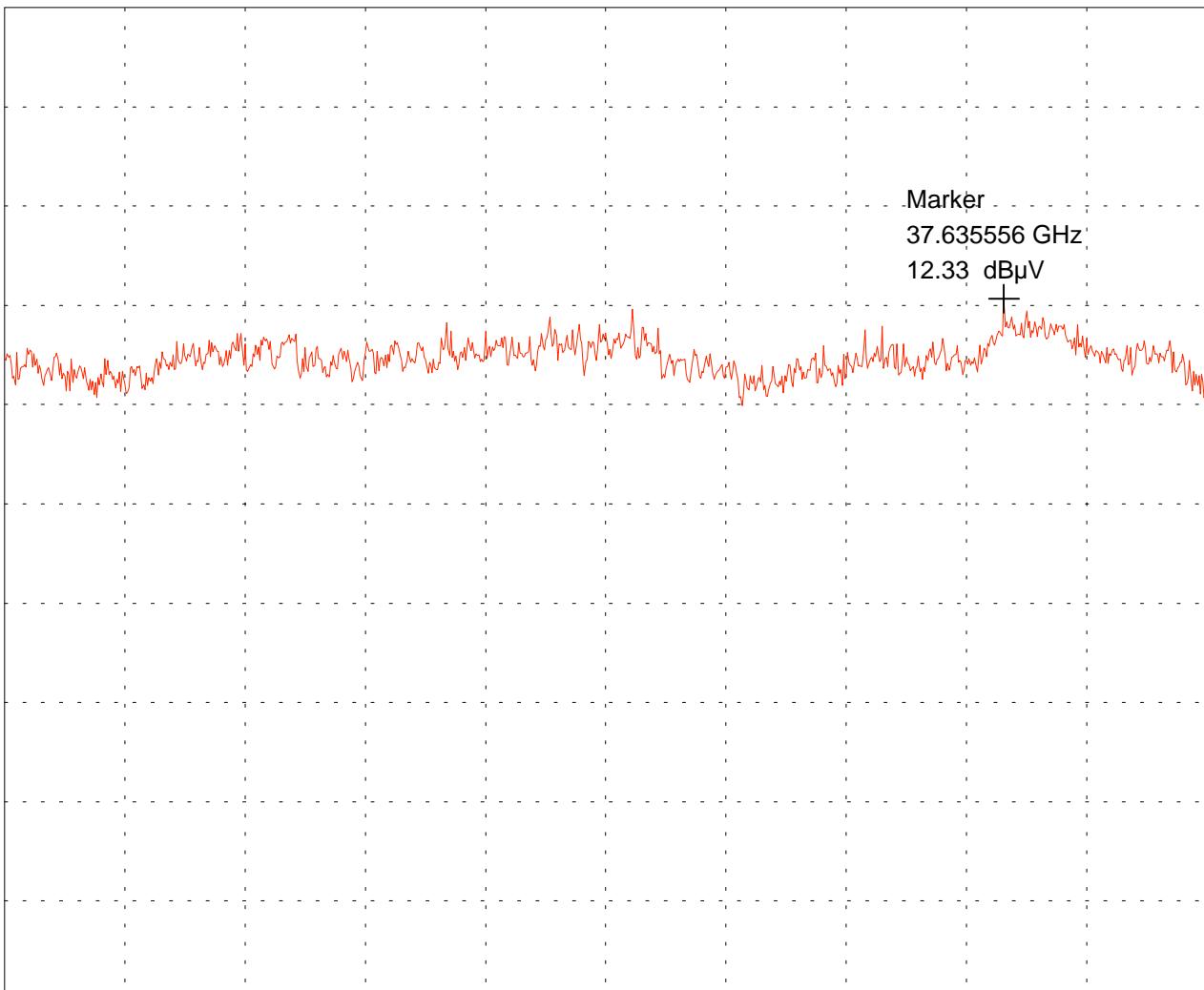
Model: 2500 (H2500) - Transmitter
Serial No.: 01
Applicant: Amphony GmbH

Mode: - AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal 1 Vpp @ 1 kHz
- transmitting continuously
- test distance: 0.25 m
- polarisation: horizontal

Ref.Level 27 dB $\mu$ V

ATT 0 dB

5 dB/Div.



Start 26.000 GHz  
RBW 1 MHz

VBW 100 kHz

Stop 40.000 GHz  
SWP 420 ms

Tested by: Martin Steindl
Date: 06/23/2004

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# Radiated Emission Test 30 MHz - 1 GHz

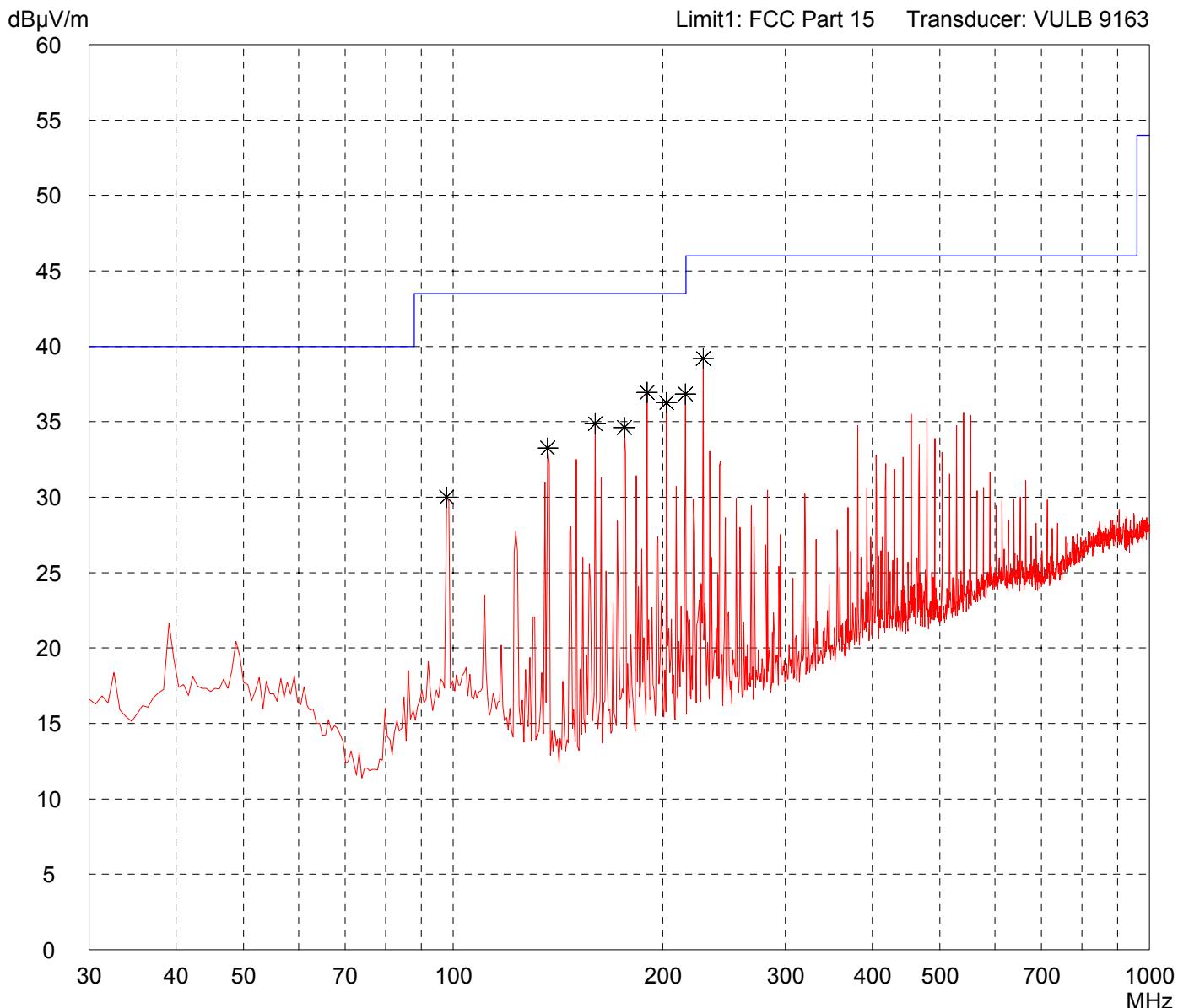
## acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 05/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:
- AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal: 1Vpp @ 1kHz
- transmitting continuously

Detector: Peak
-------------------

List of values: Selected by hand
-------------------------------------

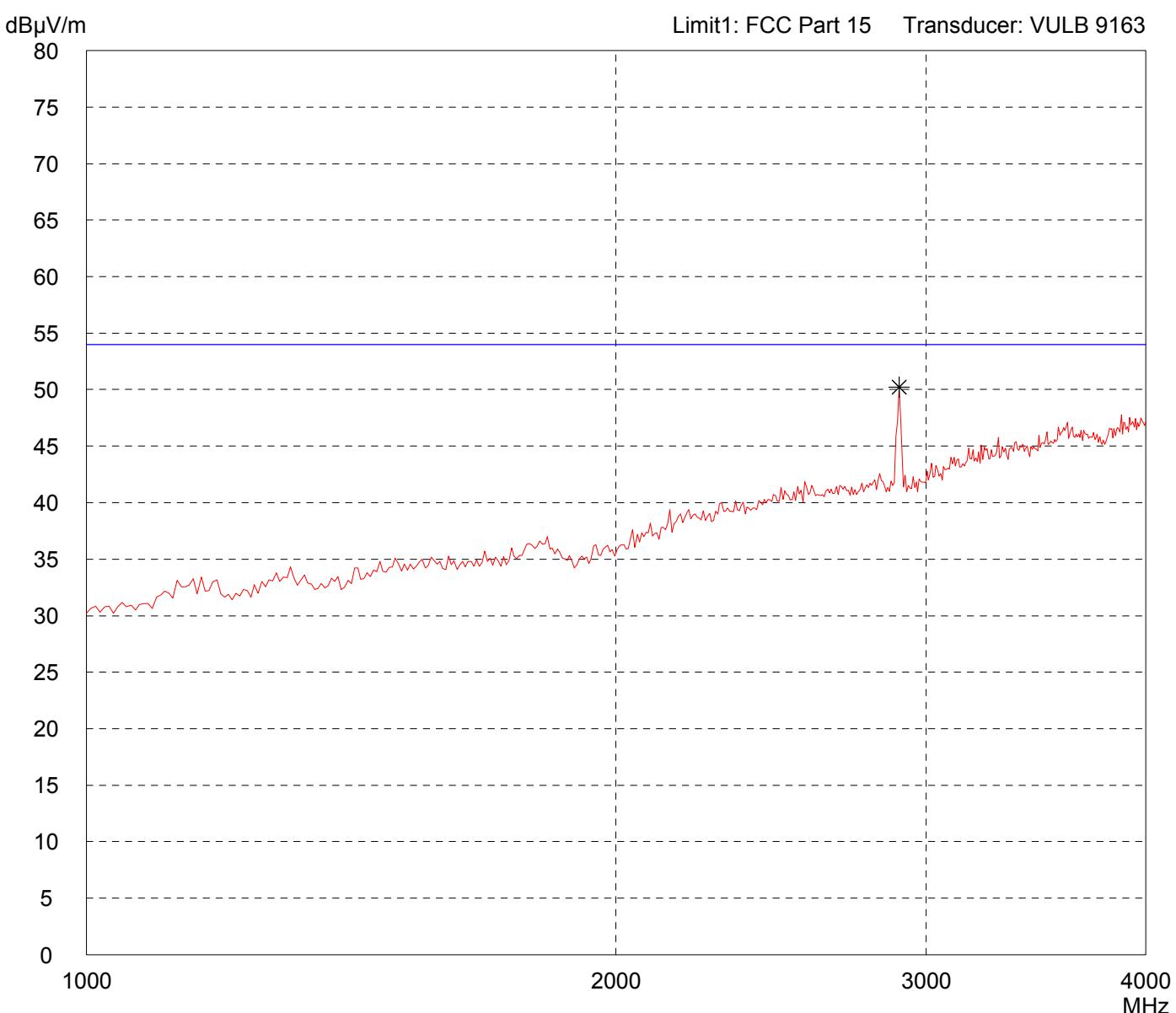


Result: Prescan
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## Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: 2500 (H2500) - Transmitter	Comment: - AC 115 V power supply (DC 9 V)
Serial no.: 01	- all cables connected - Audio-signal: 1Vpp @ 1kHz
Applicant: Amphony GmbH	- transmitting continuously
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 05/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector: Peak	List of values: Selected by hand



