

Straubing, July 27, 2004

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

**No. 51905-40259**

**for**

**Moby D SLG D10**

**TAG Reader System**

**Applicant:** Siemens AG

**Test Specification:** FCC Code of Federal Regulations,  
CFR 47, Part 15,  
Sections 15.205, 15.207, 15.209, and  
15.225

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**Note:**

The test data of this report relate 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. Administrative Data

<b>Test item (EUT)</b>	
Type designation	Moby D SLG D10
Serial number(s):	100919521.09
Type of equipment:	TAG Reader System
Parts/accessories:	
FCC-ID:	
<b>Technical data</b>	
Frequency range	13.553 - 13.567 MHz
Operational frequencies	13.56 MHz
Type of modulation	10K0A1D
Pulse frequency	N/A
Pulse width	N/A
Antenna	No. 1: ANT D5/ANT F5, 6GT2 690-0AB00 Serial No.: ---  No. 2: MOBY D ANT D6, 6GT2 698-5AB00 Serial No.: 101041 819.2
Power supply	Siemens MOBY 6GT2 494-0AA00 Serial No.: 10313260
<b>Applicant:</b> (full address)	
Contract identification:	---
Contact person:	Mr. Horst
Manufacturer:	Siemens AG

<b>Application details</b>	
Receipt of EUT:	14. April 2004
Date of test:	April - July 2004
Note:	
Responsible for testing:	Karl Roidt
Responsible for test report:	Karl Roidt

## 2. Identification of Test Laboratory

DETAILS OF THE TEST LABORATORY	
COMPANY NAME:	Senton GmbH EMI/EMC Test Center
ADDRESS:	Aeussere Fruehlingsstrasse 45 D-94315 Straubing Germany
LABORATORY ACCREDITATION:	DAR-Registration No. TTI-P-G 062/94-01
FCC TEST SITE LISTING	90926
INDUSTRY CANADA TEST SITE REGISTRATION	IC 3050
NAME FOR CONTACT PURPOSES:	Mr. Johann Roidt
TELEPHONE: (+49) (0)9421 5522-0	FAX: (+49) (0)9421 5522-99

PERSONNEL INVOLVED IN THIS TEST REPORT	
LABORATORY MANAGER:	 Mr. Johann Roidt
RESPONSIBLE FOR TESTING:	Mr. Karl Roidt
RESPONSIBLE FOR TEST REPORT:	Mr. Karl Roidt

SUMMARY OF TEST RESULTS	
The tested sample complies with the requirements set forth in the <b>Code of Regulations CFR 47, Part 15, Sections 15.205, 15.207, 15.209 and 15.225</b>	

### **3. Operation Mode of EUT**

Continuously reading appropriate TAG

## 4. Configuration

### Configuration of the EUT

AC/DC Adapter: Siemens MOBY 6GT2 494-0AA00

Serial No.: 10313260

Antenna No. 1: ANT D5/ANT F5, 6GT2 690-0AB00

Serial No.: ---

Antenna No. 2: MOBY D ANT D6, 6GT2 698-5AB00

Serial No.: 101041 819.2

### Cables connected to the EUT

Not applicable

### Peripheral devices connected to the EUT

Laptop PC Dell

AC/DC Adapter

Printer HP 2225C

AC Adapter Hayes

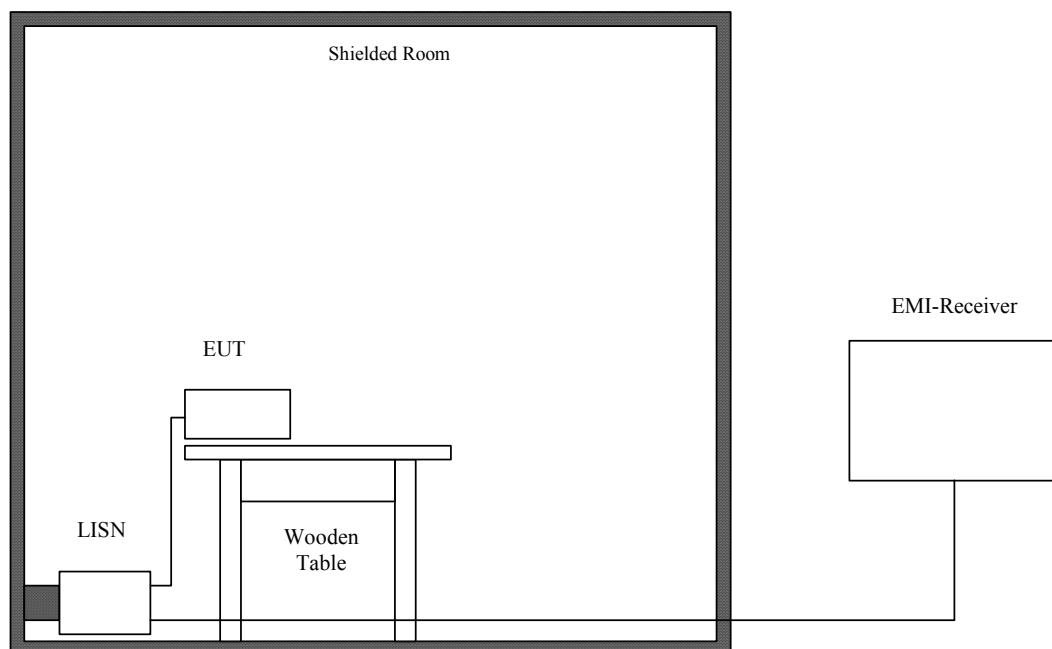
## 5. Measuring Methods

### 5.1. Conducted powerline emissions

Rules and Specifications:	Sections 15.107 & 15.207
Guide:	CISPR 22

#### Measurement Procedure:

In general conducted emission tests in the frequency range 0.15 - 30 MHz are required to be performed with quasi-peak and average detector. To simplify testing the following procedure is used: First the whole spectrum of emission caused by equipment under test (EUT) is recorded with detector set to peak. After that all emission levels having less margin than 20 dB to or exceeding the appropriate limit (in general average limit is 10 dB lower than quasi-peak limit) are retested with detector set to quasi-peak. If average limit is kept 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 has to be recorded.



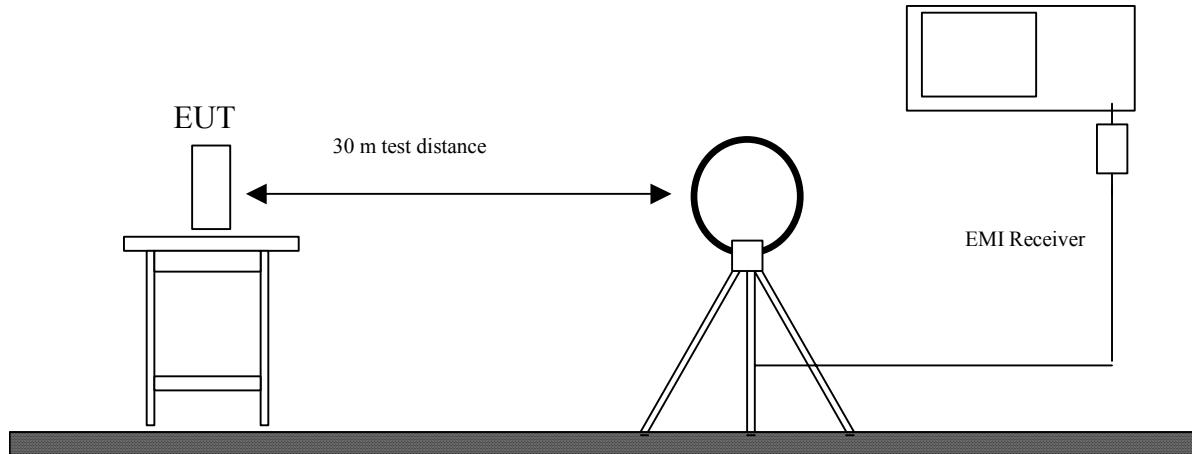
#### Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	EMI Receiver	ESHS 10	860043/016	Rohde & Schwarz
02	LISN	ESH3-Z5	862770/021	Rohde & Schwarz
03	LISN	ESH-3-Z5	830952/025	Rohde & Schwarz
04	Shielded Room No. 4	---	3FD-100 544	Euroshield

## 5.2. Radiated Emission Measurement 9 kHz – 30 MHz

Rules and Specifications:	Sections 15.109 & 15.209
Guide:	ANSI C63.4 1997

Measurement Procedure:
<p>Radiated emissions in the frequency range 9 kHz – 30 MHz were measured initially at a distance of 3 meters. A prescan at 3 meter distance were performed in a shielded room with the detector of the spectrum analyzer or EMI Receiver set to peak. 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.</p> <p>Final measurement is then performed at 30 meter distance. In case the regulation requires testing at other distances, the result will be extrapolated. The extrapolation factor is determined by making a second measurement at 10 meter distance. In cases of very low emissions measurements are performed at shorter distances and results are extrapolated to the required distance. The provisions of 15.31 (d) apply.</p> <p>According to section 15.209 (d) final measurementis performed with the detector set to Quasi Peak except for the frequency bands 9 – 90 kHz and 110 – 490 kHz where average detector is employed.</p>



Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Test receiver	ESH 3	880112/032	Rohde & Schwarz
02	Loop antenna	HFH2-Z2	882964/1	Rohde & Schwarz
03	Open Field Test Site	No. 1	N/A	Senton

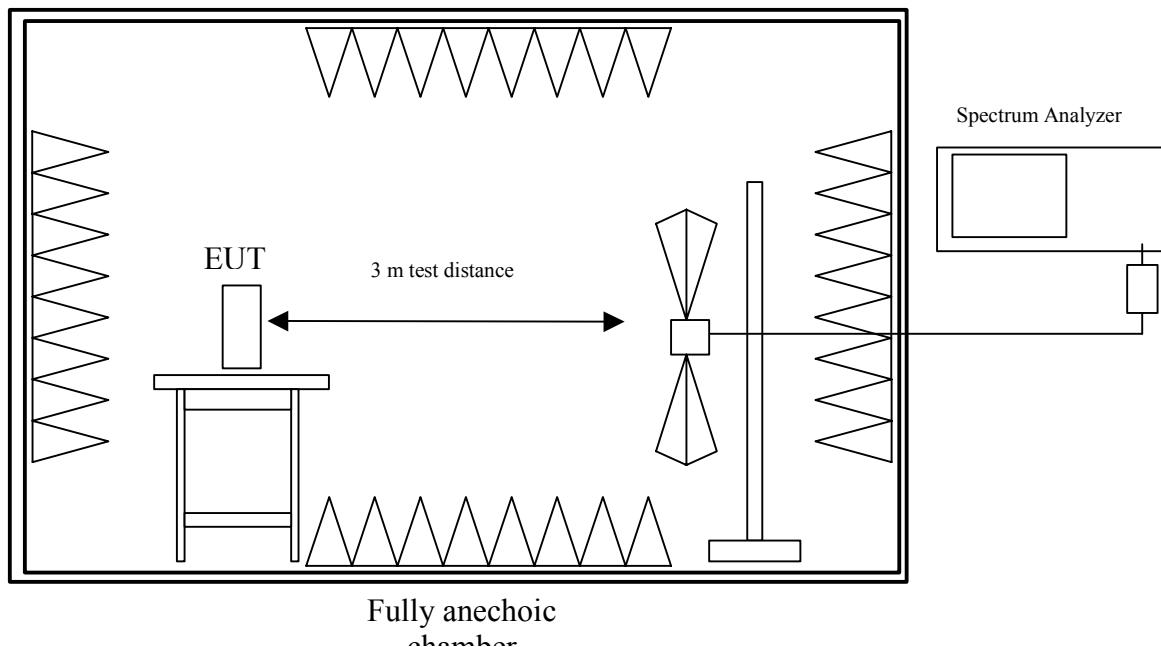
### 5.3. Field Strength of Emissions, Prescans in a fully-anechoic Room

Rules and Specifications:	Sections 15.109 & 15.209
Guide:	ANSI C63.4 1997

**Measurement Procedure:**

Radiated emissions are measured over the frequency range from 30 MHz to the 5<sup>th</sup> harmonic of the maximum frequency of the EUT.

Measurements were 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 bandwidth set to 100 kHz. All tests were performed at a test-distance of 3 meters. 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. For final testing an open-area test-site was used. During the tests the EUT is rotated all around to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions.



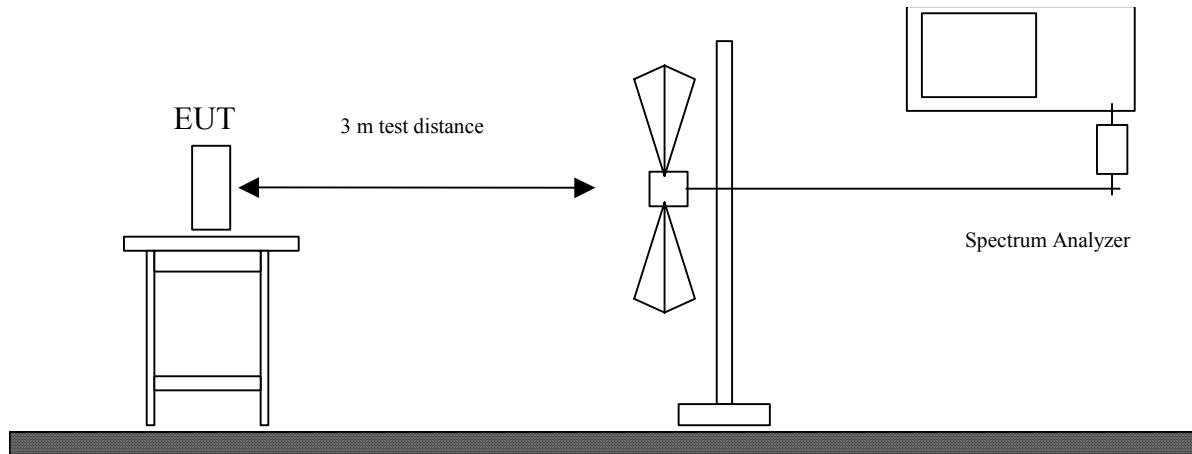
**Test instruments used:**

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
113	Preamplifier	CPA9231A	3393	Schaffner
141	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03/-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
115	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
003	Fully anechoic room	No. 2	1452	Albatross Projects

## 5.4. Radiated Emission Measurement at Open Area Test Site

Rules and Specifications:	Sections 15.109 & 15.209
Guide:	ANSI C63.4 1997

Measurement Procedure:
Radiated emissions are measured in the frequency range 1 GHz to 8 GHz. Resolution and video bandwidth of the spectrum analyzer are set to 1 MHz. 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. Additional measurements are performed at critical frequencies with reduced span.
EUT is rotated all around and receiving antenna is raised and lowered to find the maximum levels of emission. The cables and equipment are placed and moved within the range of position likely to find their maximum emissions.
All tests are performed in a fully-anechoic chamber with a test-distance of 3 meters.
If required preamplifiers are used for the whole frequency range. Special care is taken to avoid overload in transmit mode (using appropriate attenuators and filters if necessary).



Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	EMI Receiver	ESVP	881414/009	Rohde & Schwarz
141	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
115	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
003	Open Field Test Site	No. 1	N/A	Senton

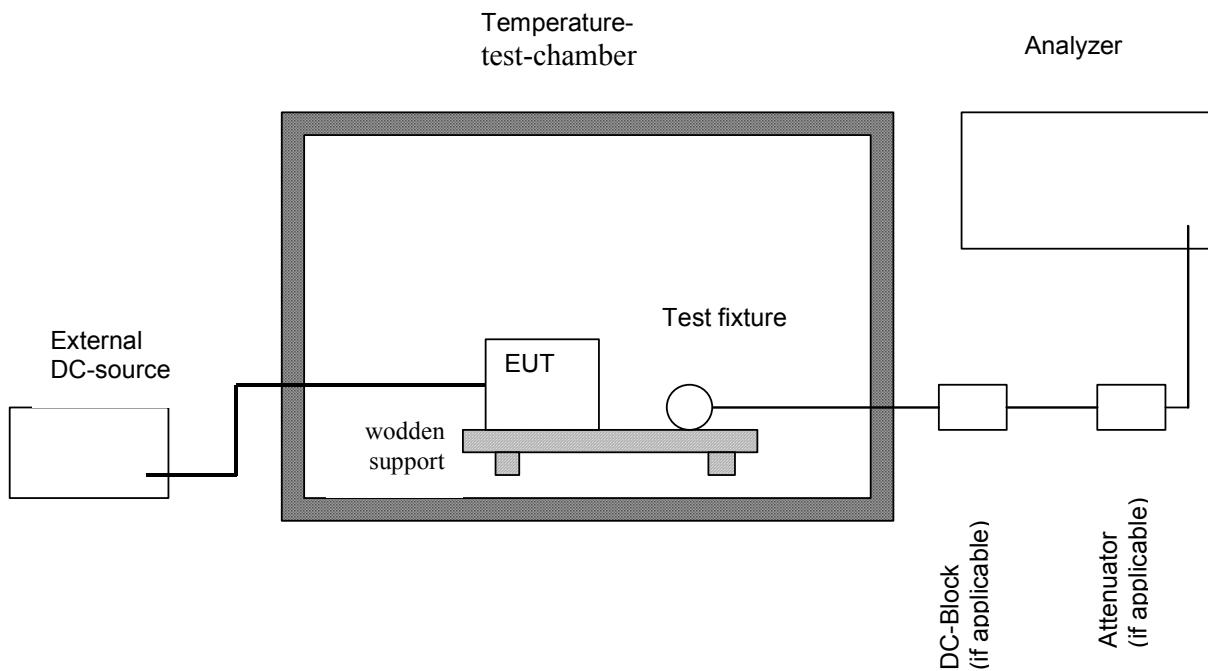
## 5.5. Frequency tolerance of the carrier signal

Rules and Specifications: Sections 15.225

Guide:

Measurement Procedure:

The frequency tolerance of the carrier signal is maintained 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. For battery operated equipment, the test is performed using a new battery.

