

Straubing, July 27, 2004

TEST - REPORT**No. 51905-40260****for****Moby D SLG D11****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

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


Test item (EUT)	
Type designation	Moby D SLG D11
Serial number(s):	100733616.10
Type of equipment:	TAG Reader System
Parts/accessories:	
FCC-ID:	
Technical data	
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
Applicant: (full address)	Siemens AG, Fürth Würzburger Str. 121 D-90766 Fürth
Contract identification:	---
Contact person:	Mr. Horst
Manufacturer:	Siemens AG

Application details	
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 Fruhlingsstrasse 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 **Code of Regulations CFR 47, Part 15, Sections 15.205, 15.207, 15.209 and 15.225**

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

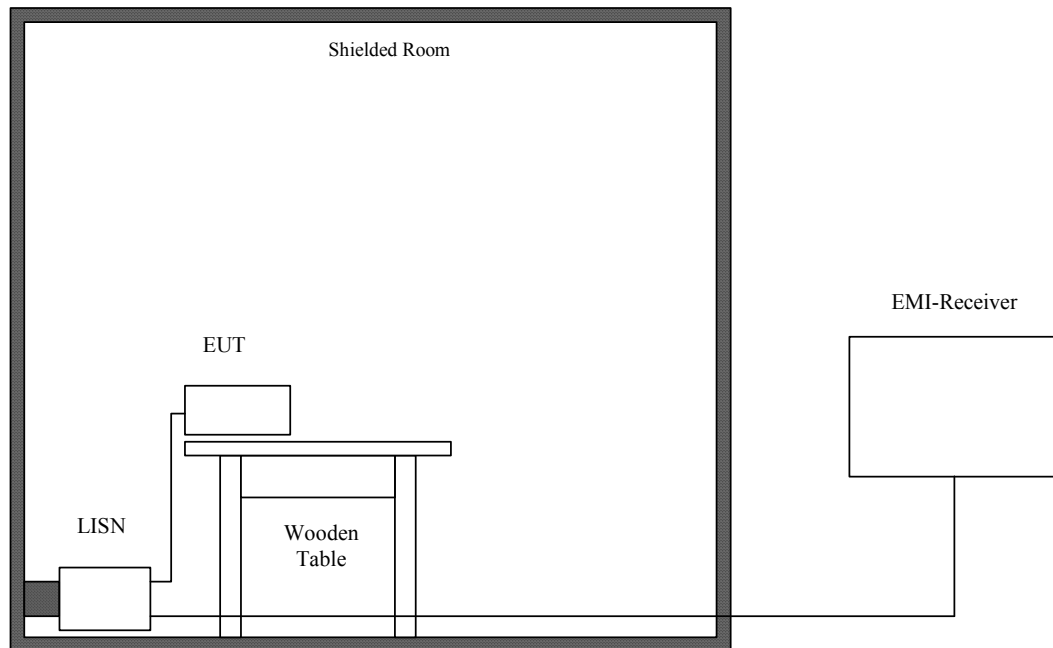
AC Adapter Hayes

5. Measuring Methods

5.1. Conducted powerline emissions

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

Measurement Procedure:
<p>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.</p>



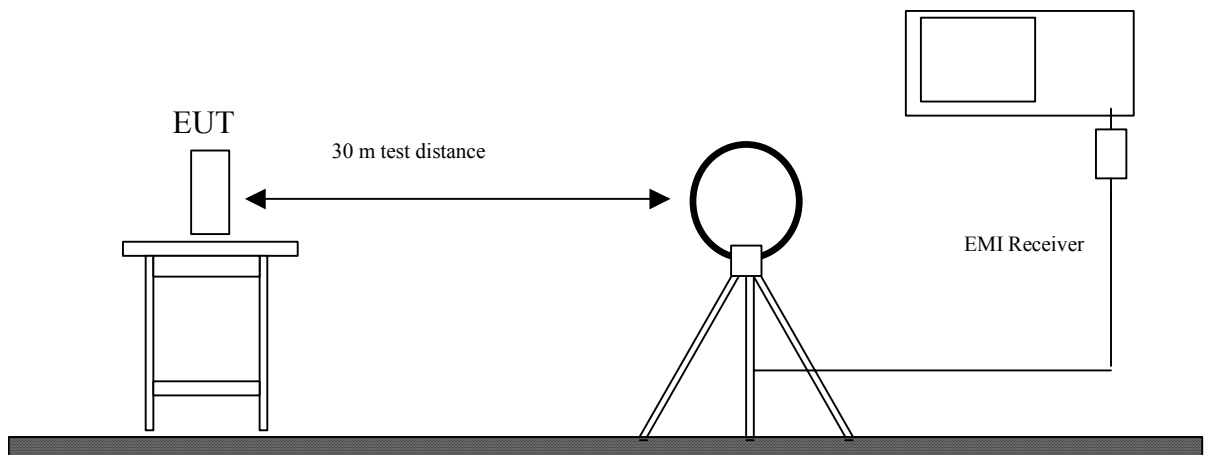
Test instruments used:

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 measurement is 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

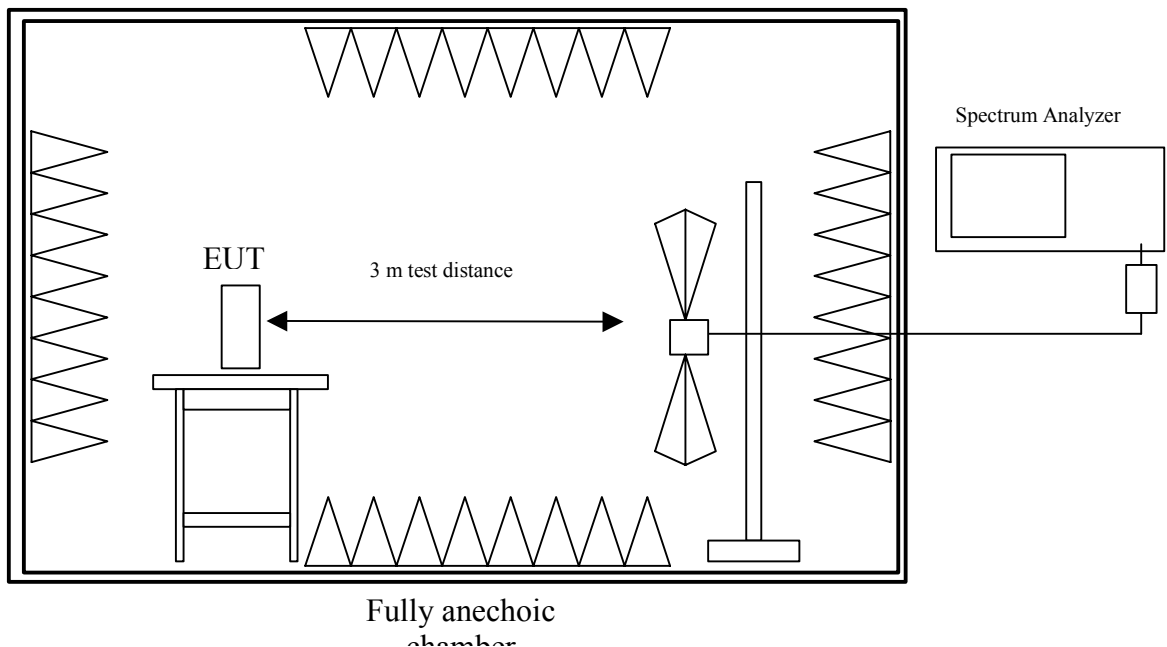
5.3. Field Strength of Emissions, Prescans in a fully-anechoic Room

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 5th 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.



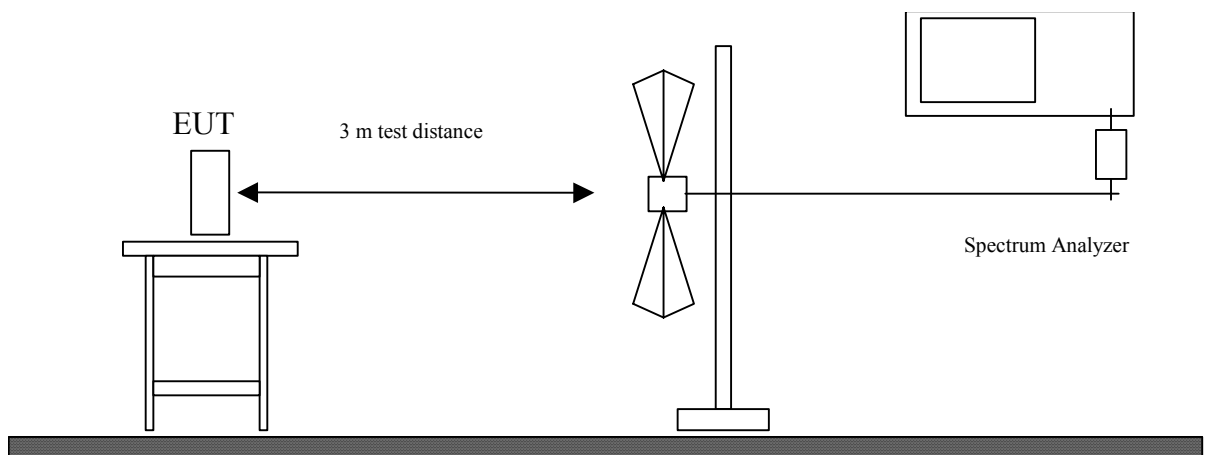
Test instruments used:

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:
<p>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.</p> <p>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.</p> <p>All tests are performed in a fully-anechoic chamber with a test-distance of 3 meters.</p> <p>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).</p>



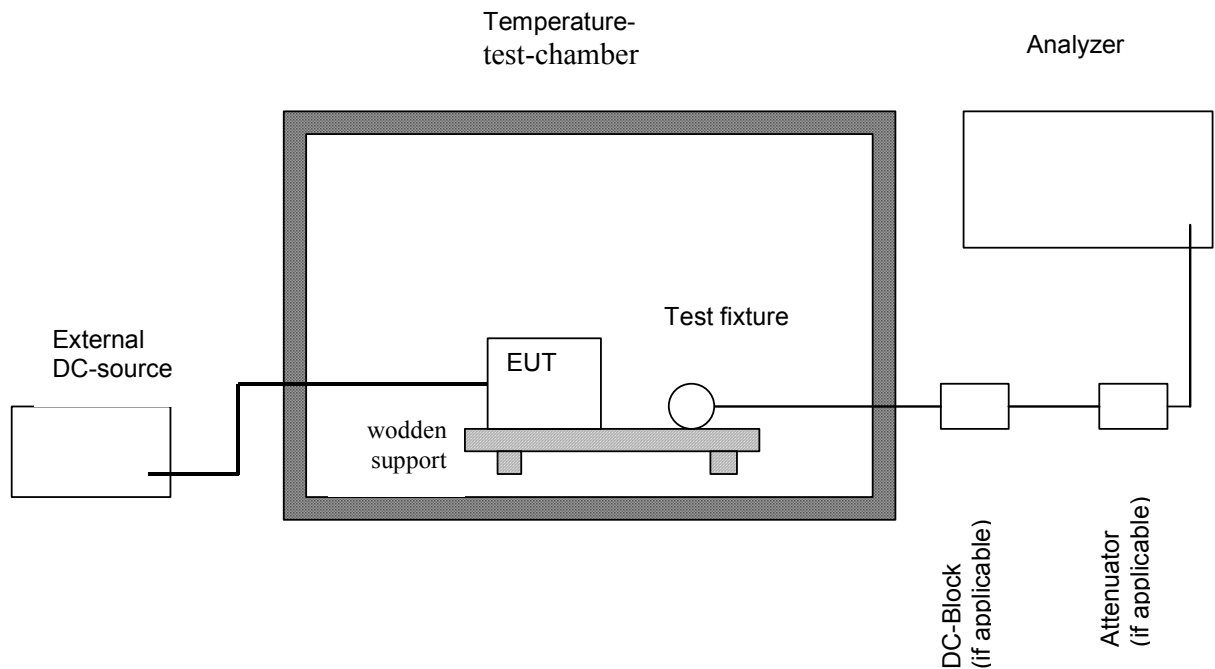
Test instruments used:

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



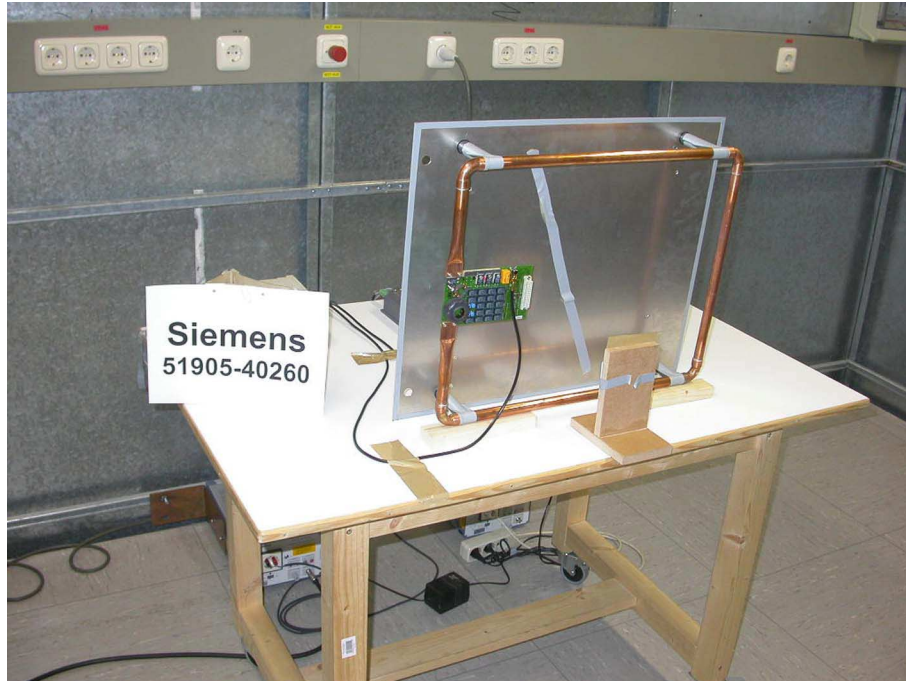
Test setup for conducted power line emission measurement

Antenna no. 1



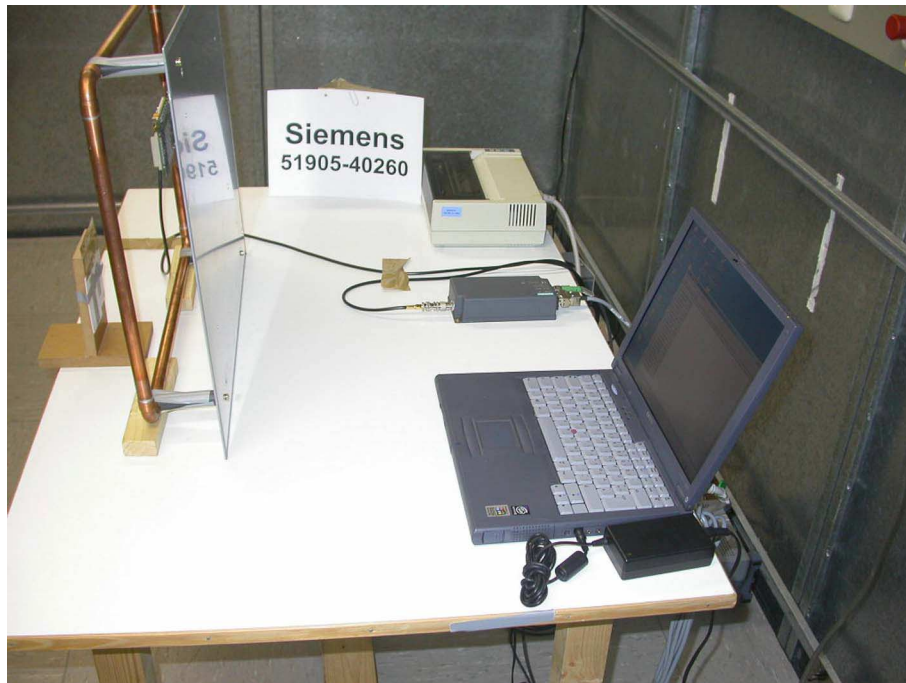
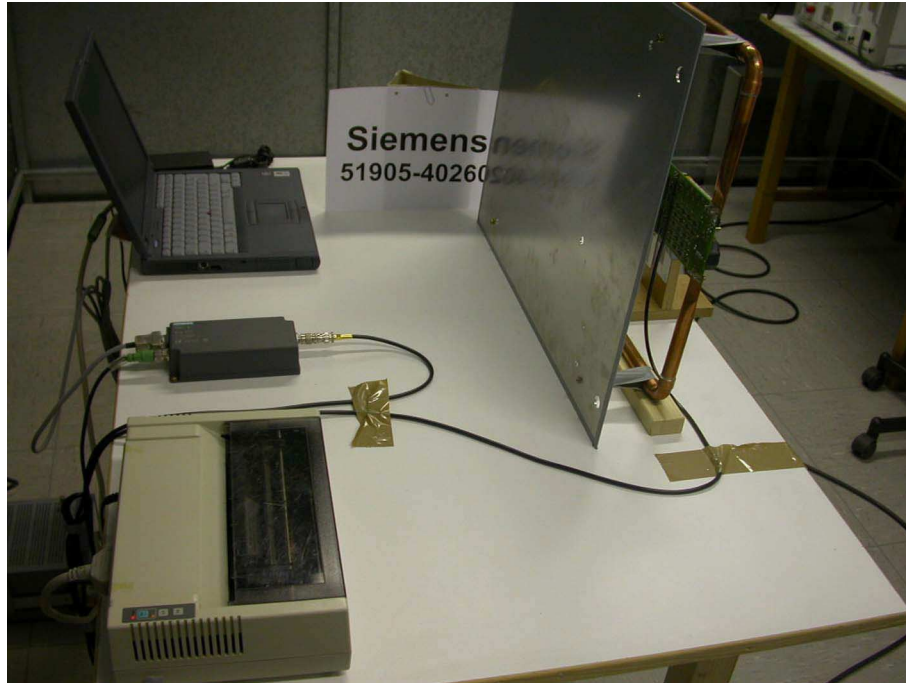
Test setup for conducted power line emission measurement