Result:  
Prescan

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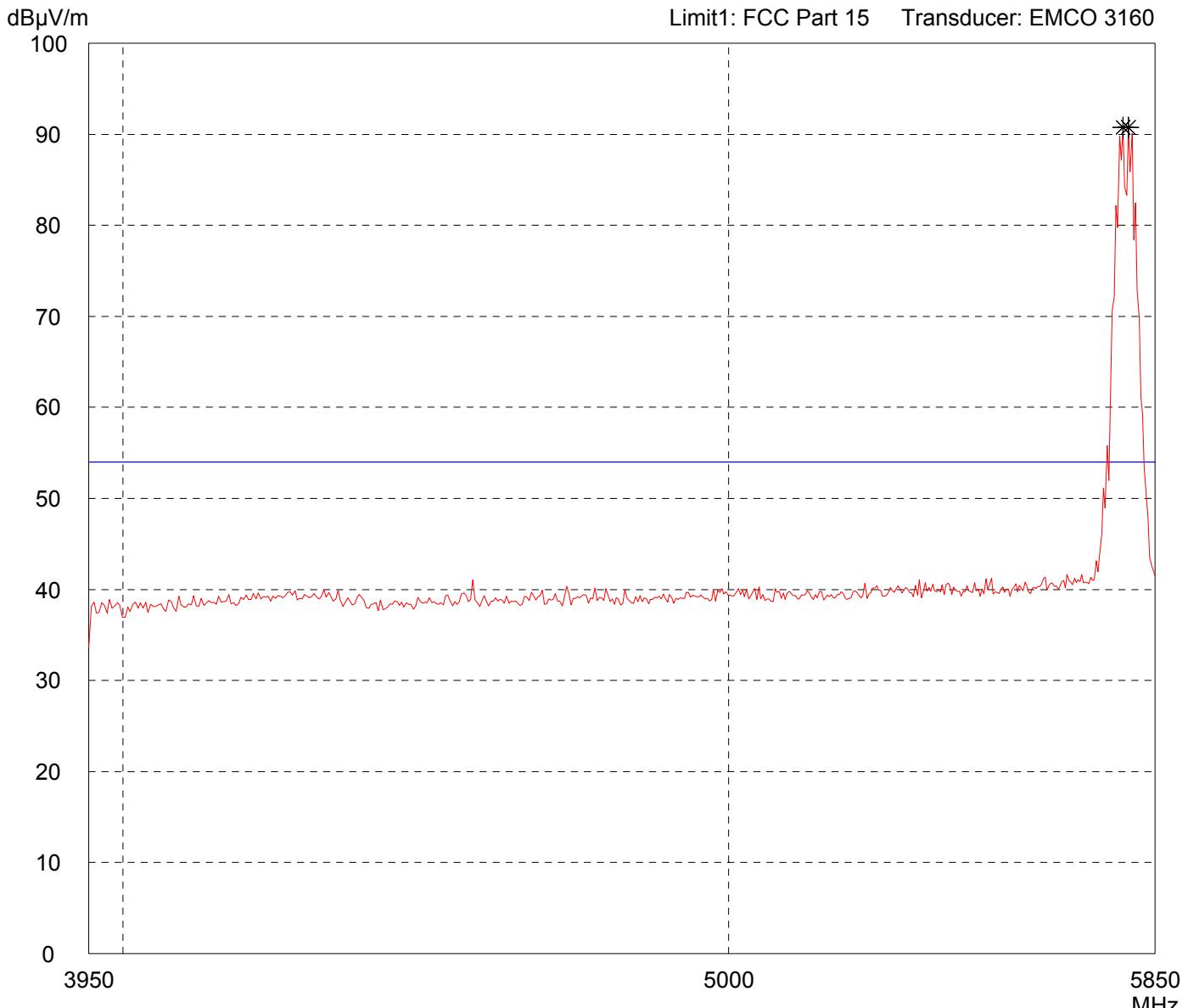
# Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - AC 115 V power supply (DC 9 V) - all cables connected - Audio-signal: 1Vpp @ 1kHz - transmitting continuously
--

Detector: Peak
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List of values: Selected by hand
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Result: Prescan
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# Radiated Emission Test 5.85 GHz - 8.2 GHz

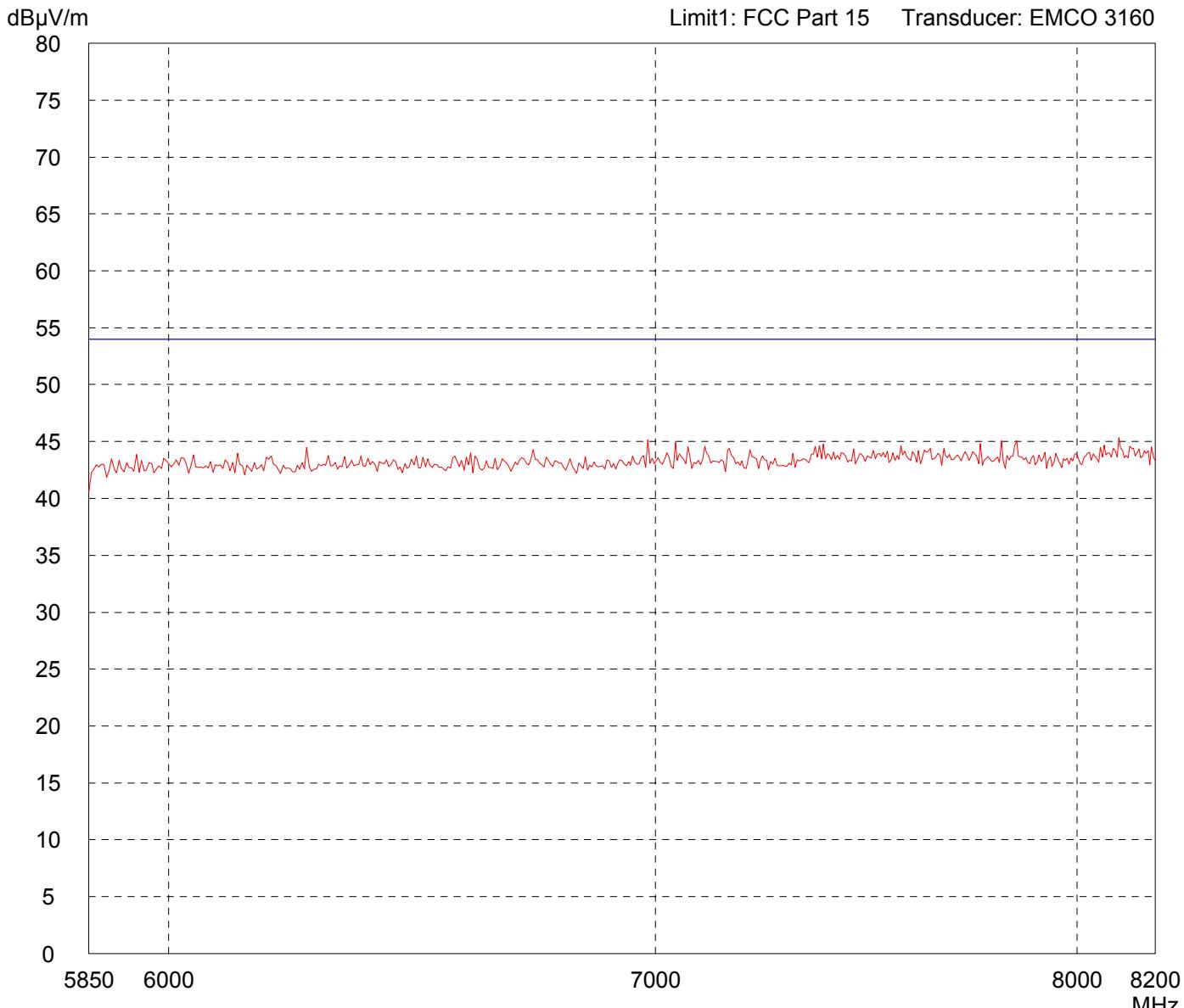
## acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:
- AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal: 1Vpp @ 1kHz
- transmitting continuously

Detector: Peak
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List of values: Selected by hand
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Result: Prescan
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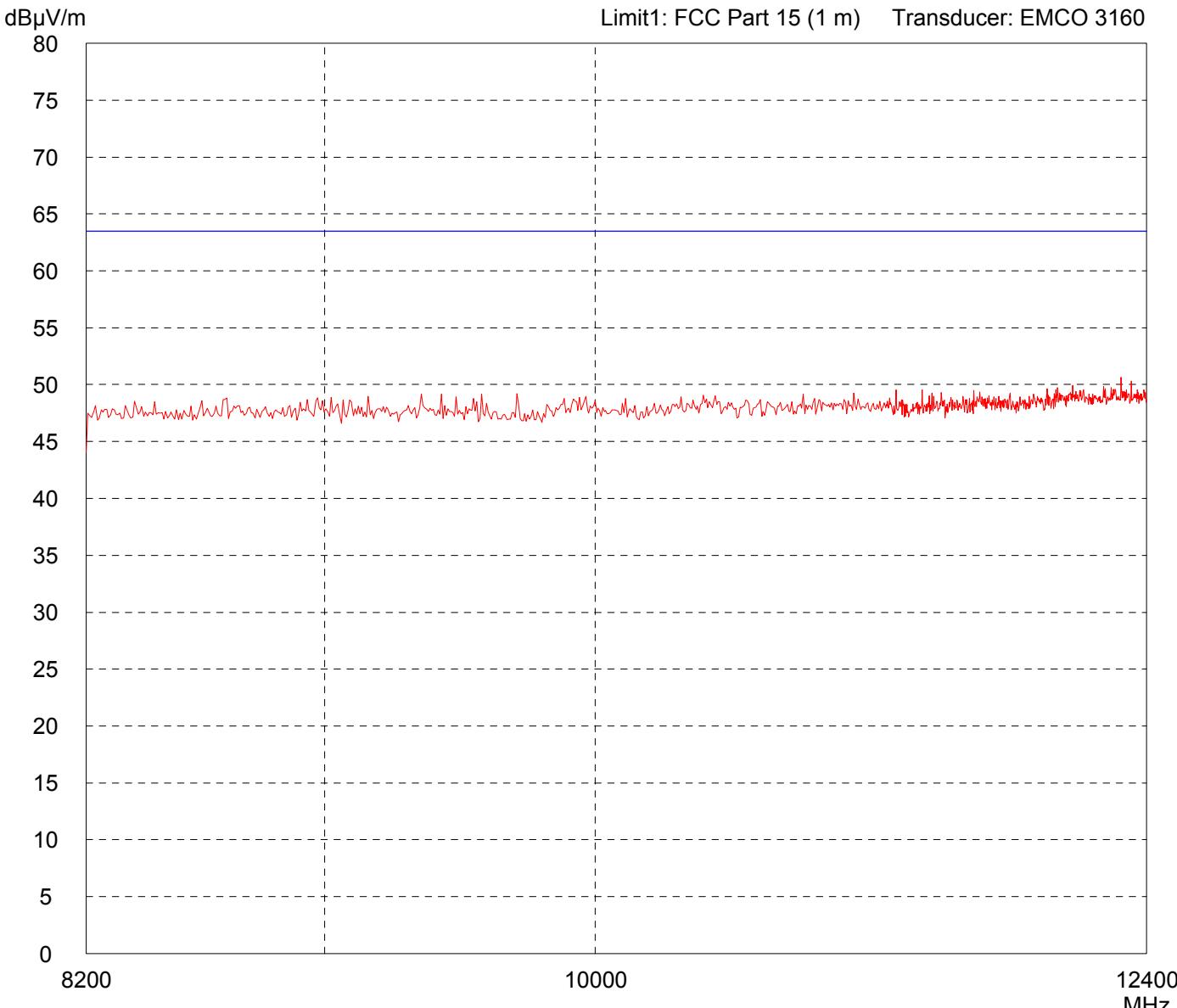
# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:
- AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal: 1Vpp @ 1kHz
- transmitting continuously