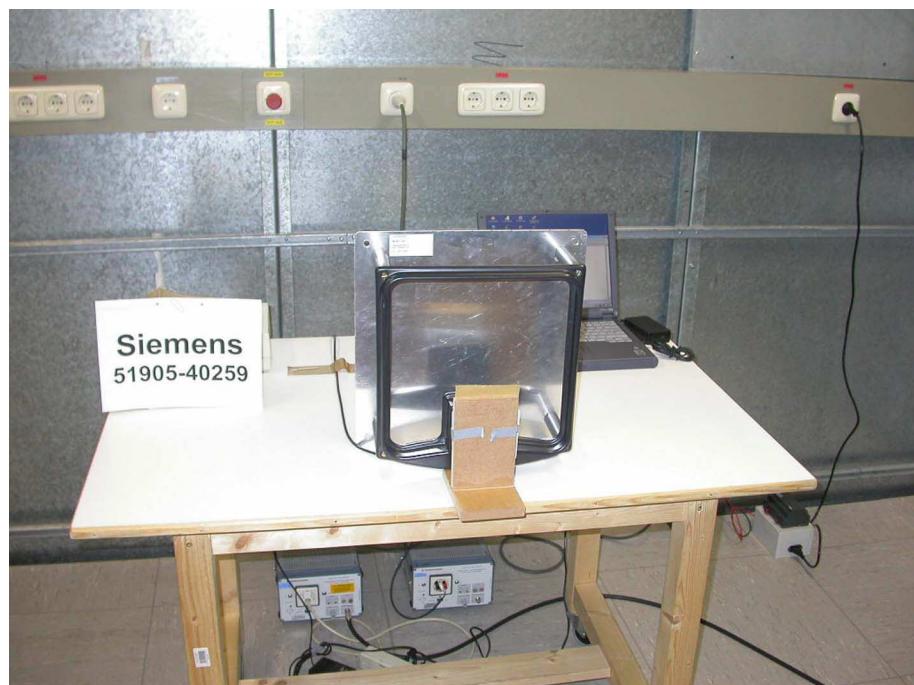


No.	Type	Model	Serial Number	Manufacturer
007	Temperature test chamber	HT4010	07065550	Heraeus
017	DC power supply	NGSM 32/10	203	Rohde & Schwarz
025	DC-block	7006	A2798	Weinschel
101	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
121	Attenuator	4776-10	9412	Narda
166	Test probe	TP01	001	Senton

**6. Photographs Taken During Testing**

**Test setup for conducted power line emission measurement**

Antenna no. 1



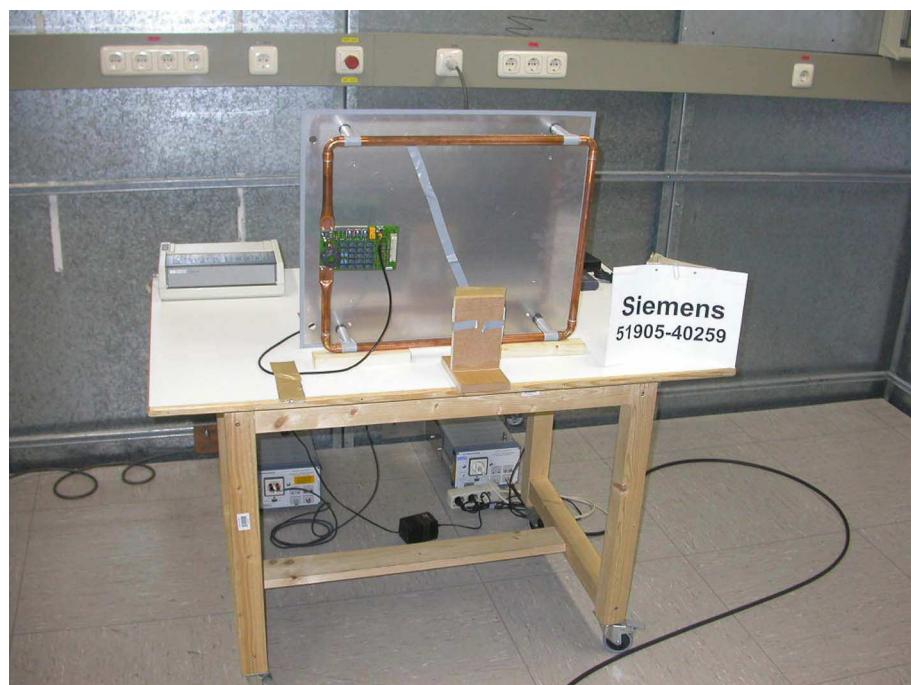
**Test setup for conducted power line emission measurement**

Antenna no. 1



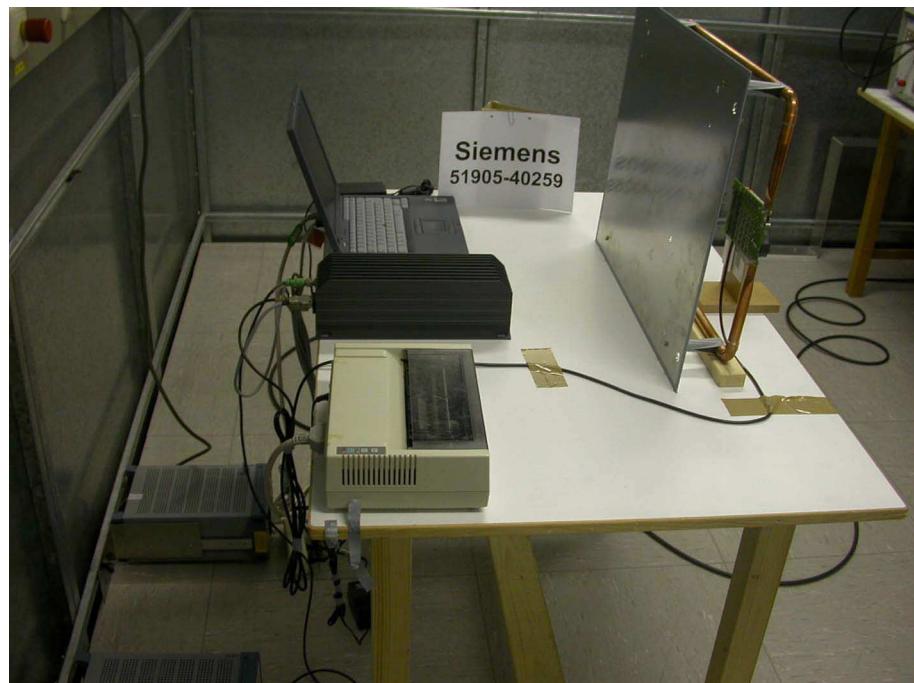
**Test setup for conducted power line emission measurement**

Antenna no. 2



**Test setup for conducted power line emission measurement**

Antenna no. 2



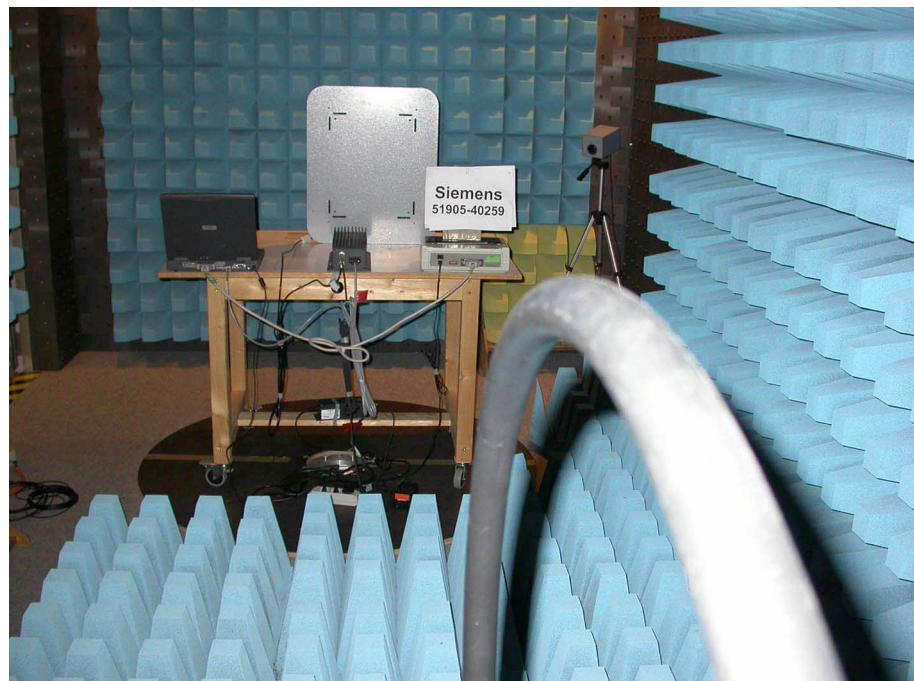
**Test setup for spurious radiation measurement**

Antenna no. 1



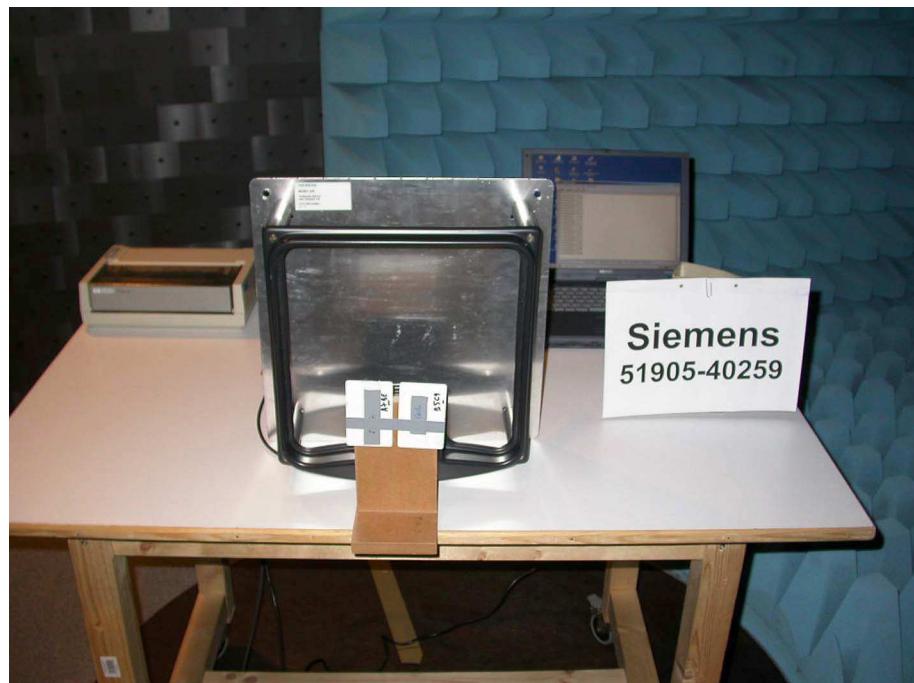
**Test setup for spurious radiation measurement**

Antenna no. 2



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

Antenna no. 1



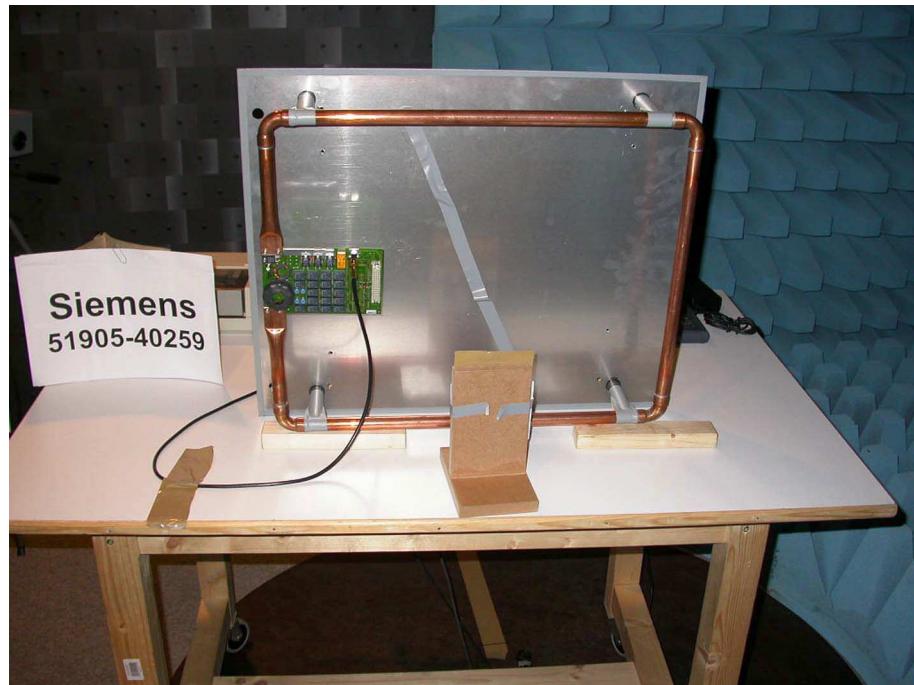
## Test setup for radiated emission measurement (fully anechoic room)

Antenna no. 1



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

Antenna no. 2



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

Antenna no. 2



**Test setup for radiated emission measurement  
(open area test site)**

Antenna no. 1



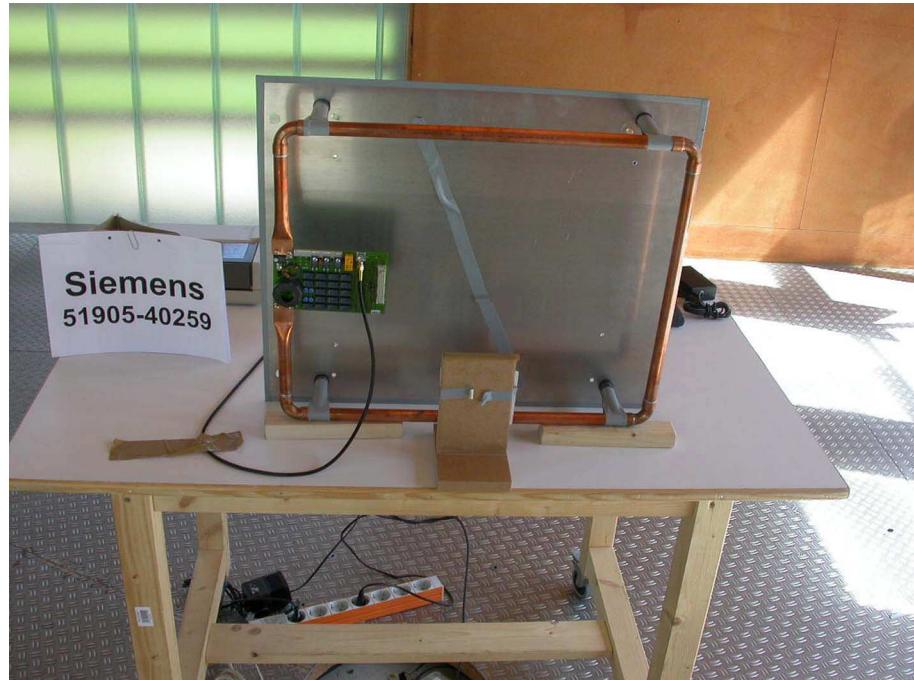
**Test setup for radiated emission measurement  
(open area test site)**

Antenna no. 1



**Test setup for radiated emission measurement  
(open area test site)**

Antenna no. 2



## Test setup for radiated emission measurement (open area test site)

Antenna no. 2



## 7. List of Measurements

### Antenna No. 1: ANT D5/ANT F5, 6GT2 690-0AB00

FCC Part 15			
Section(s):	Test	Page(s)	Result
15.205	Restricted Bands		
15.207	AC Powerline Emissions Tested with dummy load at antenna port (50 Ω)	---	Pass
15.109	Radiated Spurious emissions	---	Pass

## Conducted Powerline Emission Measurement

Rules and Specifications:	15.107, 15.207		
Guide:	CISPR 22		
Limit:	Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
		Quasi-peak	
	0.15-0.5	66 to 56	
	0.5 - 5	56	
	5 - 30	56 to 46	
		46	
		50	

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	28 Juni 2004

Frequency (MHz)	Detector	Analyzer Reading (dB $\mu$ V)	Correction Factor (dB)	Final Value (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)
0.280	AV	39.1	0	39.1	50.8	11.7
0.285	AV	36.2	0	36.2	50.7	14.5
0.420	AV	34.7	0	34.7	47.4	12.7
0.845	AV	33.7	0	33.7	46.0	12.3
1,405	AV	32.4	0	32.4	46.0	13.6
8,435	AV	34.2	0	34.2	50.0	15.8
13,560	AV	48.6	0	48.6	50.0	1.4
27,120	AV	43.9	0	43.9	50.0	6.1

### Sample calculation of Final values:

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

Test Results:	Pass	
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## Spurious Radiation Measurement 9 kHz – 30 MHz

Rules and Specifications:	15.109, 125.209 Radiated Emission Limits		
Guide:	ANSI C63.4		
Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:		
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705 – 30	30	30	

Tested Frequency:	
Test Site:	Open Area Test Site
Distance:	30 Meter

Transmitting continuously

Frequency (MHz)	Detector	Analyzer Reading (dB $\mu$ V)	Correction Factor (dB/m)	Field Strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
13.560	QP	52.0	20.0	72.0	84.0	12.0
27.120	QP	-3.3	20.0	16.7	29.5	12.8

\*\*\* = All emissions showed more than 20 dB margin to the limit

### Sample calculation of erp values:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Correction Factor (dB/m)}$$

Test Results:	Pass	
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## Spurious Radiation Measurement 9 kHz – 30 MHz

Rules and Specifications:	15.109, 125.209 Radiated Emission Limits		
Guide:	ANSI C63.4		
Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:		
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705 – 30	30	30	

Tested Frequency:	
Test Site:	Open Area Test Site
Distance:	30 Meter

Reading transponder continuously

Frequency (MHz)	Detector	Analyzer Reading (dB $\mu$ V)	Correction Factor (dB/m)	Field Strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
13.560	QP	52.0	20.0	72.0	84.0	12.0
27.120	QP	-3.0	20.0	17.0	29.5	12.5

### Sample calculation of erp values:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Correction Factor (dB/m)}$$

Test Results:	Pass	
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## Spurious Radiation Measurement

Rules and Specifications:	15.109, 125.209 Radiated Emission Limits	
Guide:	ANSI C63.4	
Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:	
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	
30 - 88	100	
88 - 216	150	
216 - 960	200	
Above 960	500	

Tested Frequency:	
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dB $\mu$ V)	Correction Factor (dB/m)	Field Strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
40.680	QP	vertical	26.3	11.8	38.1	40.0	1.9
54.240	QP	vertical	27.1	10.3	37.4	40.0	2.6
67.800	QP	vertical	21.3	9.7	31.0	40.0	9.0
81.360	QP	vertical	22.9	9.7	32.6	40.0	7.4
88.100	QP	vertical	27.1	9.9	37.0	43.5	6.5
108.360	QP	vertical	23.5	11.4	34.9	43.5	8.6
135.600	QP	vertical	22.8	13.4	36.2	43.5	7.3
162.720	QP	vertical	24.1	14.3	38.4	43.5	5.1
311.880	QP	vertical	13.4	15.7	29.1	46.0	16.9

### Sample calculation of erp values:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Correction Factor (dB/m)}$$

Test Results:	Pass	
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## 8. List of Measurements