Antenna no. 2



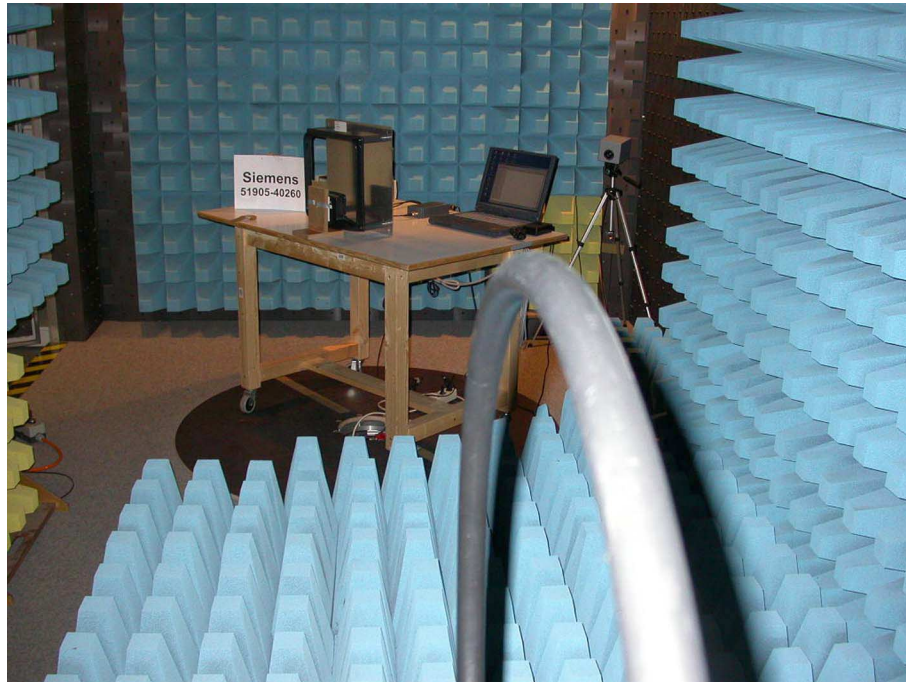
Test setup for conducted power line emission measurement

Antenna no. 2



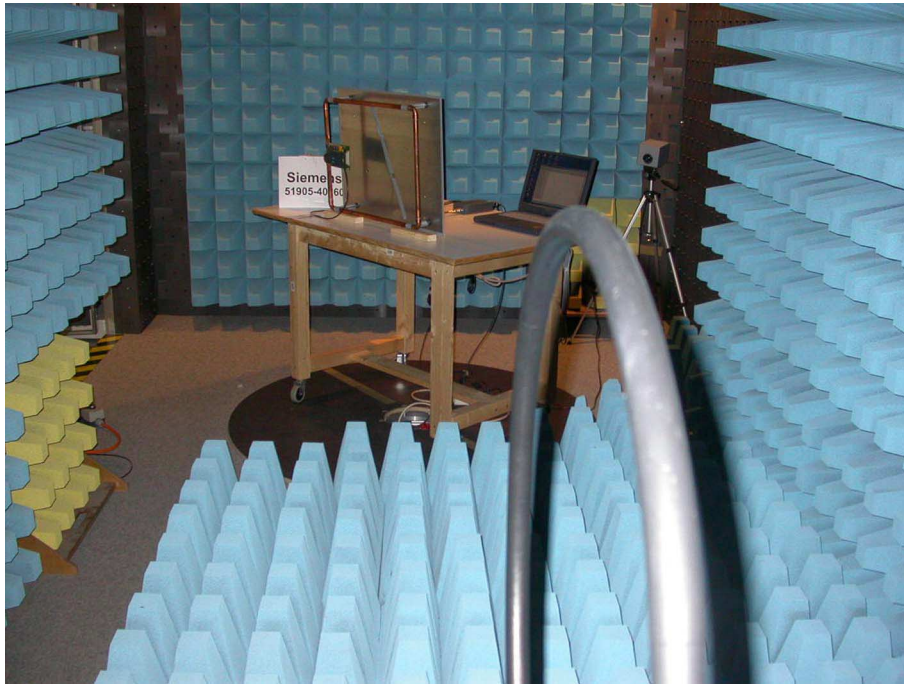
Test setup for spurious radiation measurement

Antenna no. 1



Test setup for spurious radiation measurement

Antenna no. 2



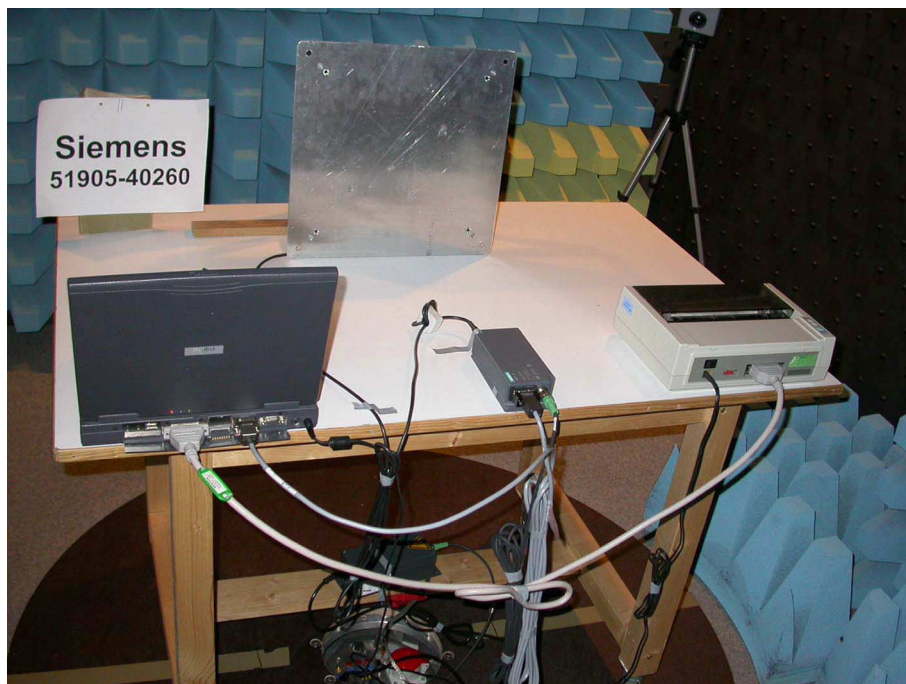
Test setup for radiated emission measurement (fully anechoic room)

Antenna no. 1



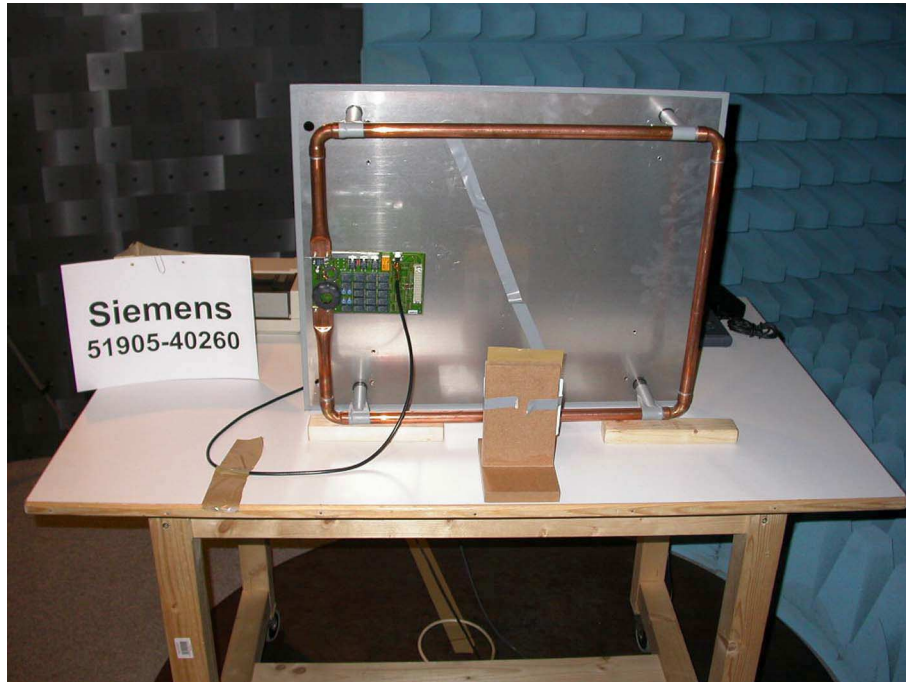
Test setup for radiated emission measurement (fully anechoic room)

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



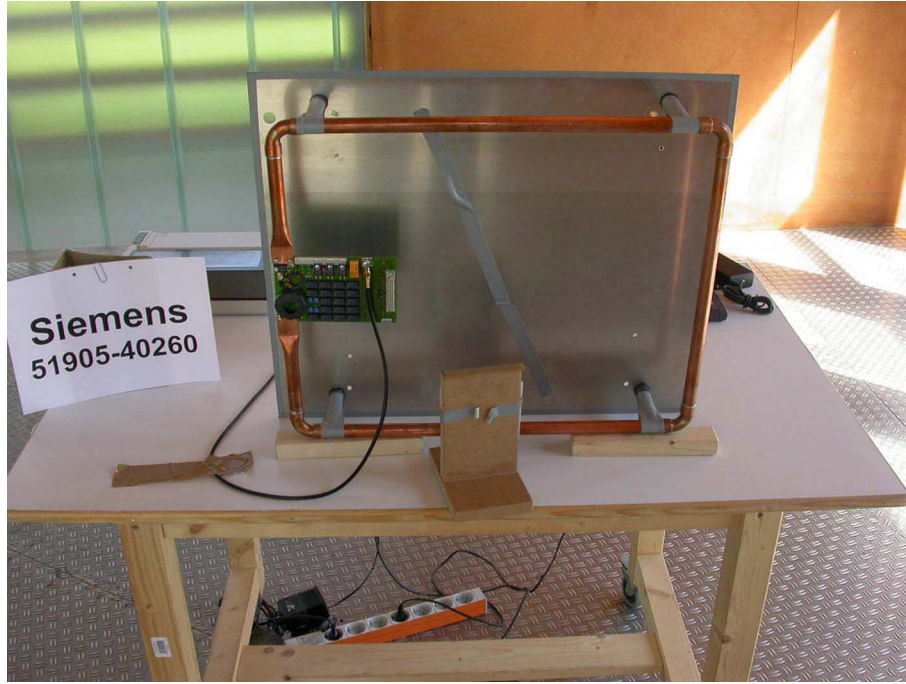
Test setup for radiated emission measurement (open area test site)

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 (dBuV)	
		Quasi-peak	Average
	0.15-0.5 0.5 – 5 5 - 30	66 to 56 56 60	56 to 46 46 50

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

Frequency (MHz)	Detector	Analyzer Reading (dBµV)	Correction Factor (dB)	Final Value (dBµV)	Limit (dBµV)	Margin (dB)
0.280	AV	31.0	0	31.0	50.8	19.8
0.420	AV	28.1	0	28.1	47.4	19.3
0.845	AV	31.2	0	31.2	46.0	14.8
1.405	AV	30.8	0	30.8	46.0	15.2
3.235	AV	27.5	0	27.5	50.0	22.5
13.560	AV	37.2	0	37.2	50.0	12.8

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 (dBµV)	Correction Factor (dB/m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
13.560	QP	45.5	20.0	65.5	84.0	18.5
27.120	QP	-3.5	20.0	16.5	29.5	13.0

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

Sample calculation of erp values:

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

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 (dBµV)	Correction Factor (dB/m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
13.560	QP	45.5	20.0	65.5	84.0	18.5
27.120	QP	-3.7	20.0	16.3	29.5	13.2

Sample calculation of erp values:

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

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 (dBμV)	Correction Factor (dB/m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
40.680	QP	vertical	27.2	11.8	39.0	40.0	1.0
54.240	QP	vertical	22.4	10.3	32.7	40.0	7.3
67.800	QP	vertical	27	9.7	36.7	40.0	3.3
81.360	QP	vertical	22.2	9.7	31.9	40.0	8.1
88.100	QP	vertical	27.1	9.9	37.0	43.5	6.5
108.480	QP	horizontal	25.2	11.4	36.6	43.5	6.9
122.040	QP	vertical	34.9	12.5	34.9	43.5	8.6
271.200	QP	horizontal	19.8	18.8	38.6	46.0	7.4
352.560	QP	horizontal	19.8	17.2	37.0	46.0	9.0
379.680	QP	horizontal	22.8	17.8	40.6	46.0	5.4
433.920	QP	horizontal	16.9	19.5	36.4	46.0	9.6

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

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 (dBuV)	
		Quasi-peak	Average
	0.15-0.5 0.5 – 5 5 - 30	66 to 56 56 60	56 to 46 46 50

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

Frequency (MHz)	Detector	Analyzer Reading (dBµV)	Correction Factor (dB)	Final Value (dBµV)	Limit (dBµV)	Margin (dB)
0.280	AV	33.8	0	33.8	50.8	17.0
0.845	AV	32.2	0	32.2	46.0	13.8
1.405	AV	31.8	0	31.8	46.0	14.2
1.970	AV	30.3	0	30.3	46.0	15.7
2.110	AV	30.7	0	30.7	46.0	15.3
13.560	AV	37.2	0	37.2	50.0	12.8
15.895	AV	31.1	0	31.1	50.0	18.9
27.120	AV	33.2	0	33.2	50.0	16.8

*** = 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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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 (dBµV)	Correction Factor (dB/m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
13.560	QP	51.5	20.0	71.5	84.0	12.5
27.120	QP	-23.4	20.0	-3.4	29.5	32.9

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

Sample calculation of erp values:

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

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 (dBµV)	Correction Factor (dB/m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
13.560	QP	51.7	20.0	71.7	84.0	12.3
27.120	QP	-23.0	20.0	-3.0	29.5	32.5

Sample calculation of erp values:

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

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 (dBµV)	Correction Factor (dB/m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
40.68	QP	vertical	27.1	11.8	38.9	40.0	1.1
54.24	QP	vertical	25.9	10.3	36.2	40.0	3.8
67.80	QP	vertical	27.9	9.7	37.6	40.0	2.4
81.36	QP	vertical	20.9	9.7	30.6	40.0	9.4
108.48	QP	vertical	22.5	11.4	33.9	43.5	9.6
203.40	QP	vertical	17.4	16.8	34.2	43.5	9.3
271.20	QP	horizontal	23.4	18.8	42.2	46.0	3.8
325.44	QP	horizontal	23.6	16.2	39.8	46.0	6.2
461.04	QP	horizontal	12.4	20.1	32.5	46.0	13.5
583.08	QP	vertical	12	22.2	34.2	46.0	11.8

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

Sample calculation of erp values:

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

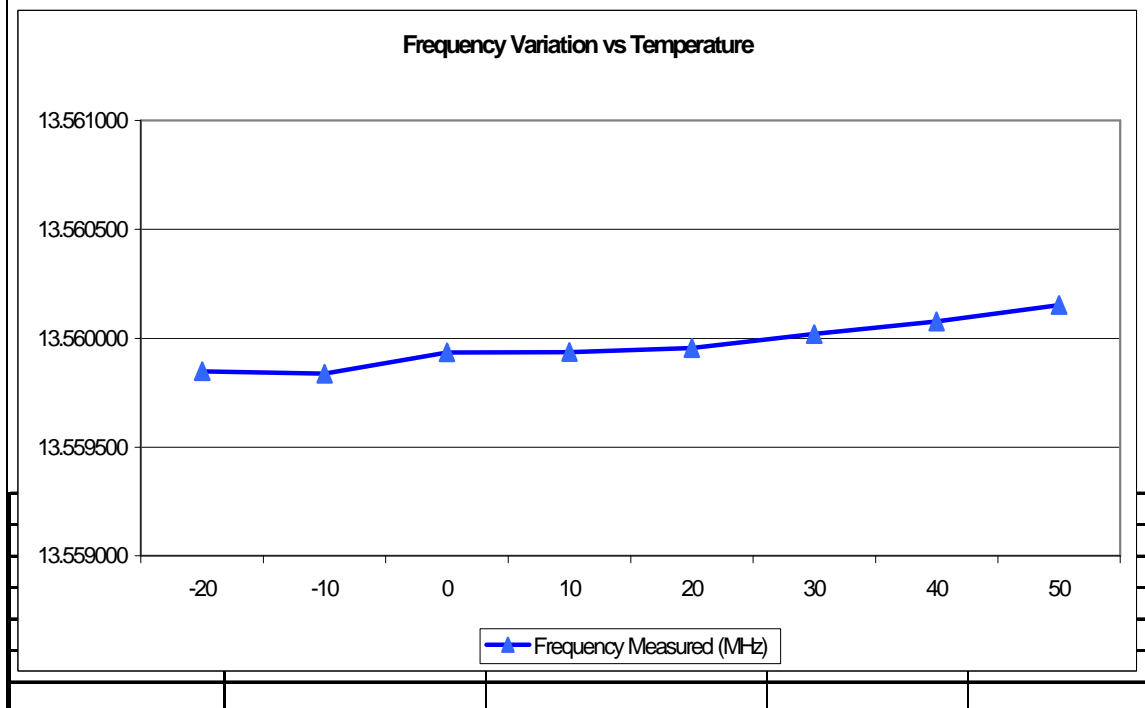
Test Results:	Pass
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Measurement of Frequency Stability vs Temperature