Detector: Peak
-------------------

List of values:
10 dB Margin



Result: Prescan
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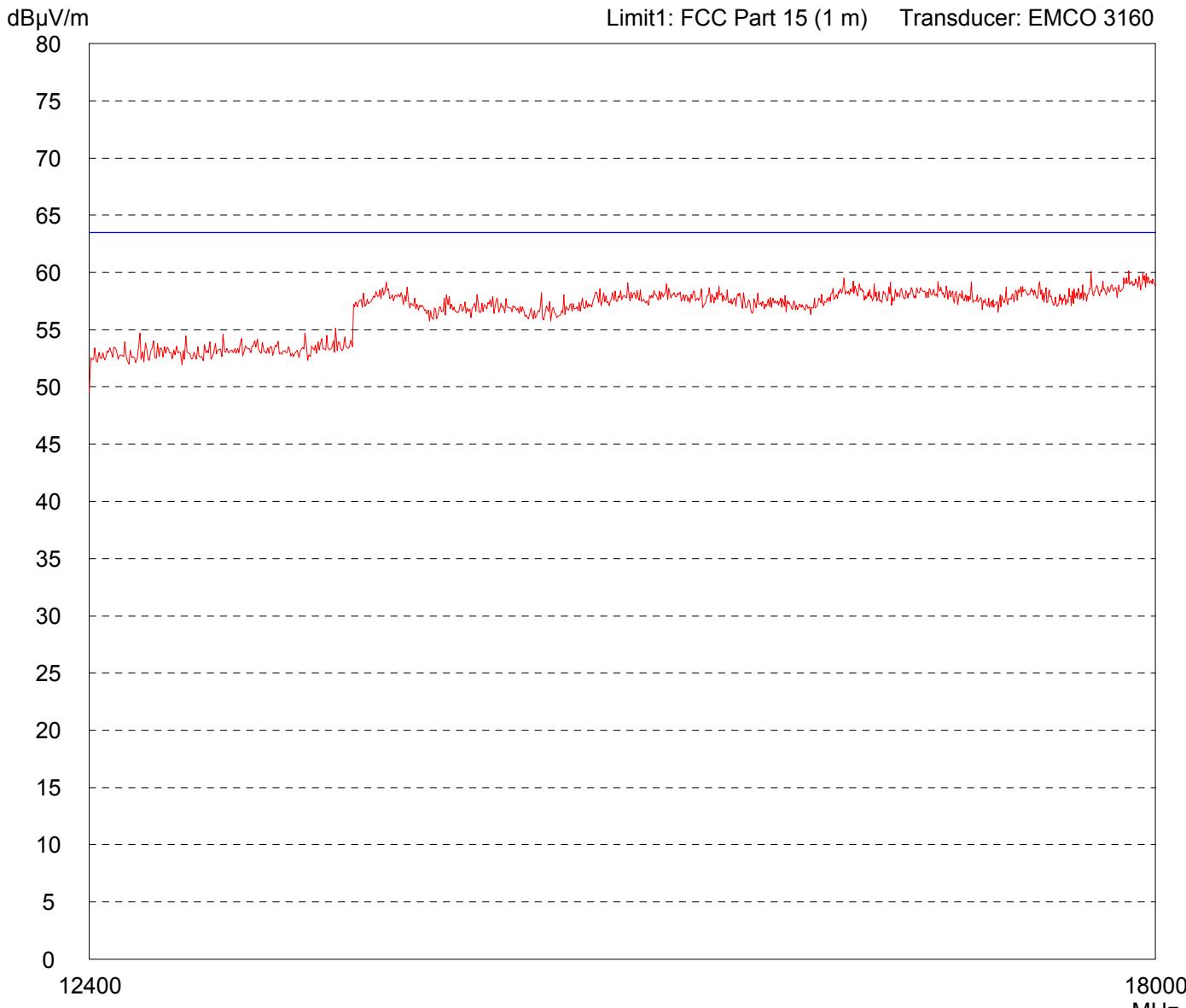
# Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Transmitter	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - AC 115 V power supply (DC 9 V) - all cables connected - Audio-signal: 1Vpp @ 1kHz - transmitting continuously
--

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Prescan
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Project file: 50104-40281-1
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Radiated Emission Test 18 GHz - 26.5 GHz acc. to FCC Part 15.225

Model:  
2500 (H2500) - Transmitter

Serial No.:  
02

Applicant:  
Amphony GmbH

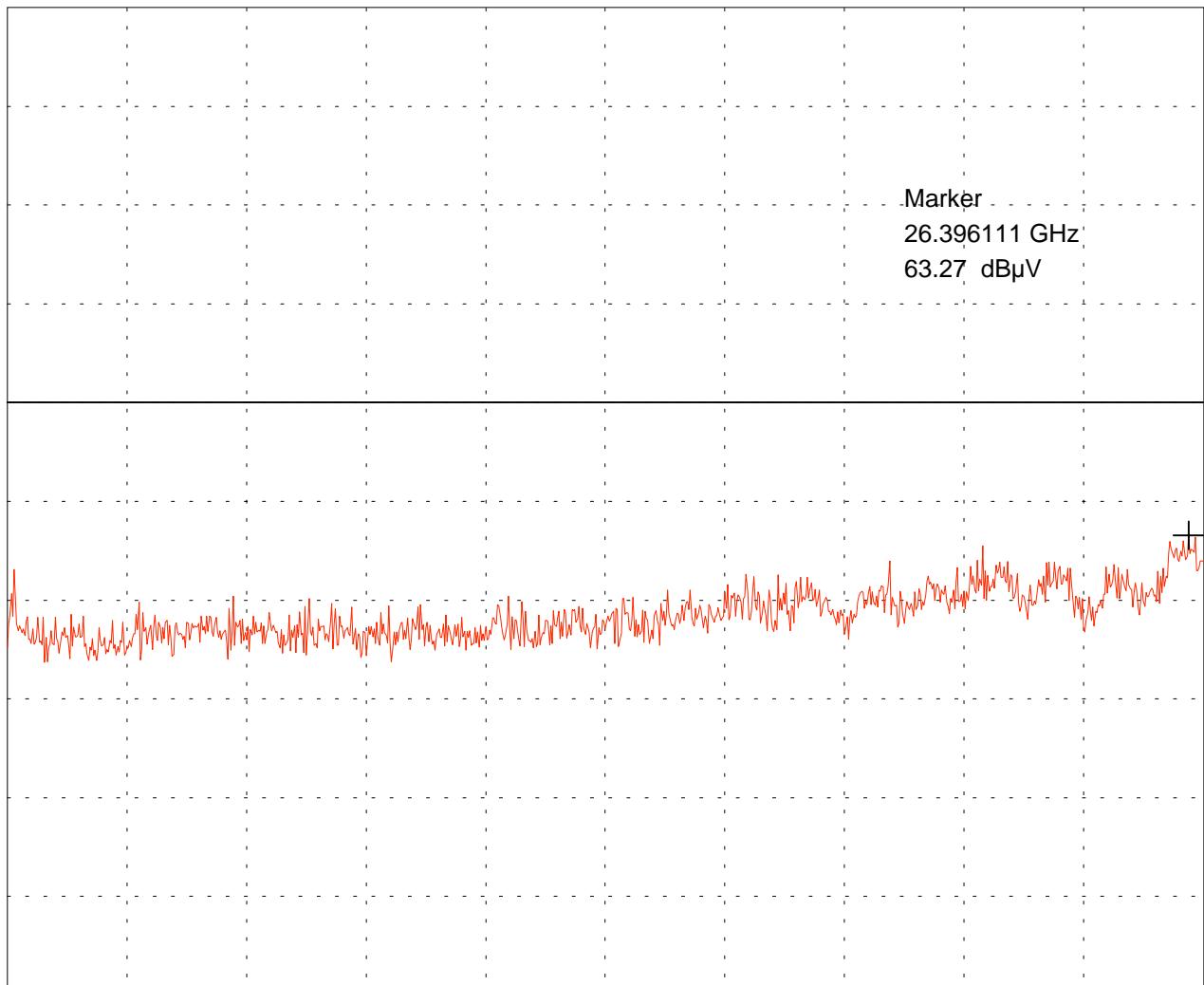
Mode:  
- AC 115 V power supply (DC 9 V)

- all cables connected
- Audio-signal 1 Vpp @ 1 kHz
- transmitting continuously
- test distance: 0.5 m
- polarisation: vertical

Ref.Level 90 dB $\mu$ V  
5 dB/Div.

ATT 0 dB

Ref. Offset 43 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

Tested by:  
Martin Steindl

Project-No.:  
50104-40281

Date:

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## Radiated Emission Test 26 GHz - 29 GHz acc. to FCC Part 15.225

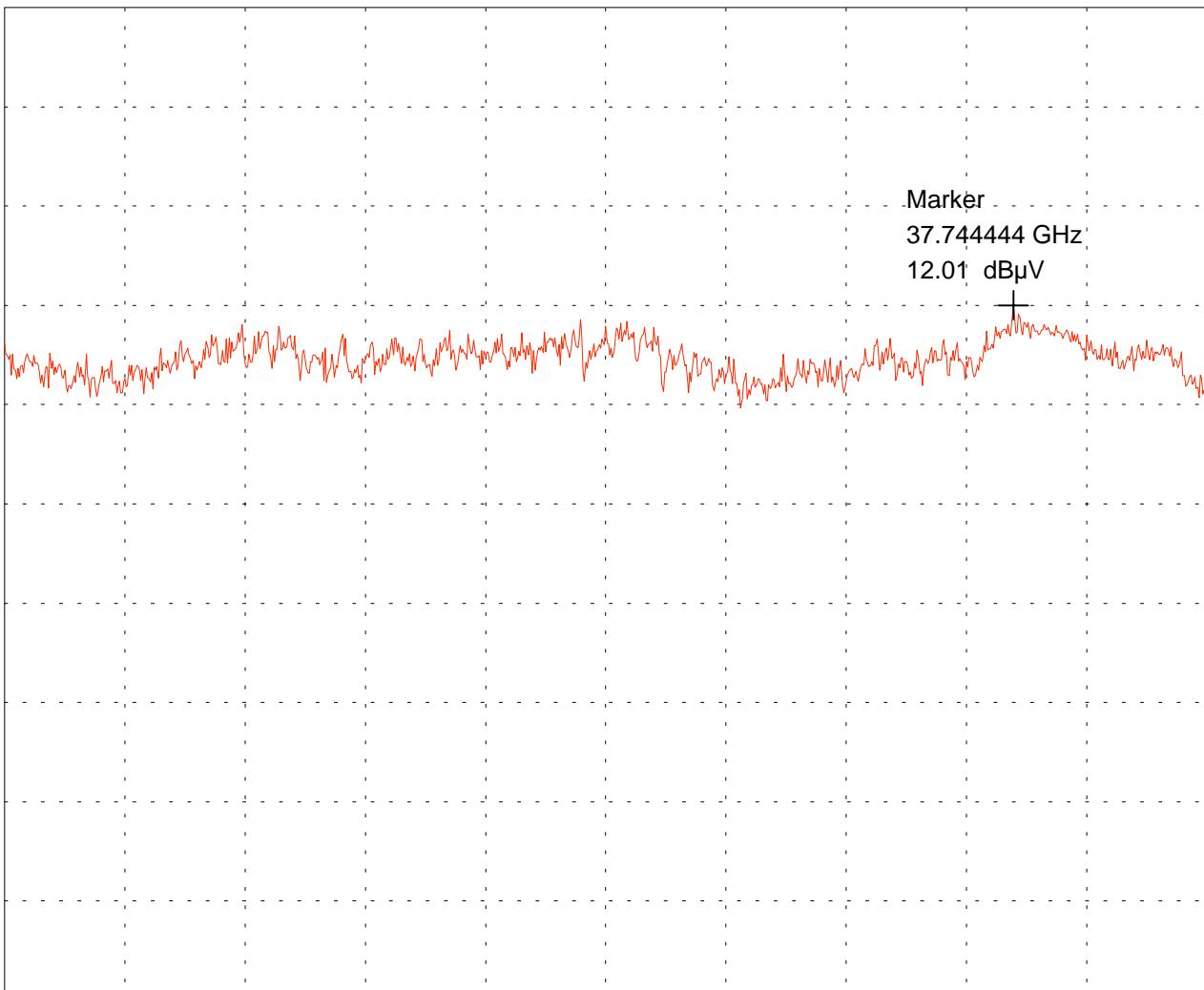
Model: 2500 (H2500) - Transmitter
Serial No.: 01
Applicant: Amphony GmbH

Mode: - AC 115 V power supply (DC 9 V)
- all cables connected
- Audio-signal 1 Vpp @ 1 kHz
- transmitting continuously
- test distance: 0.25 m
- polarisation: vertical

Ref.Level 27 dB $\mu$ V

ATT 0 dB

5 dB/Div.