FCC-ID:

Test Report No. 51905-40259

**Antenna No. 2: MOBY D ANT D6, 6GT2 698-5AB00**

FCC Part 15			
Section(s):	Test	Page(s)	Result
15.205	Restricted Bands		
15.207	AC Powerline Emissions Tested with dummy load at antenna port (50 Ω)	---	Pass
15.109	Radiated Spurious emissions	---	Pass

## Conducted Powerline Emission Measurement

Rules and Specifications:	15.107, 15.207		
Guide:	CISPR 22		
Limit:	Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56	56 to 46
	0.5 - 5	56	46
	5 - 30	60	50

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	28 Juni 2004

Frequency (MHz)	Detector	Analyzer Reading (dB $\mu$ V)	Correction Factor (dB)	Final Value (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)
0.150	AV	37.1	0	37.1	56.0	18.9
0.280	AV	39.2	0	39.2	50.8	11.6
0.845	AV	34.3	0	34.3	46.0	11.7
1.405	AV	31.6	0	31.6	46.0	14.4
2.530	AV	31.0	0	31.0	46.0	15.0
7.870	AV	31.7	0	31.7	50.0	18.3
8.435	AV	34.7	0	34.7	50.0	15.3
13.560	AV	48.6	0	48.6	50.0	1.4
27.120	AV	46.1	0	46.1	50.0	3.9

\*\*\* = No emissions above noise floor detected

Sample calculation of Final values:

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

Test Results:	Pass	
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FCC-ID:

Test Report No. 51905-40259

## Spurious Radiation Measurement 9 kHz – 30 MHz

Rules and Specifications:	15.109, 125.209 Radiated Emission Limits		
Guide:	ANSI C63.4		
Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:		
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705 – 30	30	30	

Tested Frequency:	
Test Site:	Open Area Test Site
Distance:	30 Meter

Transmitting continuously

Frequency (MHz)	Detector	Analyzer Reading (dB $\mu$ V)	Correction Factor (dB/m)	Field Strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
13.560	QP	58.1	20.0	78.1	84.0	5.9
27.120	QP	-25.0	20.0	-5.0	29.5	34.5

\*\*\* = All emissions showed more than 20 dB margin to the limit

### Sample calculation of erp values:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Correction Factor (dB/m)}$$

Test Results:	Pass	
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## Spurious Radiation Measurement 9 kHz – 30 MHz

Rules and Specifications:	15.109, 125.209 Radiated Emission Limits		
Guide:	ANSI C63.4		
Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:		
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705 – 30	30	30	

Tested Frequency:	
Test Site:	Open Area Test Site
Distance:	30 Meter

Reading transponder continuously

Frequency (MHz)	Detector	Analyzer Reading (dB $\mu$ V)	Correction Factor (dB/m)	Field Strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
13.560	QP	58.2	20.0	78.2	84.0	5.8
27.120	QP	-25.8	20.0	-5.8	29.5	35.3

### Sample calculation of erp values:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Correction Factor (dB/m)}$$

Test Results:	Pass	
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## Spurious Radiation Measurement

Rules and Specifications:	15.109, 125.209 Radiated Emission Limits	
Guide:	ANSI C63.4	
Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:	
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	
30 - 88	100	
88 - 216	150	
216 - 960	200	
Above 960	500	

Tested Frequency:	
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dB $\mu$ V)	Correction Factor (dB/m)	Field Strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
40.68	QP	vertical	27.4	11.8	39.2	40.0	0.8
54.24	QP	vertical	27.3	10.3	37.6	40.0	2.4
67.80	QP	vertical	19.3	9.7	29.0	40.0	11.0
81.36	QP	vertical	24.5	9.7	34.2	40.0	5.8
122.04	QP	vertical	24.8	12.5	37.3	43.5	6.2
135.60	QP	vertical	19.6	13.4	33.0	43.5	10.5
162.72	QP	horizontal	24.5	14.3	37.8	43.5	5.7
189.88	QP	horizontal	12.6	16.0	28.6	43.5	14.9
203.40	QP	vertical	13.5	16.8	30.3	43.5	13.2
311.98	QP	vertical	11.9	15.7	27.6	46.0	18.4
325.54	QP	vertical	12.4	16.2	28.6	46.0	17.4

\*\*\* = All emissions showed more than 20 dB margin to the limit

### Sample calculation of erp values:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Correction Factor (dB/m)}$$

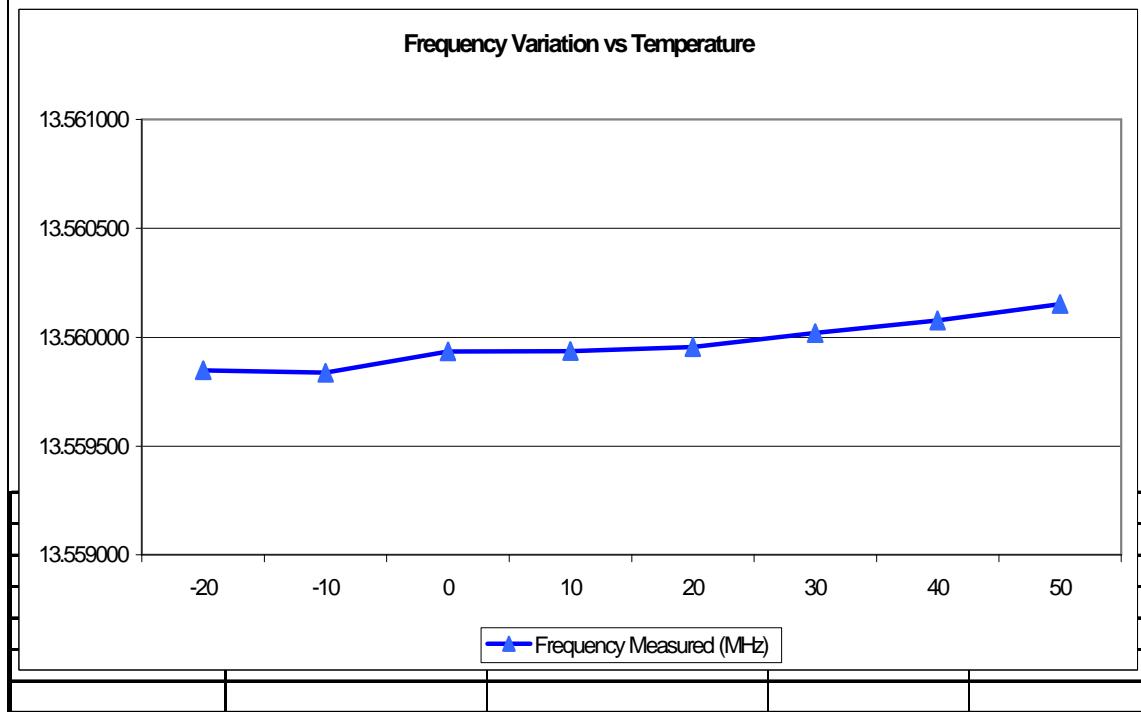
Test Results:	Pass	
---------------	------	--

**Measurement of Frequency Stability vs Temperature**

Rules and Specifications:	Section 74.861 (e) (4), 2.1055
Limits and Requirements:	The frequency tolerance of the transmitter shall be 0.005 %
Nominal Frequency of EUT:	13.559955 MHz

**Temperature Variation Table**

Temperature (°C)	Nominal Frequency (MHz)	Frequency Measured (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
-20	13.559955	13.559848	-7.89	50
-10	13.559955	13.559836	-8.78	50
0	13.559955	13.559935	-1.47	50
10	13.559955	13.559936	-1.40	50
20	13.559955	13.559955	0.00	50
30	13.559955	13.560019	4.72	50
40	13.559955	13.560077	9.00	50
50	13.559955	13.560152	14.53	50



<b>Test Results:</b>	Pass	
----------------------	------	--

**Measurement of Frequency Stability vs Supply Voltage**

Rules and Specifications:	Sections 74.861 (e) (4), 2.1055 (d)
Limits and Requirements:	The frequency tolerance of the transmitter shall be 0.005 %
Nominal Frequency of EUT:	13.559955
Battery end-point:	

**Voltage Variation Table**

Supply Voltage (V)	Nominal Frequency (MHz)	Frequency Measured (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
20.4	13.559955	13.559929	-1.92	50
24.0	13.559955	13.559955	0.00	50
27.6	13.559955	13.559974	1.40	50

Test Results:	Pass	
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## 9. Referenced Regulations

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

<input checked="" type="checkbox"/>	FCC Part 2	Code of Federal Regulations Part 2 Frequency allocation and radio treaty matters; General rules and regulations	October 01, 1999
<input type="checkbox"/>	FCC Part 15 Subpart A	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)	October 20, 1997
<input type="checkbox"/>	FCC Part 15 Subpart B	Code of Regulations Part 15 (Radio Frequency Devices), Subpart B (Unintentional Radiators) of the Federal Communication Commission (FCC)	October 20, 1997
<input type="checkbox"/>	FCC Part 15 Subpart C	Code of Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)	October 20, 1997
<input checked="" type="checkbox"/>	FCC Part 74 Subpart H	Code of Regulations Part 15 (Radio Frequency Devices), Subpart H (Low Power Auxiliary Stations) of the Federal Communication Commission (FCC)	October 20, 1997
<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 - 40 GHz	October, 1992
<input type="checkbox"/>	RSS-210	Radio Standards Specification RSS-210 Issue 2 for Low Power Licence-Exempt Radiocommunication Devices of Industry Canada	February 24, 1996

**Charts taken during testing**

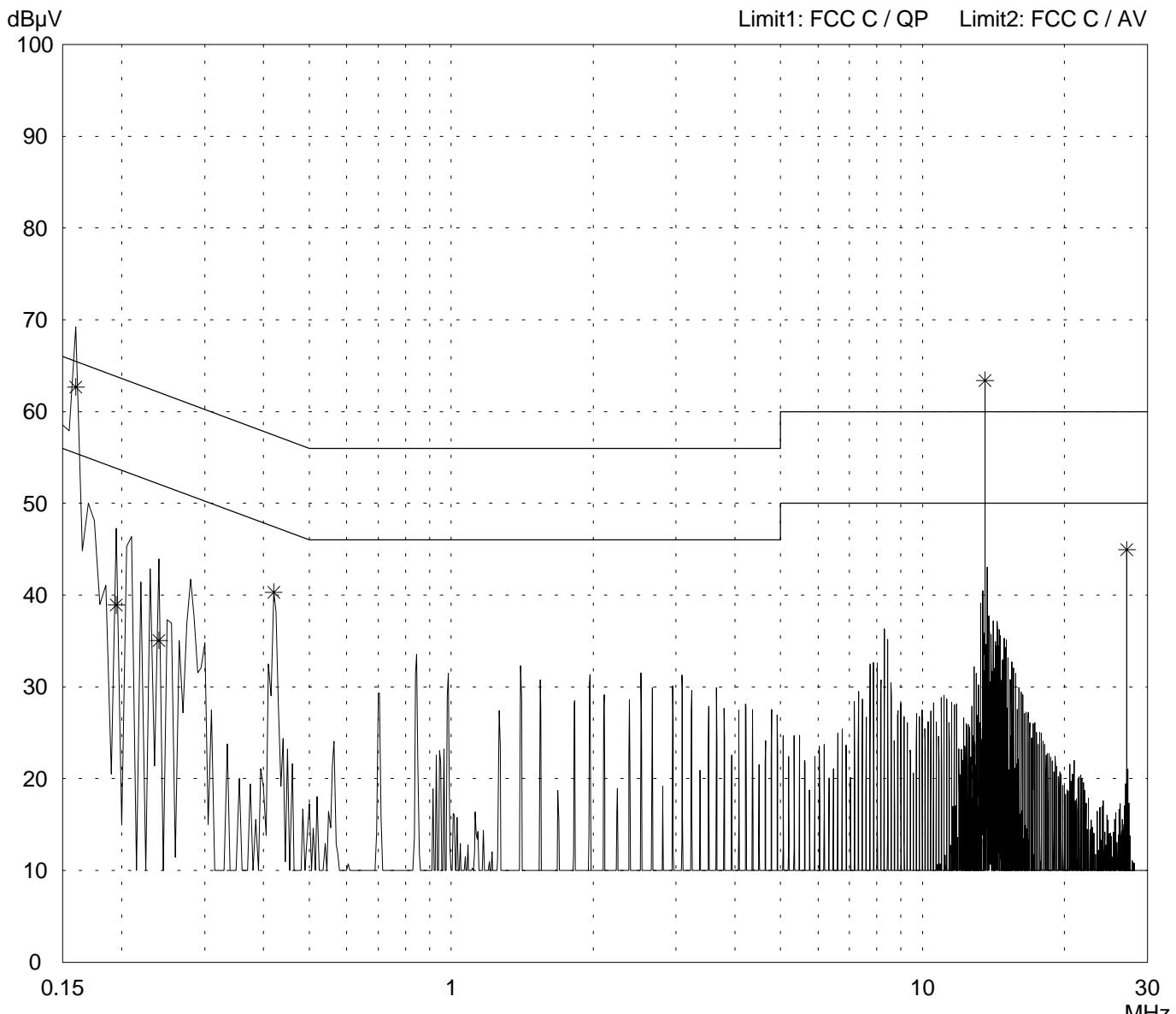
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply Phase L1
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

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

Final results: 20 dB Margin	25 Subranges
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Result: Limit kept
-----------------------

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**Conducted Emission Test 150 kHz - 30 MHz  
according to FCC Part 15 Subpart C**

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply Phase L1
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

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

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

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.160	62.7		62.7	65.5	
0.195	38.9		38.9	63.8	
0.240	35.1		35.1	62.1	
0.420	40.3		40.3	57.4	
13.560	63.4		63.4	60.0	
27.120	44.9		44.9	60.0	*

Result: Limit kept
-----------------------

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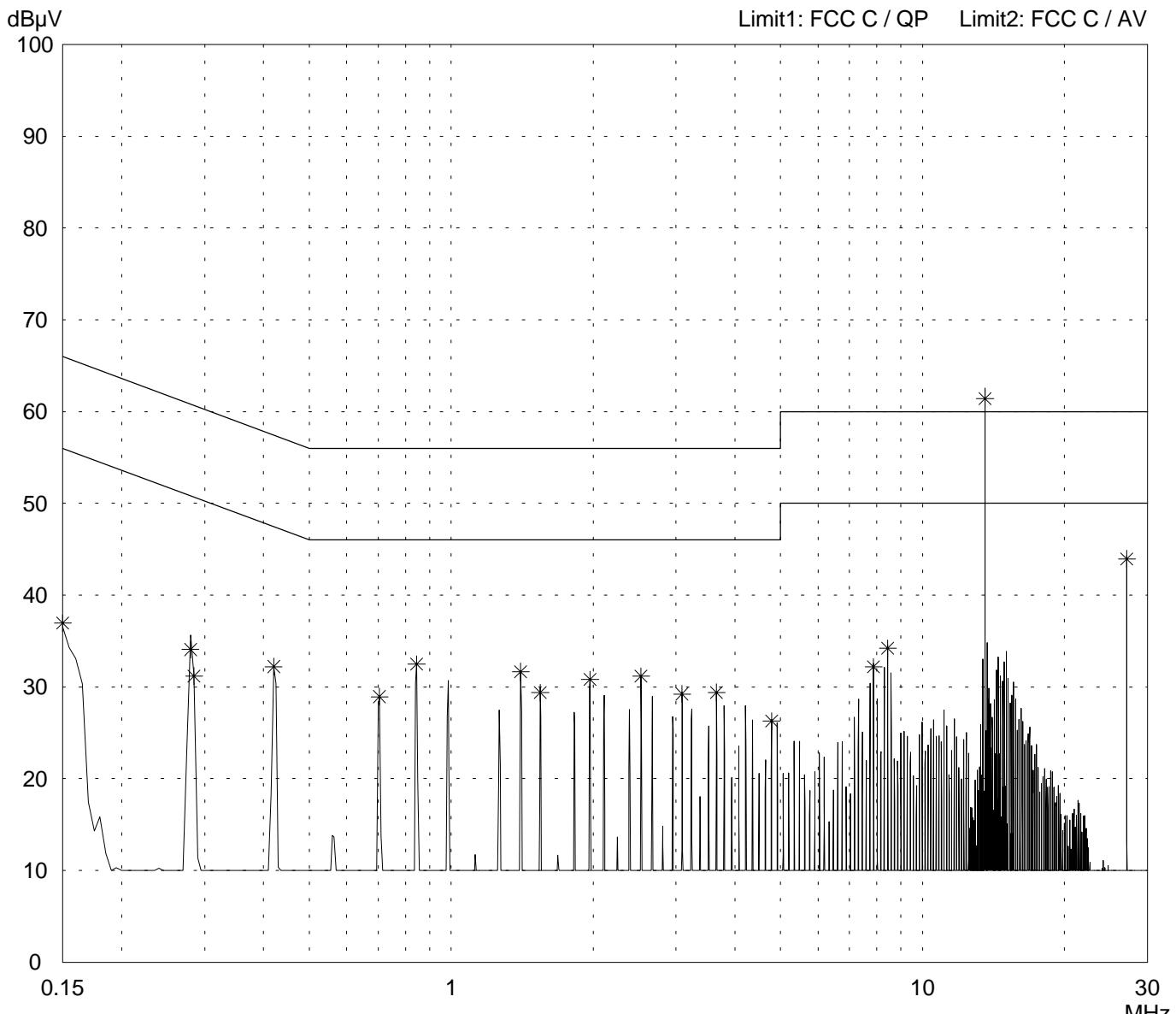
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply Phase L1
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

Detector: Average / Final Results: AV
--

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



Result: Limit kept
-----------------------

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**Conducted Emission Test 150 kHz - 30 MHz**  
**according to FCC Part 15 Subpart C**

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply Phase L1
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

Detector: Average / Final Results: AV
--

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

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.150	36.9		36.9	56.0	
0.280	34.1		34.1	50.8	
0.285	31.2		31.2	50.7	
0.420	32.2		32.2	47.4	
0.705	28.9		28.9	46.0	
0.845	32.5		32.5	46.0	
1.405	31.7		31.7	46.0	
1.545	29.4		29.4	46.0	
1.970	30.8		30.8	46.0	
2.530	31.2		31.2	46.0	
3.090	29.2		29.2	46.0	
3.655	29.4		29.4	46.0	
4.780	26.3		26.3	46.0	
7.870	32.2		32.2	50.0	
8.435	34.2		34.2	50.0	
13.560	61.4		61.4	50.0	
27.120	43.9		43.9	50.0	*

