

TEST REPORT
of the accredited test laboratory

TÜV Nr.:M/FG-06/135

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Kalibrierstelle

Notified Body 0408

Applicant: Adcon Telemetry GmbH
Inkustr. 24
A-3400 Klosterneuburg

Tested Product: Telemetry transceiver

FCC-ID: SHXA724

Manufacturer: Adcon Telemetry GmbH
A-3400 Klosterneuburg; Inkustr. 24

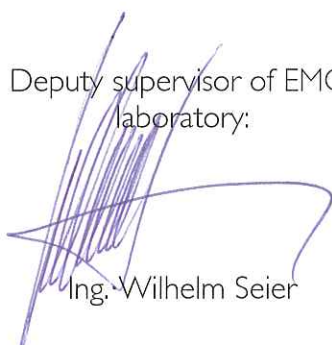
Output power / field strength: 10mW max. **power supply:** 6,2 VDC

Frequency range: 450 - 470 MHz **Channel separation:** 12,5 kHz

Standard: FCC: 47 CFR 90; RSS-119

TUV Austria
Test laboratory for EMC

Deputy supervisor of EMC-
laboratory:


Ing. Wilhelm Seier



18. 12. 2006

Copy Nbr.: 01

checked by:


Ing. Christian Diewald

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The results of this test report only refer to the provided equipment.

LIST OF MEASUREMENTS

The complete list of measurements called for in 47 CFR 90 and (RSS-119) is given below.

SUBCLAUSE	PARAMETER TO BE MEASURED	PAGE
	Intentional Radiators	
	Test object data	3
2.1046(a) (6.2)	RF Power Output	4
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TEST OBJECT DATA

General EUT Description

This telemetry equipment will be used to collect data and write it into memory and send it out on the 70cm band. This telemetry equipment will be situated in environment where normally no persons are situated and will work without user interaction.

2.1033 (c) Technical description

2.1033 (4) Type of emission: 8K50F1D – channel spacing 12,5 kHz

2.1033 (5) Frequency range: 450 – 470 MHz

2.1033 (6) Power range and Controls: There are NO user power controls, the output power is fixed to 10mW.

2.1033 (7) Maximum output power rating: 10 mW into whip antenna

2.1033 (8) DC Voltage and Current: 6,2 V nominal 10V maximum
maximum current consumption: 0,12A

Ambient temperature: 23°C

Relative humidity: 51%

Power Output

§ 2.1046(a)
§ 6.2

ERP Measurement

Test conditions		Transmitter power (mW)		
		450 MHz	460 MHz	470 MHz
T_{nom} (23)°C	V_{nom} (6,2)V	9,51	9,10	8,56
Maximum deviation from output power under normal test conditions (dB)		-0,22	-0,41	-0,68
Measurement uncertainty		$\pm 0,75$ dB		

LIMIT

SUBCLAUSE 2.1046(a) (6.2)

Under normal test conditions	± 1 dB
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Test Equipment used: NT-207

Ambient temperature: 23°C

Relative humidity: 51%

Emissions Mask

§ 90.217 (b)

§ 6.7 (ii)

LIMIT

90.217 (b) and 6.7 (ii):

Except as noted herein, transmitters used at stations licensed below 800 MHz on any frequency listed in subparts B and C of this part or licensed on a business category channel above 800 MHz which have an output power not exceeding 120 milliwatts are exempt from the technical requirements set out in this subpart, but must instead comply with the following:

...

(b) For equipment designed to operate with a 12.5 kHz channel bandwidth, the sum of the bandwidth occupied by the emitted signal plus the bandwidth required for frequency stability shall be adjusted so that any emission appearing on a frequency 25 kHz or more removed from the assigned frequency is attenuated at least 30 dB below the unmodulated carrier.

Ambient temperature: 23°C

Relative humidity: 51%

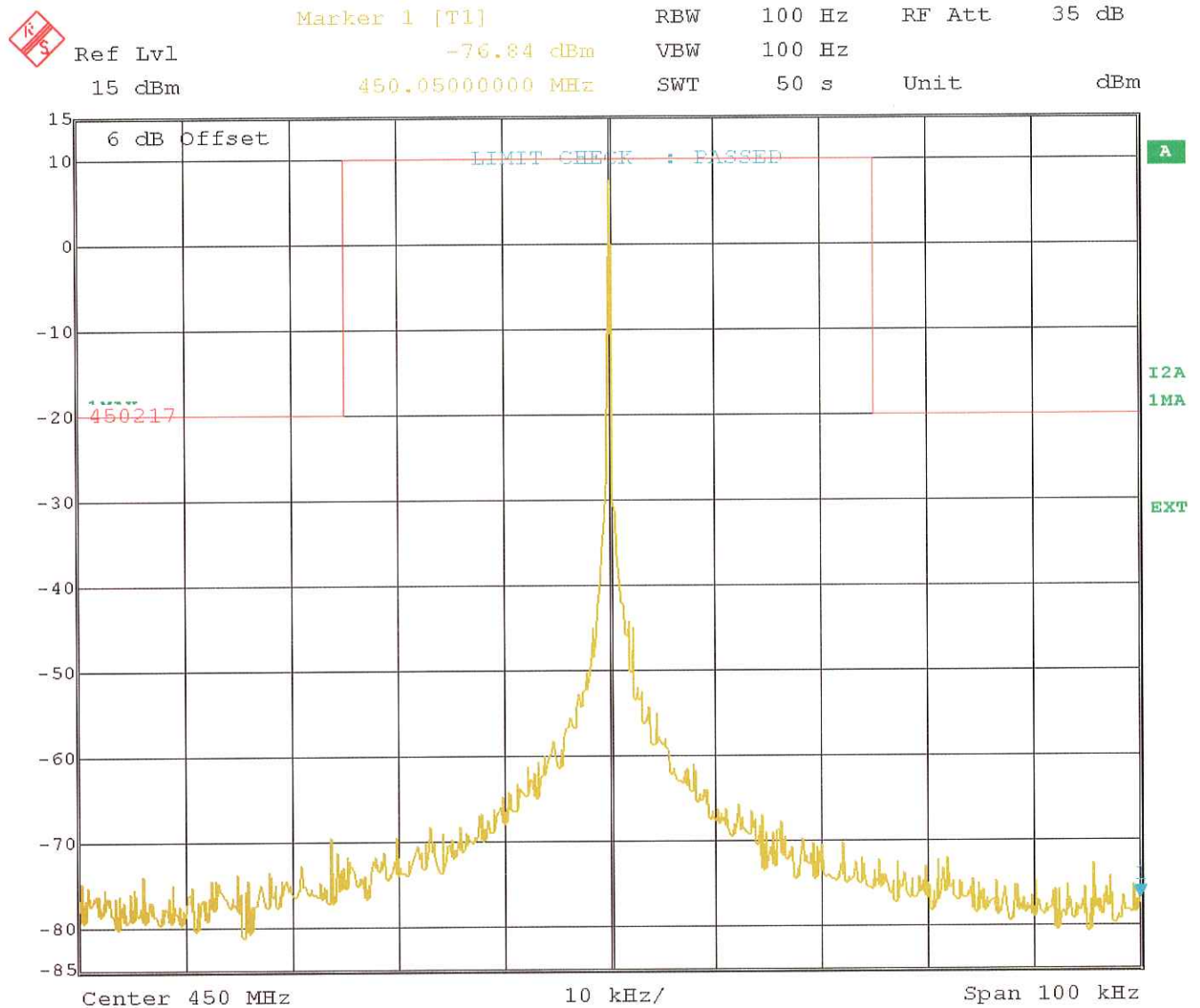
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 450 MHz