Start 26.000 GHz  
RBW 1 MHz

VBW 100 kHz

Stop 40.000 GHz  
SWP 420 ms

Tested by: Martin Steindl
Date: 06/23/2004

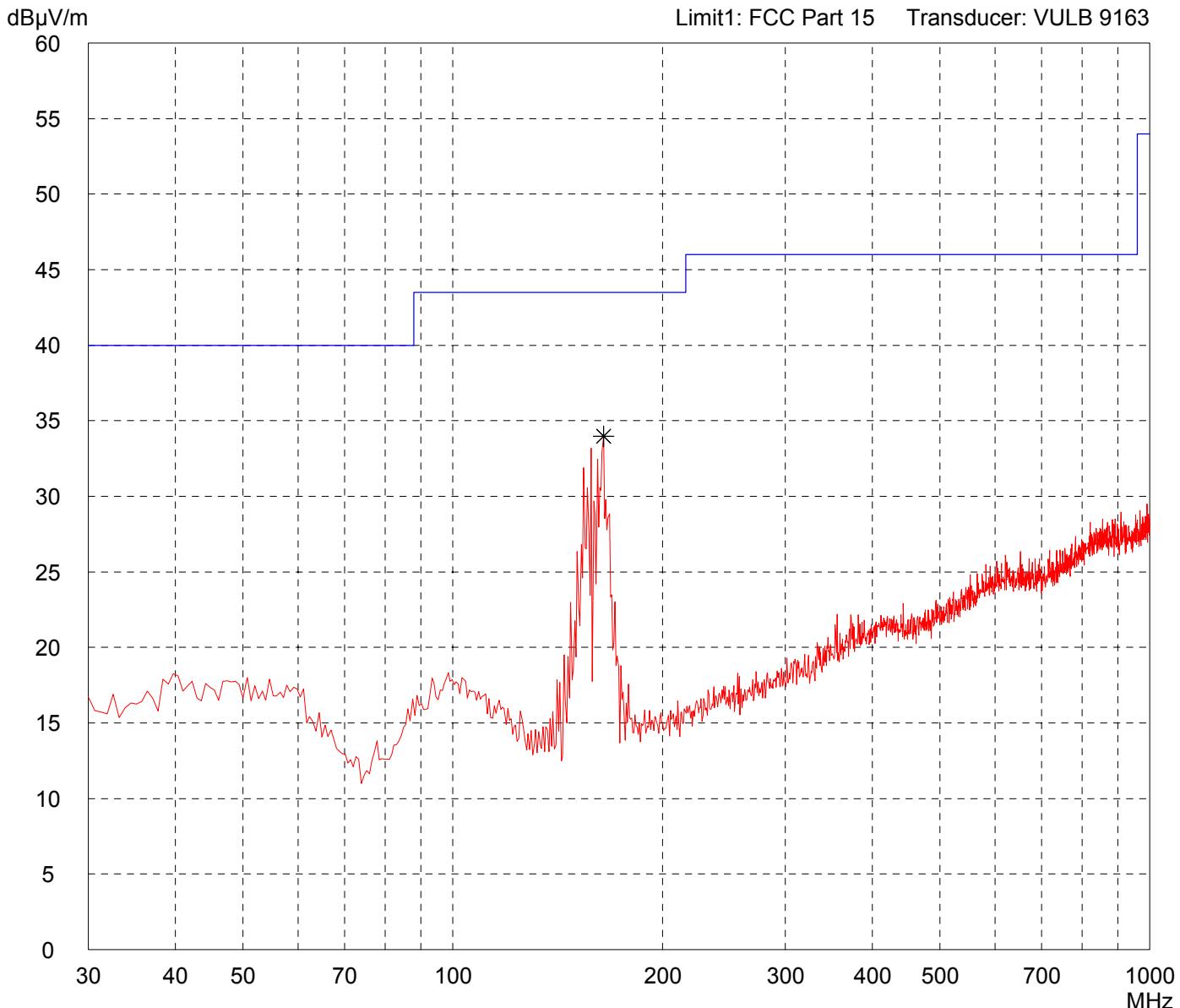
Project-No.:			
50104-40281			
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# Radiated Emission Test 30 MHz - 1 GHz

## acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: 2500 (H2500) - Headphones	Comment: - 2 x 1.5 V battery supply
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin	50 Subranges
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Result: Prescan
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Project file: 50104-40281-2	Page      of      Pages
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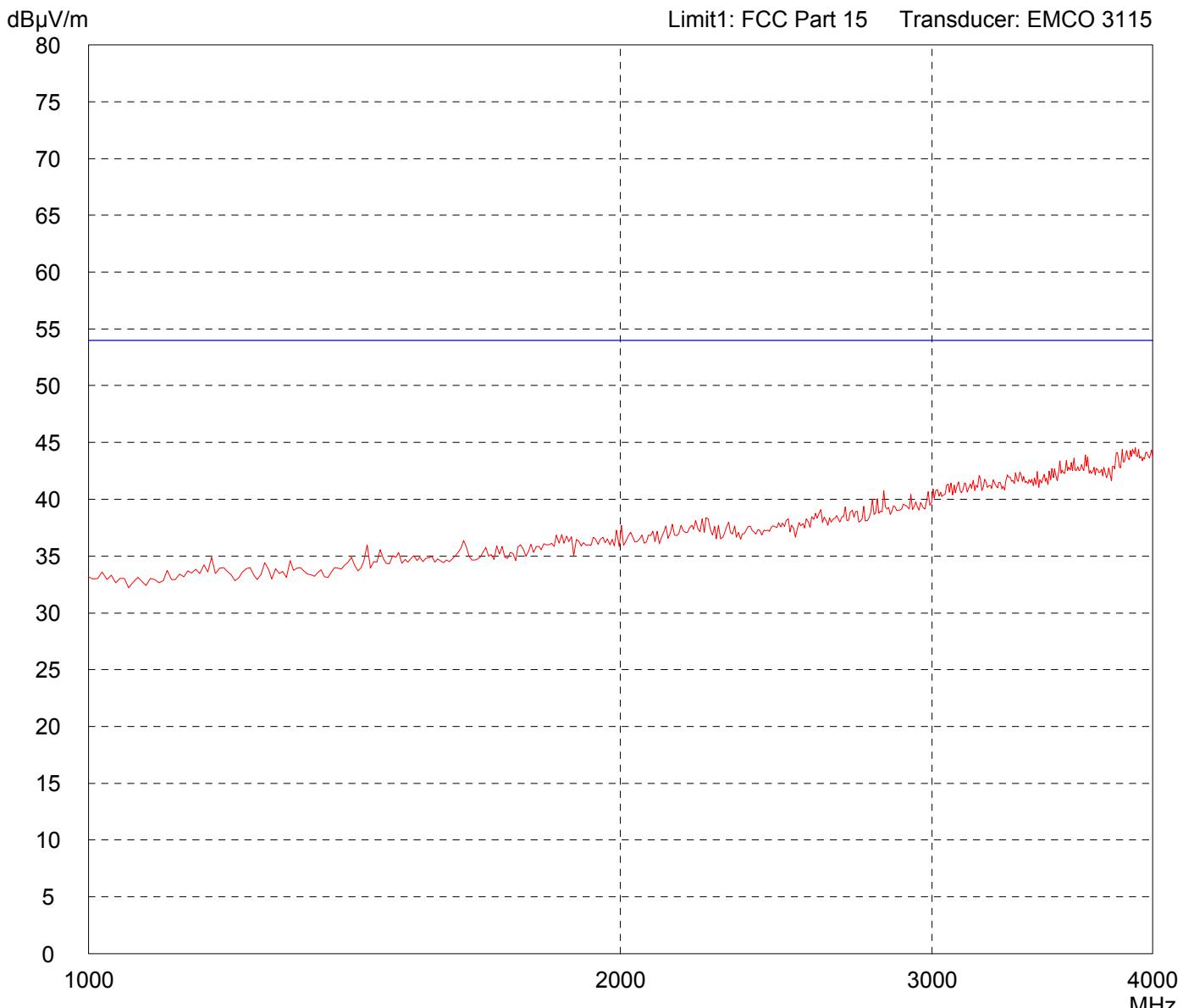
# Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Prescan
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Project file: 50104-40281-2
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# Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

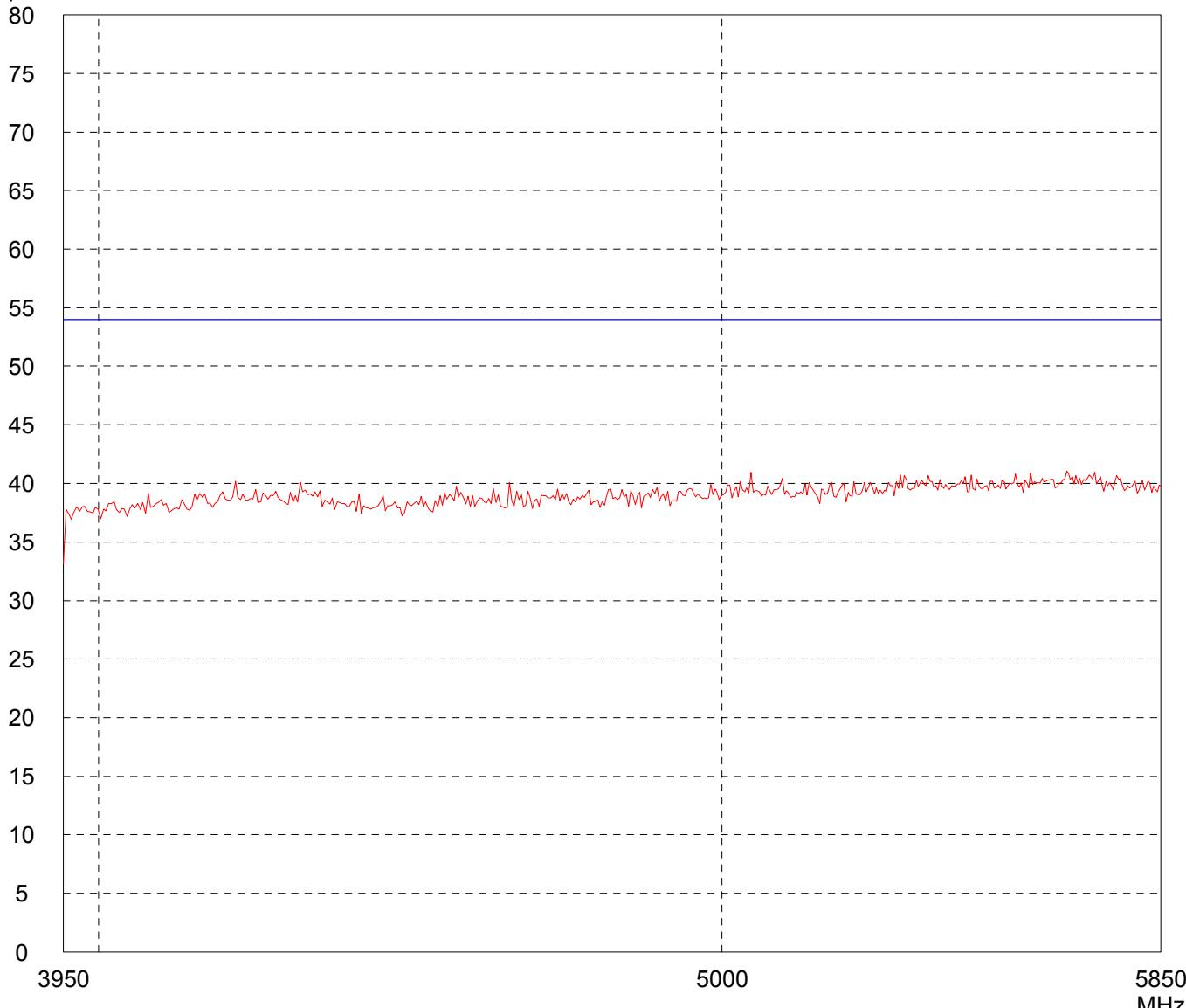
Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
-------------------

List of values: 10 dB Margin	50 Subranges
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dB $\mu$ V/m