Result: Limit kept
-----------------------

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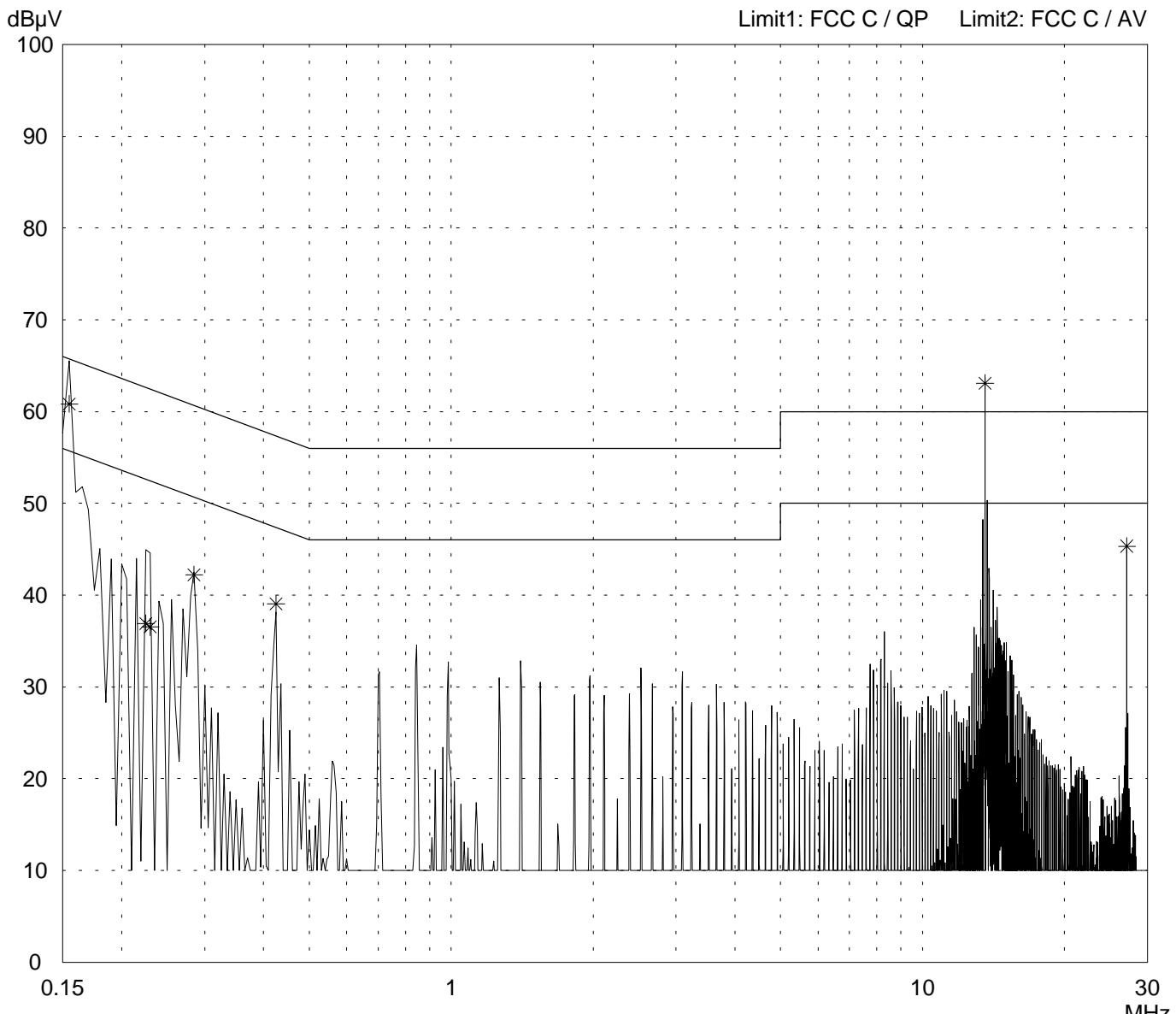
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply Phase N
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

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

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



Result: Limit kept
-----------------------

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**Conducted Emission Test 150 kHz - 30 MHz  
according to FCC Part 15 Subpart C**

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply Phase N
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

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

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

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.155	60.8		60.8	65.7	
0.225	36.9		36.9	62.6	
0.230	36.5		36.5	62.4	
0.285	42.2		42.2	60.7	
0.425	39.1		39.1	57.3	
13.560	63.1		63.1	60.0	
27.120	45.3		45.3	60.0	*

Result: Limit kept
-----------------------

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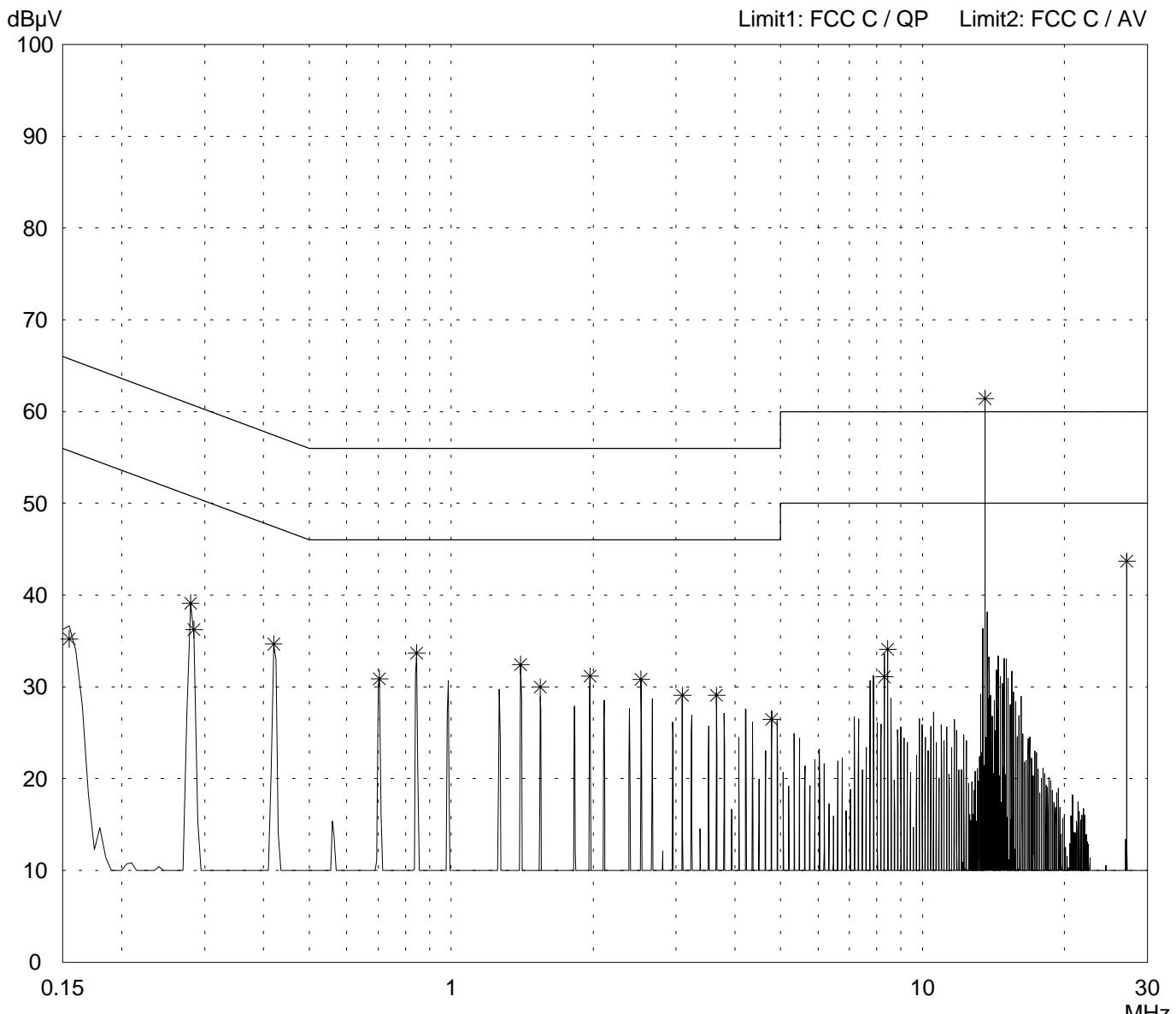
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D10 with antenna testsample No. 1	
Serial no.: SN 100919521.09	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord 230 V AC power supply Phase N	
Date of test: 06/28/2004	Operator: K. Roidt
Test performed: automatically	File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

Detector: Average / Final Results: AV
--

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



Result: Limit kept
-----------------------

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**Conducted Emission Test 150 kHz - 30 MHz**  
**according to FCC Part 15 Subpart C**

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply Phase N
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

Detector: Average / Final Results: AV
--

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

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.155	35.2		35.2	55.7	
0.280	39.1		39.1	50.8	
0.285	36.2		36.2	50.7	
0.420	34.7		34.7	47.4	
0.705	30.9		30.9	46.0	
0.845	33.7		33.7	46.0	
1.405	32.4		32.4	46.0	
1.545	30.0		30.0	46.0	
1.970	31.2		31.2	46.0	
2.530	30.8		30.8	46.0	
3.095	29.1		29.1	46.0	
3.655	29.1		29.1	46.0	
4.780	26.5		26.5	46.0	
8.295	31.1		31.1	50.0	
8.435	34.1		34.1	50.0	
13.560	61.4		61.4	50.0	*
27.120	43.7		43.7	50.0	

Result: Limit kept
-----------------------

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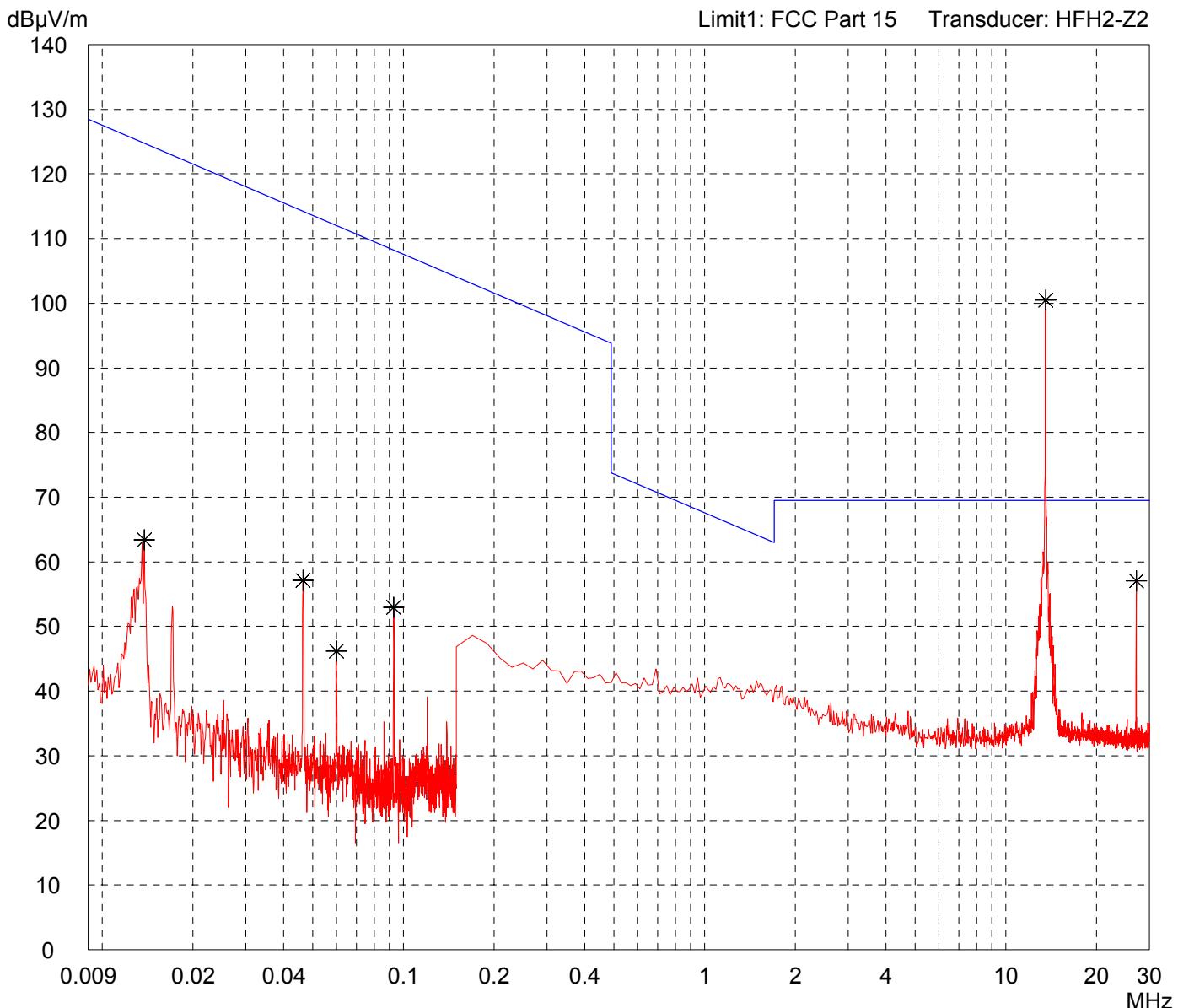
# Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Fully anechoic room, cabin no. 2
Tested on: Test distance 3 metres Vertical Polarization
Date of test: 04/13/2004      Operator: K. Roidt
Test performed: by hand      File name: default.emi

Comment:  FCC testsetup No. 1 modulation 15 % outputpower 4 W i-code datacoding fast 1 / 1 with TAG Supply Voltage: 24 V DC external
---

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

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



Result: Prescan
--------------------

Project file: 51905-40259
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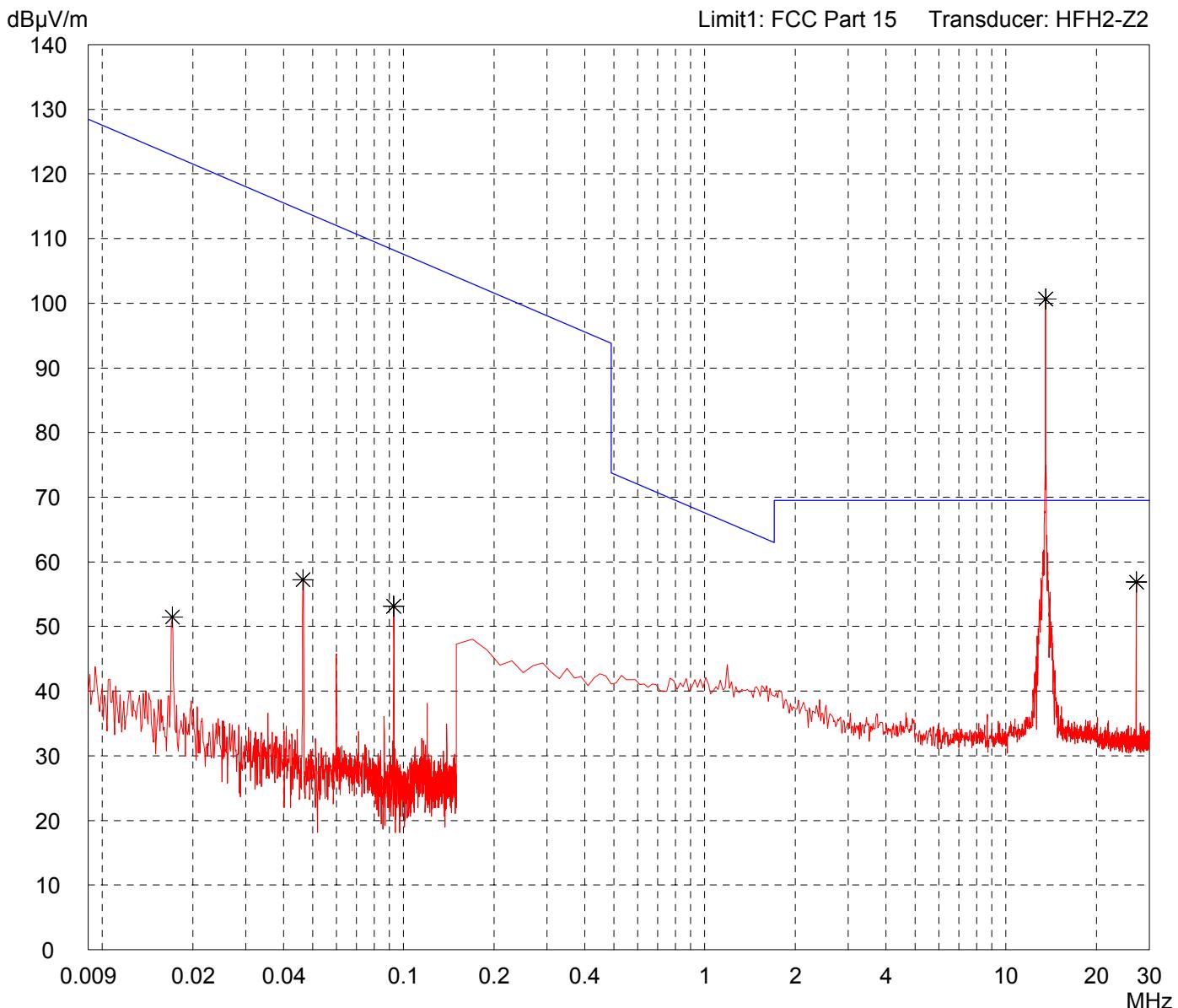
# Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Fully anechoic room, cabin no. 2
Tested on: Test distance 3 metres Vertical Polarization
Date of test: 04/13/2004      Operator: K. Roidt
Test performed: by hand      File name: default.emi

Comment:  FCC testsetup No. 1 modulation 15 % outputpower 4 W i-code datacoding fast 1 / 1 without TAG Supply Voltage: 24 V DC external
--

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

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



Result: O Limit kept   O Limit not kept
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Project file: 51905-40259
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# Radiated Emission Test 30 MHz - 1 GHz