Modulation: unmodulated carrier



Date: 10.MAY.2006 11:15:12

Test Equipment used: NT-207

Ambient temperature: 23°C

Relative humidity: 51%

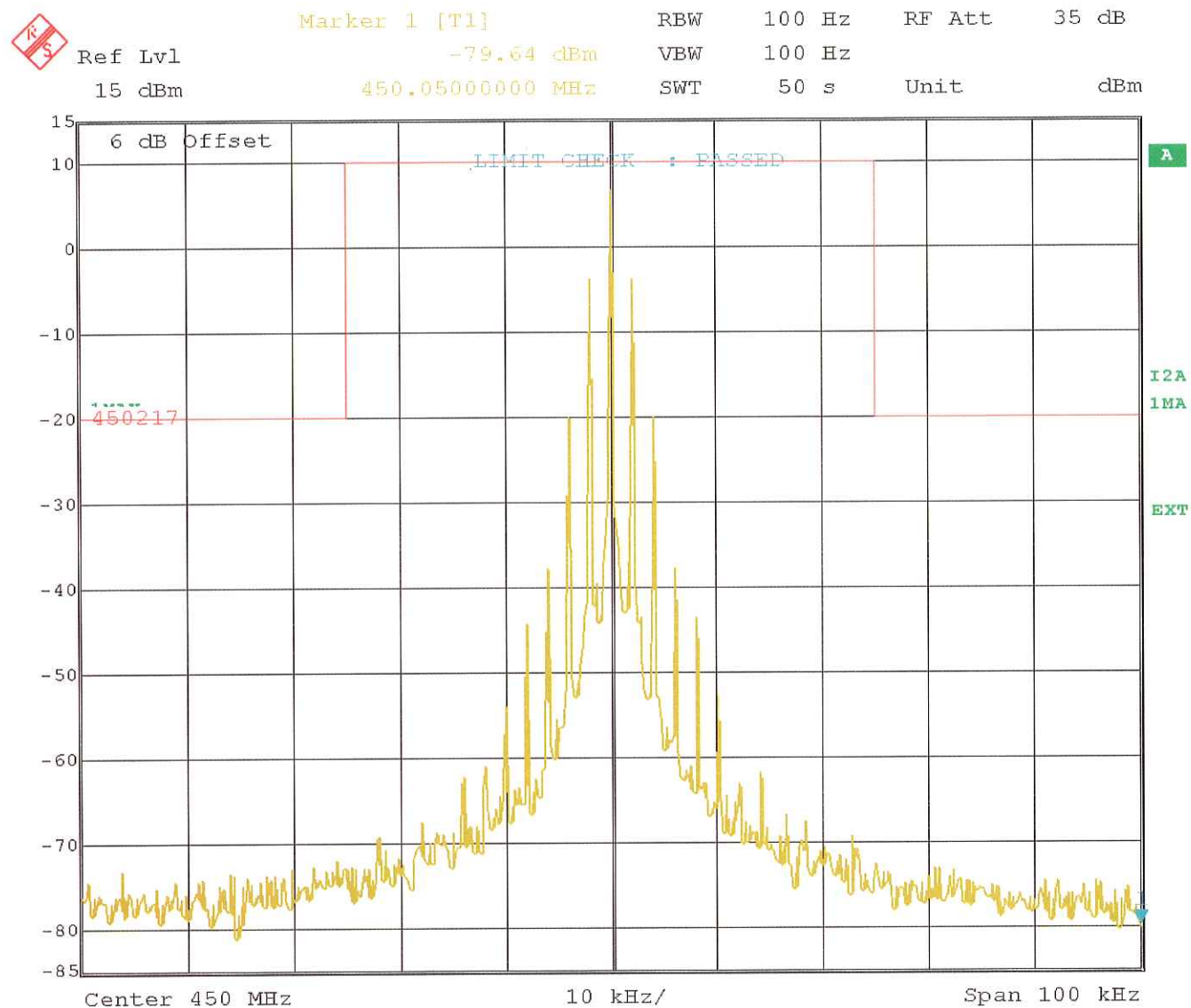
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 450 MHz

Modulation: modulated carrier symbol 0 (2 kHz)