Limit1: FCC Part 15 Transducer: EMCO 3160



Result: Prescan
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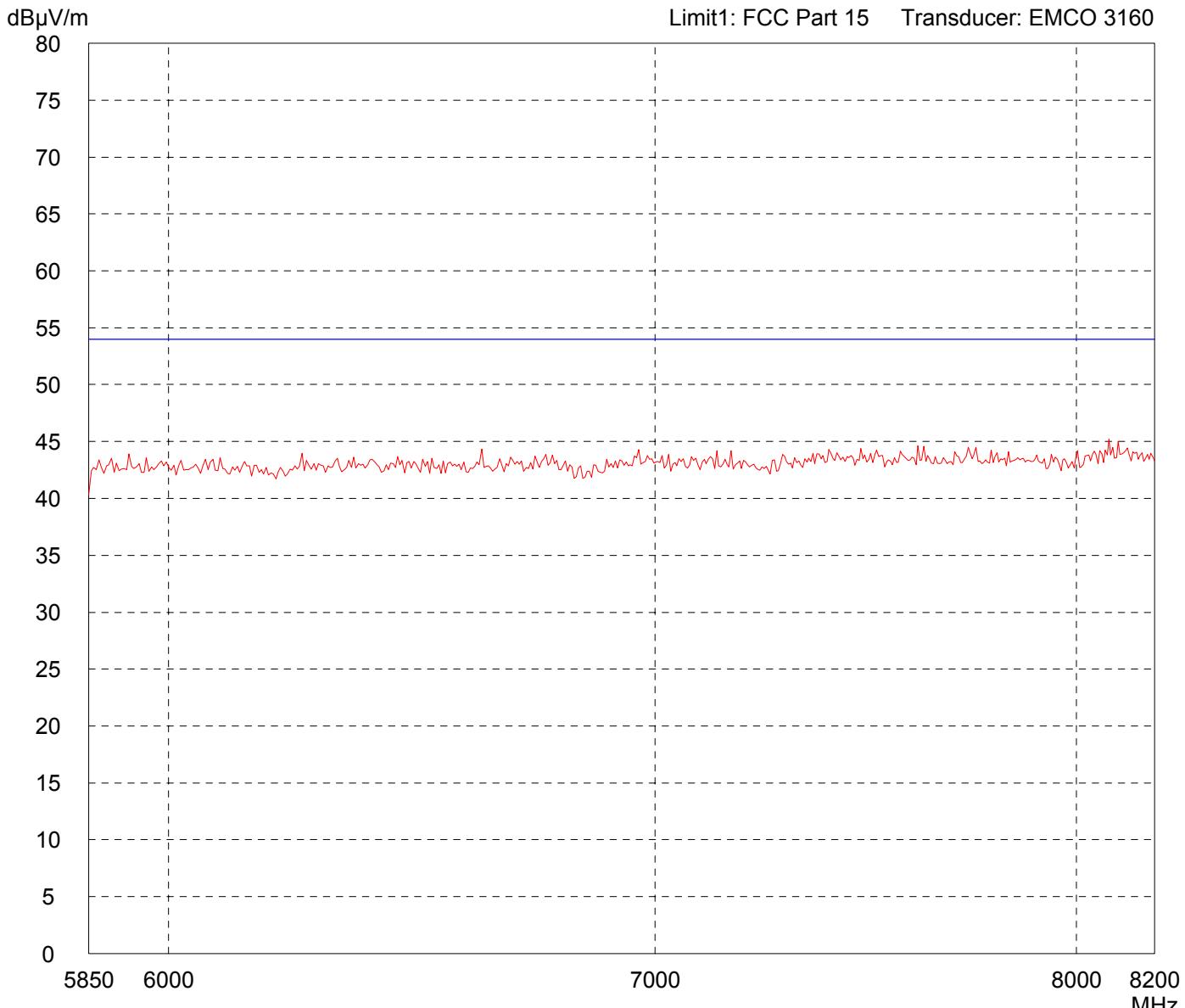
# Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
-------------------

List of values: 10 dB Margin	50 Subranges
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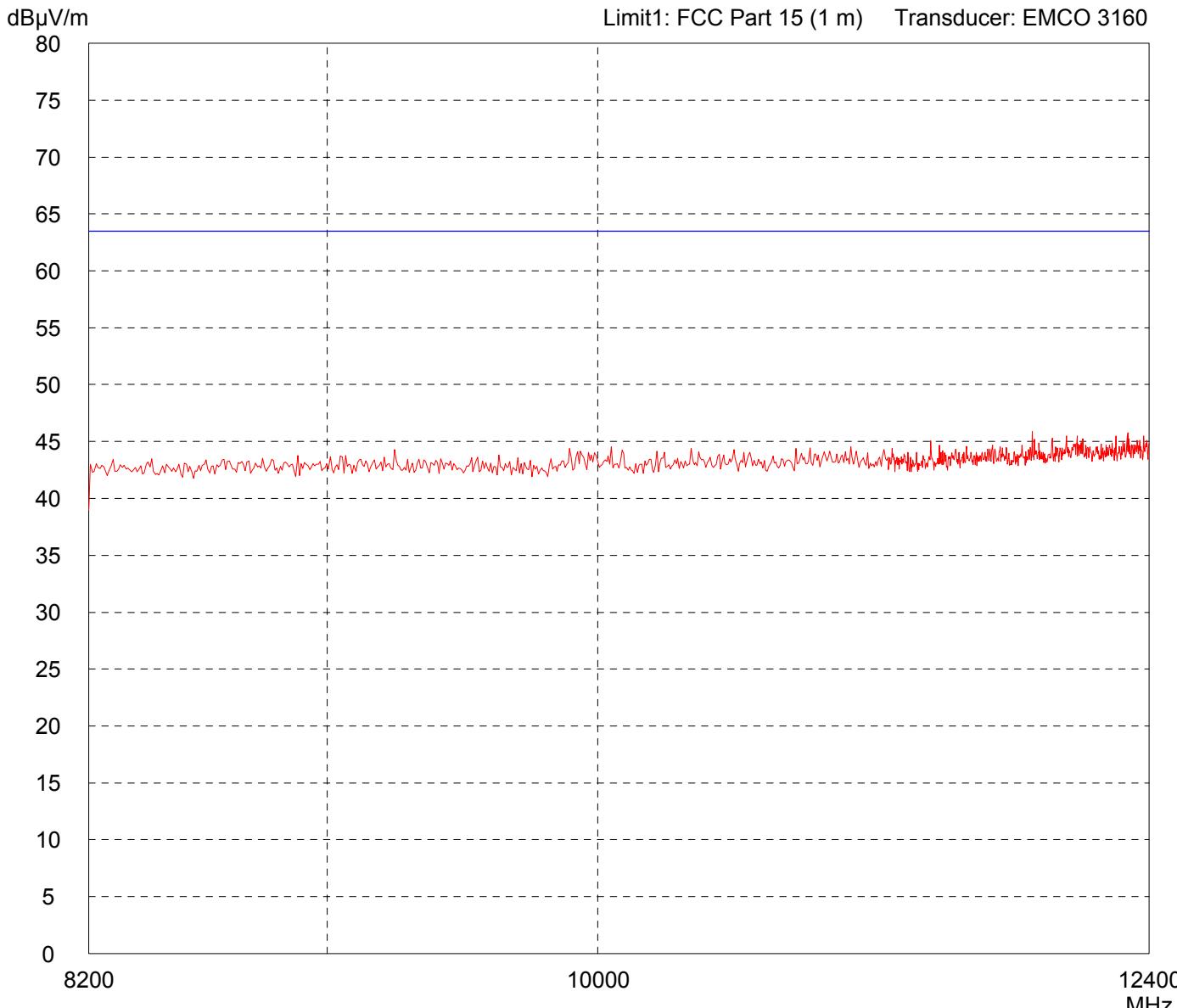
Result: Prescan
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# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Headphones	Comment: - 2 x 1.5 V battery supply
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin	50 Subranges
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Result: Prescan
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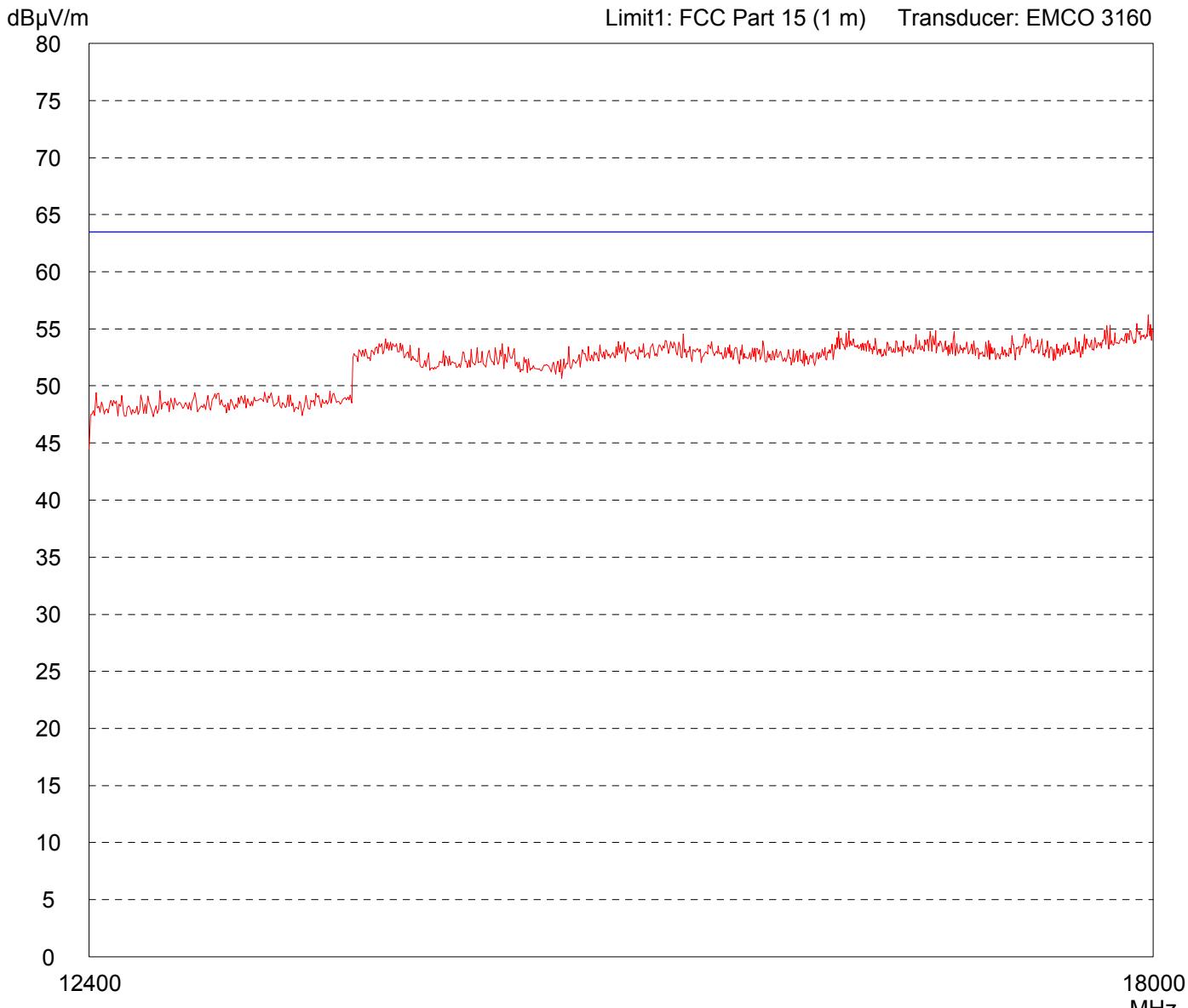
# Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Prescan
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Project file: 50104-40281-2
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## Radiated Emission Test 18 GHz - 26.5 GHz acc. to FCC Part 15.225

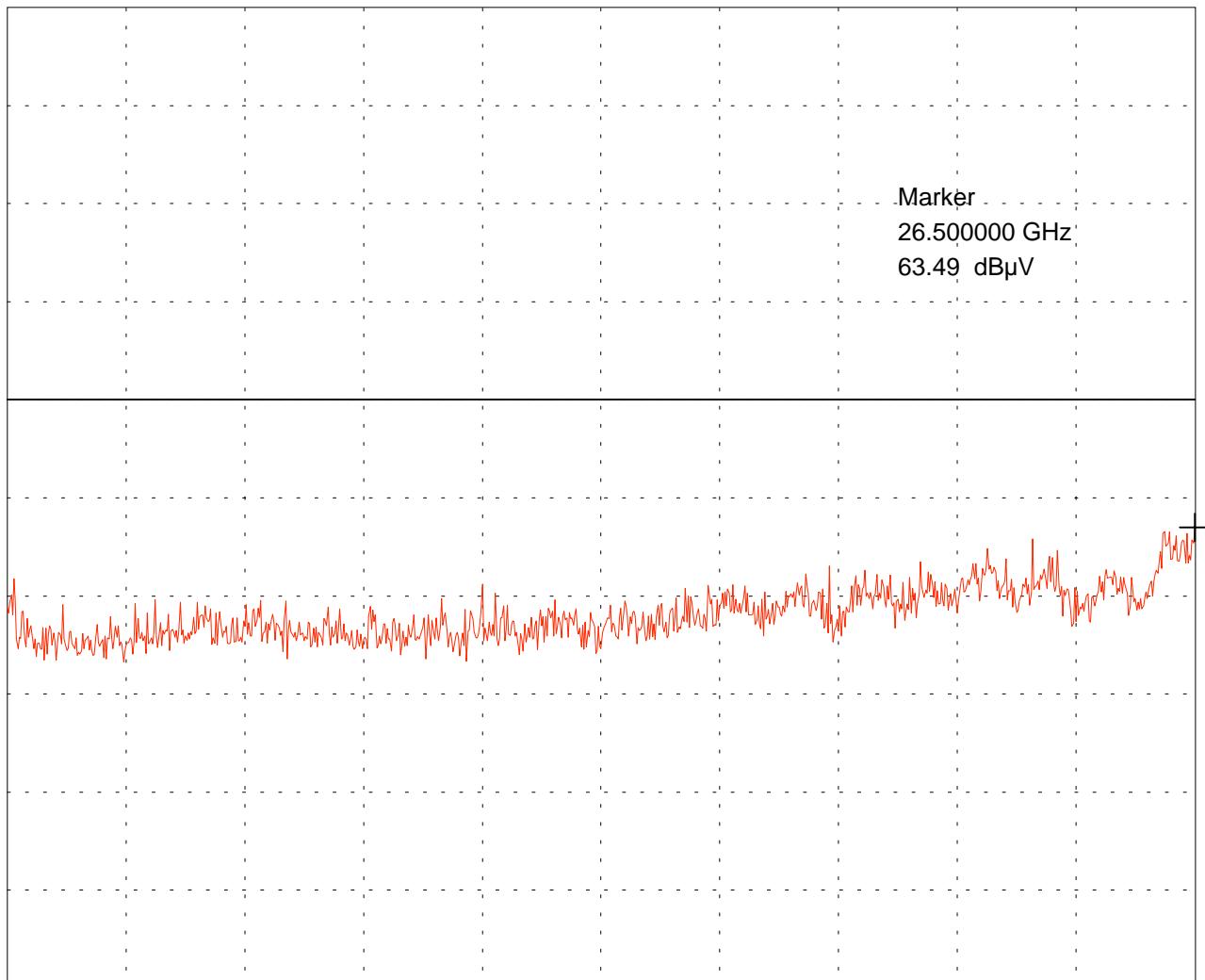
Model: 2500 (H2500) - Headphones
Serial No.: 01
Applicant: Amphony GmbH

Mode: - 2 x 1.5 V battery supply
- test distance: 0.5 m
- polarisation: horizontal

Ref.Level 90 dB $\mu$ V  
5 dB/Div.