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:	13.559867MHz

Temperature Variation Table

Temperature (°C)	Nominal Frequency (MHz)	Frequency Measured (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
-20	13.559867	13.559848	-1.40	50
-10	13.559867	13.559836	-2.29	50
0	13.559867	13.559935	5.01	50
10	13.559867	13.559936	5.09	50
20	13.559867	13.559955	6.49	50
30	13.559867	13.560019	11.21	50
40	13.559867	13.560077	15.49	50
50	13.559867	13.560152	21.02	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 D11 with antenna testsample No. 1

Serial no.:
SN 100733616.10

Applicant:
Siemens AG

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT
Phase L1

Date of test: 06/22/2004 Operator: A. Stübinger

Test performed: automatically File name:

Mode:
FCC testsetup No. 1

modulation 15 %

outputpower 1 W

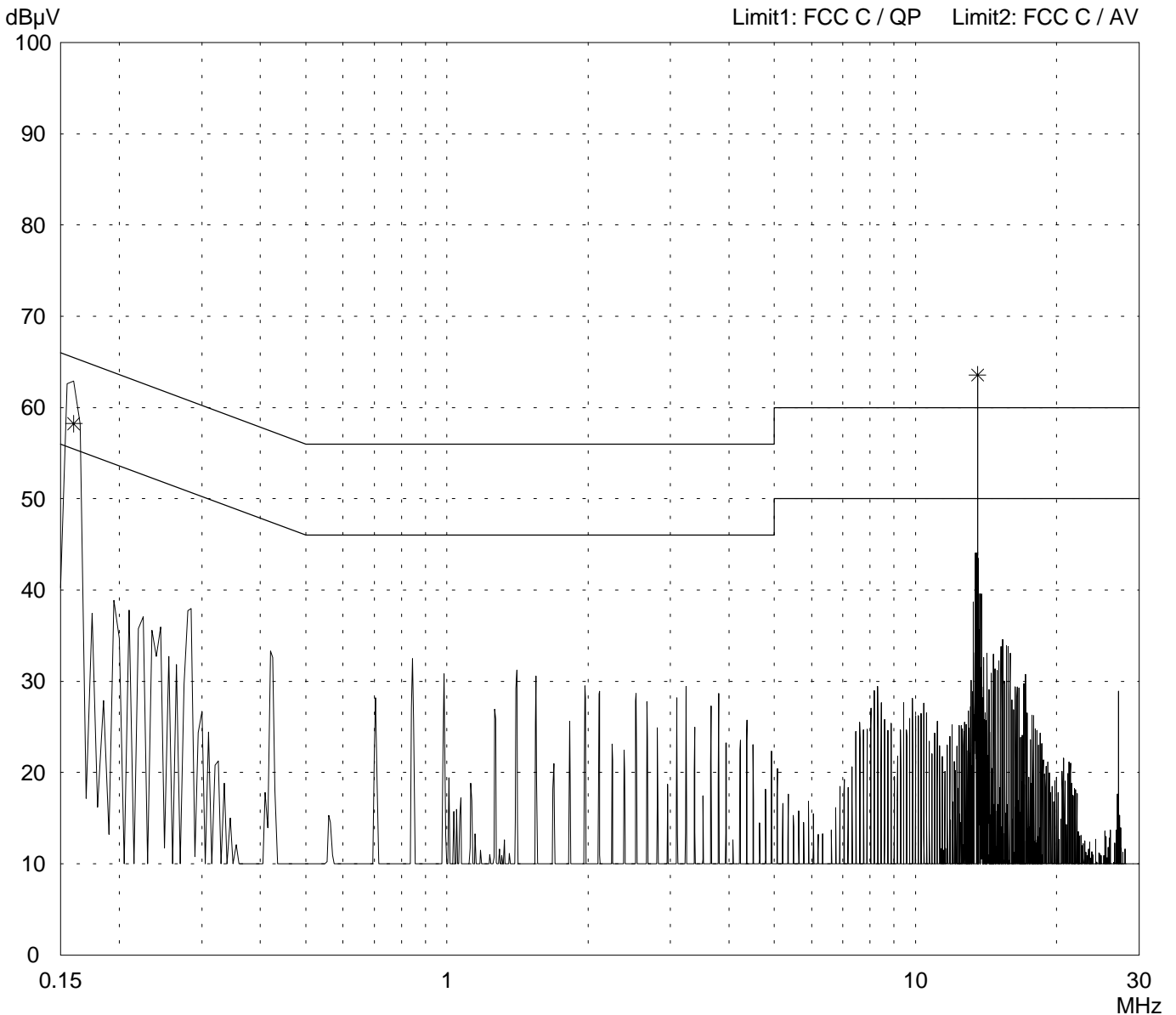
i-code datacoding fast 1/1

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:
51905-40260 Page 42 of 75 Pages

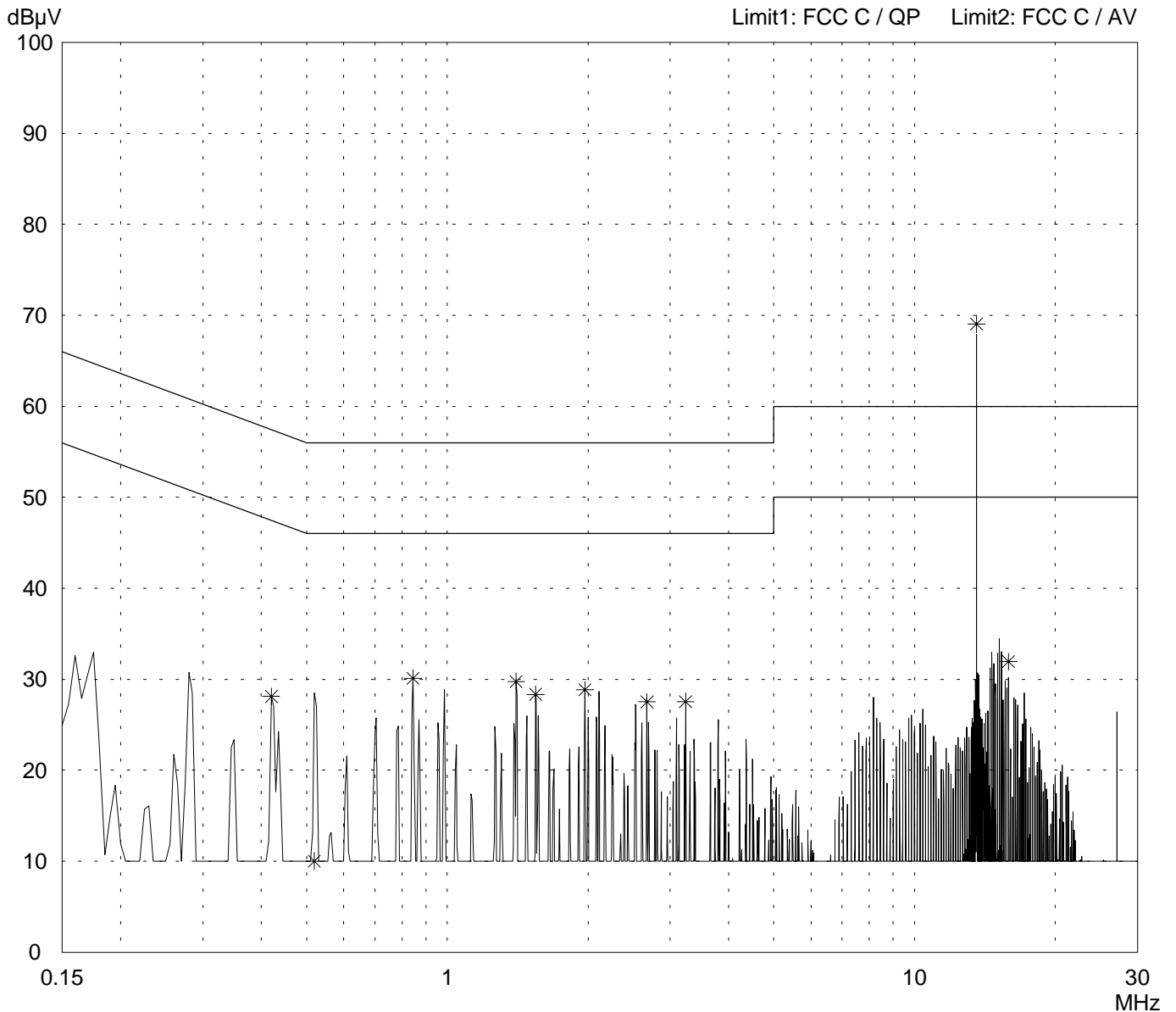
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D11 with antenna testsample No. 1	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT Phase L1	
Date of test: 06/22/2004	Operator: A. Stübinger
Test performed: automatically	File name:

Mode: FCC testsetup No. 1	
modulation 15 %	
outputpower 1 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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Result: Limit kept

Project file: 51905-40260	Page 44 of 75 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

<p>Model: Moby D SLG D11 with antenna testsample No. 1</p> <p>Serial no.: SN 100733616.10</p> <p>Applicant: Siemens AG</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord EUT Phase L1</p> <p>Date of test: Operator: 06/22/2004 A. Stübinger</p> <p>Test performed: File name: automatically</p>	<p>Mode: FCC testsetup No. 1</p> <p>modulation 15 %</p> <p>outputpower 1 W</p> <p>i-code datacoding fast 1/1</p> <p>with TAG</p> <p>Supply Voltage: 230 V AC original power supply power supply grounded</p>
---	--

<p>Detector: Average / Final Results: AV</p>	<p>Final results: 20 dB Margin 25 Subranges</p>
--	--

<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.420	28.1		28.1	47.4	
0.520	10.0		10.0	46.0	
0.845	30.1		30.1	46.0	
1.405	29.8		29.8	46.0	
1.545	28.3		28.3	46.0	
1.970	28.8		28.8	46.0	
2.675	27.5		27.5	46.0	
3.235	27.5		27.5	46.0	
13.560	69.1		69.1	50.0	*
15.895	31.9		31.9	50.0	

<p>Result: Limit kept</p>	<p>Project file: 51905-40260</p> <p style="text-align: right;">Page 45 of 75 Pages</p>
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
Moby D SLG D11 with antenna test sample No. 1

Serial no.:
SN 100733616.10

Applicant:
Siemens AG

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT
Phase N

Date of test: 06/22/2004 Operator: A. Stübinger

Test performed: automatically File name:

Mode:
FCC test setup No. 1

modulation 15 %

output power 1 W

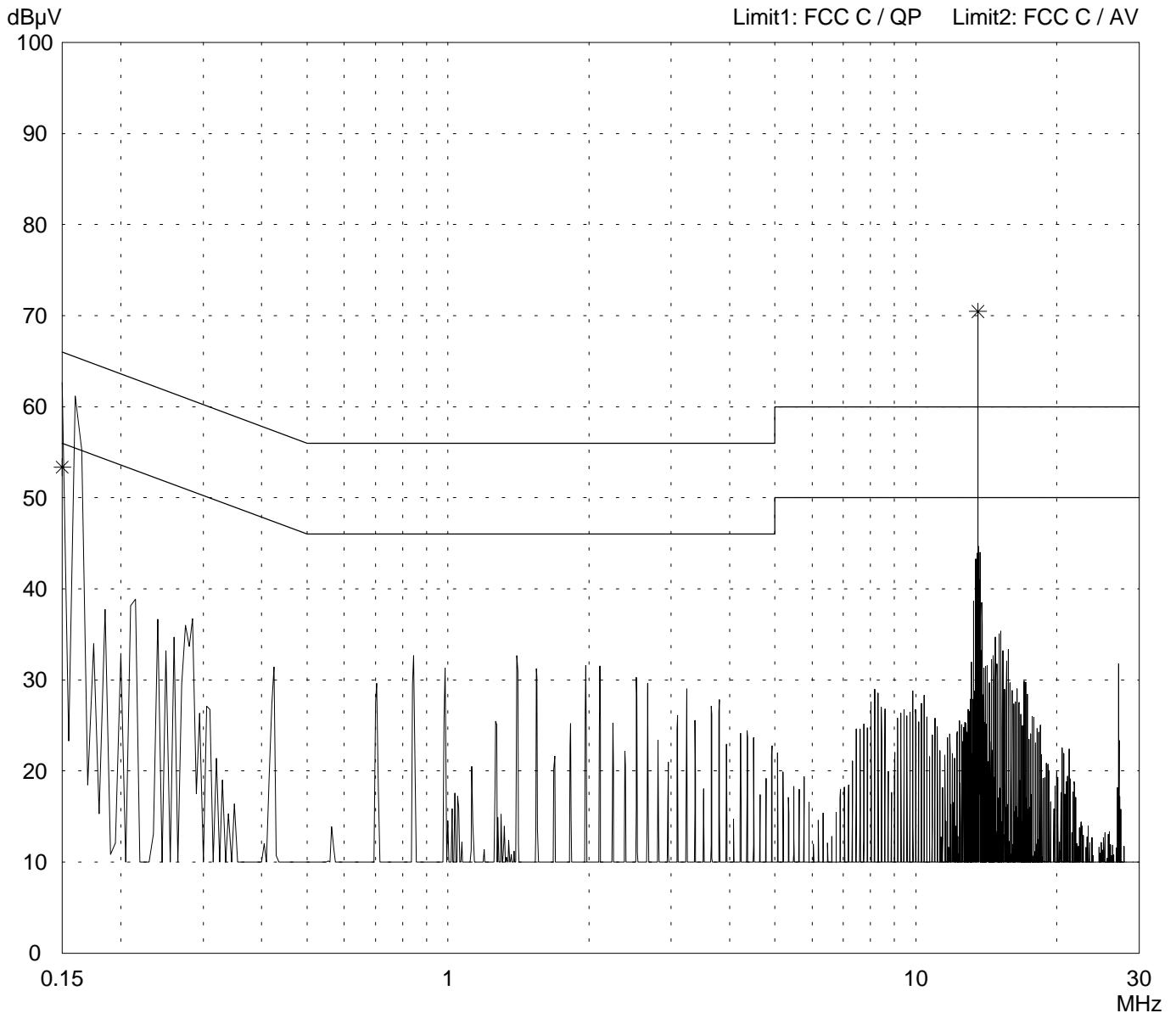
i-code data coding fast 1/1

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:
51905-40260 Page 46 of 75 Pages

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

Model: Moby D SLG D11 with antenna testsample No. 1	Mode: FCC testsetup No. 1 modulation 15 % outputpower 1 W i-code datacoding fast 1/1 with TAG Supply Voltage: 230 V AC original power supply power supply grounded
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT Phase N	
Date of test: Operator: 06/22/2004 A. Stübinger	
Test performed: File name: automatically	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges
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<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.15 13.56	53.4 70.5		53.4 70.5	66.0 60.0	*

Result: Limit kept	Project file: 51905-40260	Page 47 of 75 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
Moby D SLG D11 with antenna testsample No. 1

Serial no.:
SN 100733616.10

Applicant:
Siemens AG

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT
Phase N

Date of test: 06/22/2004 Operator: A. Stübinger

Test performed: automatically File name:

Mode:
FCC testsetup No. 1

modulation 15 %

outputpower 1 W

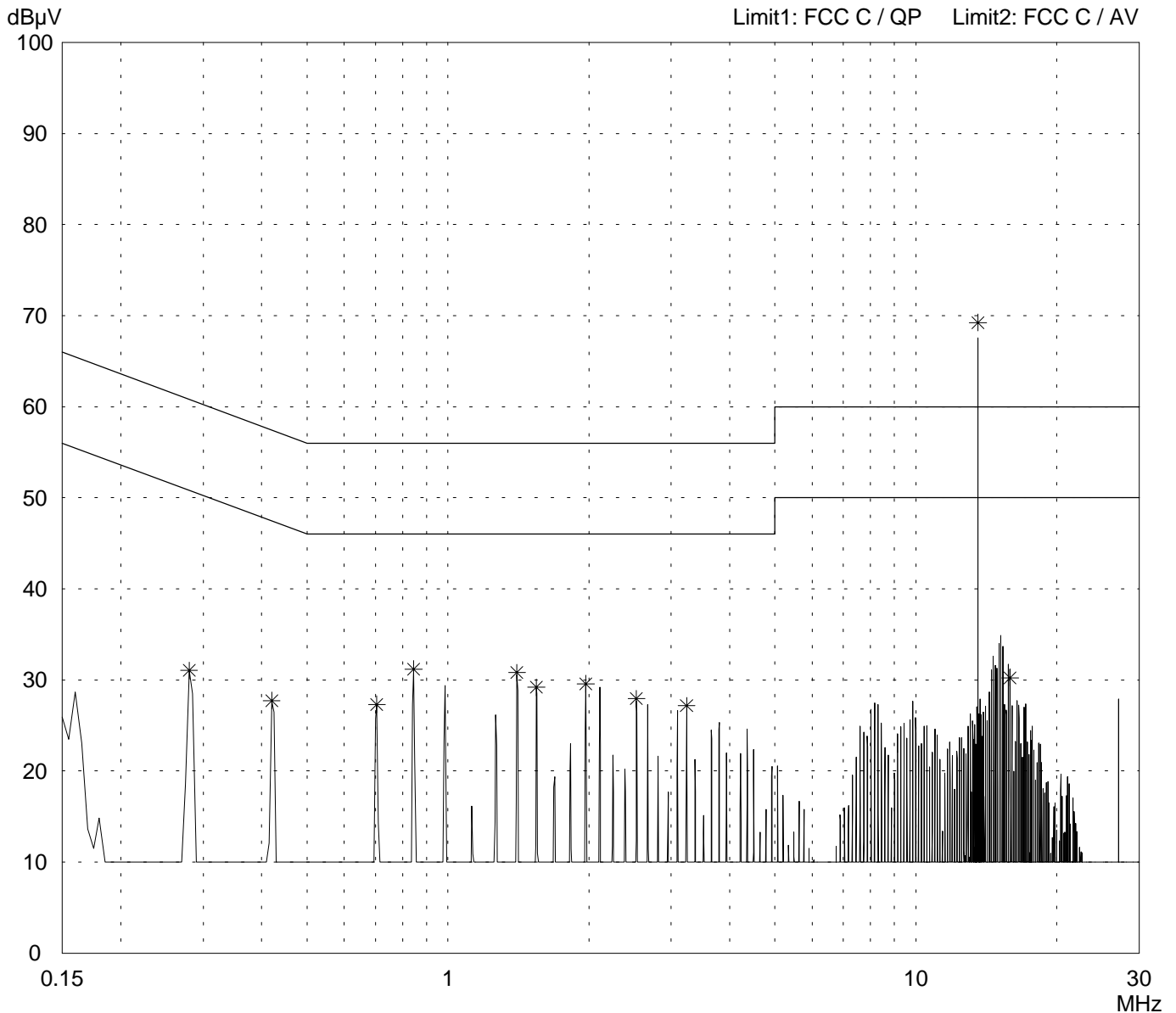
i-code datacoding fast 1/1

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:
51905-40260 Page 48 of 75 Pages

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

<p>Model: Moby D SLG D11 with antenna testsample No. 1</p> <p>Serial no.: SN 100733616.10</p> <p>Applicant: Siemens AG</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord EUT Phase N</p> <p>Date of test: Operator: 06/22/2004 A. Stübinger</p> <p>Test performed: File name: automatically</p>	<p>Mode: FCC testsetup No. 1</p> <p>modulation 15 %</p> <p>outputpower 1 W</p> <p>i-code datacoding fast 1/1</p> <p>with TAG</p> <p>Supply Voltage: 230 V AC original power supply power supply grounded</p>
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<p>Detector: Average / Final Results: AV</p>	<p>Final results: 20 dB Margin 25 Subranges</p>
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<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.280	31.0		31.0	50.8	
0.420	27.7		27.7	47.4	
0.705	27.3		27.3	46.0	
0.845	31.2		31.2	46.0	
1.405	30.8		30.8	46.0	
1.545	29.2		29.2	46.0	
1.970	29.6		29.6	46.0	
2.530	27.9		27.9	46.0	
3.235	27.2		27.2	46.0	
13.560	69.3		69.3	50.0	*
15.895	30.2		30.2	50.0	

<p>Result: Limit kept</p>	<p>Project file: 51905-40260</p> <p style="text-align: right;">Page 49 of 75 Pages</p>
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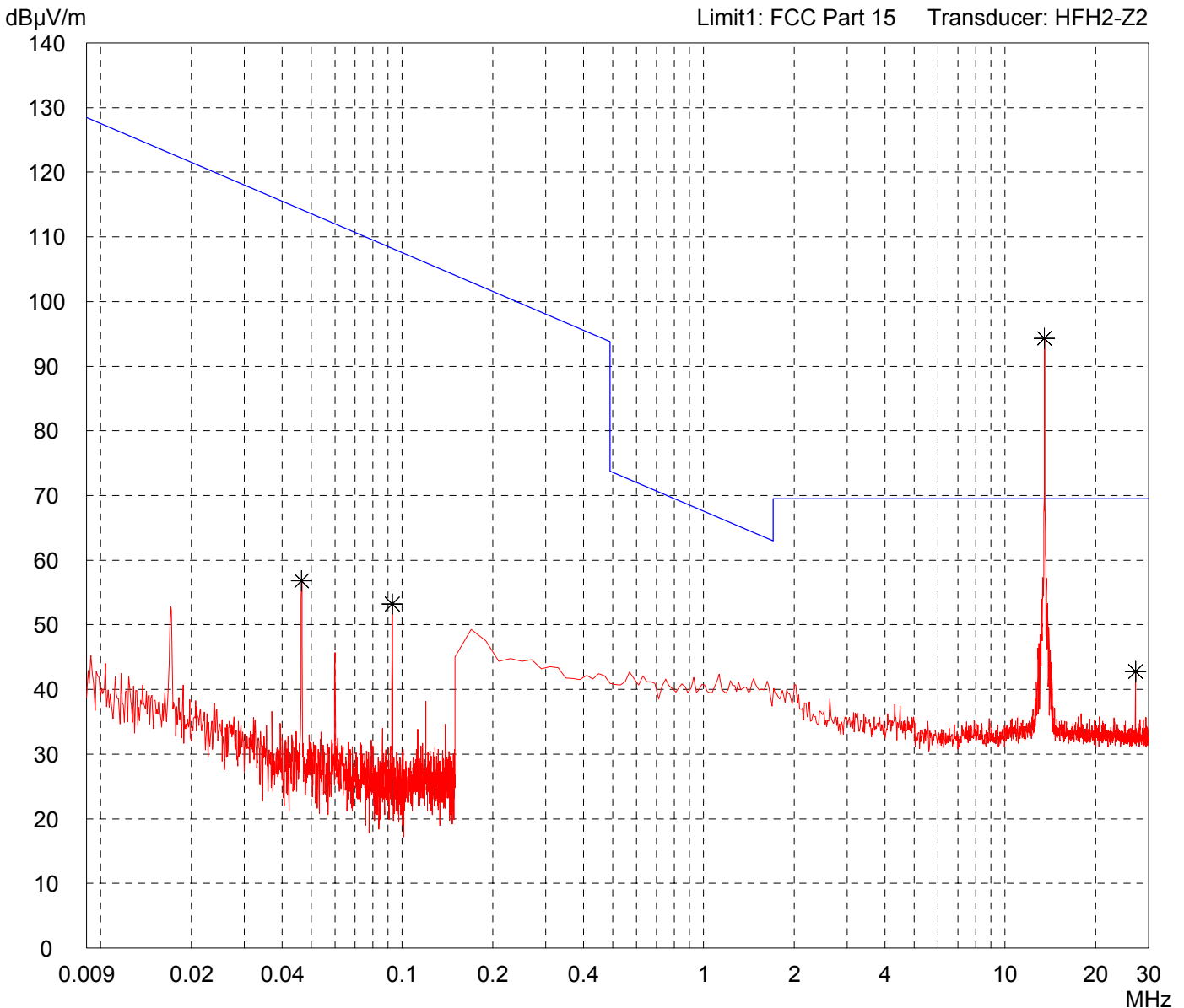
Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D11 with antenna testsample No. 1	
Serial no.: SN 100733616.10	
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 1 W i-code datacoding fast 1 / 1 with TAG Supply Voltage: 24 V DC external Measurement according : Section 15.225

Detector: Peak

List of values: Selected by hand



Result: Prescan

Project file: 51905-40260	Page 50 of 75 Pages
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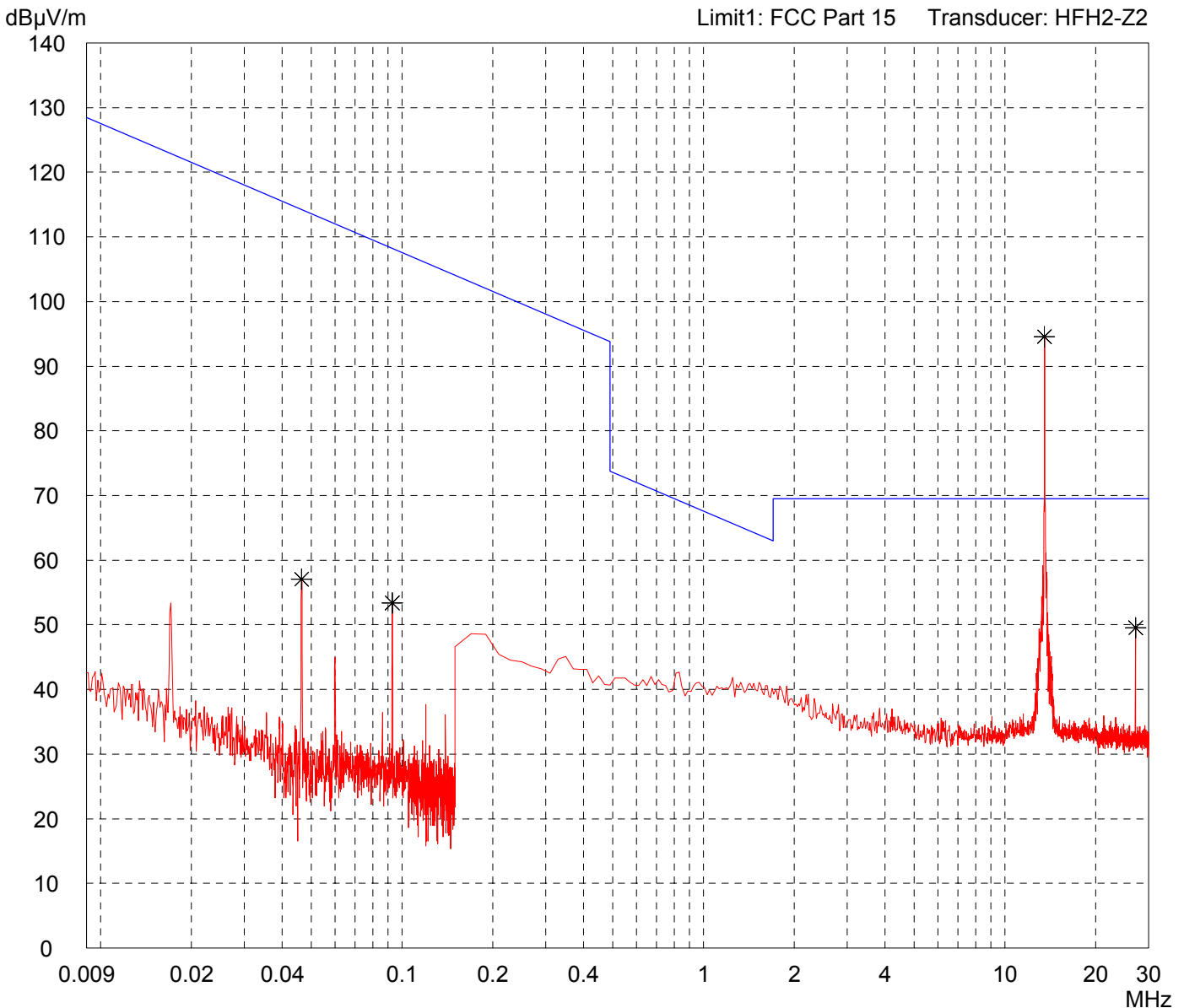
Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D11 with antenna testsample No. 1	
Serial no.: SN 100733616.10	
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 1 W i-code datacoding fast 1 / 1 without TAG Supply Voltage: 24 V DC external Measurement according : Section 15.225
--

Detector: Peak

List of values: Selected by hand



Result: Prescan

Project file: 51905-40260	Page 51 of 75 Pages
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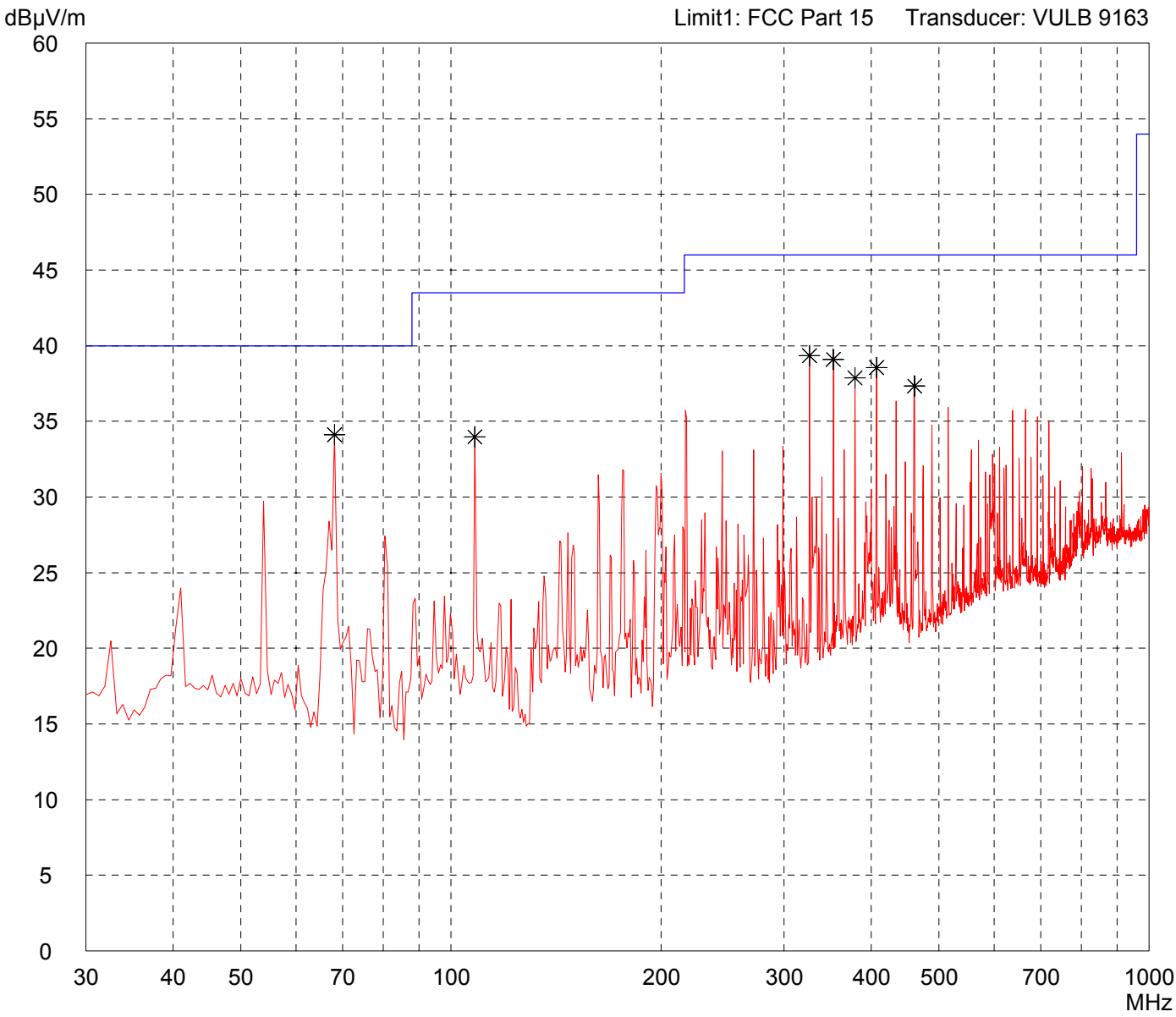
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D11 with antenna Testsample No. 1	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 06/15/2004	Operator: K. Roidt
Test performed: automatically	File name: default.emi

Comment: FCC testsetup No. 1	
modulation 15 %	
Output power 1 W	
i-code datacoding fast 1/1	
with TAG	
supply Voltage: 24 V DC external	
Antennenleitung neu verlegt, Stand 15.06.04	