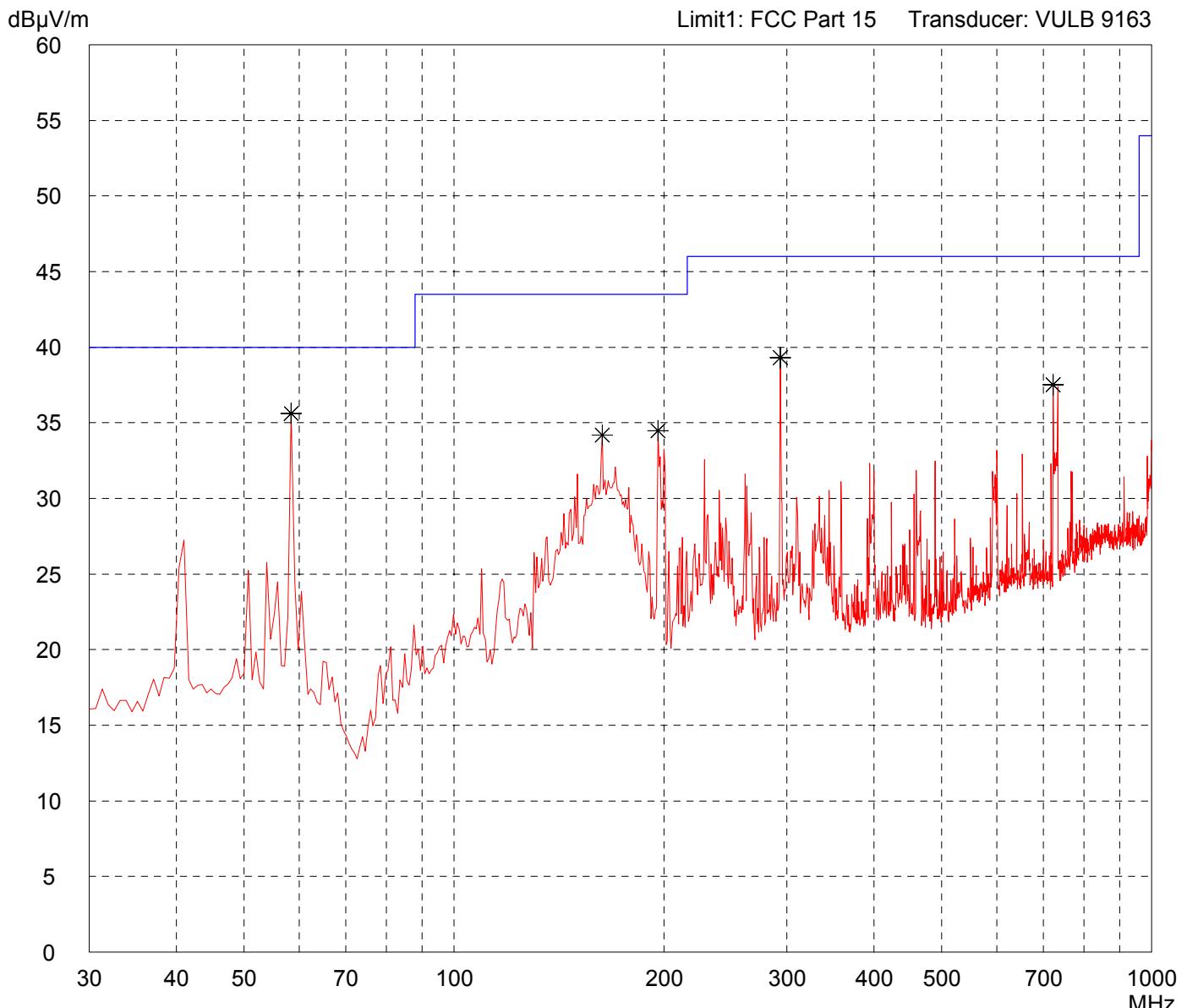
## acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D10 with antenna testsample No. 1
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Fully anechoic room, cabin no. 2
Tested on: Test distance 3 metres Horizontal Polarization
Date of test: 04/13/2004      Operator: K. Roidt
Test performed: automatically      File name: default.emi

Comment: FCC testsetup No. 1 modulation 15 % outputpower 4 W i-code datacoding fast 1 / 1 with TAG Supply Voltage: 24 V DC external
---

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

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



Result: Prescan
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Project file: 51905-40259
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# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:  
Moby D SLG D10 with antenna testsample No. 1

Serial no.:  
SN 100919521.09

Applicant:  
Siemens AG

Test site:  
Fully anechoic room, cabin no. 2

Tested on:  
Test distance 3 metres  
Vertical Polarization

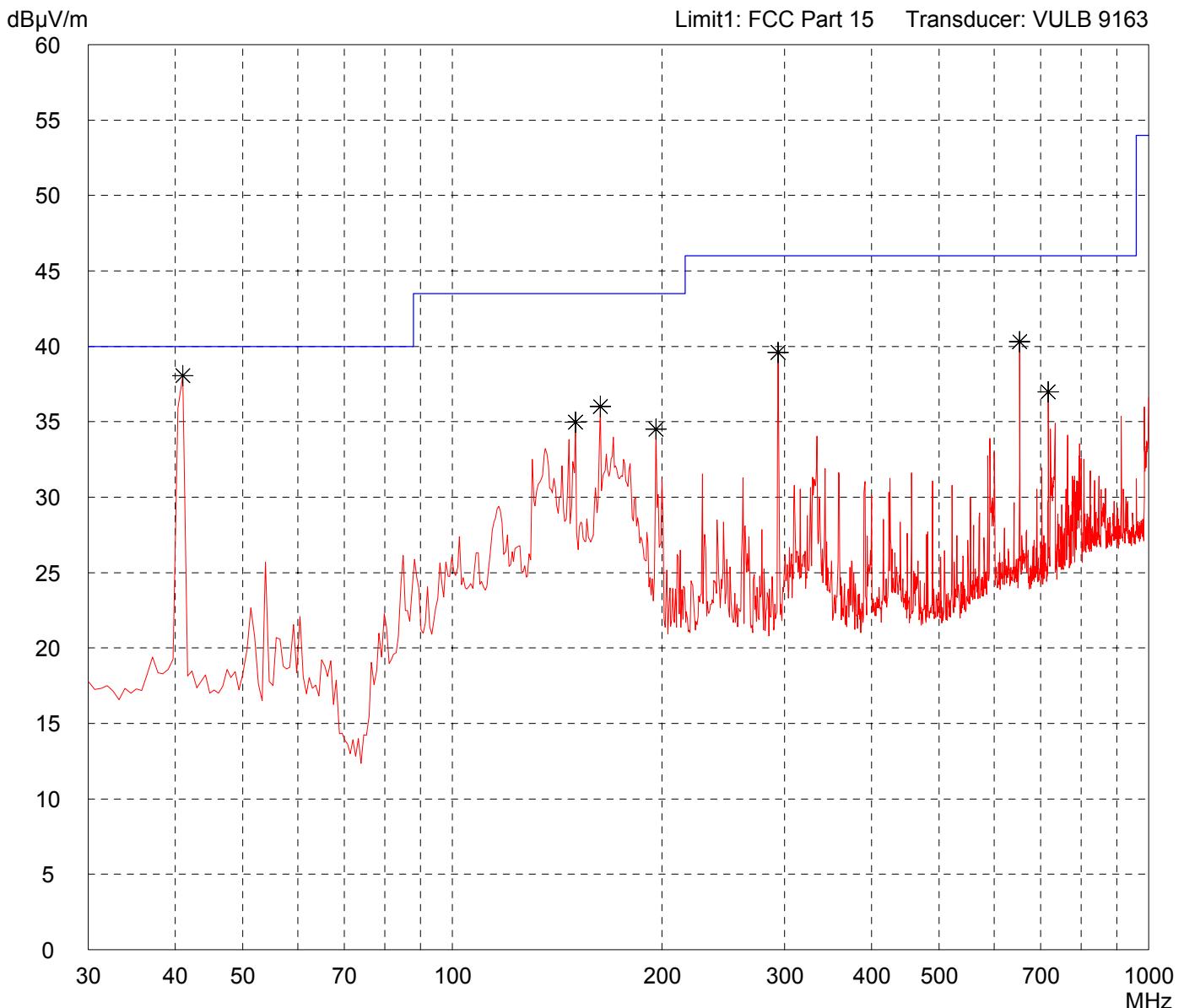
Date of test: 04/13/2004      Operator: K. Roidt

Test performed: automatically      File name: default.emi

Comment:  
FCC testsetup No. 1  
modulation 15 %  
outputpower 4 W  
i-code datacoding fast 1 / 1  
with TAG  
Supply Voltage: 24 V DC external

Detector:  
Peak

List of values:  
10 dB Margin      50 Subranges



Result:  
Prescan

Project file:  
51905-40259

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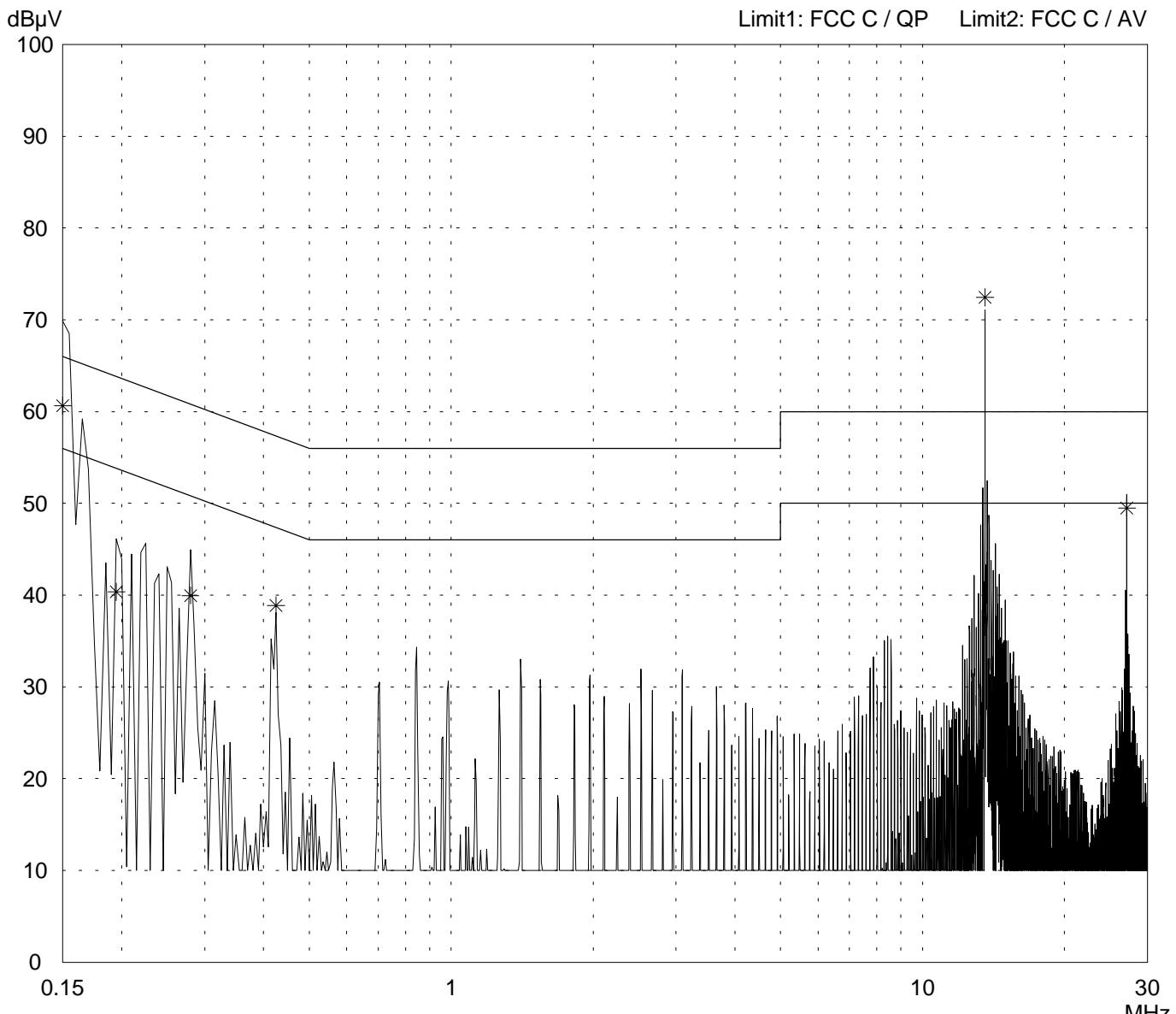
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply EUT Phase L1
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

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

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



Result: Limit kept
-----------------------

Project file: 51905-40259
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**Conducted Emission Test 150 kHz - 30 MHz  
according to FCC Part 15 Subpart C**

Model: Moby D SLG D10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply EUT Phase L1
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

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

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

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.150	60.6		60.6	66.0	
0.195	40.4		40.4	63.8	
0.280	40.0		40.0	60.8	
0.425	38.9		38.9	57.3	
13.560	72.5		72.5	60.0	
27.120	49.5		49.5	60.0	*

Result: Limit kept
-----------------------

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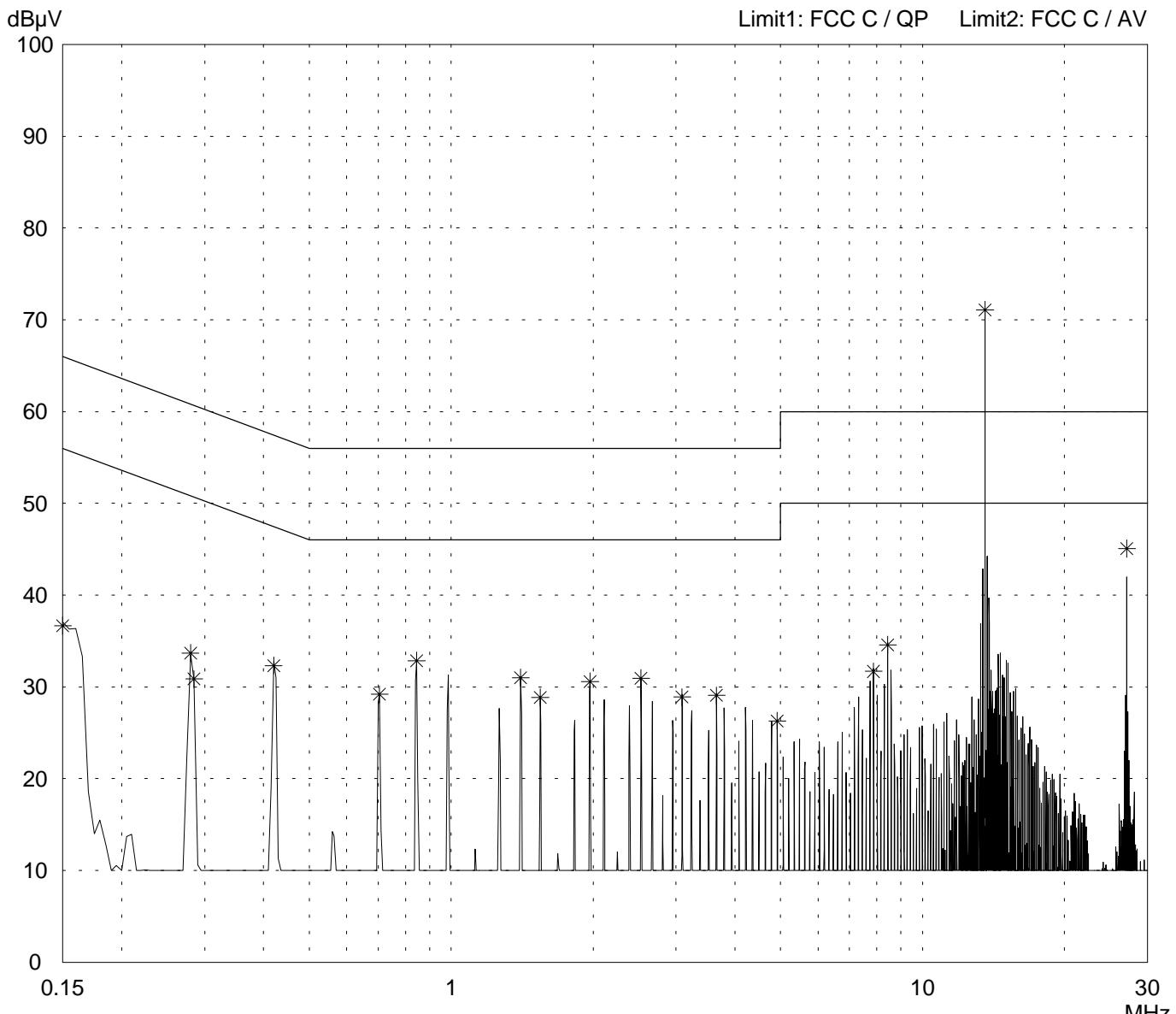
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D10 with antenna testsample No. 2	
Serial no.: SN 100919521.09	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord 230 V AC power supply EUT Phase L1	
Date of test: 06/28/2004	Operator: K. Roidt
Test performed: automatically	File name:

Mode: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

Detector: Average / Final Results: AV
--

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



Result: Limit kept
-----------------------

Project file: 51905-40259
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**Conducted Emission Test 150 kHz - 30 MHz**  
**according to FCC Part 15 Subpart C**

Model: Moby D SLG D10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply EUT Phase L1
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

Detector: Average / Final Results: AV
--

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

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.150	36.7		36.7	56.0	
0.280	33.7		33.7	50.8	
0.285	30.9		30.9	50.7	
0.420	32.3		32.3	47.4	
0.705	29.2		29.2	46.0	
0.845	32.9		32.9	46.0	
1.405	31.0		31.0	46.0	
1.545	28.9		28.9	46.0	
1.970	30.6		30.6	46.0	
2.530	31.0		31.0	46.0	
3.090	28.9		28.9	46.0	
3.655	29.1		29.1	46.0	
4.920	26.3		26.3	46.0	
7.875	31.7		31.7	50.0	
8.435	34.6		34.6	50.0	
13.560	71.1		71.1	50.0	
27.120	45.1		45.1	50.0	*