ATT 0 dB

Ref. Offset 43 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

Tested by:  
Martin Steindl

Project-No.:  
50104-40281

Date:  
06/23/2004

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## Radiated Emission Test 26 GHz - 29 GHz acc. to FCC Part 15.225

Model:  
2500 (H2500) - Headphones

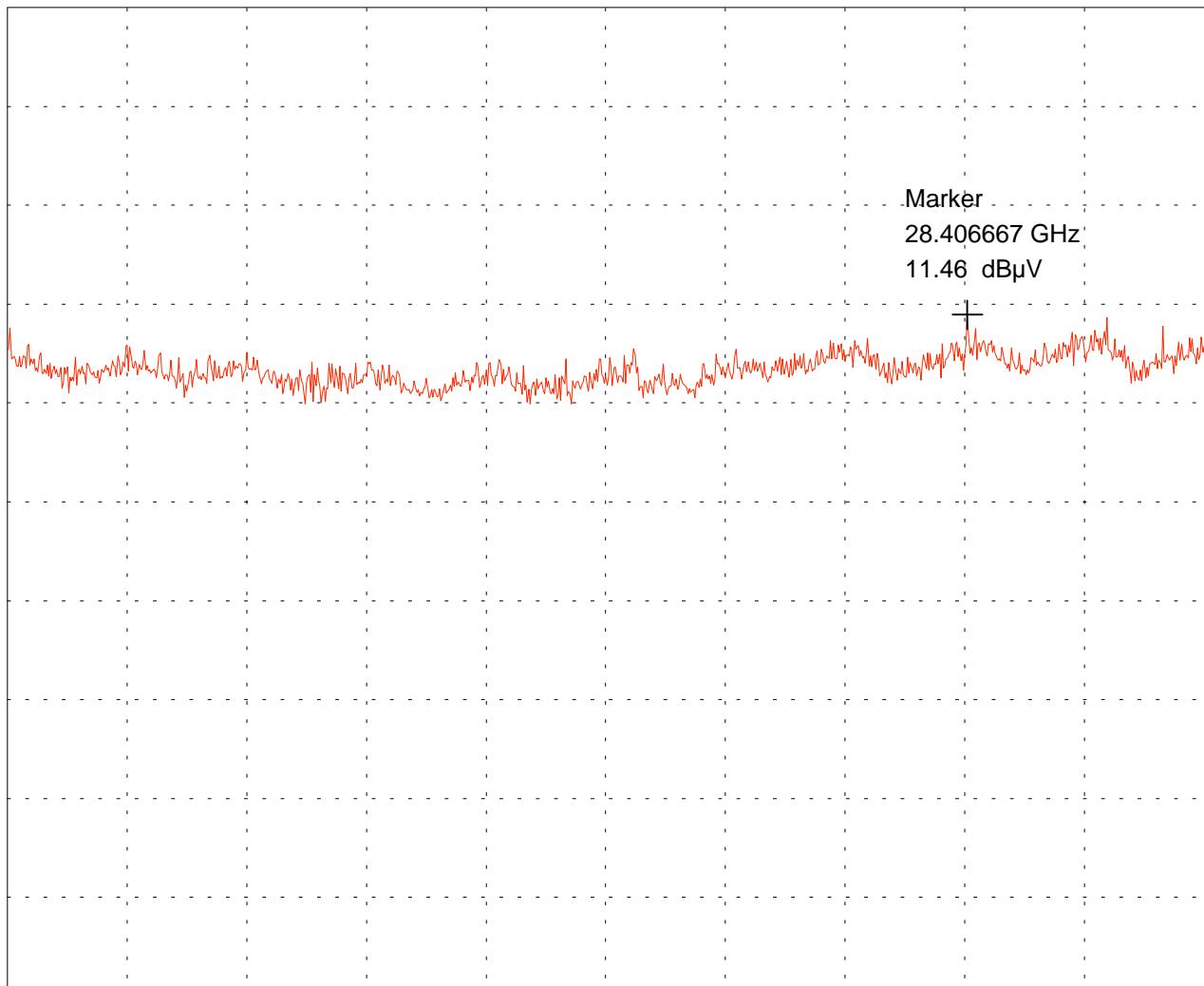
Serial No.:  
01

Applicant:  
Amphony GmbH

Mode:  
- 2 x 1.5 V battery supply  
- test distance: 0.25 m  
- polarisation: horizontal

Ref.Level 27 dB $\mu$ V  
5 dB/Div.

ATT 0 dB



Start 26.000 GHz  
RBW 1 MHz

VBW 100 kHz

Stop 29.000 GHz  
SWP 100 ms

Tested by:  
Martin Steindl

Project-No.:  
50104-40281

Date:  
06/23/2004

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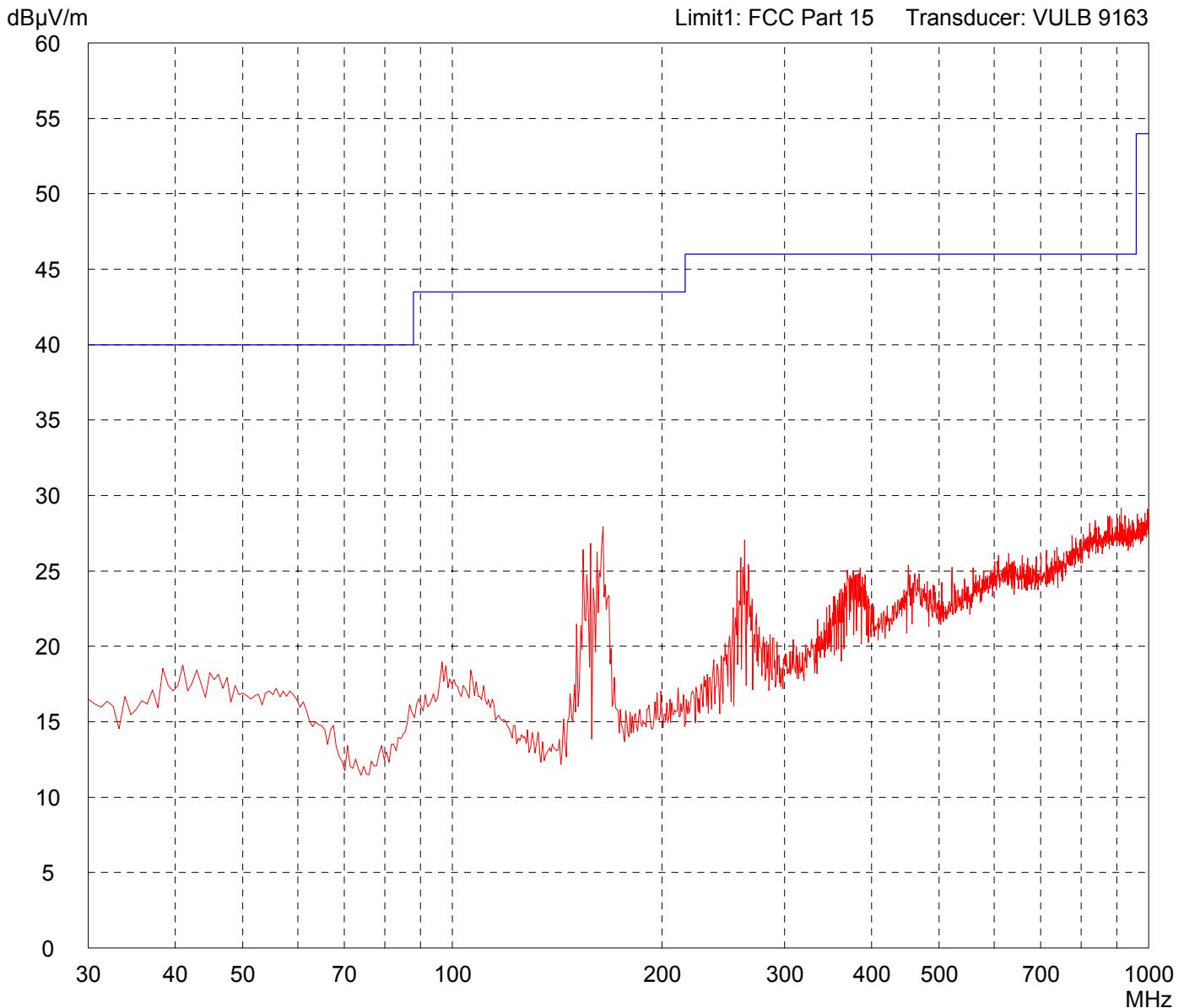
# Radiated Emission Test 30 MHz - 1 GHz

## acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: 2500 (H2500) - Headphones	Comment: - 2 x 1.5 V battery supply
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak
-------------------

List of values:  
10 dB Margin      50 Subranges



Result: Prescan
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Project file:  
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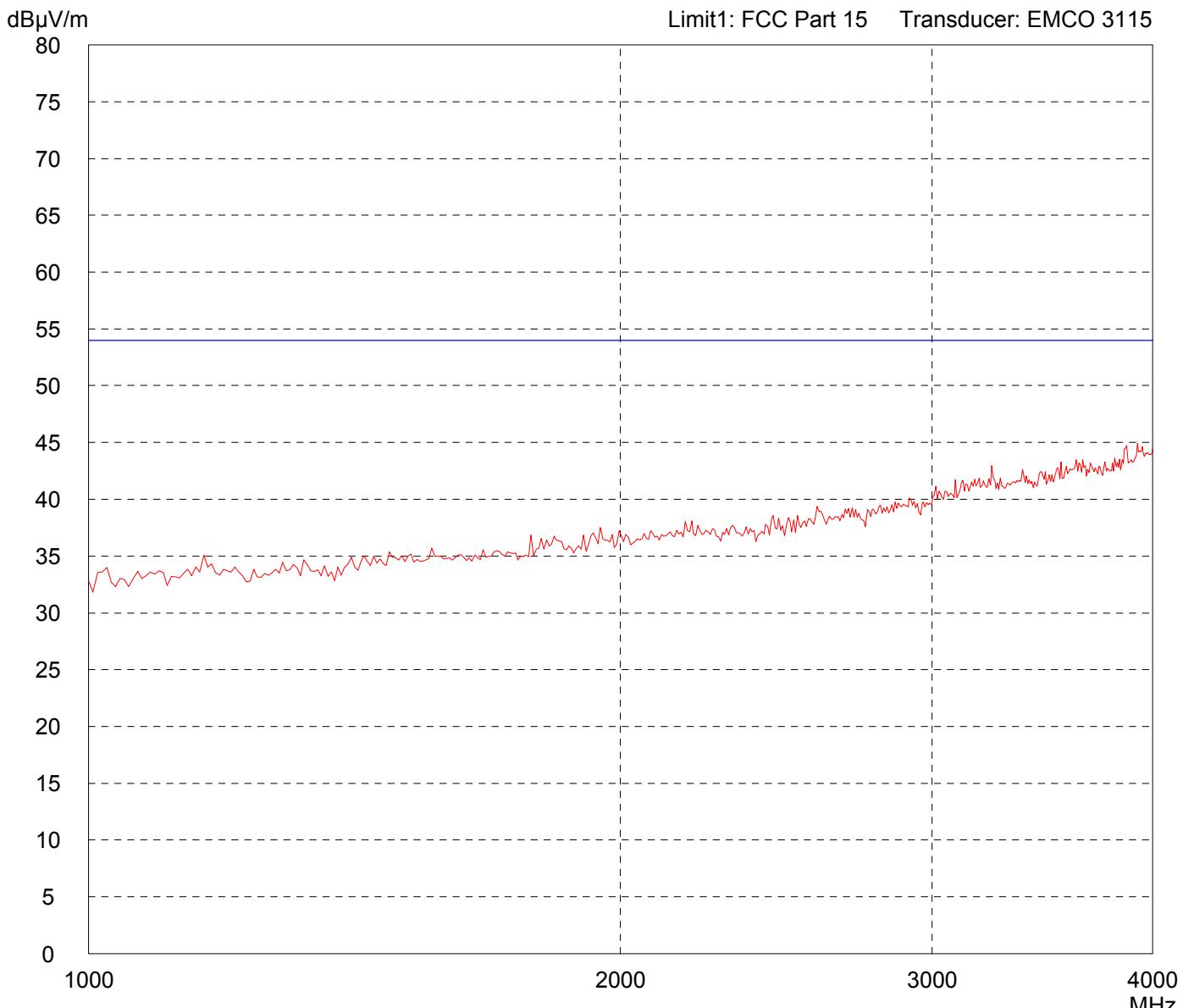
# Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
-------------------