Date: 10.MAY.2006 11:16:14

Test Equipment used: NT-207

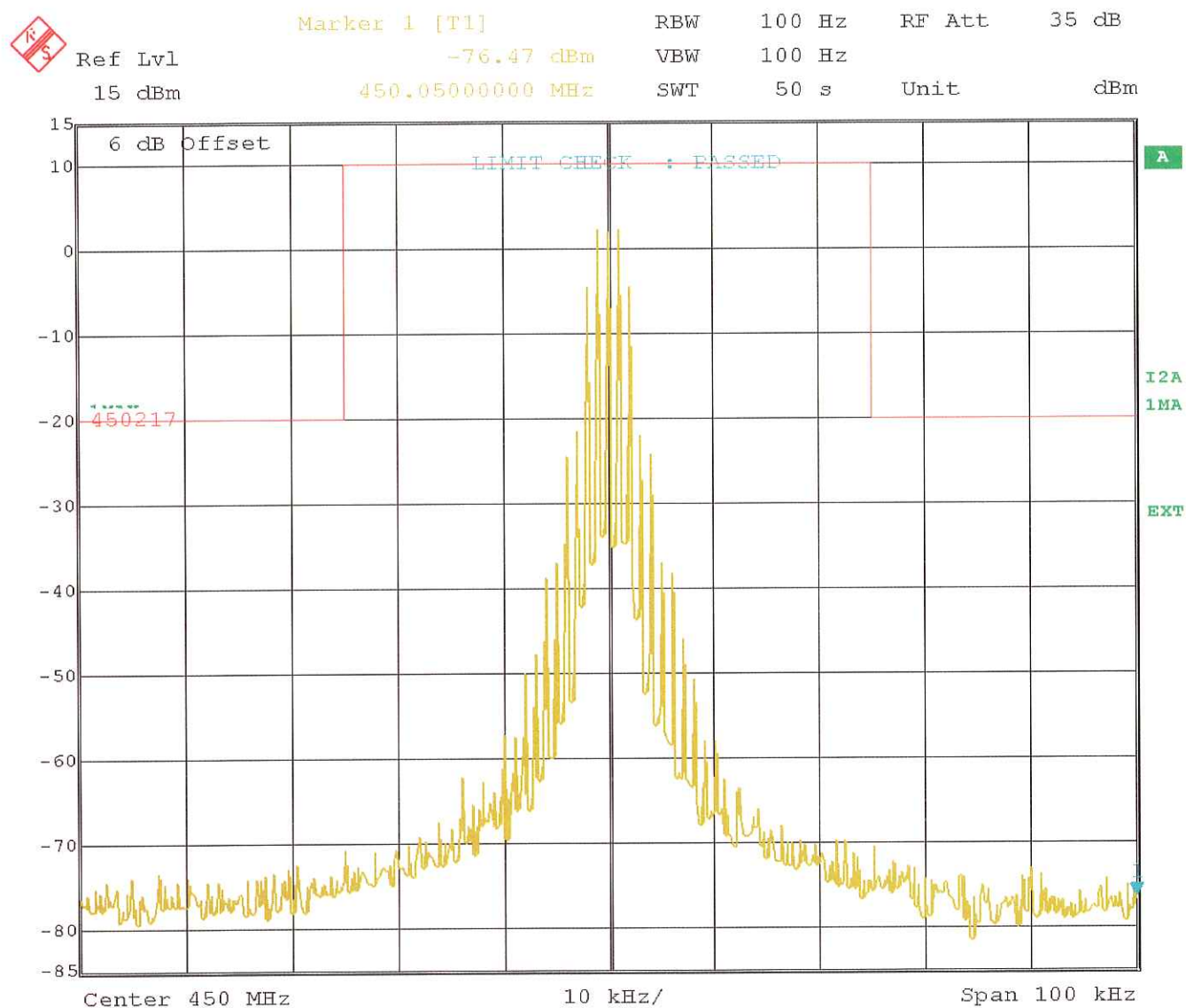
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 450 MHz

Modulation: modulated carrier symbol 1 (1 kHz)



Date: 10.MAY.2006 11:17:23

Test Equipment used: NT-207

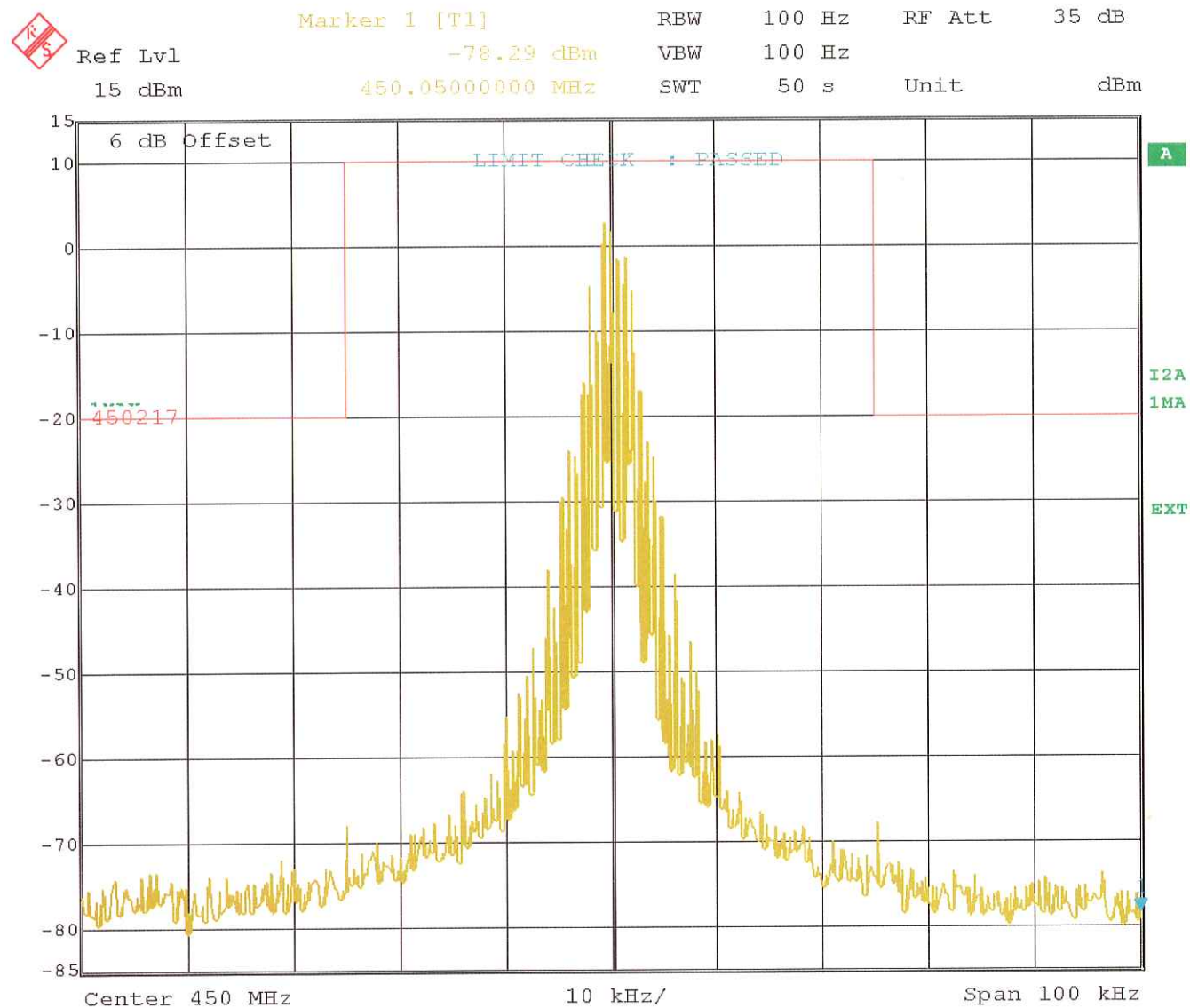
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 450 MHz