Result: Limit kept
-----------------------

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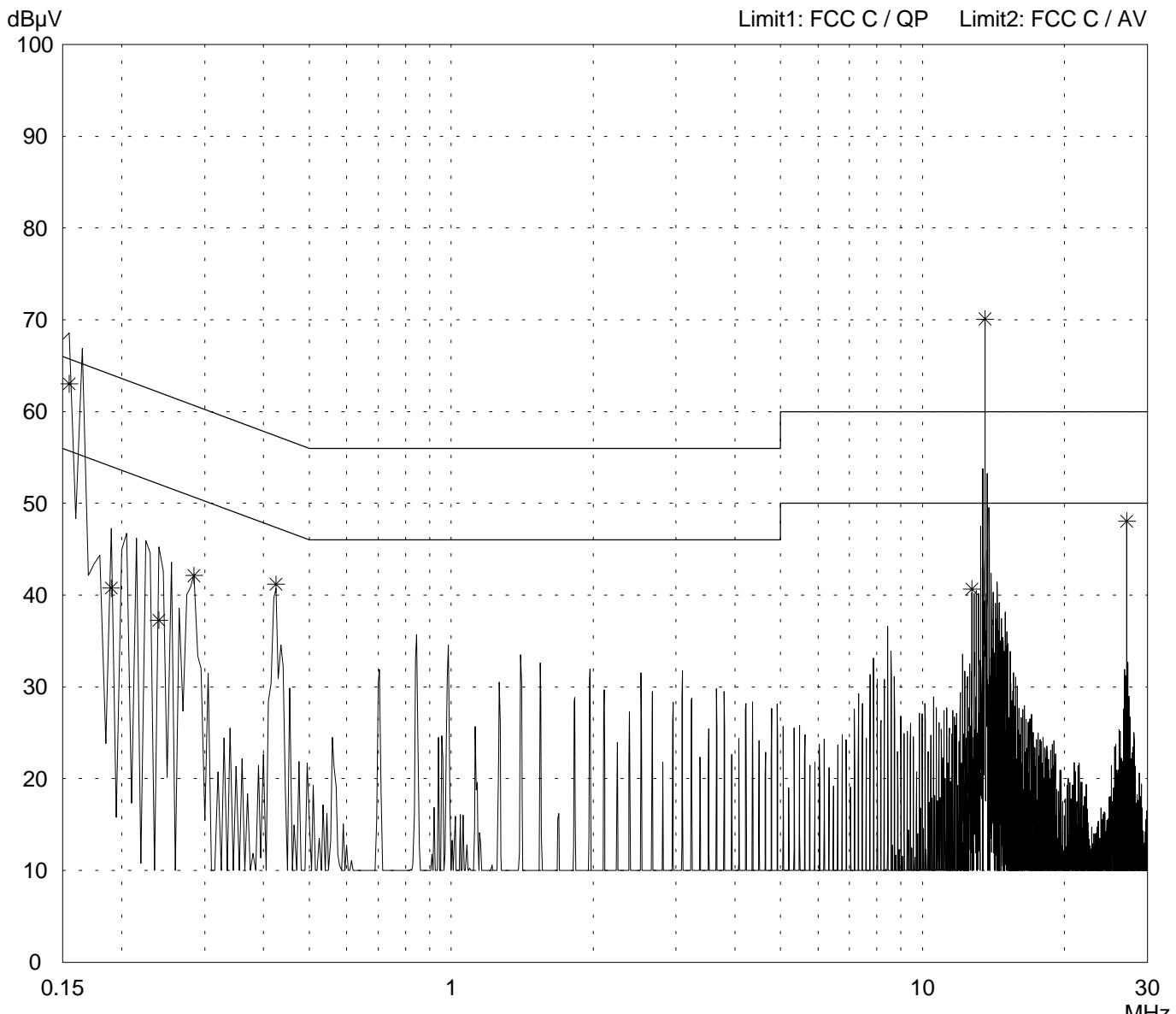
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply EUT Phase N
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

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

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



Result:  
Limit kept

Project file:  
51905-40259

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**Conducted Emission Test 150 kHz - 30 MHz  
according to FCC Part 15 Subpart C**

Model: Moby D SLG D10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply EUT Phase N
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

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

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

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.155	63.0		63.0	65.7	
0.190	40.8		40.8	64.0	
0.240	37.3		37.3	62.1	
0.285	42.1		42.1	60.7	
0.425	41.2		41.2	57.3	
12.715	40.7		40.7	60.0	
13.560	70.1		70.1	60.0	*
27.120	48.1		48.1	60.0	

Result: Limit kept
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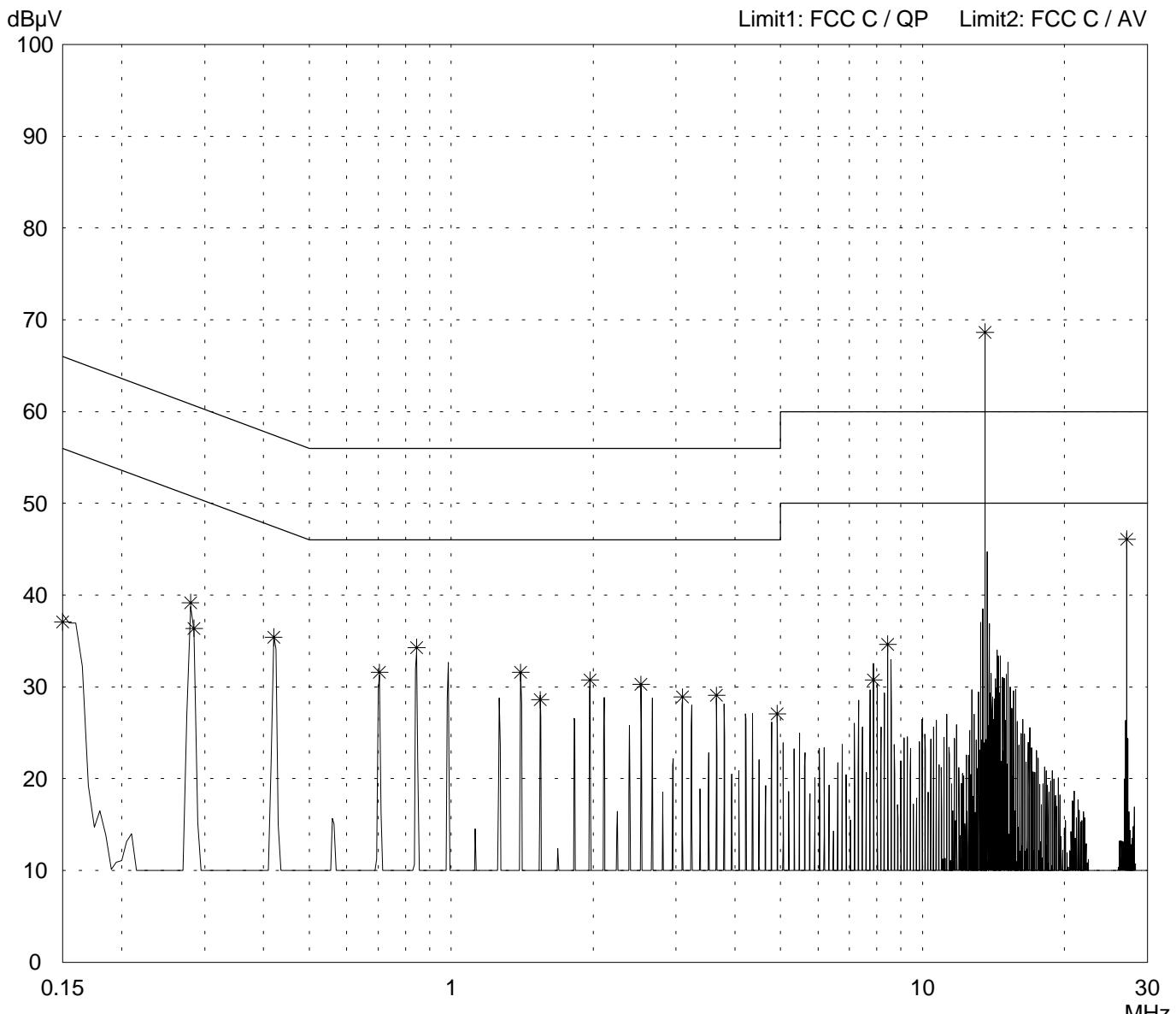
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply EUT Phase N
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

Detector: Average / Final Results: AV
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Final results: 20 dB Margin	25 Subranges
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Result: Limit kept
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Project file: 51905-40259
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**Conducted Emission Test 150 kHz - 30 MHz**  
**according to FCC Part 15 Subpart C**

Model: Moby D SLG D10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Shielded room, cabin no. 2
Tested on: Linecord 230 V AC power supply EUT Phase N
Date of test: 06/28/2004      Operator: K. Roidt
Test performed: automatically      File name:

Mode: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded

Detector: Average / Final Results: AV
--

Final results: 20 dB Margin	25 Subranges
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Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.150	37.1		37.1	56.0	
0.280	39.2		39.2	50.8	
0.285	36.4		36.4	50.7	
0.420	35.4		35.4	47.4	
0.705	31.6		31.6	46.0	
0.845	34.3		34.3	46.0	
1.405	31.6		31.6	46.0	
1.545	28.6		28.6	46.0	
1.970	30.7		30.7	46.0	
2.530	30.3		30.3	46.0	
3.095	28.9		28.9	46.0	
3.655	29.1		29.1	46.0	
4.920	27.1		27.1	46.0	
7.870	30.8		30.8	50.0	
8.435	34.7		34.7	50.0	
13.560	68.7		68.7	50.0	
27.120	46.1		46.1	50.0	*

Result: Limit kept
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Project file: 51905-40259	Page 61 of 75 Pages
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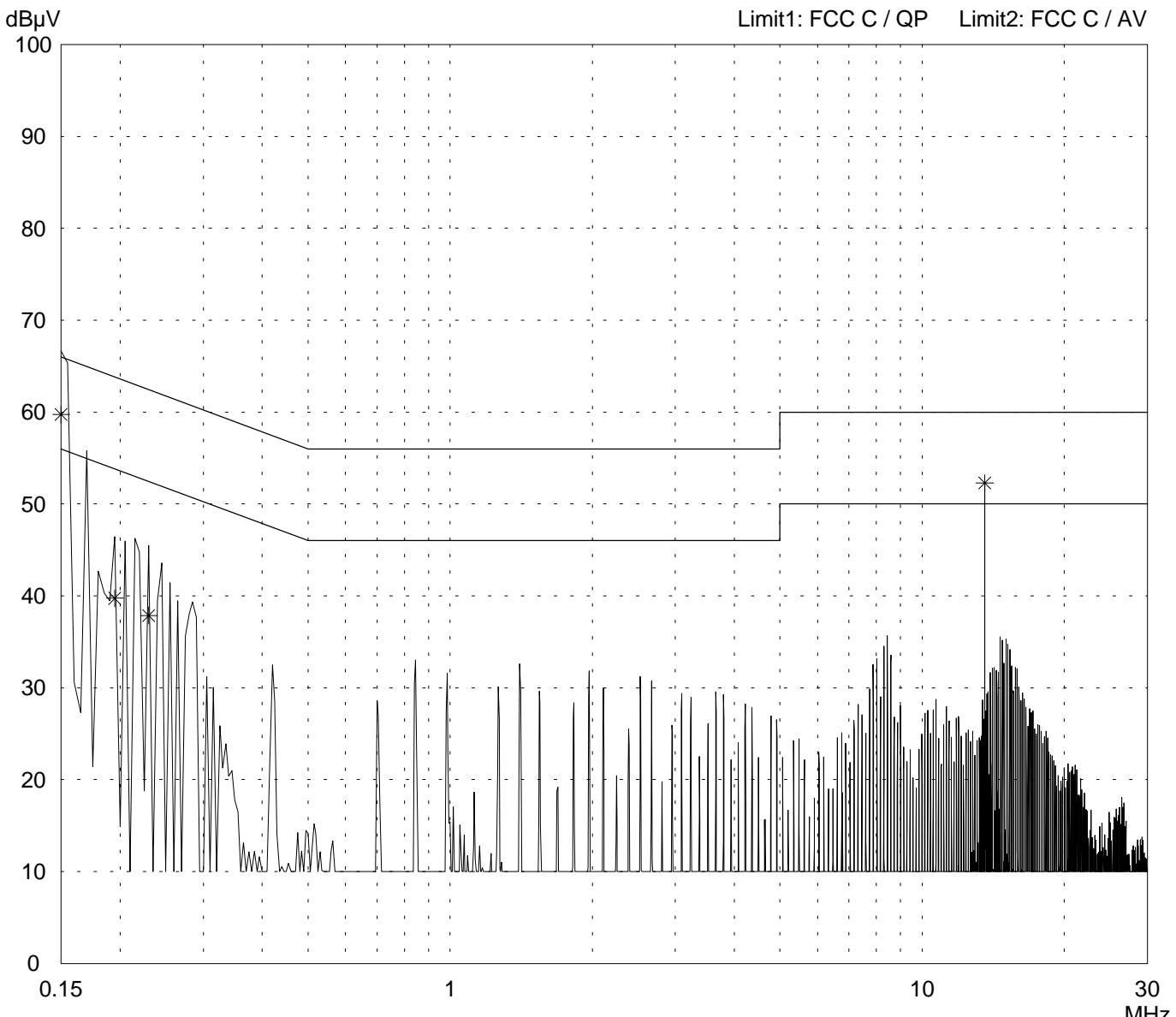
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Shielded room, cabin no. 2</b>	
Tested on: <b>Linecord EUT Phase L1</b>	
Date of test: <b>06/22/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>FCC testsetup No. 1</b>
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded
with terminator (50 ohms)

Detector:  
**Peak / Final Results: QP**

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



Result:  
**Limit kept**

Project file:  
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**Conducted Emission Test 150 kHz - 30 MHz  
according to FCC Part 15 Subpart C**

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Shielded room, cabin no. 2</b>	
Tested on: <b>Linecord EUT Phase L1</b>	
Date of test: <b>06/22/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>FCC testsetup No. 1</b>
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded
with terminator (50 ohms)

Detector: <b>Peak / Final Results: QP</b>
--

Final results: <b>20 dB Margin</b>	<b>25 Subranges</b>
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<i>Frequency MHz</i>	<i>Reading dB<math>\mu</math>V</i>	<i>Correction factor dB</i>	<i>Value dB<math>\mu</math>V</i>	<i>Limit dB<math>\mu</math>V</i>	<i>Limit exceeded</i>
0.150	59.7		59.7	66.0	
0.195	39.7		39.7	63.8	
0.230	37.9		37.9	62.4	
13.560	52.3		52.3	60.0	

<b>Result:</b> <b>Limit kept</b>
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<b>Project file:</b> <b>51905-40259</b>	<b>Page 63 of 75 Pages</b>
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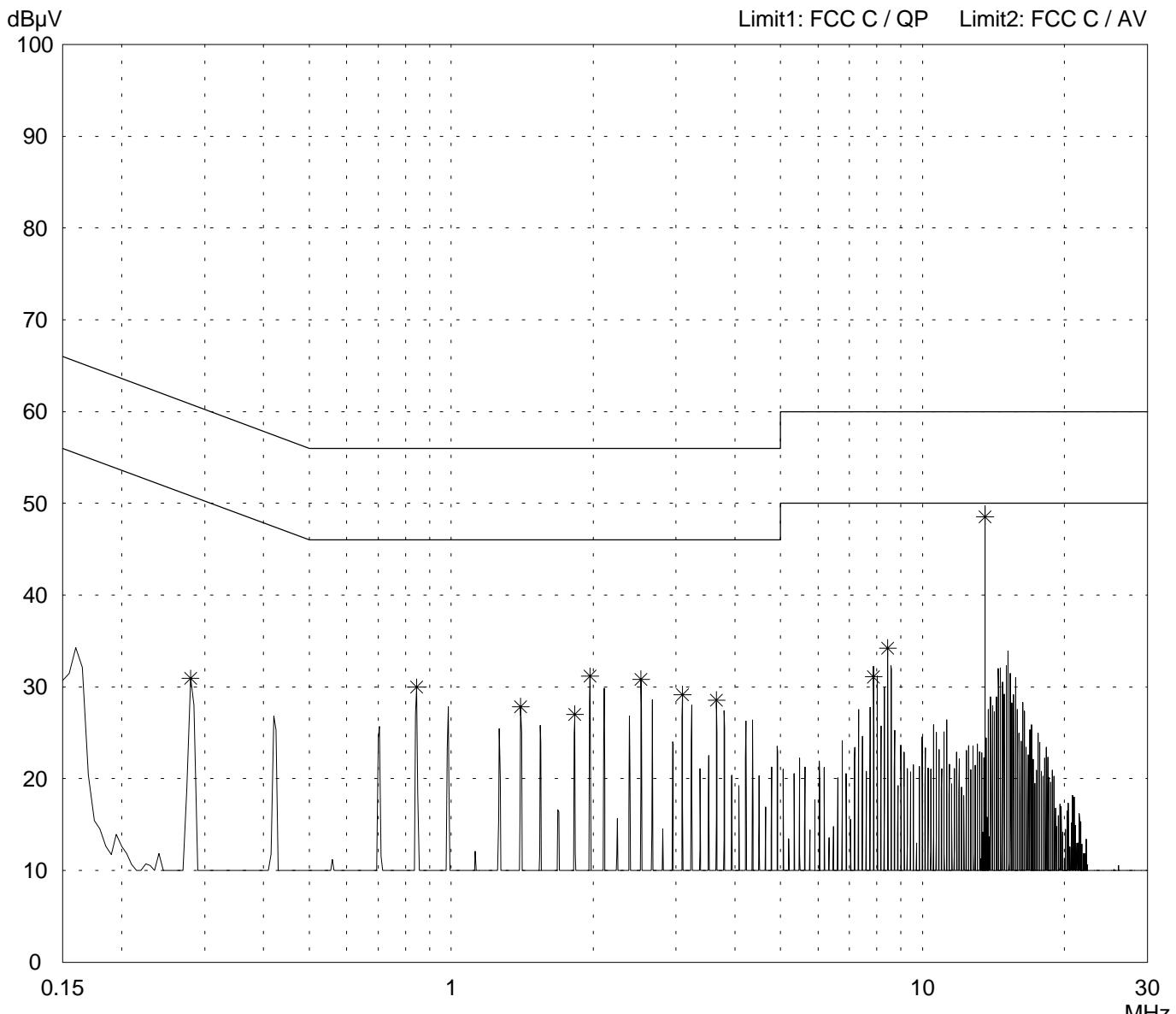
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Shielded room, cabin no. 2</b>	
Tested on: <b>Linecord EUT Phase L1</b>	
Date of test: <b>06/22/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode:  
**FCC testsetup No. 1**  
modulation 15 %  
outputpower 4 W  
i-code datacoding fast 1/1  
with TAG  
Supply Voltage: 230 V AC original power supply  
power supply grounded  
with terminator (50 ohms)

Detector:  
**Average / Final Results: AV**

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



Result:  
**Limit kept**

Project file:  
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**Conducted Emission Test 150 kHz - 30 MHz  
according to FCC Part 15 Subpart C**

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Shielded room, cabin no. 2</b>	
Tested on: <b>Linecord EUT Phase L1</b>	
Date of test: <b>06/22/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>FCC testsetup No. 1</b>
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded
with terminator (50 ohms)

Detector: <b>Average / Final Results: AV</b>
---

Final results: <b>20 dB Margin</b>	<b>25 Subranges</b>
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<i>Frequency</i> <i>MHz</i>	<i>Reading</i> <i>dB<math>\mu</math>V</i>	<i>Correction factor</i> <i>dB</i>	<i>Value</i> <i>dB<math>\mu</math>V</i>	<i>Limit</i> <i>dB<math>\mu</math>V</i>	<i>Limit exceeded</i>
0.280	30.9		30.9	50.8	
0.845	30.0		30.0	46.0	
1.405	27.8		27.8	46.0	
1.830	27.0		27.0	46.0	
1.970	31.2		31.2	46.0	
2.530	30.8		30.8	46.0	
3.095	29.1		29.1	46.0	
3.655	28.6		28.6	46.0	
7.875	31.1		31.1	50.0	
8.435	34.2		34.2	50.0	
13.560	48.6		48.6	50.0	