List of values: Selected by hand
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Result: Prescan
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Project file: 50104-40281-2
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# Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

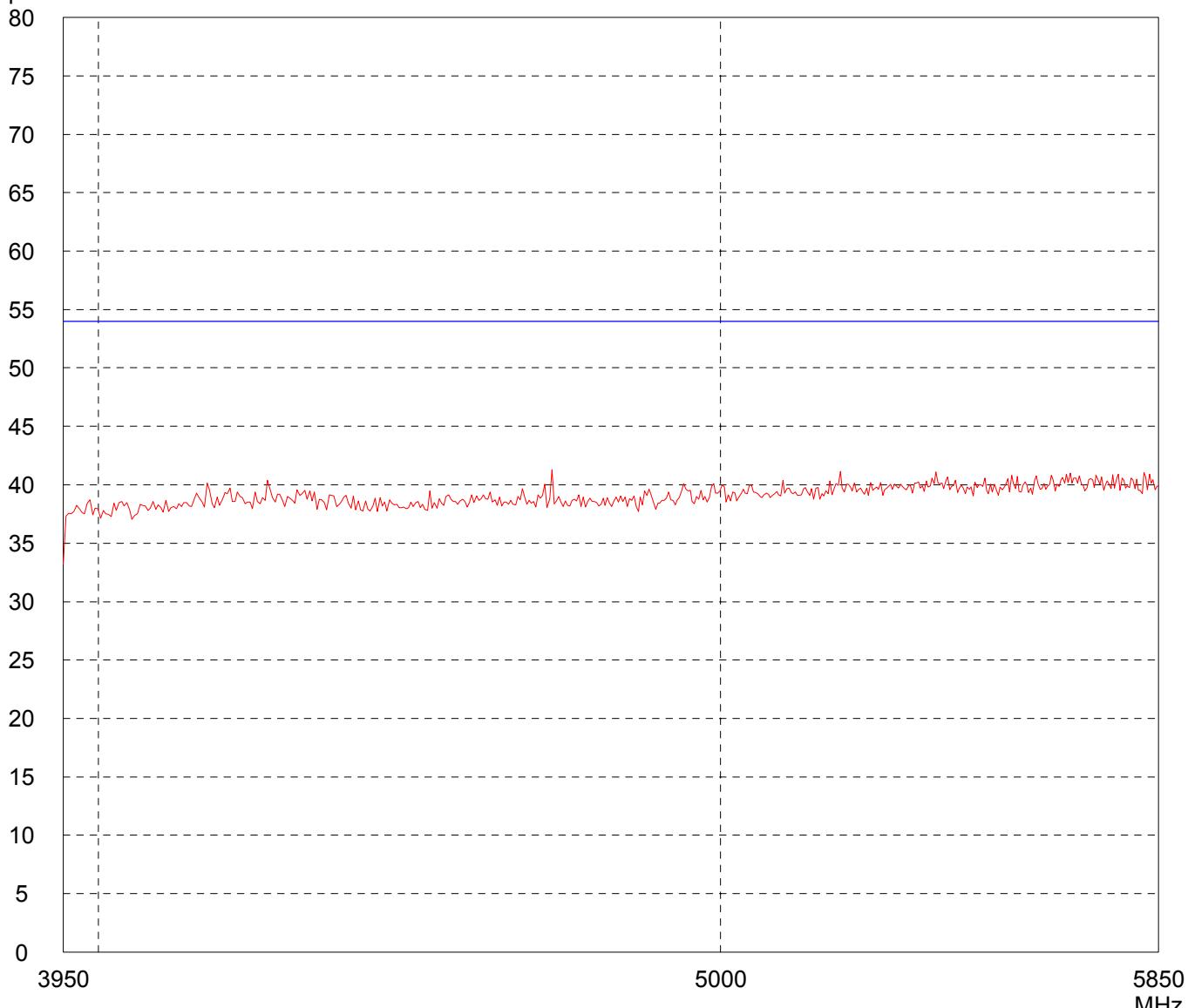
Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
-------------------

List of values: 10 dB Margin	50 Subranges
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dB $\mu$ V/m

Limit1: FCC Part 15 Transducer: EMCO 3160



Result: Prescan
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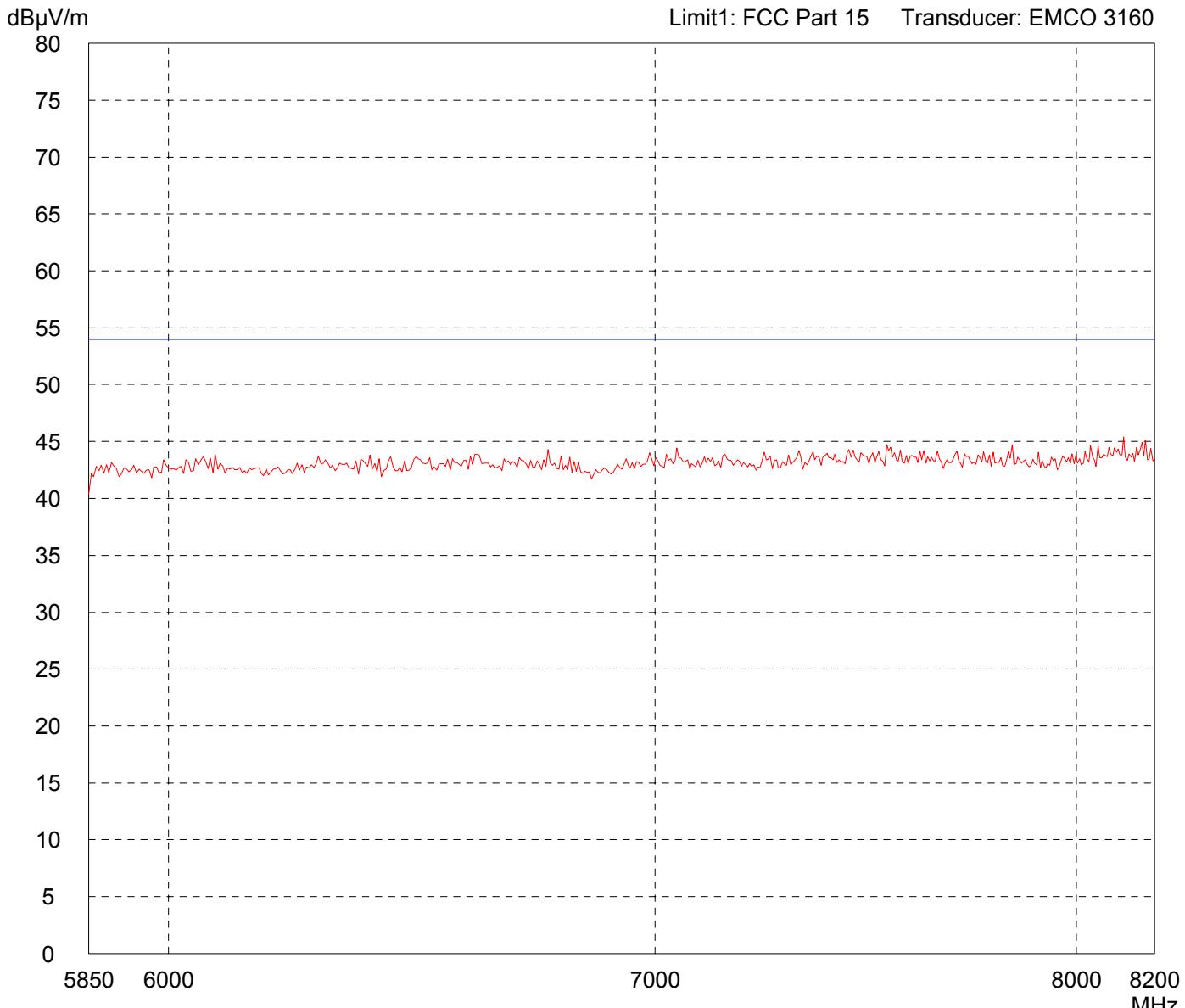
# Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
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List of values: 10 dB Margin	50 Subranges
---------------------------------	--------------



Result: Prescan
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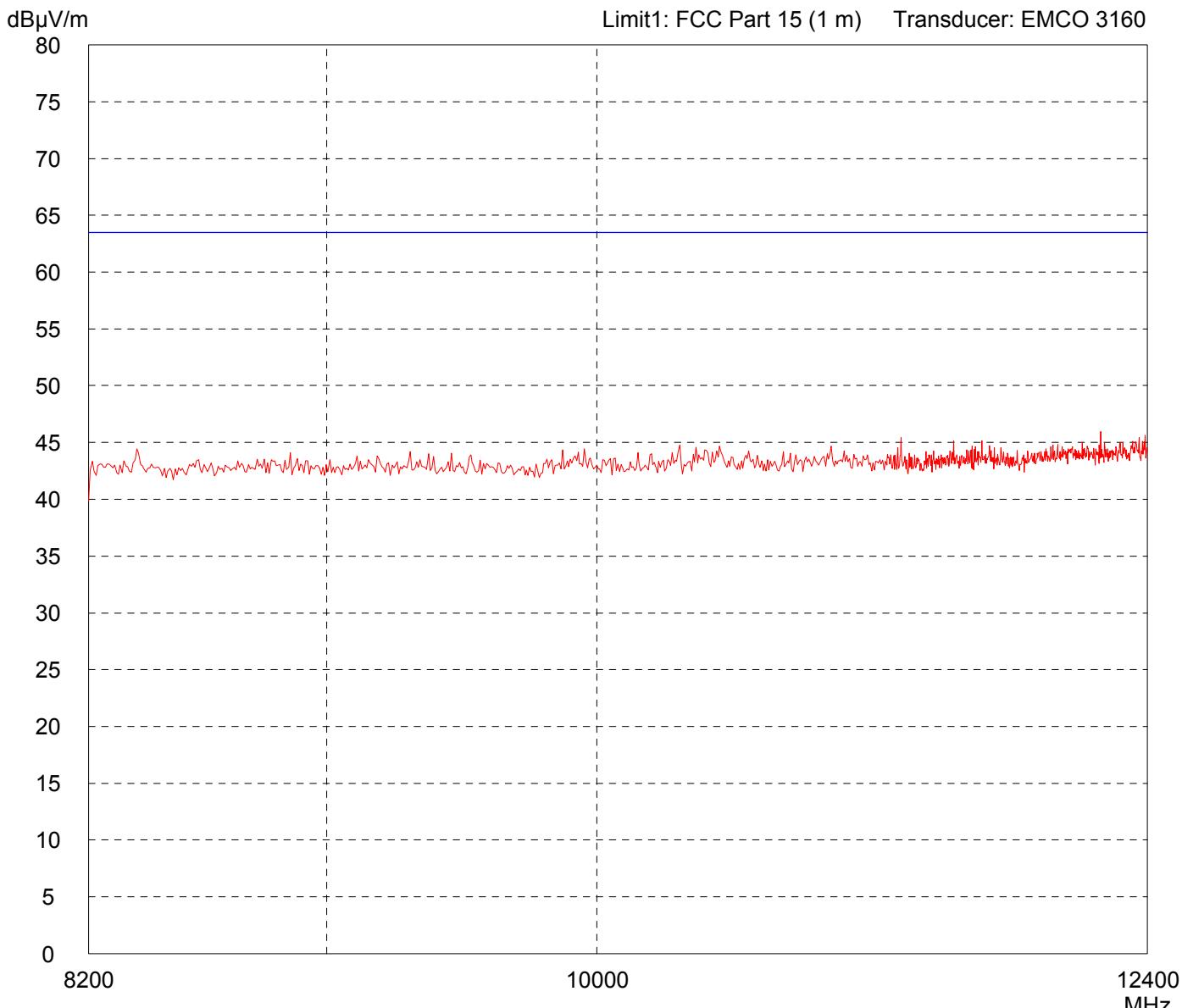
# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
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List of values: 10 dB Margin	50 Subranges
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Result: Prescan
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Project file: 50104-40281-2	Page of Pages
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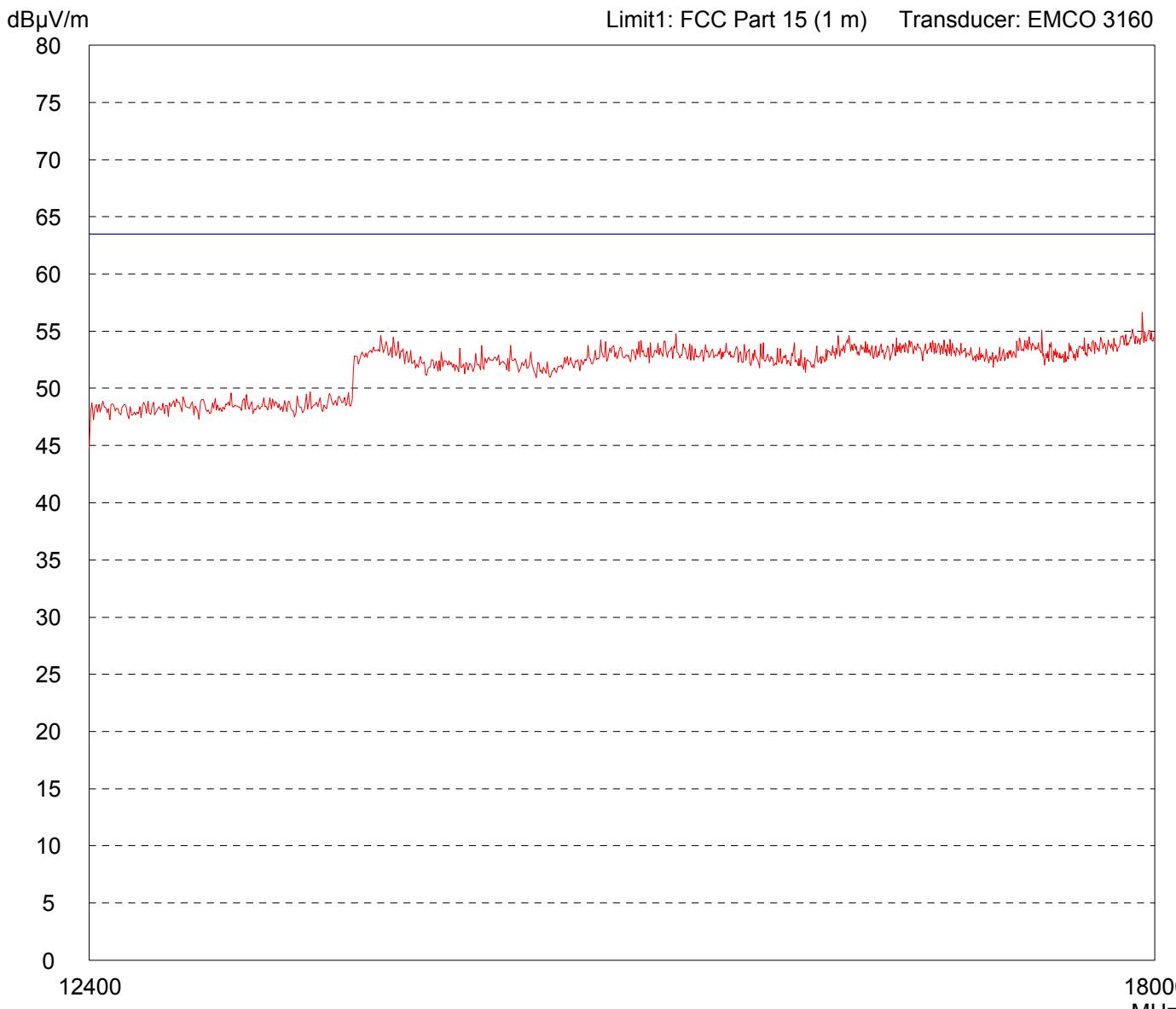
# Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model: 2500 (H2500) - Headphones	
Serial no.: 01	
Applicant: Amphony GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 05/14/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 2 x 1.5 V battery supply
--