Modulation: modulated carrier symbol 0/1 at 4000 bps



Date: 10.MAY.2006 11:18:26

Test Equipment used: NT-207

Ambient temperature: 23°C

Relative humidity: 51%

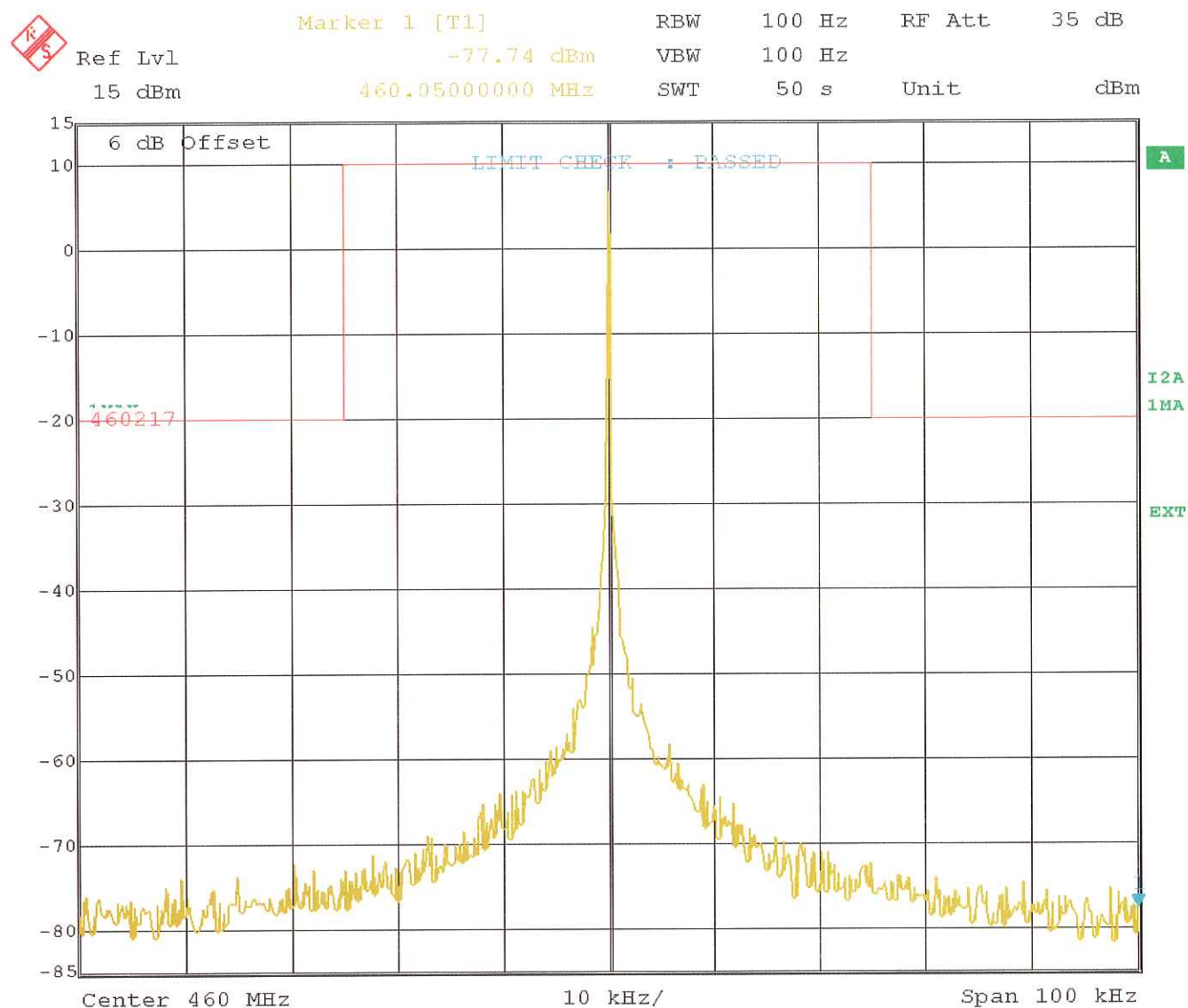
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 460 MHz

Modulation: unmodulated carrier



Date: 10.MAY.2006 11:10:13

Test Equipment used: NT-207

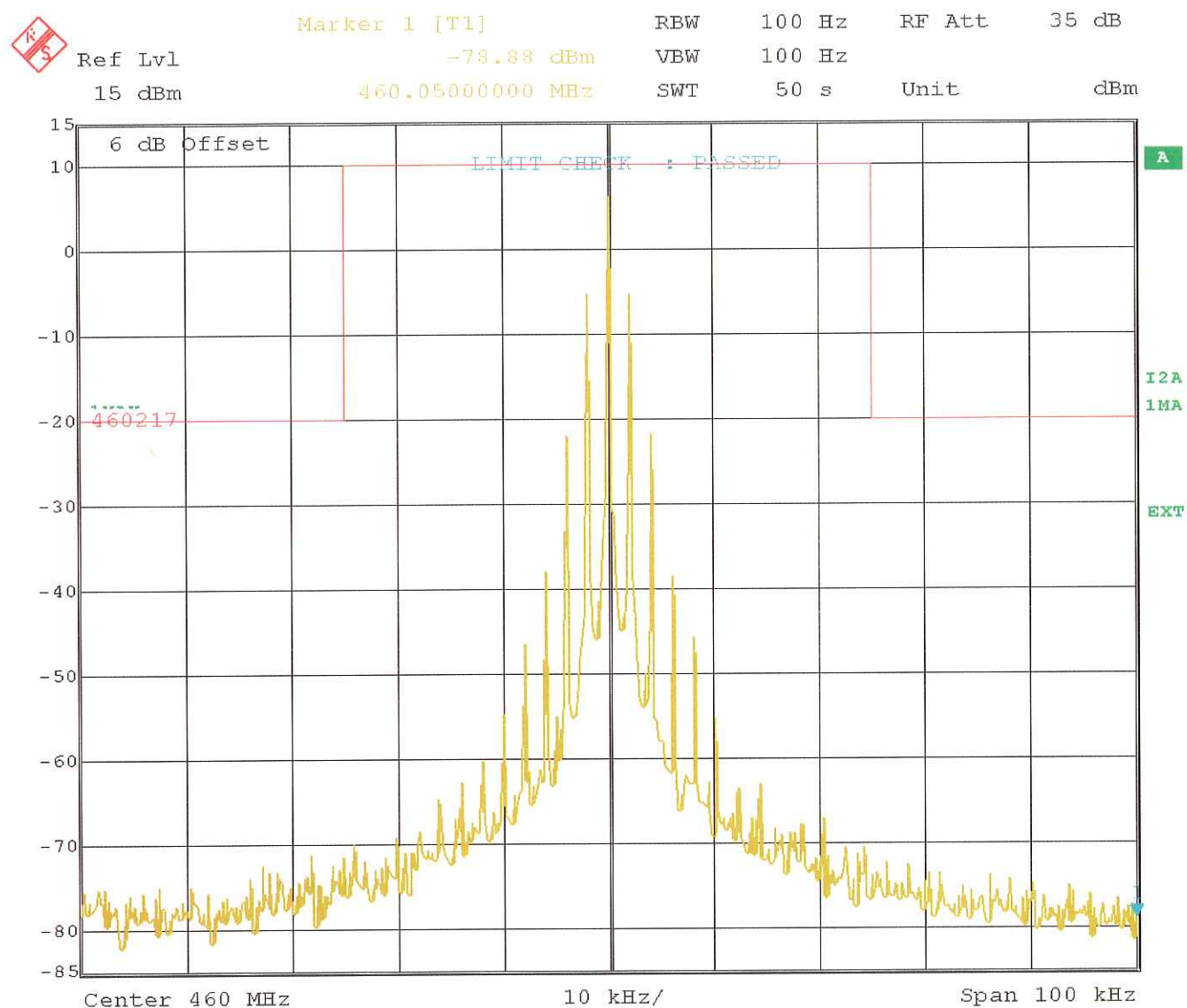
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 460 MHz