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

Project file: 51905-40260	Page 52 of 75 Pages
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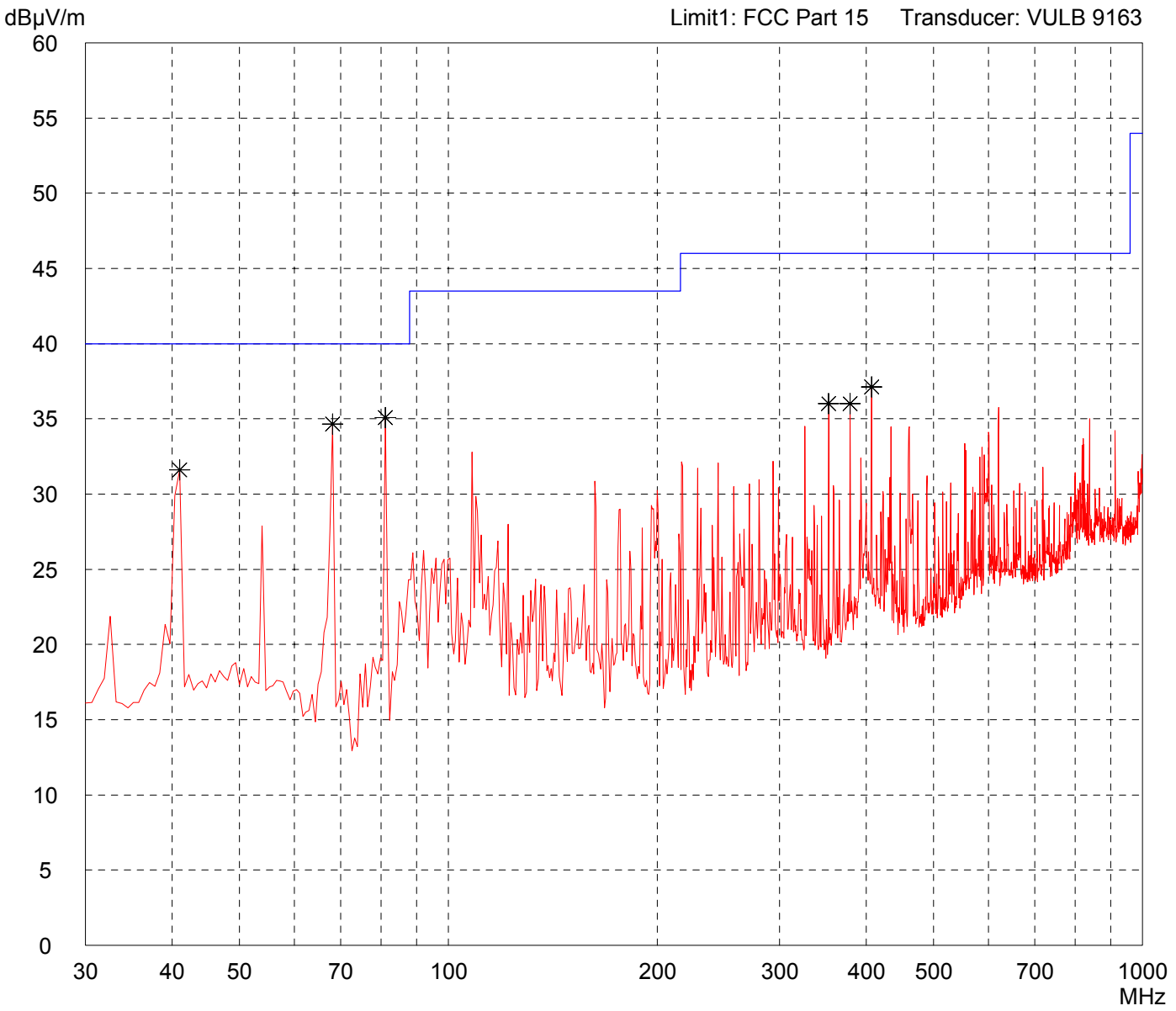
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D11 with antenna Testsample No. 1	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 06/15/2004	Operator: K. Roidt
Test performed: automatically	File name: default.emi

Comment: FCC testsetup No. 1	
modulation 15 %	
Output power 1 W	
i-code datacoding fast 1/1	
with TAG	
supply Voltage: 24 V DC external	
Antennenleitung neu verlegt, Stand 15.06.04	

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

Project file: 51905-40260	Page 53 of 75 Pages
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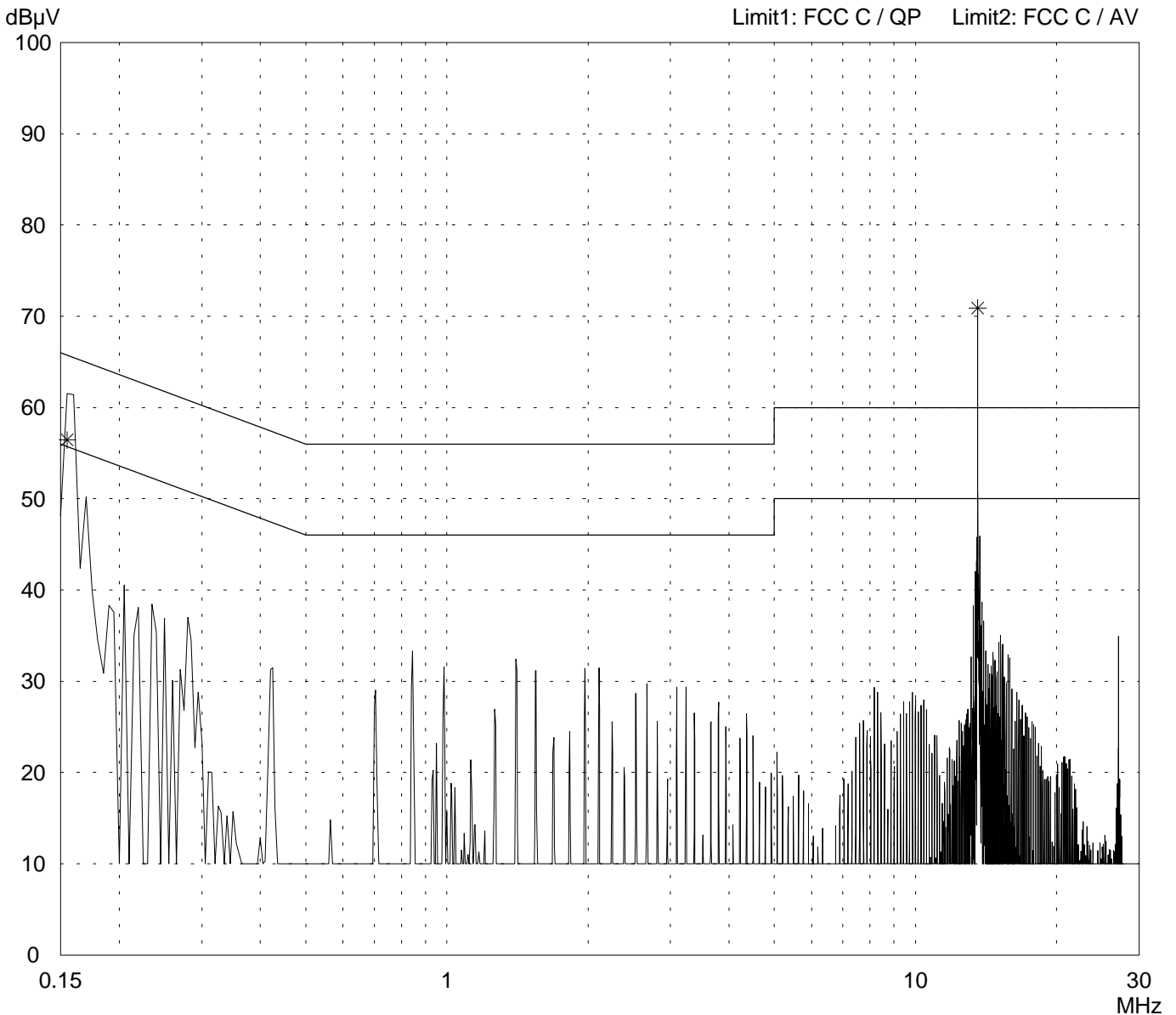
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D11 with antenna testsample No.2	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord 230 V AC power supply EUT Phase L1	
Date of test: 06/29/2004	Operator: K. Roidt
Test performed: automatically	File name:

Mode: FCC testsetup No. 2	
modulation 15 %	
outputpower 1 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: 51905-40260	Page 54 of 75 Pages
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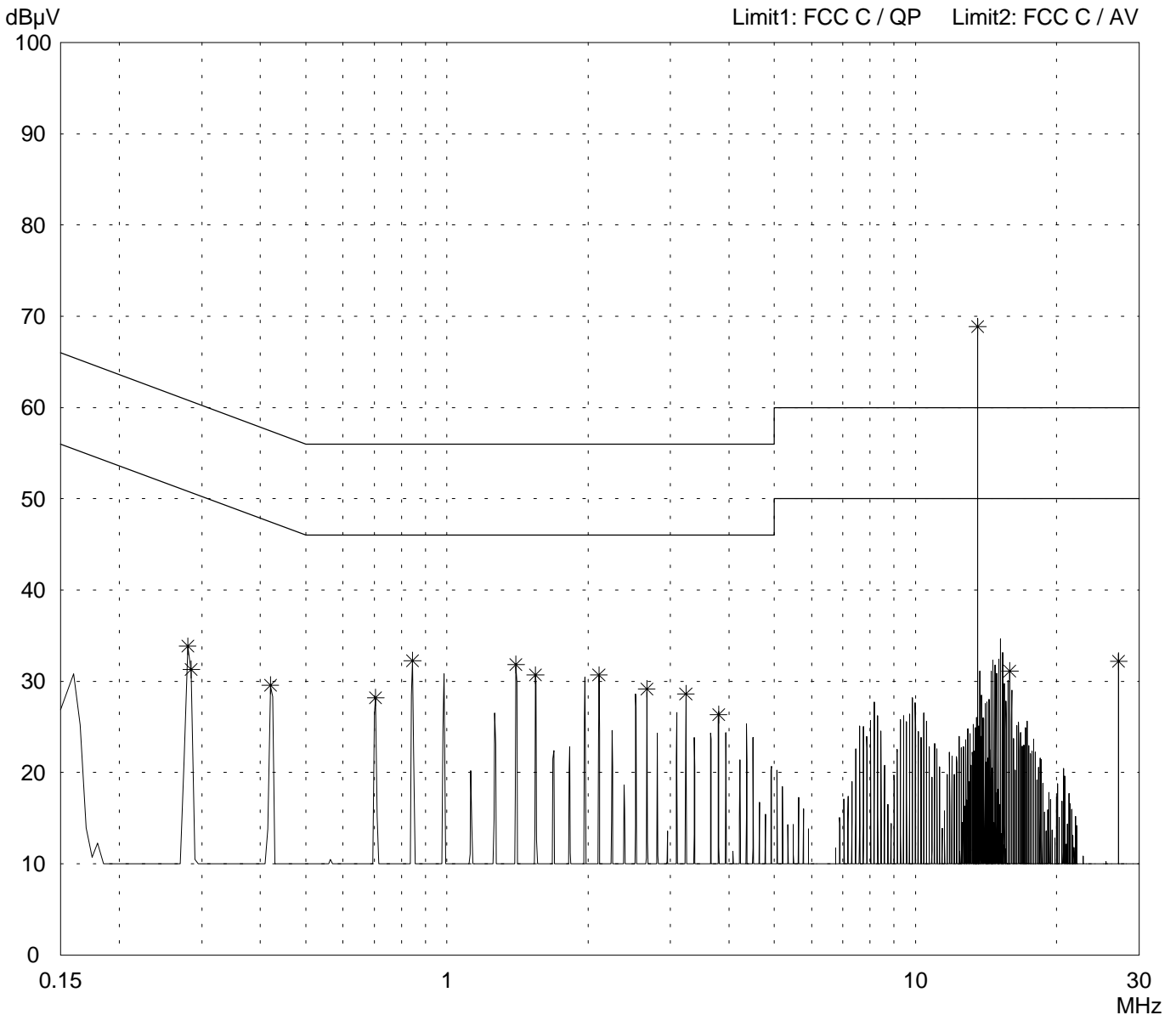
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D11 with antenna test sample No.2	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord 230 V AC power supply EUT Phase L1	
Date of test: 06/29/2004	Operator: K. Roidt
Test performed: automatically	File name:

Mode: FCC test setup No.2	
modulation 15 %	
output power 1 W	
i-code data coding 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: 51905-40260	Page 56 of 75 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

<p>Model: Moby D SLG D11 with antenna testsample No.2</p> <p>Serial no.: SN 100733616.10</p> <p>Applicant: Siemens AG</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord 230 V AC power supply EUT Phase L1</p> <p>Date of test: Operator: 06/29/2004 K. Roidt</p> <p>Test performed: File name: automatically</p>	<p>Mode: FCC testsetup No.2</p> <p>modulation 15 %</p> <p>outputpower 1 W</p> <p>i-code datacoding fast 1/1</p> <p>with TAG</p> <p>Supply Voltage: 230 V AC original power supply power supply grounded</p>
--	---

<p>Detector: Average / Final Results: AV</p>	<p>Final results: 20 dB Margin 25 Subranges</p>
--	--

Frequency MHz	Reading dBµV	Correction factor dB	Value dBµV	Limit dBµV	Limit exceeded
0.280	33.8		33.8	50.8	
0.285	31.3		31.3	50.7	
0.420	29.6		29.6	47.4	
0.705	28.2		28.2	46.0	
0.845	32.2		32.2	46.0	
1.405	31.8		31.8	46.0	
1.545	30.7		30.7	46.0	
2.110	30.7		30.7	46.0	
2.670	29.2		29.2	46.0	
3.235	28.6		28.6	46.0	
3.800	26.3		26.3	46.0	
13.560	68.8		68.8	50.0	*
15.895	31.1		31.1	50.0	
27.120	32.2		32.2	50.0	

<p>Result: Limit kept</p>	<p>Project file: 51905-40260</p> <p style="text-align: right;">Page 57 vo 75 Pages</p>
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
Moby D SLG D11 with antenna test sample No.2

Serial no.:
SN 100733616.10

Applicant:
Siemens AG

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord 230 V AC power supply EUT
Phase N

Date of test: 06/29/2004 Operator: K. Roidt

Test performed: automatically File name:

Mode:
FCC test setup No.2

modulation 15 %

output power 1 W

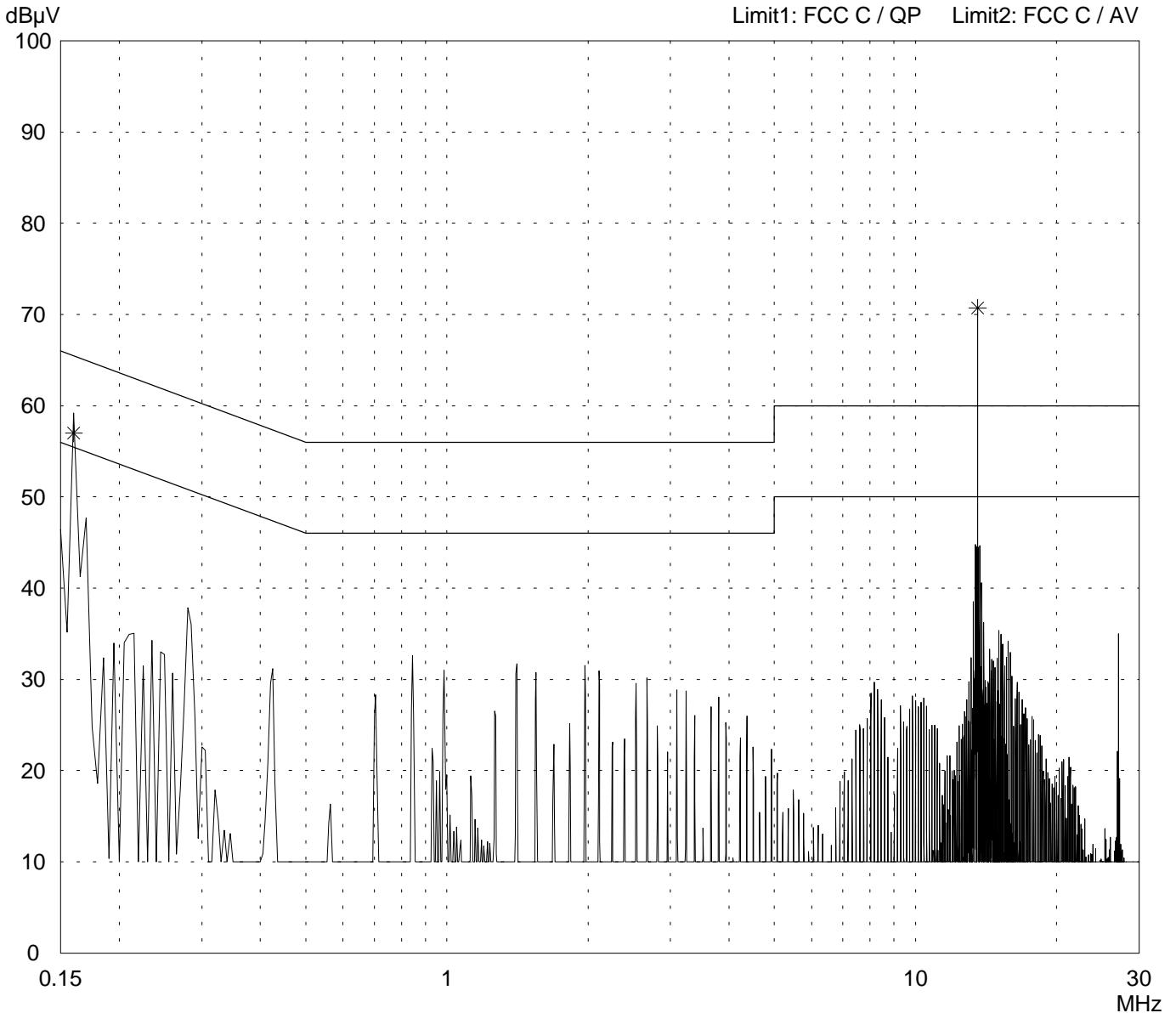
i-code data coding fast 1/1

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:
51905-40260 Page 58 of 75 Pages

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

Model: Moby D SLG D11 with antenna testsample No. 2	Mode: FCC testsetup No. 2 modulation 15 % outputpower 1 W i-code datacoding fast 1/1 with TAG Supply Voltage: 230 V AC original power supply power supply grounded	
Serial no.: SN 100733616.10		
Applicant: Siemens AG		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord 230 V AC power supply EUT Phase N		
Date of test: 06/29/2004		Operator: K. Roidt
Test performed: automatically		File name:

Detector: Peak / Final Results: QP	Final results: 20 dB Margin	25 Subranges
---------------------------------------	--------------------------------	--------------

<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.16 13.56	57.0 70.7		57.0 70.7	65.5 60.0	*

Result: Limit kept	Project file: 51905-40260	Page 59 of 75 Pages
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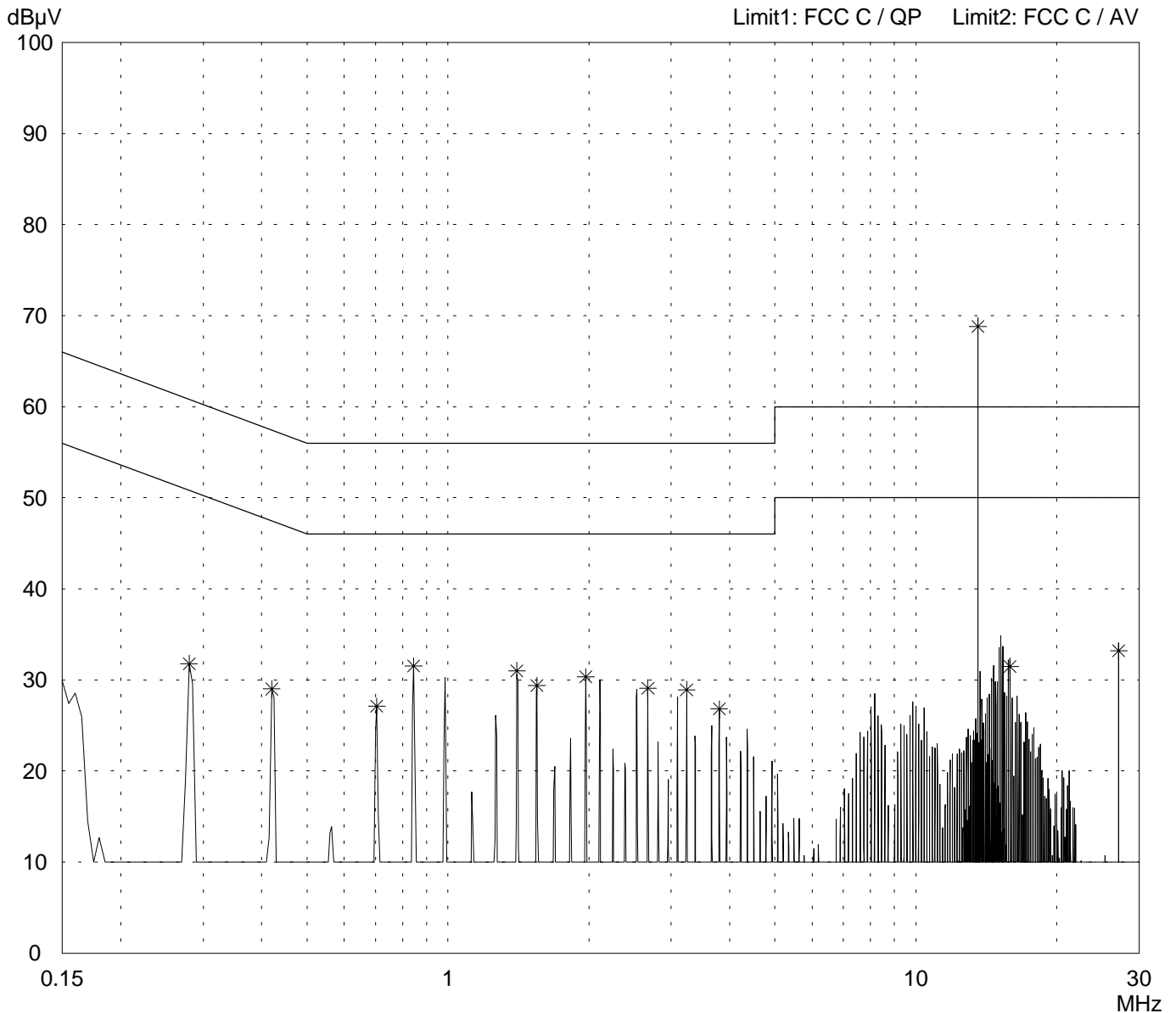
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D11 with antenna test sample No.2	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord 230 V AC power supply EUT Phase N	
Date of test: 06/29/2004	Operator: K. Roidt
Test performed: automatically	File name:

Mode: FCC test setup No.2	
modulation 15 %	
output power 1 W	
i-code data coding 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: 51905-40260	Page 60 of 75 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

<p>Model: Moby D SLG D11 with antenna testsample No.2</p> <p>Serial no.: SN 100733616.10</p> <p>Applicant: Siemens AG</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord 230 V AC power supply EUT Phase N</p> <p>Date of test: Operator: 06/29/2004 K. Roidt</p> <p>Test performed: File name: automatically</p>	<p>Mode: FCC testsetup No.2</p> <p>modulation 15 %</p> <p>outputpower 1 W</p> <p>i-code datacoding fast 1/1</p> <p>with TAG</p> <p>Supply Voltage: 230 V AC original power supply power supply grounded</p>
---	---

<p>Detector: Average / Final Results: AV</p>	<p>Final results: 20 dB Margin 25 Subranges</p>
--	--

<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.280	31.8		31.8	50.8	
0.420	29.0		29.0	47.4	
0.705	27.1		27.1	46.0	
0.845	31.5		31.5	46.0	
1.405	31.0		31.0	46.0	
1.550	29.4		29.4	46.0	
1.970	30.3		30.3	46.0	
2.675	29.1		29.1	46.0	
3.235	28.9		28.9	46.0	
3.800	26.8		26.8	46.0	
13.560	68.8		68.8	50.0	*
15.900	31.5		31.5	50.0	
27.120	33.2		33.2	50.0	

<p>Result: Limit kept</p>	<p>Project file: 51905-40260</p> <p style="text-align: right;">Page 61 of 75 Pages</p>
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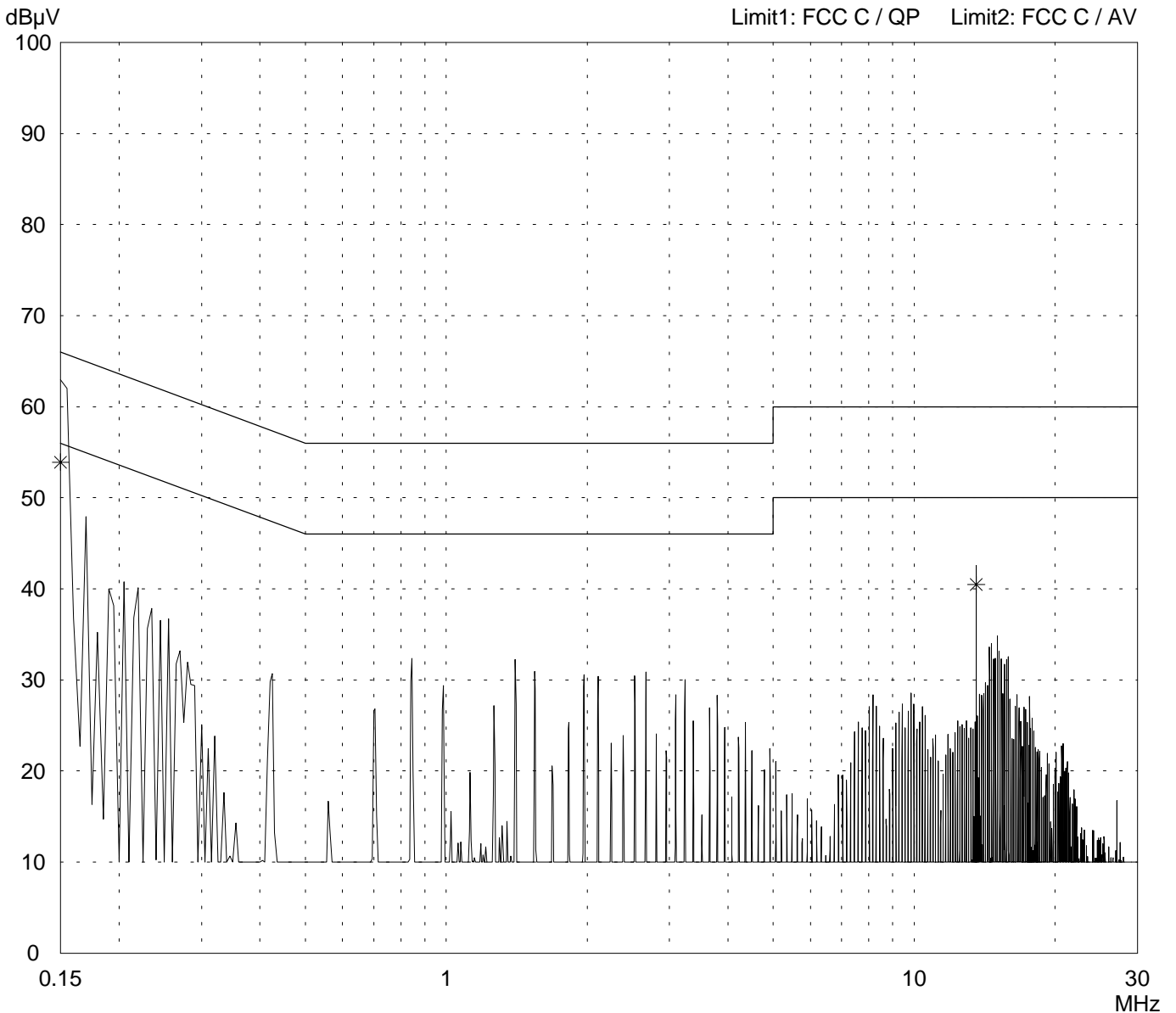
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D11	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT Phase L1	
Date of test: 06/22/2004	Operator: A. Stübinger
Test performed: automatically	File name:

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

Detector: Peak / Final Results: QP	
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Final results: 20 dB Margin	25 Subranges
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Result: Limit kept

Project file: 51905-40260	Page 62 of 75 Pages
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**Conducted Emission Test 150 kHz - 30 MHz
according to FCC Part 15 Subpart C**

Model: Moby D SLG D11	Mode: FCC testsetup No. 1 modulation 15 % outputpower 1 W i-code datacoding fast 1/1 with terminator (50 ohms) Supply Voltage: 230 V AC original power supply power supply grounded	
Serial no.: SN 100733616.10		
Applicant: Siemens AG		
Test site: Shielded room, cabin no. 2		
Tested on: Linecord EUT Phase L1		
Date of test: 06/22/2004		Operator: A. Stübinger
Test performed: automatically		File name:

Detector: Peak / Final Results: QP	Final results: 20 dB Margin	25 Subranges
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<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.15	53.9		53.9	66.0	
13.56	40.5		40.5	60.0	

Result: Limit kept	Project file: 51905-40260	Page 63 of 75 Pages
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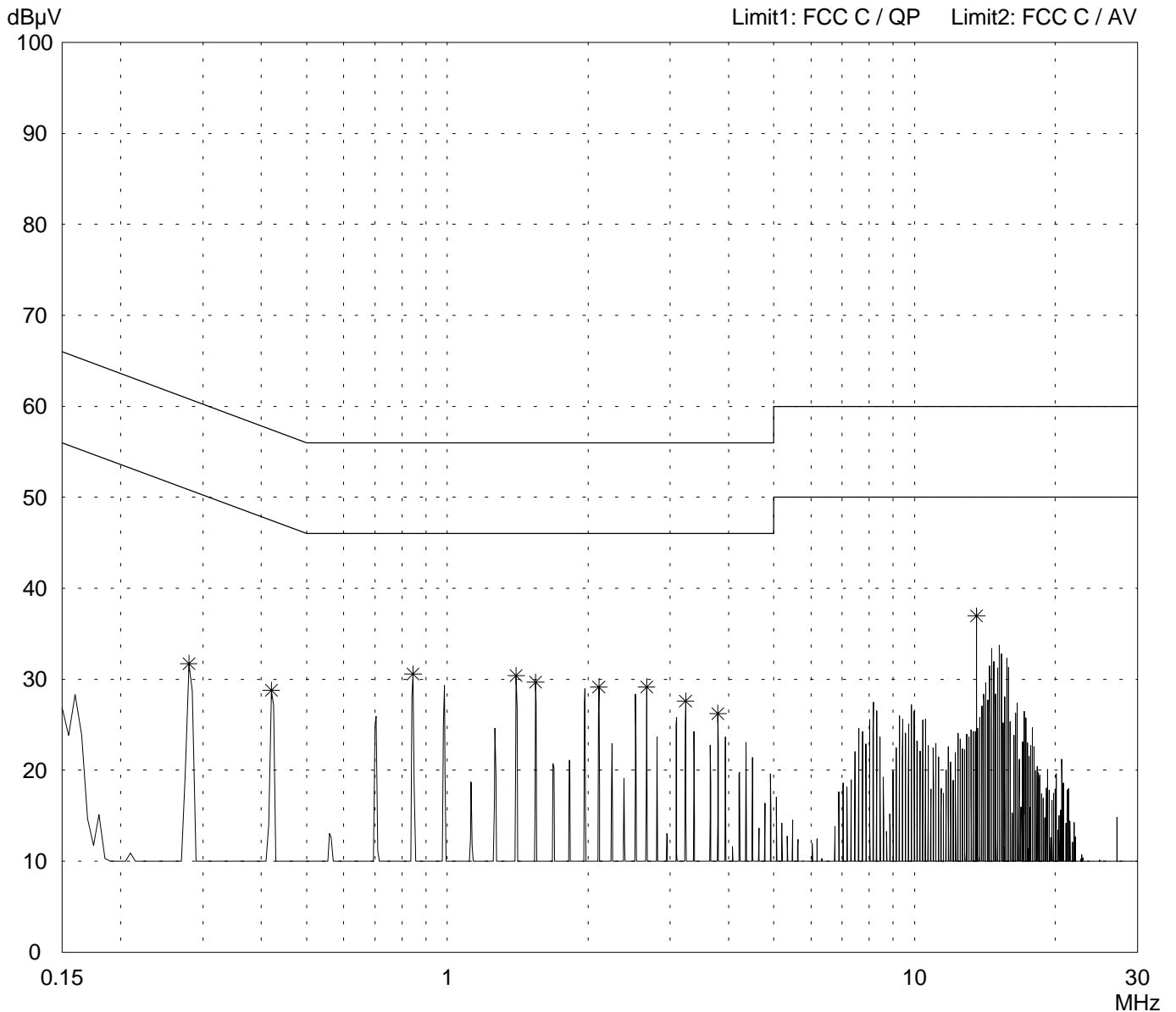
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D11	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT Phase L1	
Date of test: 06/22/2004	Operator: A. Stübinger
Test performed: automatically	File name:

Mode: FCC testsetup No. 1	
modulation 15 %	
outputpower 1 W	
i-code datacoding fast 1/1	
with terminator (50 ohms)	
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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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

<p>Model: Moby D SLG D11</p> <p>Serial no.: SN 100733616.10</p> <p>Applicant: Siemens AG</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord EUT Phase L1</p> <p>Date of test: Operator: 06/22/2004 A. Stübinger</p> <p>Test performed: File name: automatically</p>	<p>Mode: FCC testsetup No. 1</p> <p>modulation 15 %</p> <p>outputpower 1 W</p> <p>i-code datacoding fast 1/1</p> <p>with terminator (50 ohms)</p> <p>Supply Voltage: 230 V AC original power supply power supply grounded</p>
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<p>Detector: Average / Final Results: AV</p>	<p>Final results: 20 dB Margin 25 Subranges</p>
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<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.280	31.7		31.7	50.8	
0.420	28.8		28.8	47.4	
0.845	30.6		30.6	46.0	
1.405	30.4		30.4	46.0	
1.545	29.7		29.7	46.0	
2.110	29.2		29.2	46.0	
2.670	29.2		29.2	46.0	
3.235	27.6		27.6	46.0	
3.795	26.2		26.2	46.0	
13.560	36.9		36.9	50.0	