<b>Result:</b> <b>Limit kept</b>
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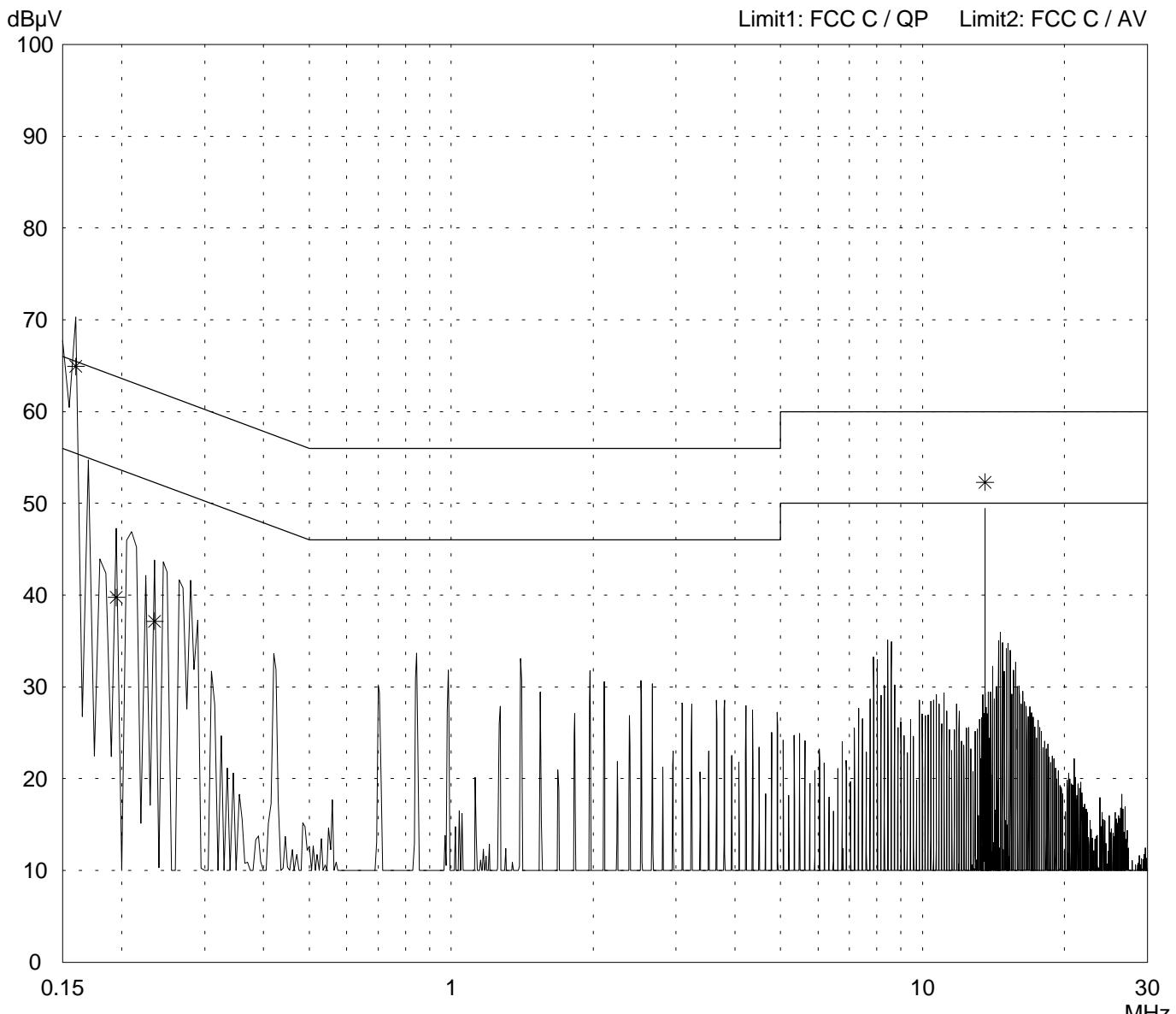
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Shielded room, cabin no. 2</b>	
Tested on: <b>Linecord EUT</b> <b>Phase N</b>	
Date of test: <b>06/22/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>FCC testsetup No. 1</b>
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded
with terminator (50 ohms)

Detector: <b>Peak / Final Results: QP</b>
--

Final results: <b>20 dB Margin</b>	<b>25 Subranges</b>
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Result: <b>Limit kept</b>
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Project file: <b>51905-40259</b>
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**Conducted Emission Test 150 kHz - 30 MHz  
according to FCC Part 15 Subpart C**

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Shielded room, cabin no. 2</b>	
Tested on: <b>Linecord EUT Phase N</b>	
Date of test: <b>06/22/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>FCC testsetup No. 1</b>
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded
with terminator (50 ohms)

Detector: <b>Peak / Final Results: QP</b>
--

Final results: <b>20 dB Margin</b>	<b>25 Subranges</b>
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<i>Frequency MHz</i>	<i>Reading dB<math>\mu</math>V</i>	<i>Correction factor dB</i>	<i>Value dB<math>\mu</math>V</i>	<i>Limit dB<math>\mu</math>V</i>	<i>Limit exceeded</i>
0.160	64.9		64.9	65.5	
0.195	39.8		39.8	63.8	
0.235	37.2		37.2	62.3	
13.560	52.3		52.3	60.0	

<b>Result:</b> <b>Limit kept</b>
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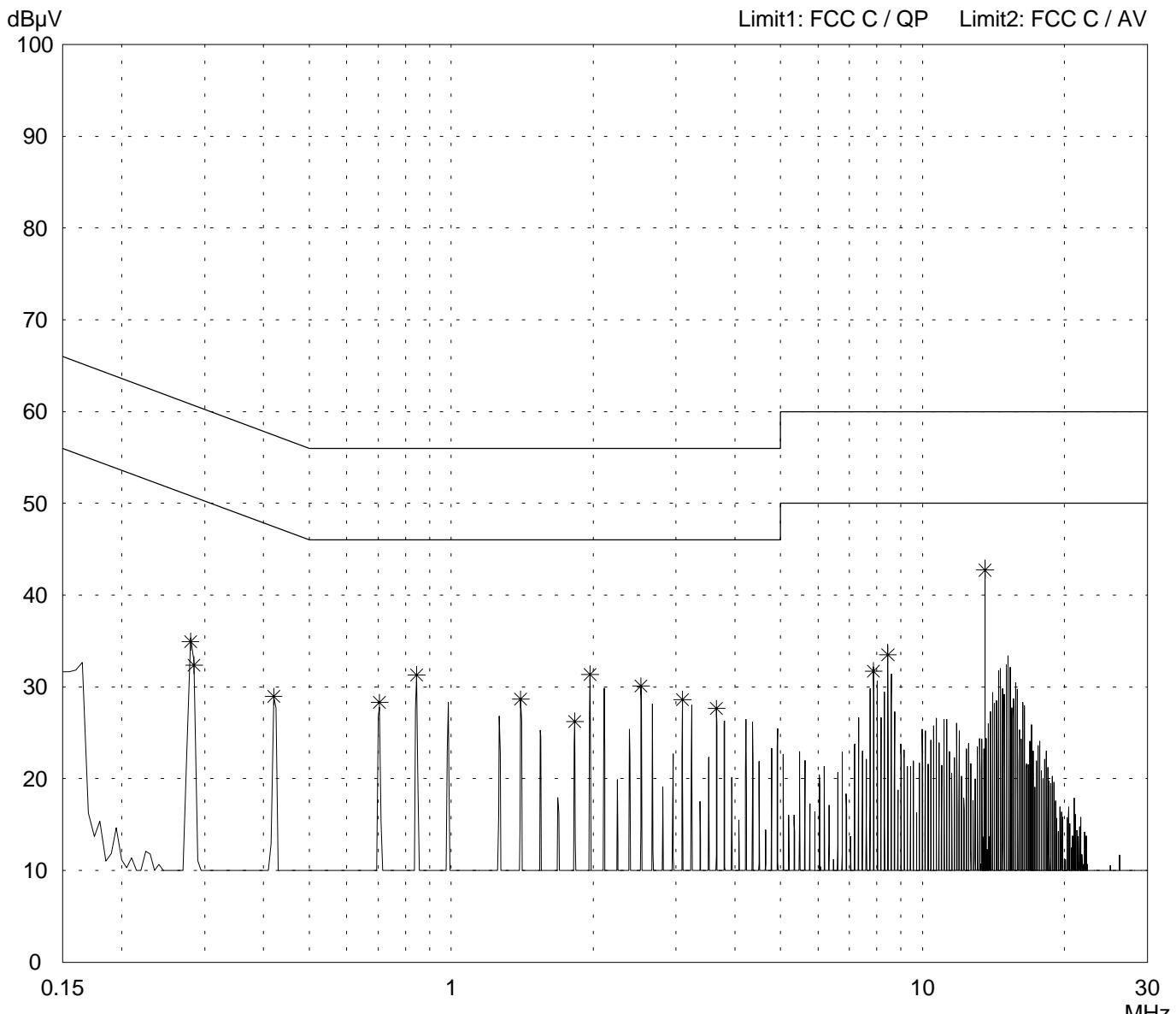
# Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Shielded room, cabin no. 2</b>	
Tested on: <b>Linecord EUT</b> <b>Phase N</b>	
Date of test: <b>06/22/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>FCC testsetup No. 1</b>
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded
with terminator (50 ohms)

Detector: <b>Average / Final Results: AV</b>
---

Final results: <b>20 dB Margin</b>	<b>25 Subranges</b>
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Result: <b>Limit kept</b>
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**Conducted Emission Test 150 kHz - 30 MHz**  
**according to FCC Part 15 Subpart C**

Model: Moby D SLG D10	
Serial no.: SN 100919521.09	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT Phase N	
Date of test: 06/22/2004	Operator: K. Roidt
Test performed: automatically	File name:

Mode: FCC testsetup No. 1
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
with TAG
Supply Voltage: 230 V AC original power supply power supply grounded
with terminator (50 ohms)

Detector: Average / Final Results: AV
--

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

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.280	34.9		34.9	50.8	
0.285	32.4		32.4	50.7	
0.420	28.9		28.9	47.4	
0.705	28.3		28.3	46.0	
0.845	31.3		31.3	46.0	
1.405	28.7		28.7	46.0	
1.830	26.2		26.2	46.0	
1.970	31.4		31.4	46.0	
2.530	30.1		30.1	46.0	
3.095	28.6		28.6	46.0	
3.655	27.6		27.6	46.0	
7.875	31.7		31.7	50.0	
8.440	33.5		33.5	50.0	
13.565	42.7		42.7	50.0	

Result: Limit kept
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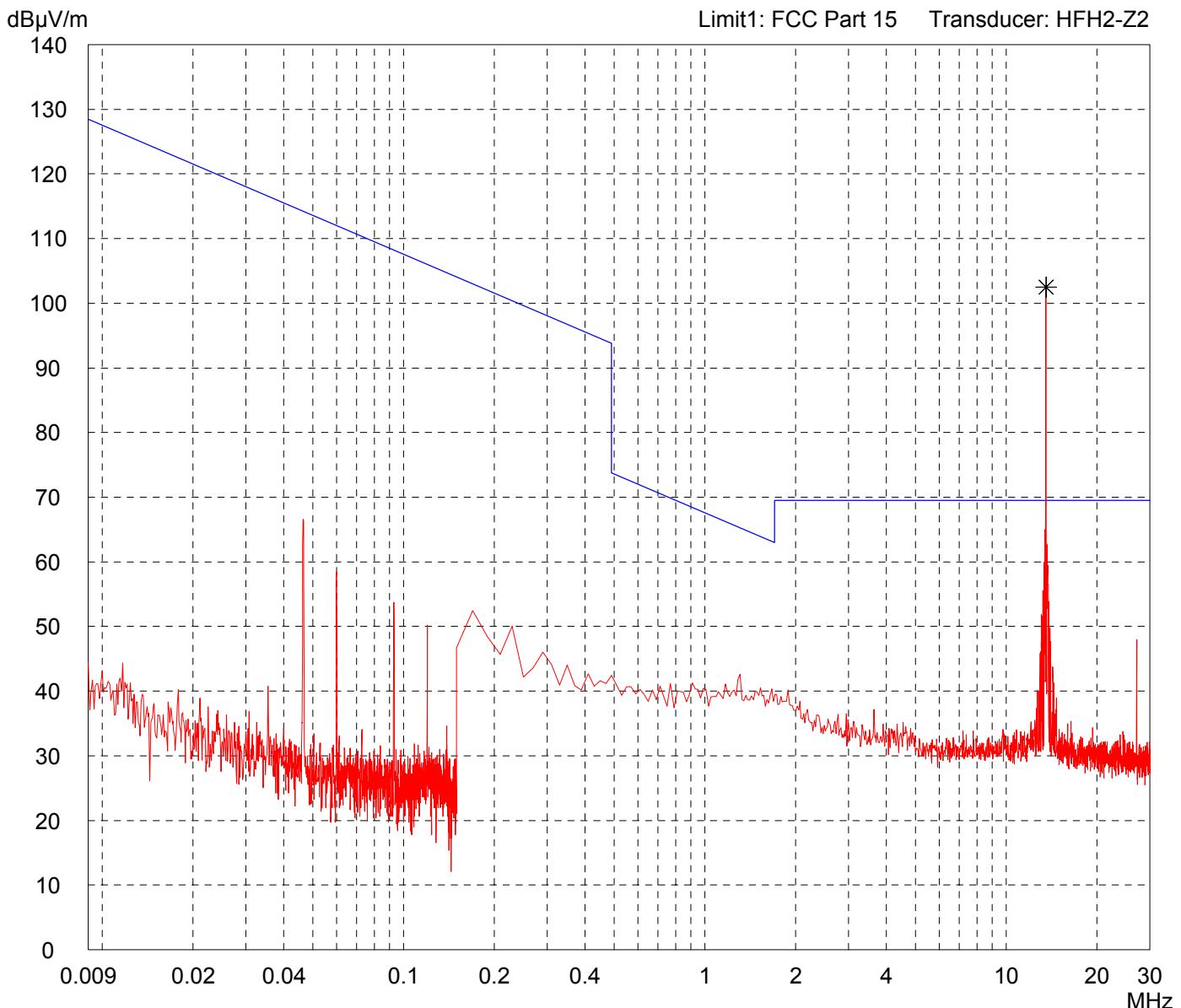
# Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D 10 with antenna testsample No. 2	
Serial no.: SN 100919521.09	
Applicant: Siemens AG	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 04/20/2004	Operator: K. Roidt
Test performed: by hand	File name: default.emi

Comment: FCC testsetup No. 2 modulation 15 % outputpower 4 W i-code datacoding fast 1/1 with TAG supply voltage : 24 V DC external
--

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



Result: Prescan
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Project file: 51905-40259
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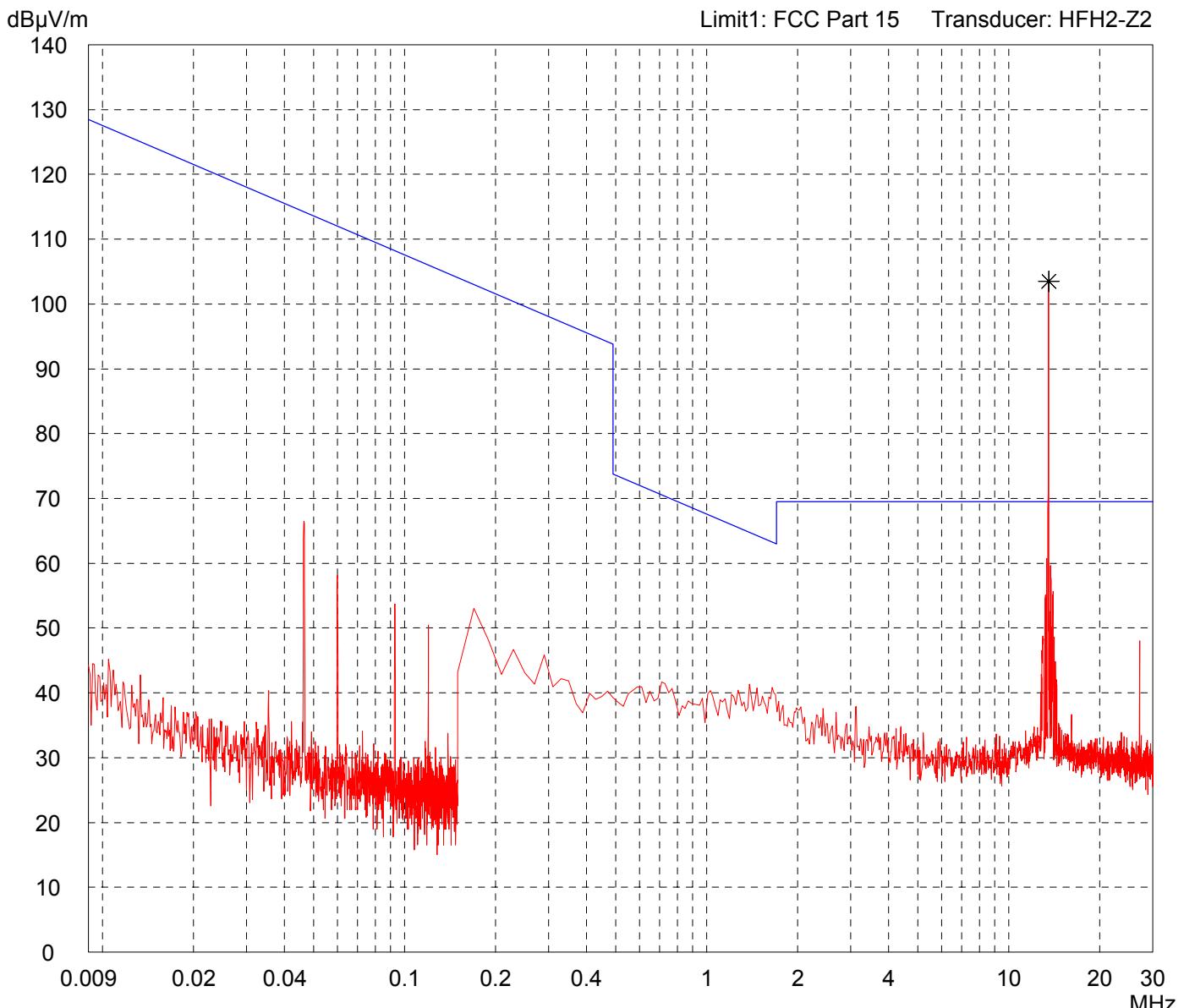
**Radiated Emission Test 9 kHz - 30 MHz  
acc. to FCC Part 15 (Fully Anechoic Chamber)**