Modulation: modulated carrier symbol 0 (2 kHz)



Date: 10.MAY.2006 11:11:28

Test Equipment used: NT-207

Ambient temperature: 23°C

Relative humidity: 51%

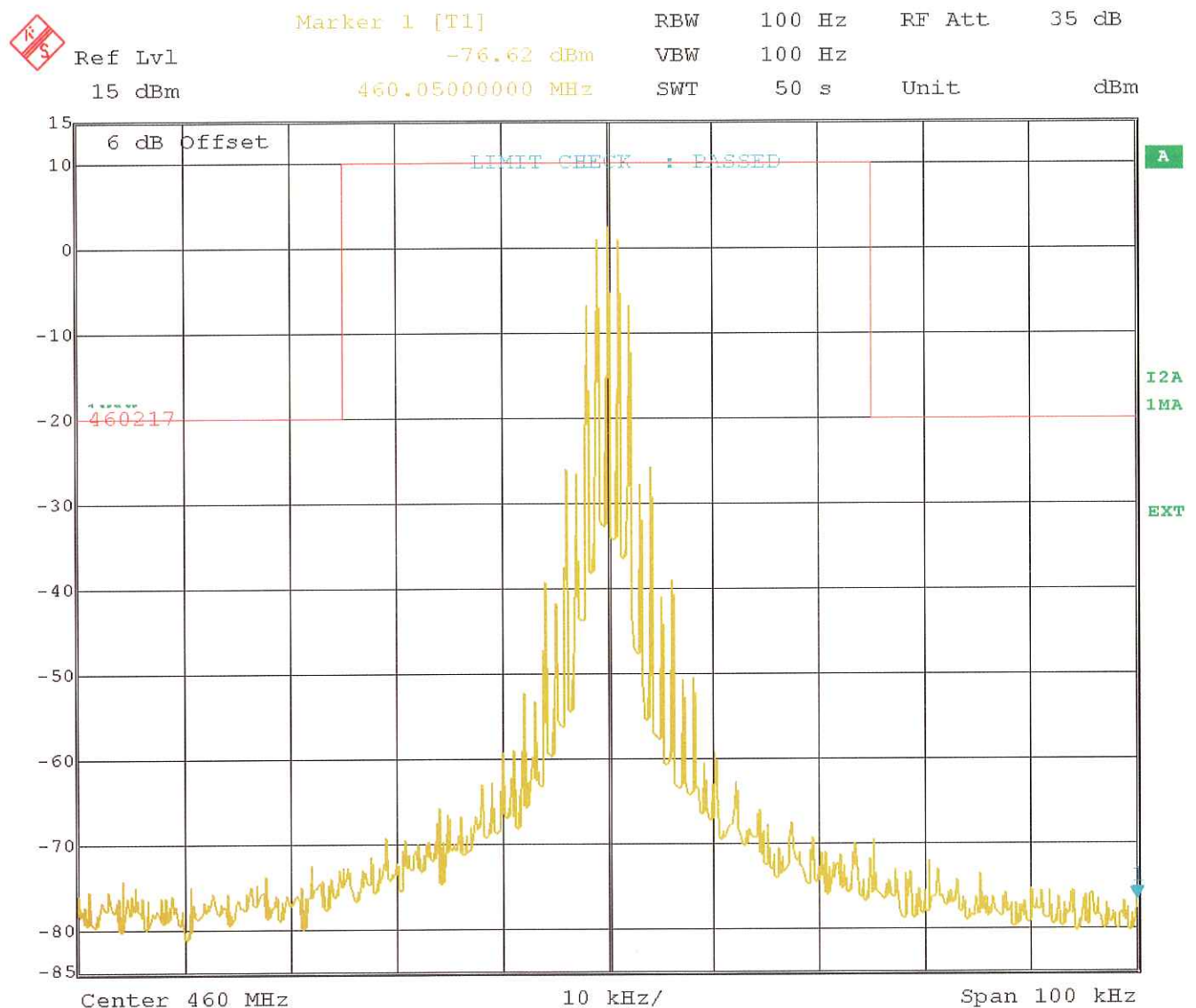
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 460 MHz

Modulation: modulated carrier symbol 1 (1 kHz)