Detector: Peak
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List of values: Selected by hand
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Result: Prescan
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Project file: 50104-40281-2
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## Radiated Emission Test 18 GHz - 26.5 GHz acc. to FCC Part 15.225

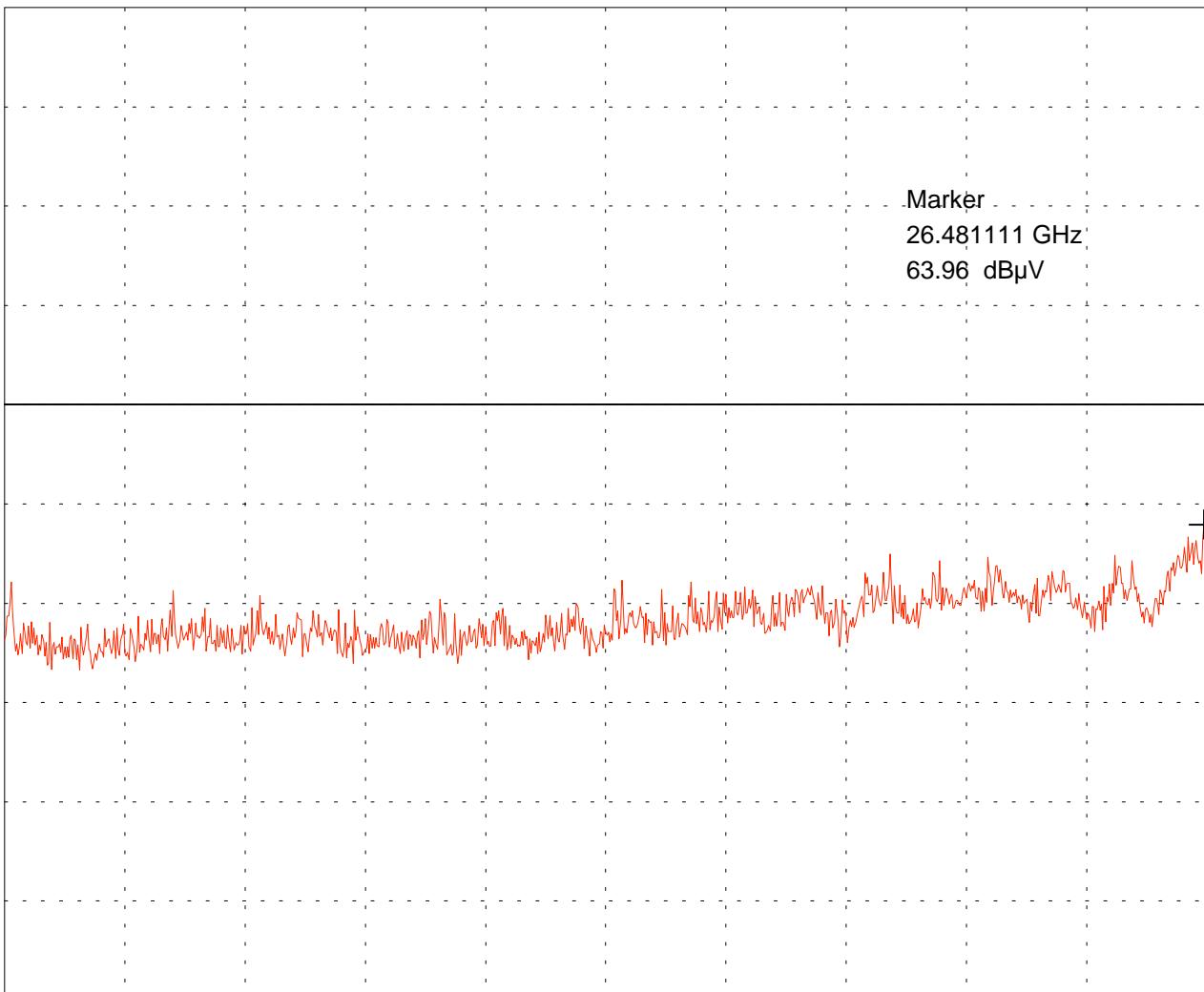
Model: 2500 (H2500) - Headphones
Serial No.: 01
Applicant: Amphony GmbH

Mode: - 2 x 1.5 V battery supply
- test distance: 0.5 m
- polarisation: vertical

Ref.Level 90 dB $\mu$ V  
5 dB/Div.

ATT 0 dB

Ref. Offset 43 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

Tested by: Martin Steindl
Date: 06/23/2004

Project-No.: 50104-40281
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## Radiated Emission Test 26 GHz - 29 GHz acc. to FCC Part 15.225

Model:  
2500 (H2500) - Headphones

Serial No.:  
01

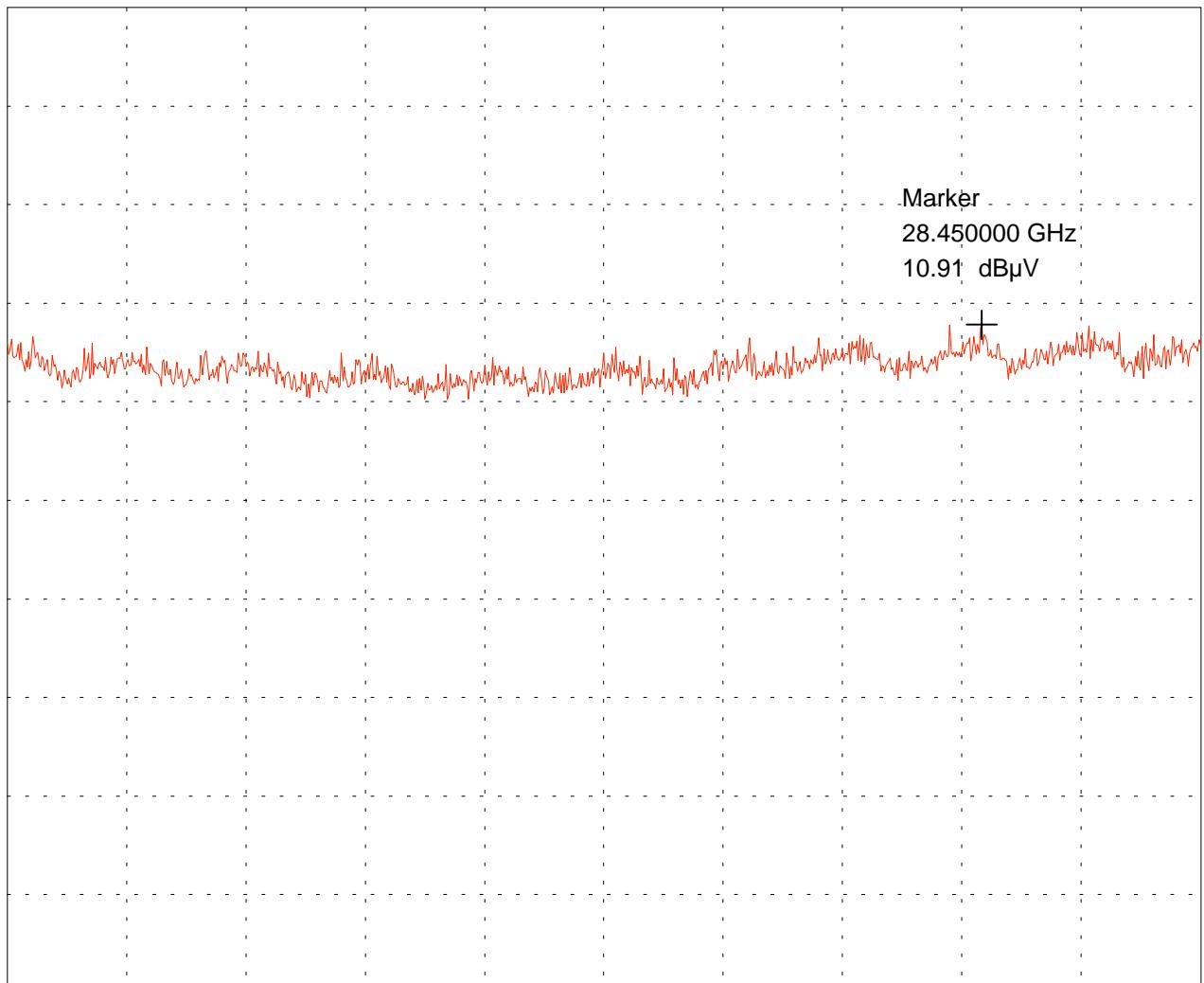
Applicant:  
Amphony GmbH

Mode:  
- 2 x 1.5 V battery supply

- test distance: 0.25 m  
- polarisation: vertical

Ref.Level 27 dB $\mu$ V  
5 dB/Div.

ATT 0 dB



Start 26.000 GHz  
RBW 1 MHz

VBW 100 kHz

Stop 29.000 GHz  
SWP 100 ms

Tested by:  
Martin Steindl

Date:  
06/23/2004

Project-No.:  
50104-40281

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