<p>Result: Limit kept</p>	<p>Project file: 51905-40260</p> <p style="text-align: right;">Page 65 of 75 Pages</p>
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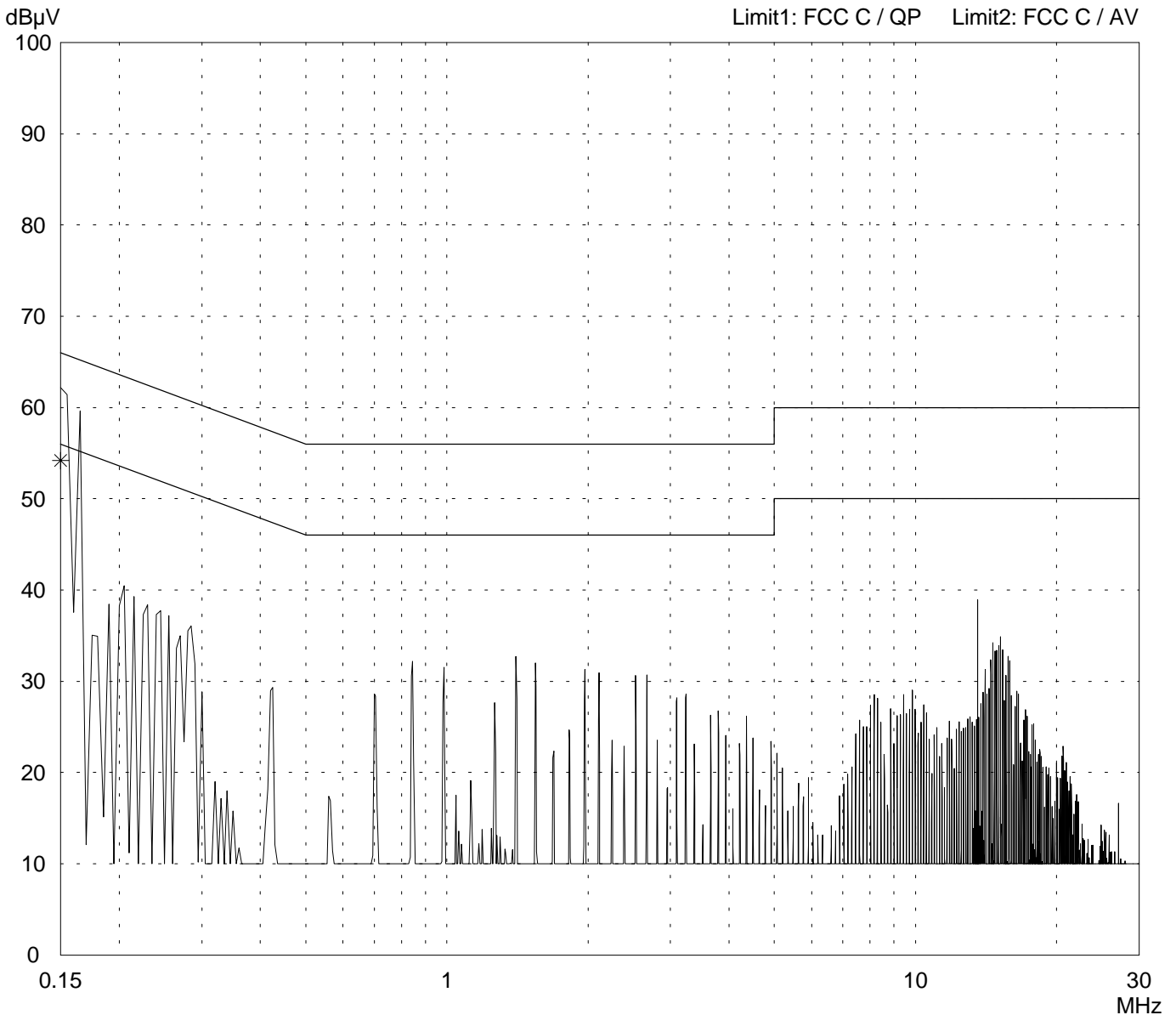
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model: Moby D SLG D11	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT Phase N	
Date of test: 06/22/2004	Operator: A. Stübinger
Test performed: automatically	File name:

Mode: FCC testsetup No. 1	
modulation 15 %	
outputpower 1 W	
i-code datacoding fast 1/1	
with terminator (50 ohms)	
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 D11	Mode: FCC testsetup No. 1 modulation 15 % outputpower 1 W i-code datacoding fast 1/1 with terminator (50 ohms) Supply Voltage: 230 V AC original power supply power supply grounded
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT Phase N	
Date of test: 06/22/2004 Operator: A. Stübinger	
Test performed: automatically File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges
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<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.15	54.2		54.2	66.0	

Result: Limit kept	Project file: 51905-40260	Page 67 of 75 Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
Moby D SLG D11

Serial no.:
SN 100733616.10

Applicant:
Siemens AG

Test site:
Shielded room, cabin no. 2

Tested on:
**Linecord EUT
Phase N**

Date of test: **06/22/2004** Operator:
A. Stübinger

Test performed:
automatically File name:

Mode:
FCC testsetup No. 1

modulation 15 %

outputpower 1 W

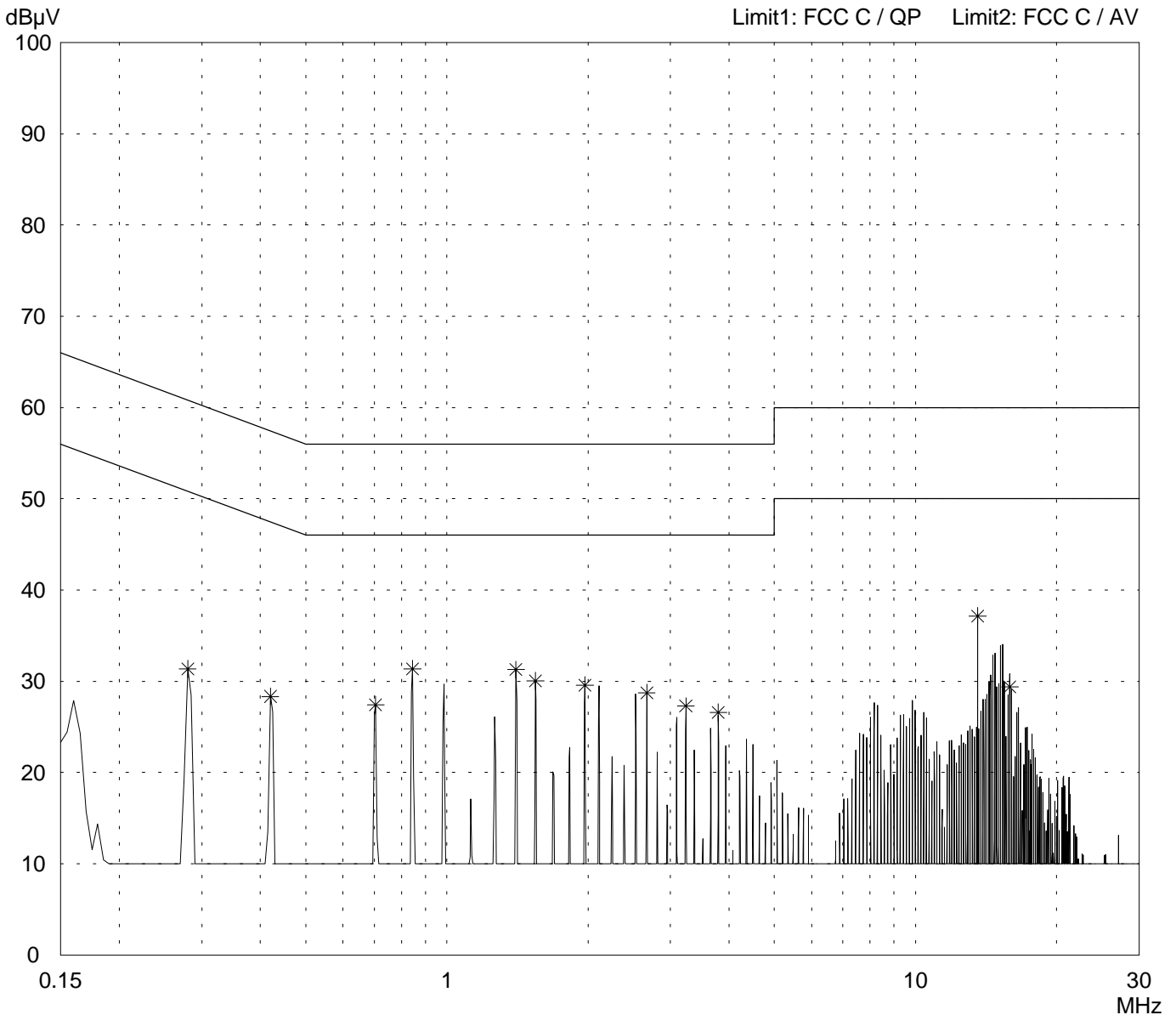
i-code datacoding fast 1/1

with terminator (50 ohms)

**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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51905-40260 **Page 68 of 75 Pages**

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

<p>Model: Moby D SLG D11</p> <p>Serial no.: SN 100733616.10</p> <p>Applicant: Siemens AG</p> <p>Test site: Shielded room, cabin no. 2</p> <p>Tested on: Linecord EUT Phase N</p> <p>Date of test: Operator: 06/22/2004 A. Stübinger</p> <p>Test performed: File name: automatically</p>	<p>Mode: FCC testsetup No. 1</p> <p>modulation 15 %</p> <p>outputpower 1 W</p> <p>i-code datacoding fast 1/1</p> <p>with terminator (50 ohms)</p> <p>Supply Voltage: 230 V AC original power supply power supply grounded</p>
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<p>Detector: Average / Final Results: AV</p>	<p>Final results: 20 dB Margin 25 Subranges</p>
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<i>Frequency MHz</i>	<i>Reading dBµV</i>	<i>Correction factor dB</i>	<i>Value dBµV</i>	<i>Limit dBµV</i>	<i>Limit exceeded</i>
0.280	31.4		31.4	50.8	
0.420	28.3		28.3	47.4	
0.705	27.4		27.4	46.0	
0.845	31.4		31.4	46.0	
1.405	31.3		31.3	46.0	
1.545	30.0		30.0	46.0	
1.970	29.6		29.6	46.0	
2.670	28.7		28.7	46.0	
3.235	27.3		27.3	46.0	
3.795	26.6		26.6	46.0	
13.560	37.2		37.2	50.0	
15.890	29.4		29.4	50.0	

<p>Result: Limit kept</p>	<p>Project file: 51905-40260</p> <p style="text-align: right;">Page 69 of 75 Pages</p>
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Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:
Moby D SLG D11 with antenna No. 02

Serial no.:
SN 100733616.10

Applicant:
Siemens AG

Test site:
Shielded room, cabin no. 2

Tested on:
Test distance 3 metres

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

Test performed: automatically File name:

Mode:
FCC testsetup No. 2

modulation 15 %

output power 1 W

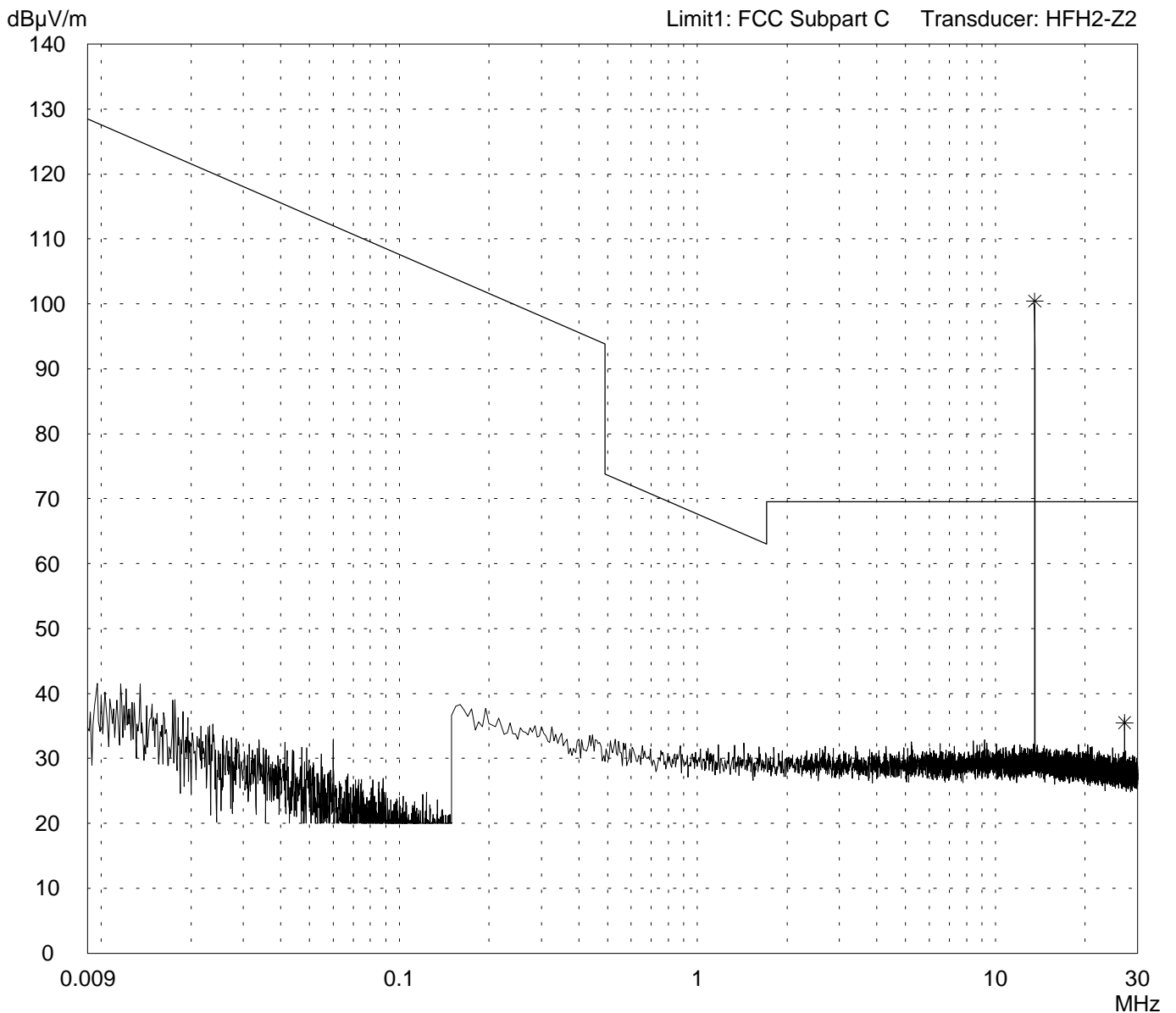
i-code datacoding fast 1 / 1

with TAG
Supply voltage: 24 V DC external

Measurement according: Section 15.225

Detector:
Peak / Final Results: QP

Final results:
Selected by hand



Result:
Prescan

Project file:
51905-40260

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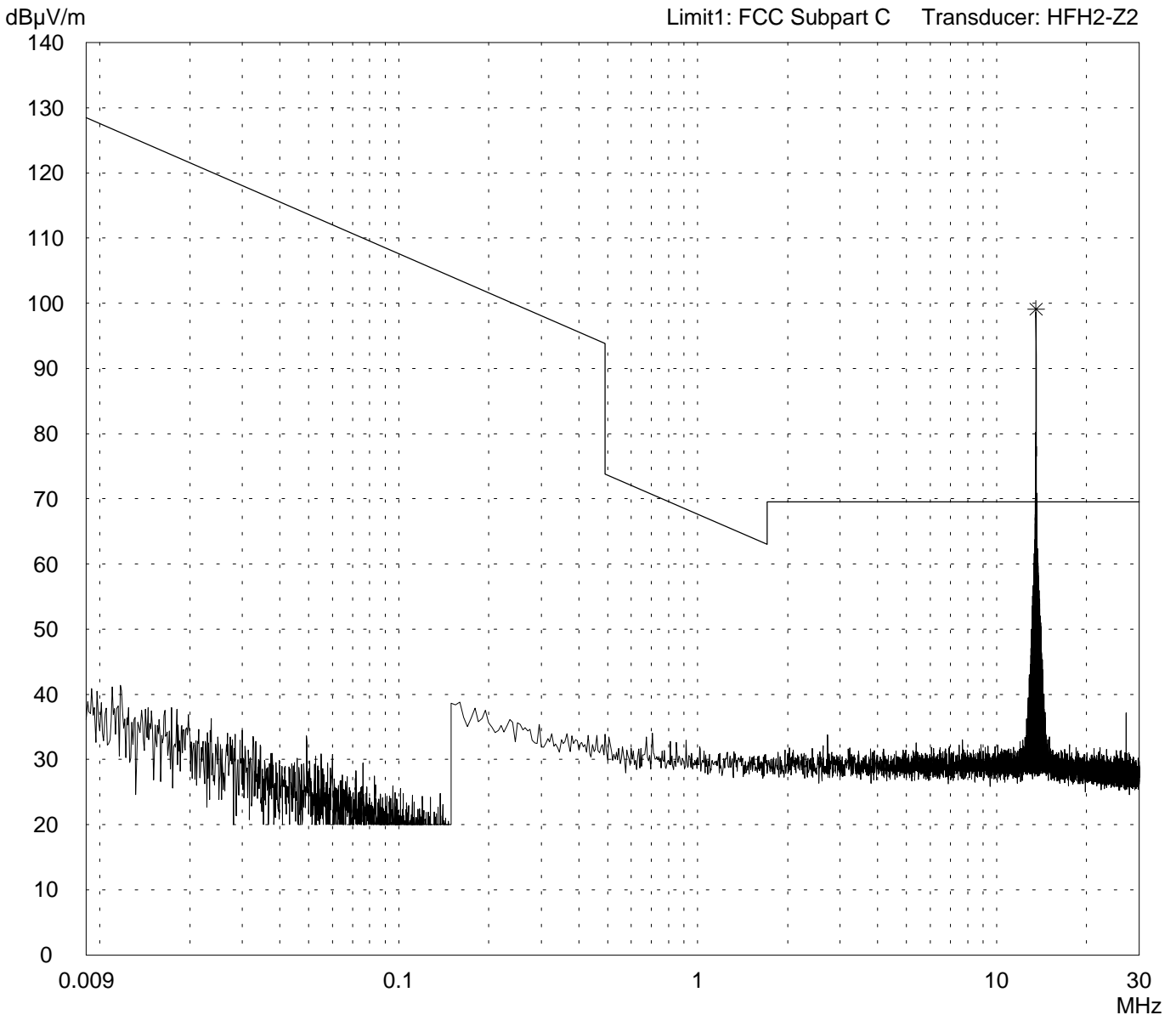
Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D11 with antenna No. 02	
Serial no.: SN 100733616.10	
Applicant: Siemens AG	
Test site: Shielded room, cabin no. 2	
Tested on: Test distance 3 metres	
Date of test: 04/13/2004	Operator: K. Roidt
Test performed: automatically	File name:

Mode: FCC testsetup No. 2	
modulation 15 %	
output power 1 W	
i-code datacoding fast 1 / 1	
without TAG	
Supply Voltage: 24 V DC external	
Measurement according: Section 15.225	

Detector: Peak / Final Results: QP

Final results: 20 dB Margin	25 Subranges
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Result: Prescan

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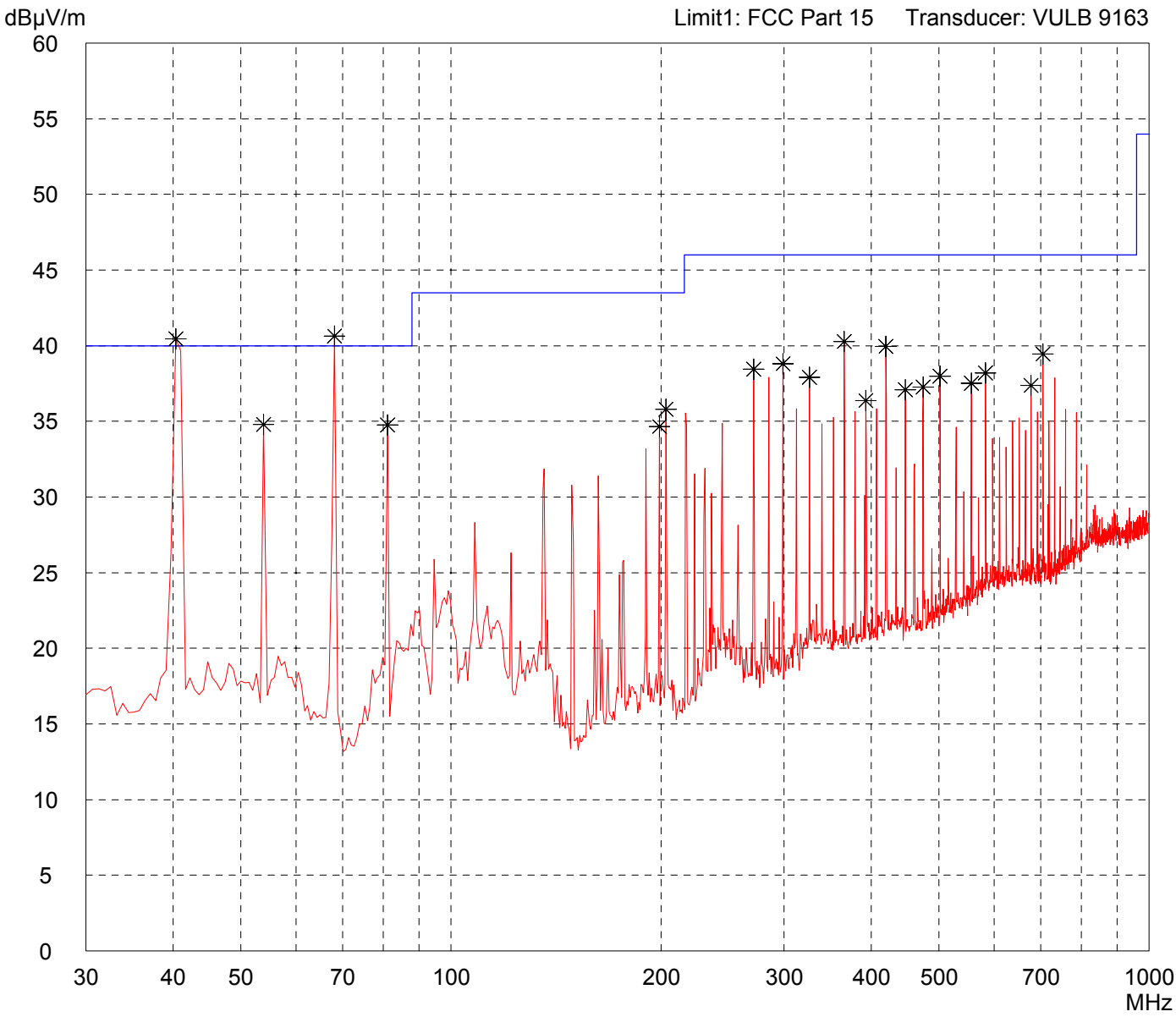
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D11 with antenna 2	
Serial no.: 10096088100733616.109.4	
Applicant: Siemens AG	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 06/29/2004	Operator: K. Roidt
Test performed: automatically	File name: default.emi

Comment: FCC testsetup No. 2	
modulation 15 %	
output power 1 W	
with TAG	
Supply voltage: 230 V AC original power supply power supply grounded	

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

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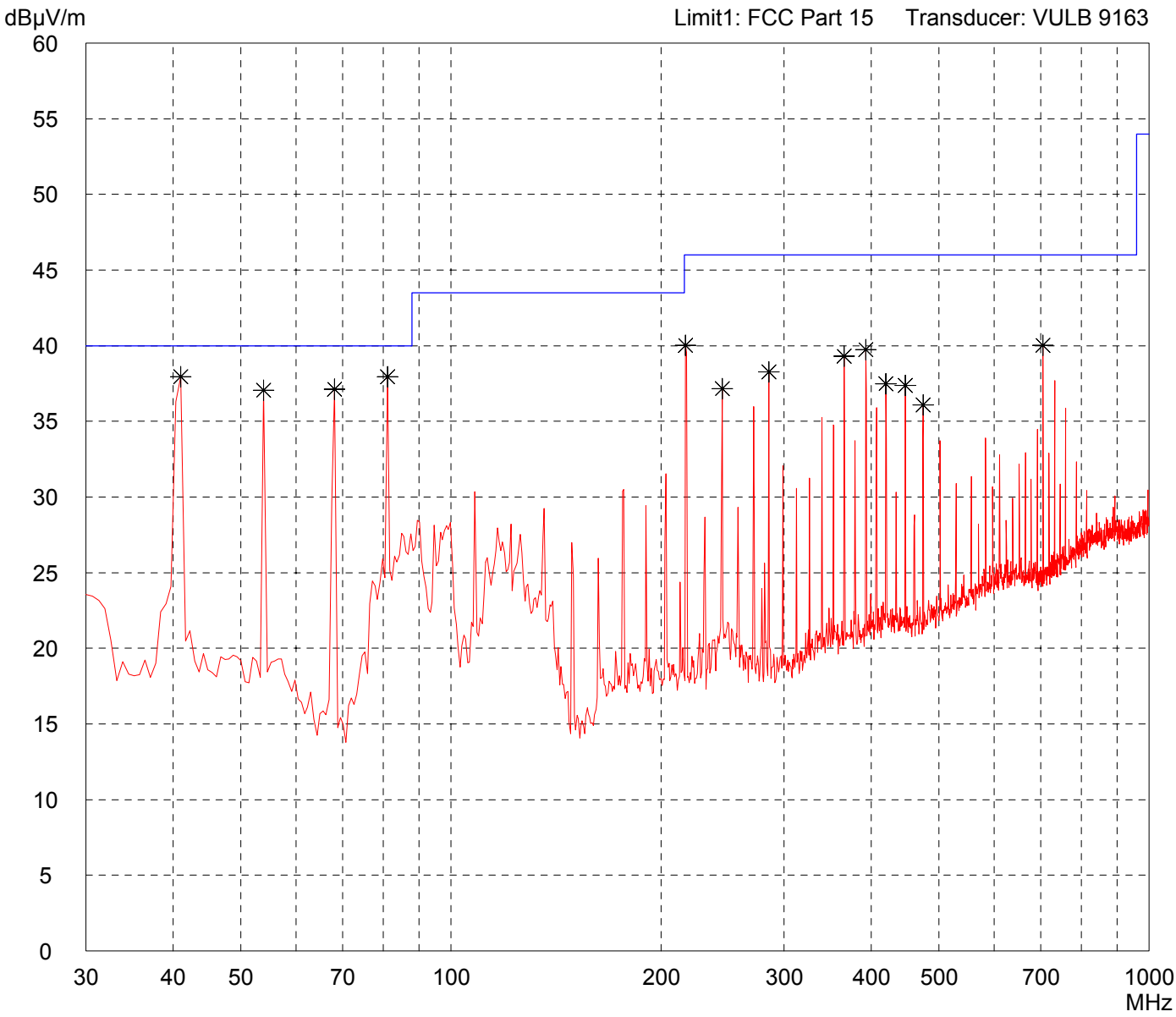
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Moby D SLG D11 with antenna 2	
Serial no.: 100733616.10	
Applicant: Siemens AG	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 06/29/2004	Operator: K. Roidt
Test performed: automatically	File name: default.emi

Comment: FCC testsetup No. 2	
modulation 15 %	
output power 1 W	
with TAG	
Supply voltage: 230 V AC original power supply power supply grounded	

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

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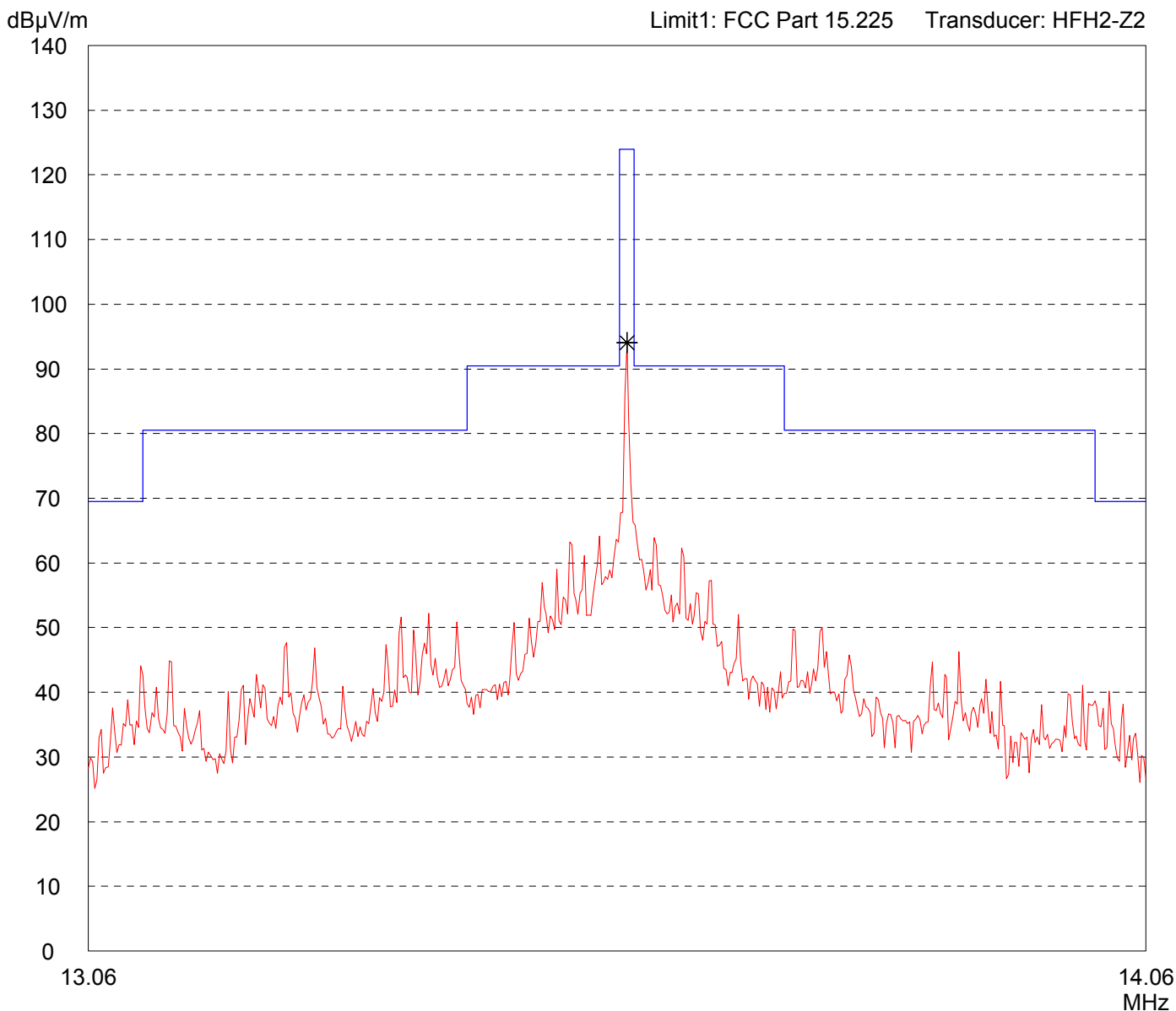
Radiated Emission Test 13.06 MHz - 14.06 MHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: Moby D SLG D11	
Serial no.: SN 100733616.10	
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 1 W i-code datacoding fast 1 / 1 with TAG Supply Voltage: 24 V DC external Measurement according : Section 15.225

Detector: Peak

List of values: Selected by hand



Result: Limit kept

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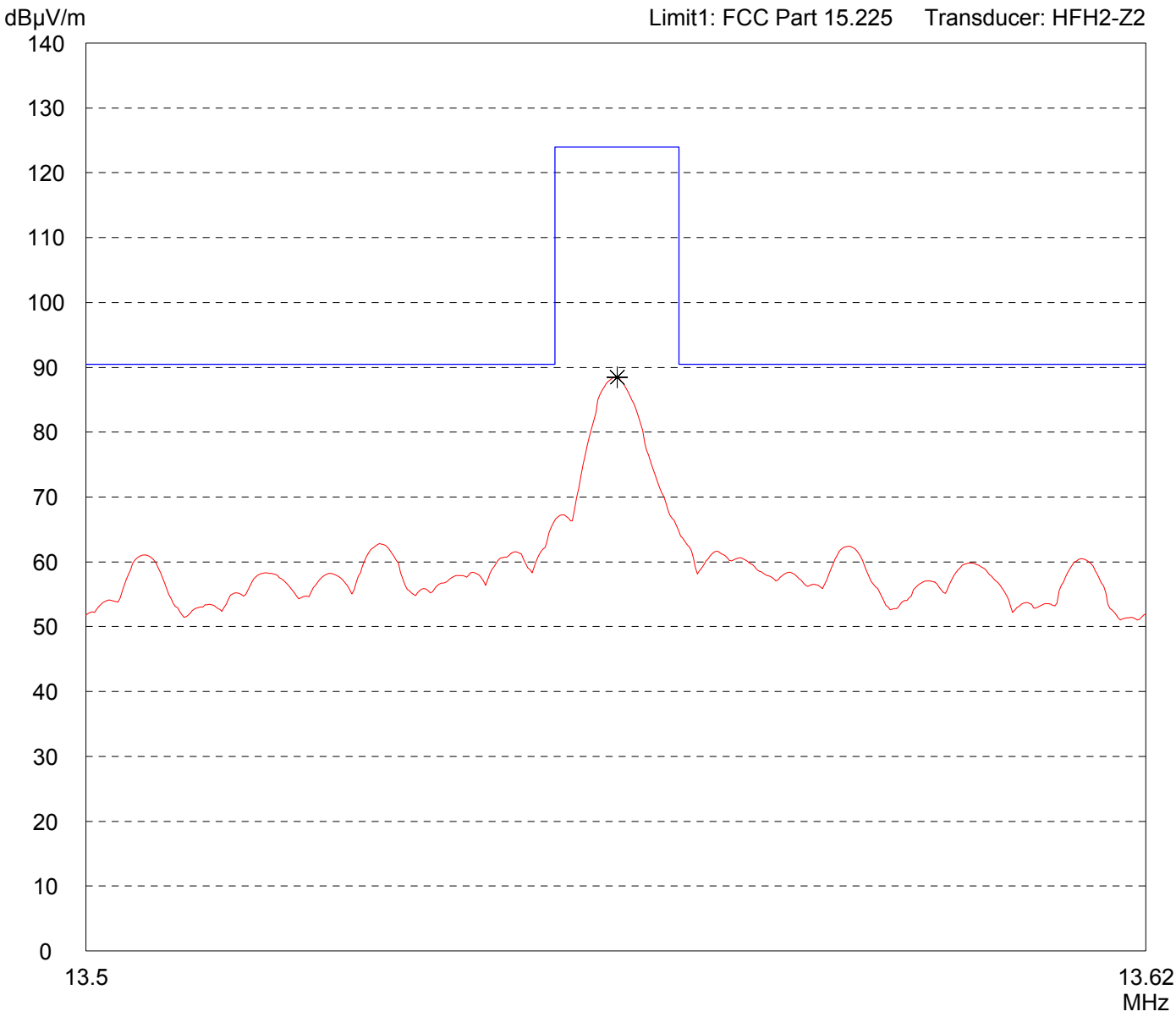
Radiated Emission Test 13.5 MHz - 13.62 MHz acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: Moby D SLG D11	
Serial no.: SN 100733616.10	
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 1 W i-code datacoding fast 1 / 1 with TAG Supply Voltage: 24 V DC external Measurement according : Section 15.225

Detector: Peak

List of values: Selected by hand



Result: Limit kept

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