Date: 10.MAY.2006 11:12:31

Test Equipment used: NT-207

Ambient temperature: 23°C

Relative humidity: 51%

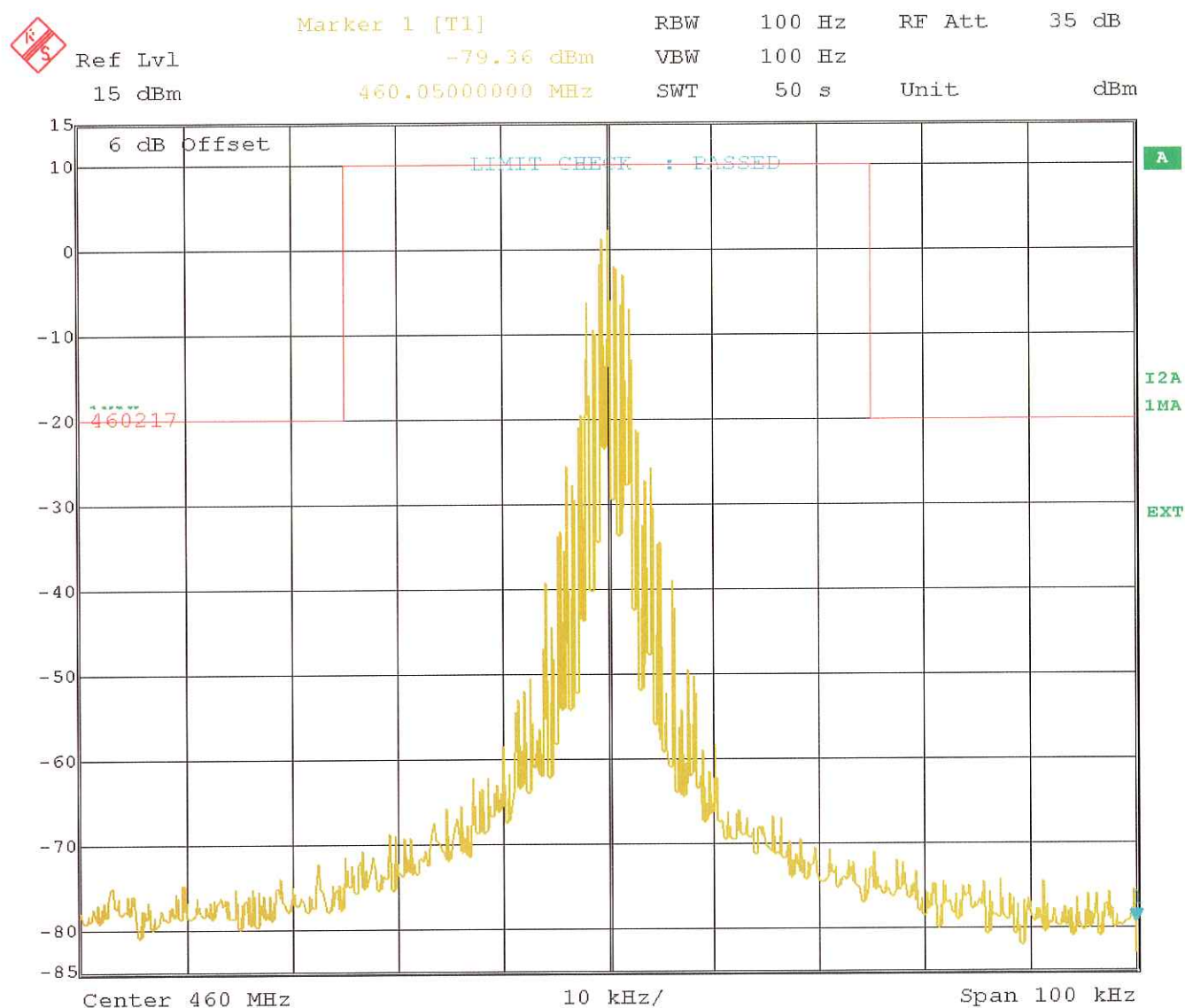
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 460 MHz

Modulation: modulated carrier symbol 0/1 at 4000 bps



Date: 10.MAY.2006 11:13:31

Test Equipment used: NT-207

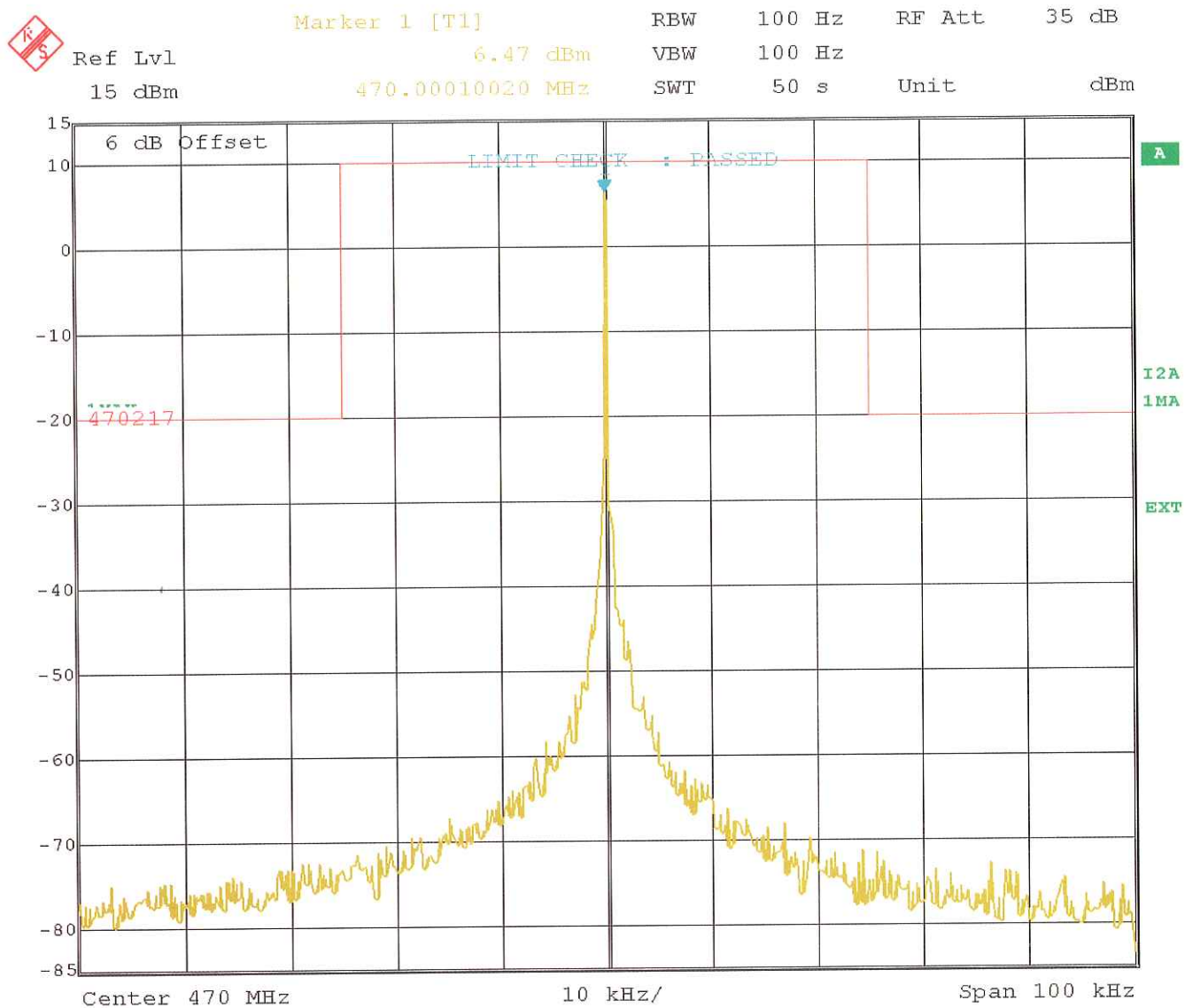
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 470 MHz