Model: Moby D SLG D 10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Fully anechoic room, cabin no. 2
Tested on: Test distance 3 metres
Date of test: 04/20/2004
Test performed: by hand
Operator: K. Roidt
File name: default.emi

Comment: FCC testsetup No. 2
modulation 15 %
outputpower 4 W
i-code datacoding fast 1/1
without TAG
supply voltage : 24 V DC external

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

List of values:  
10 dB Margin      50 Subranges



Result: Prescan
--------------------

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# Radiated Emission Test 30 MHz - 1 GHz

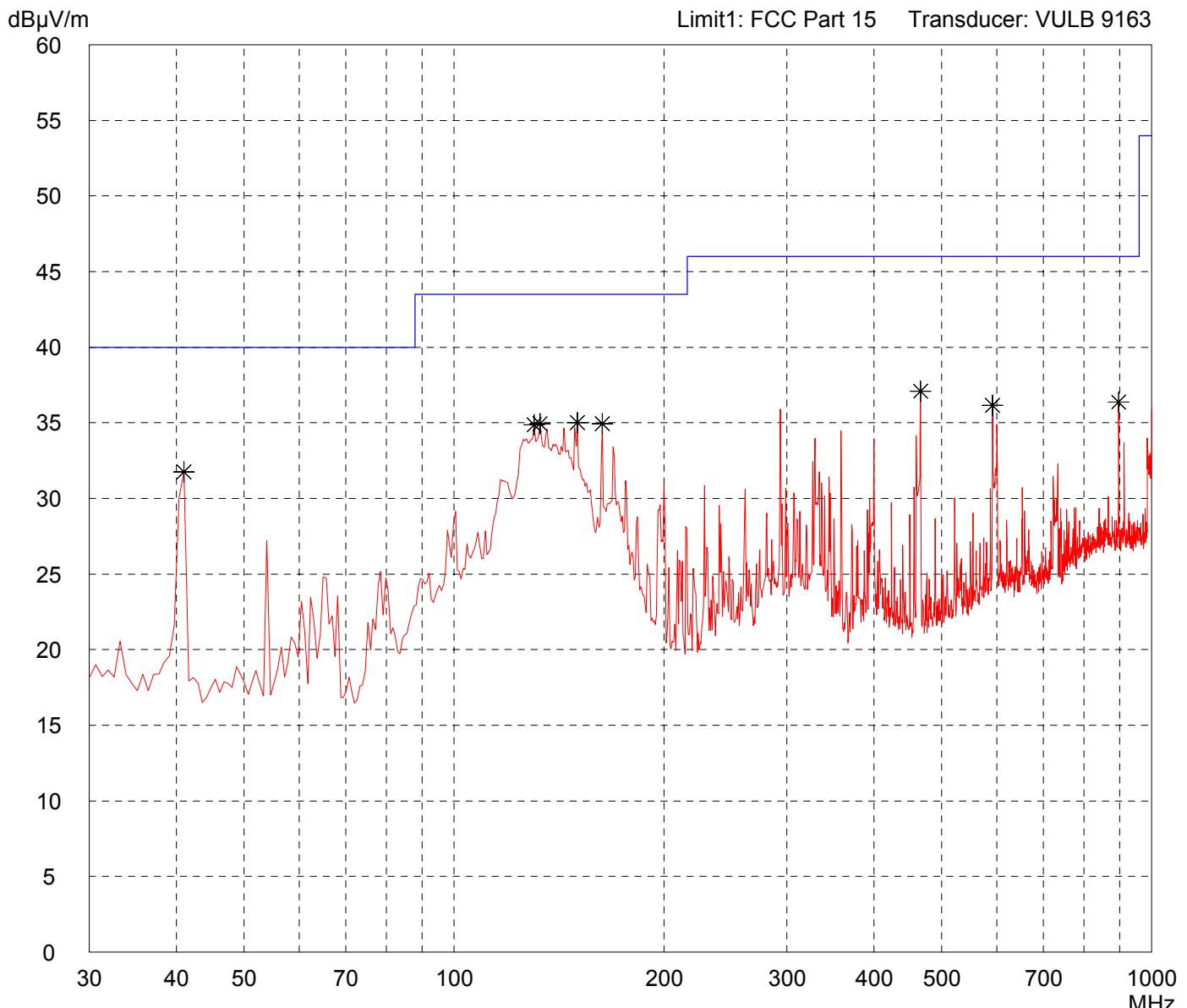
## acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D 10 with antenna testsample No. 2	
Serial no.: SN 100919521.09	
Applicant: Siemens AG	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/20/2004	Operator: K. Roidt
Test performed: automatically	File name: default.emi

Comment: FCC testsetup No. 2 modulation 15 % outputpower 4 W i-code datacoding fast 1/1 with TAG supply voltage : 24 V DC external
--

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

List of values:		
10 dB Margin	50 Subranges	



Result: Prescan
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Project file: 51905-40259
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# Radiated Emission Test 30 MHz - 1 GHz

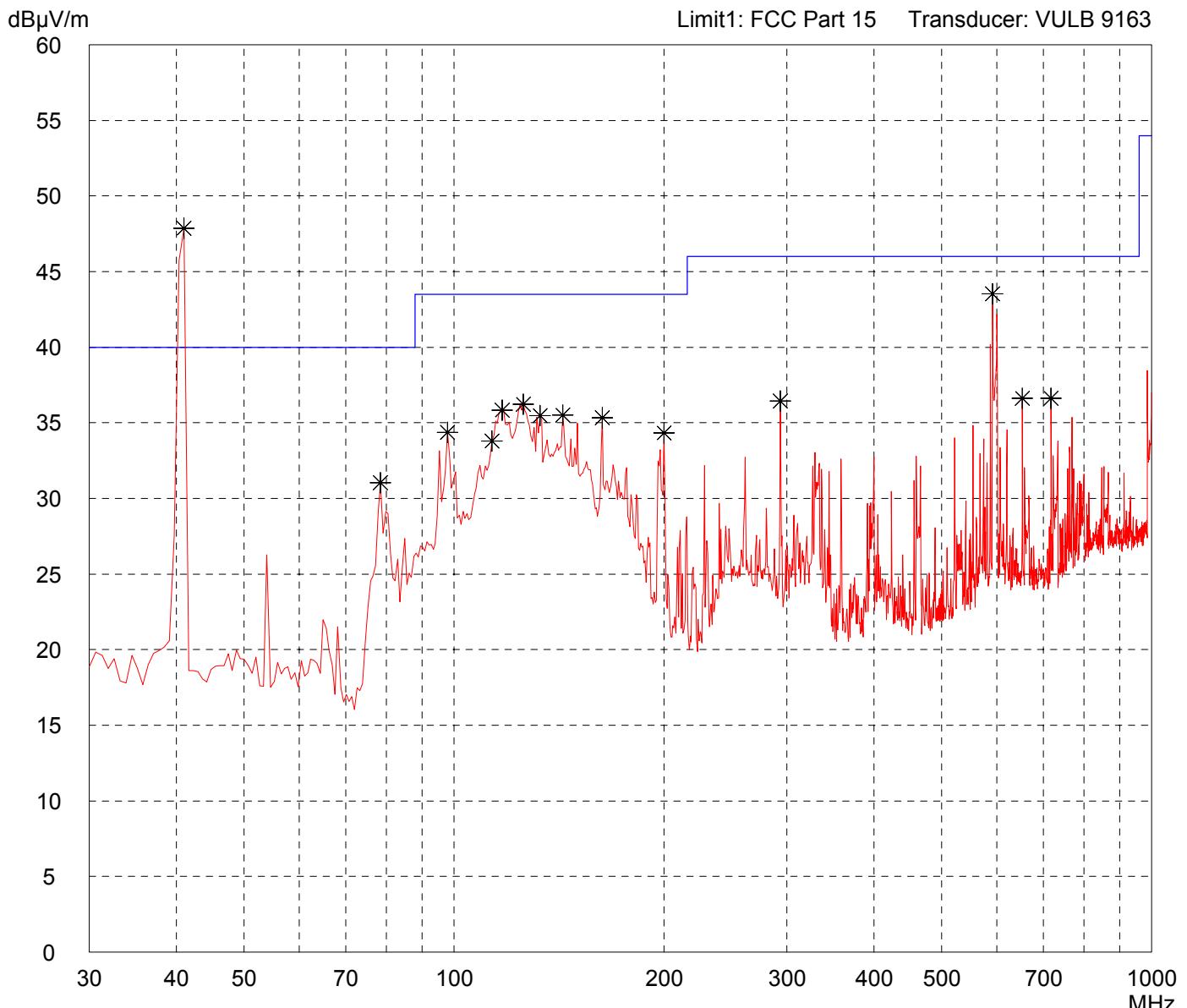
## acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D 10 with antenna testsample No. 2
Serial no.: SN 100919521.09
Applicant: Siemens AG
Test site: Fully anechoic room, cabin no. 2
Tested on: Test distance 3 metres Vertical Polarization
Date of test: 04/20/2004      Operator: K. Roidt
Test performed: automatically      File name: default.emi

Comment: FCC testsetup No. 2 modulation 15 % outputpower 4 W i-code datacoding fast 1/1 with TAG supply voltage : 24 V DC external
--

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

List of values:  
10 dB Margin      50 Subranges



Result: Prescan
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Project file: 51905-40259
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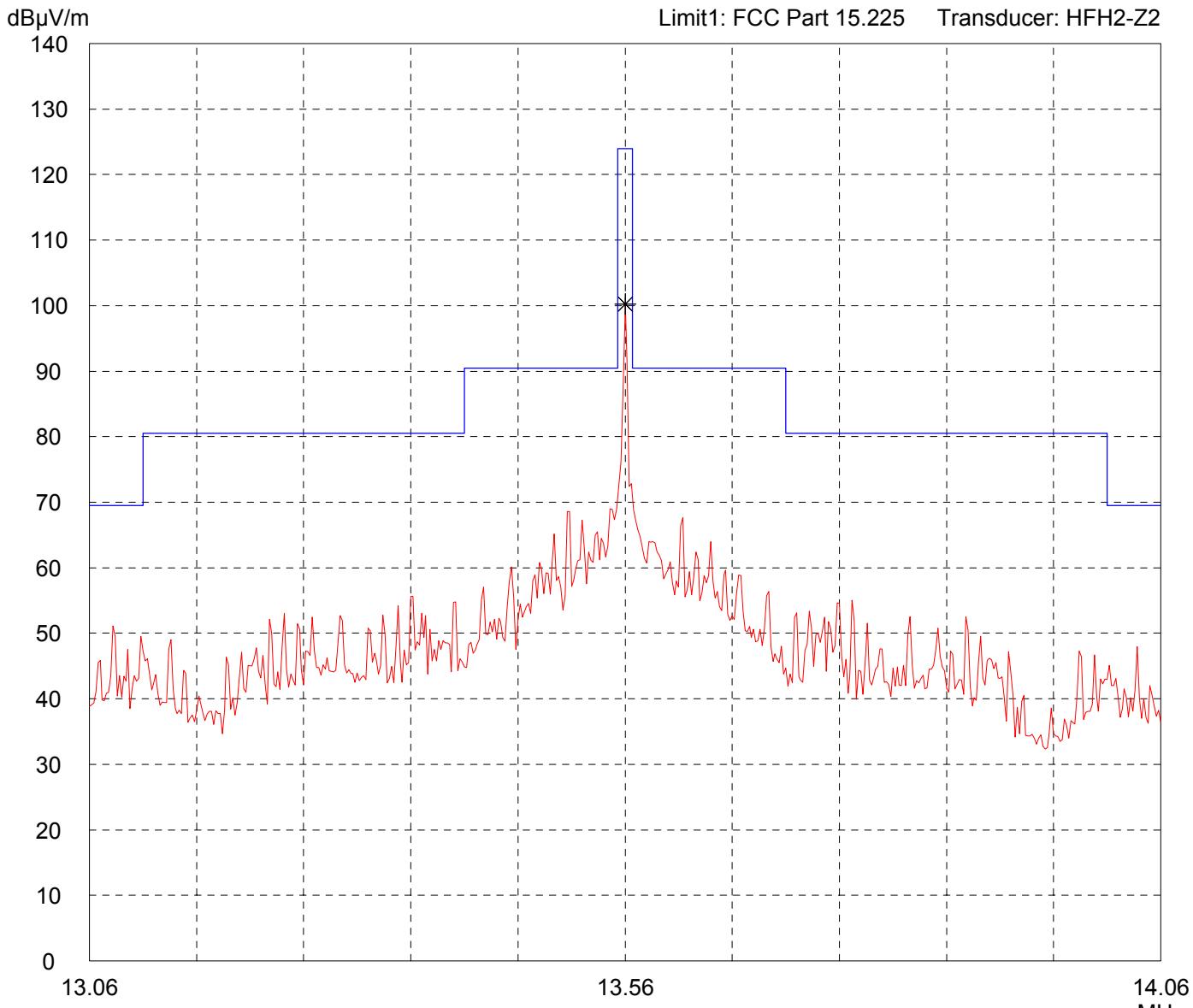
# Radiated Emission Test 13.06 MHz - 14.06 MHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Fully anechoic room, cabin no. 2</b>	
Tested on: <b>Test distance 3 metres Vertical Polarization</b>	
Date of test: <b>04/13/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>by hand</b>	File name: <b>default.emi</b>

Comment:  
**FCC testsetup No. 1  
modulation 15 %  
outputpower 4 W  
i-code datacoding fast 1 / 1  
with TAG  
Supply Voltage: 24 V DC external  
Measurement according : Section 15.225**

Detector: <b>Peak</b>
--------------------------

List of values:  
**Selected by hand**



Result: <b>Limit kept</b>
------------------------------

Project file:  
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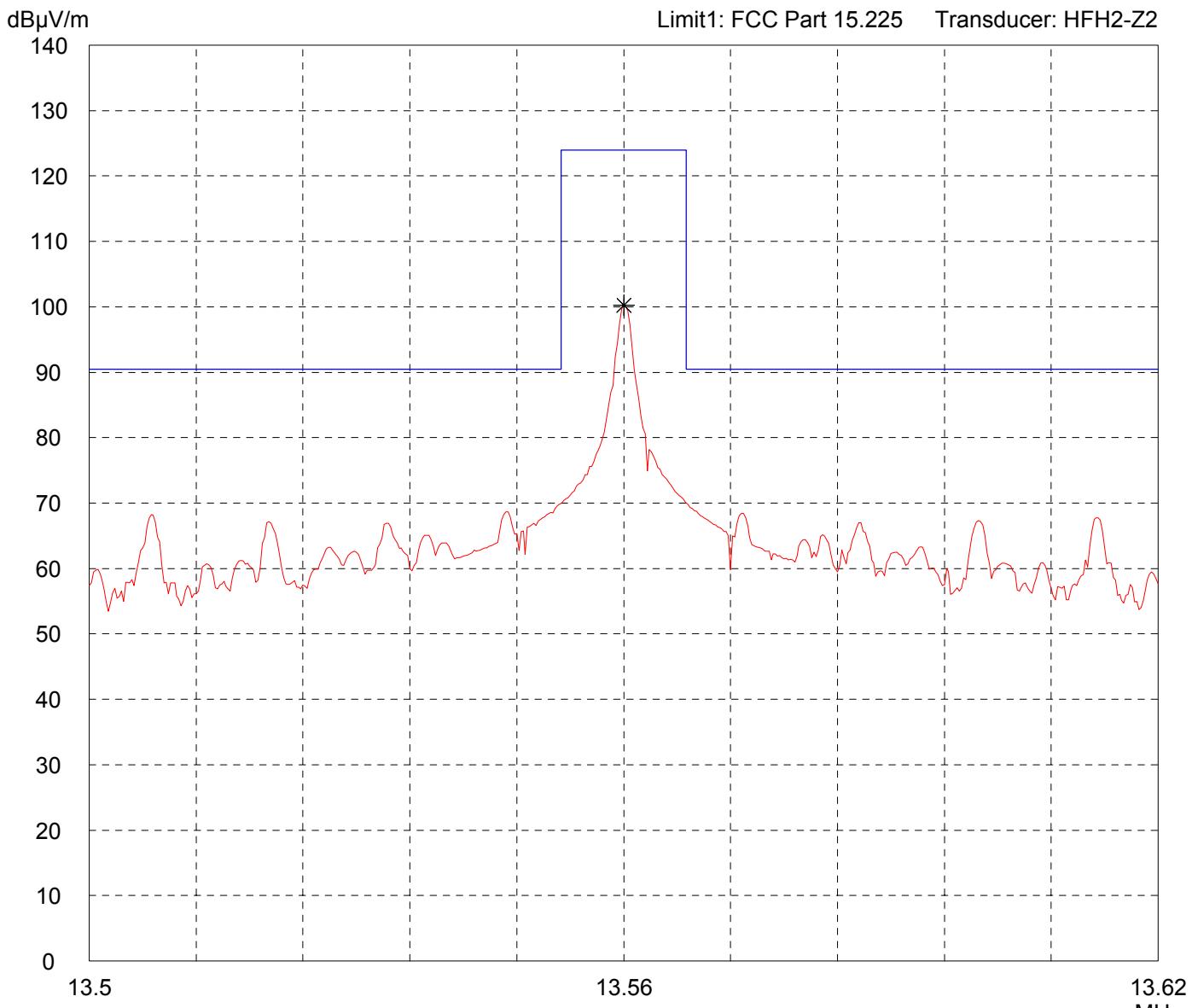
# Radiated Emission Test 13.5 MHz - 13.62 MHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: <b>Moby D SLG D10</b>	
Serial no.: <b>SN 100919521.09</b>	
Applicant: <b>Siemens AG</b>	
Test site: <b>Fully anechoic room, cabin no. 2</b>	
Tested on: <b>Test distance 3 metres Vertical Polarization</b>	
Date of test: <b>04/13/2004</b>	Operator: <b>K. Roidt</b>
Test performed: <b>by hand</b>	File name: <b>default.emi</b>

Comment:
<b>FCC testsetup No. 1</b>
modulation 15 %
outputpower 4 W
i-code datacoding fast 1 / 1
with TAG
Supply Voltage: 24 V DC external
Measurement according : Section 15.225

Detector: <b>Peak</b>
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List of values: <b>Selected by hand</b>
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Result: <b>Limit kept</b>
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Project file: <b>51905-40259</b>
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