Modulation: unmodulated carrier



Date: 10.MAY.2006 11:05:14

Test Equipment used: NT-207

Test Report Reference:
M/FG-06/135

Ambient temperature: 23°C

Relative humidity: 51%

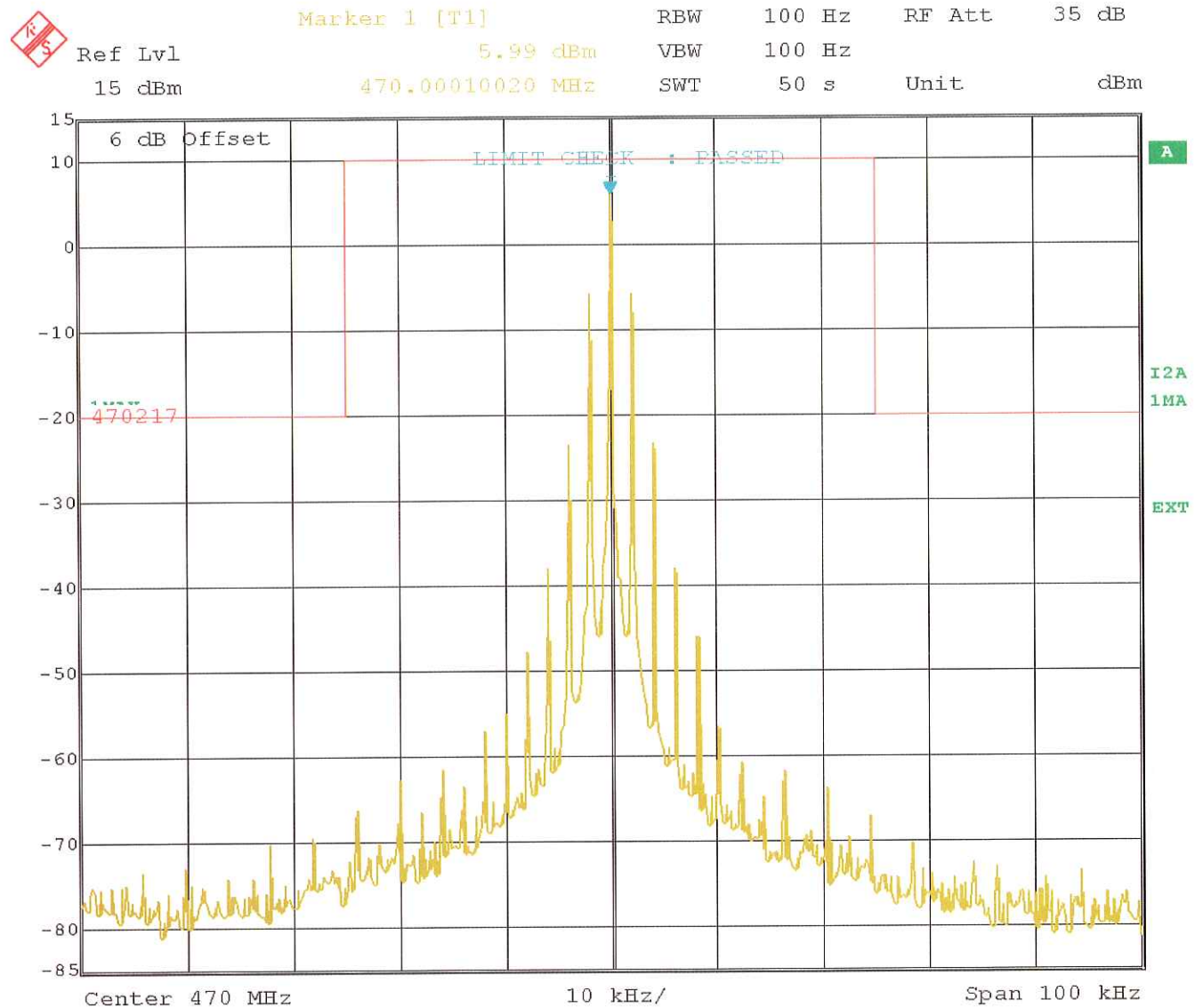
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 470 MHz

Modulation: modulated carrier symbol 0 (2 kHz)



Date: 10.MAY.2006 11:06:25

Test Equipment used: NT-207

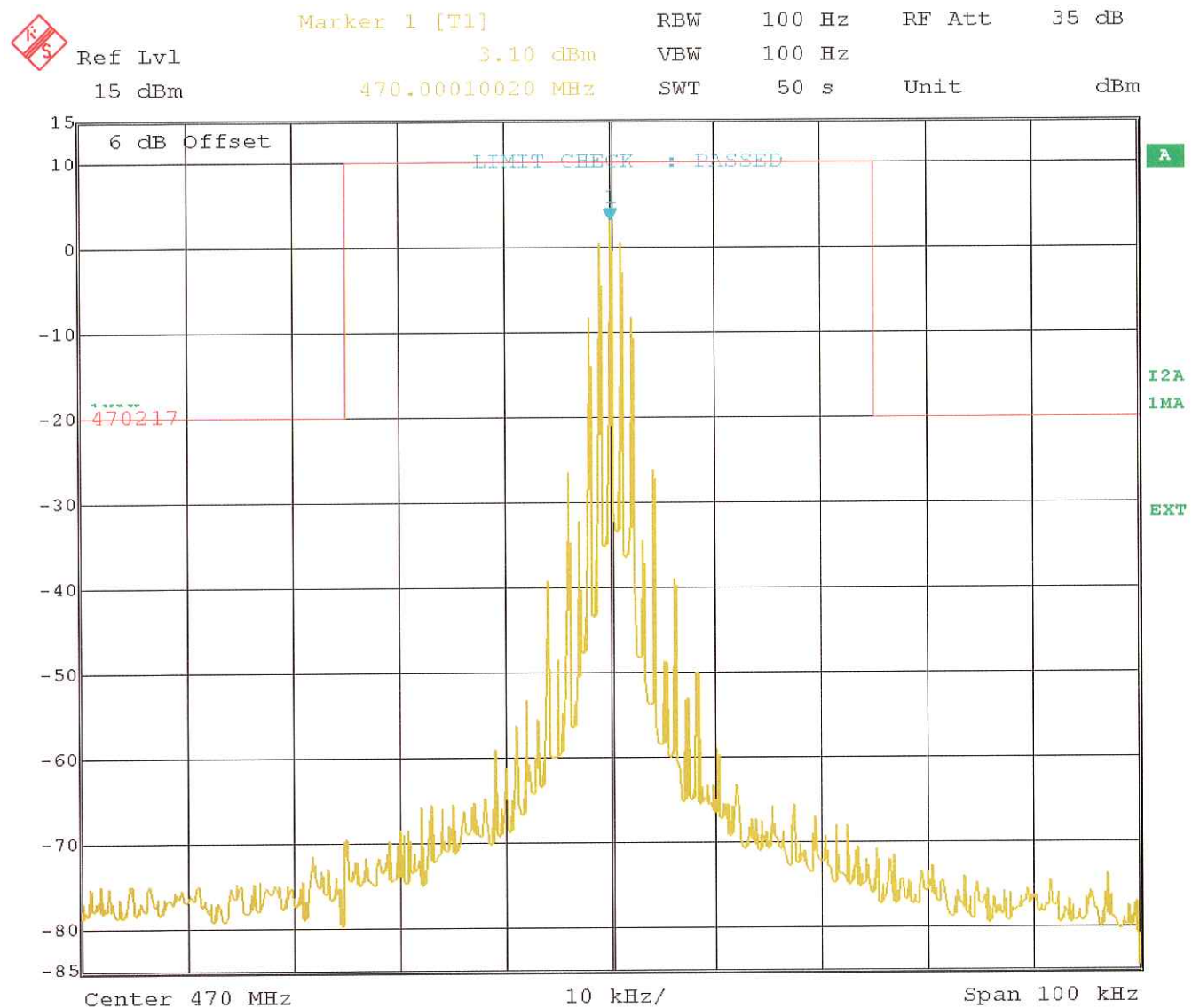
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 470 MHz

Modulation: modulated carrier symbol 1 (1 kHz)



Date: 10.MAY.2006 11:07:43

Test Equipment used: NT-207

Ambient temperature: 23°C

Relative humidity: 51%

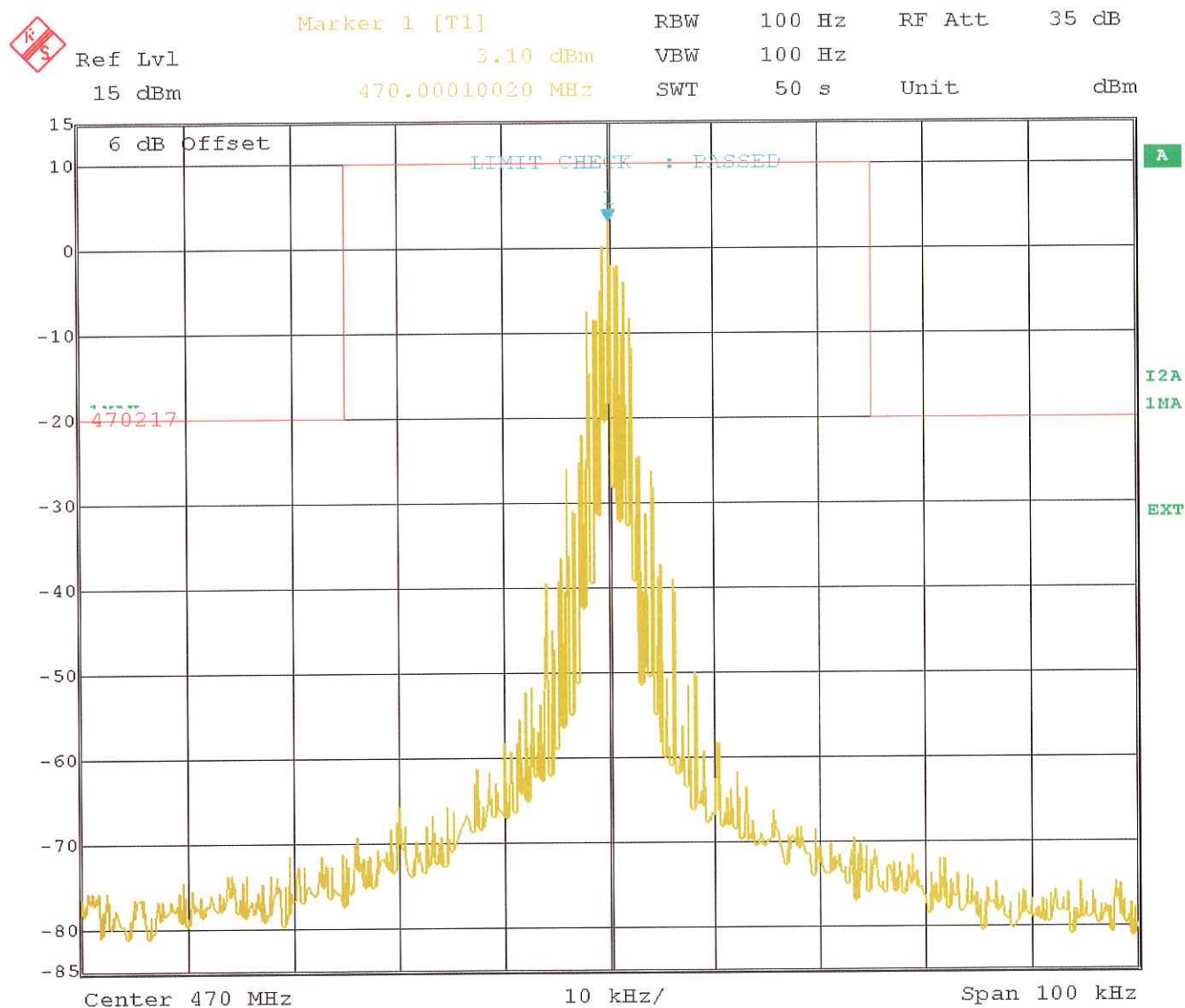
Emissions Mask

§ 90.217 (b)
§ 6.7 (ii)

Operating mode:

Frequency: 470 MHz

Modulation: modulated carrier symbol 0/1 at 4000 bps



Date: 10.MAY.2006 11:08:48

Test Equipment used: NT-207