

CETECOM ICT Services GmbH

Radio Satellite Communication

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RSC14

issue test report consist of 74 Pages

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Accredited Testing Laboratory

**DAR-Registration number:
TTI-P-G 166/98-10**

**Test report no.: 2-2280-A/00
FCC Part 15.247
3COM
Wireless Access Point WL-306**

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1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

1.2 Testing laboratory

CETECOM ICT Services GmbH

66117 Saarbrücken

Untertürkheimer Straße 6 - 10

Deutschland

Telefone: + 49 681 598 - 9100

Telefax : + 49 681 598 - 9075

E-mail : Harro.Ames@ict.cetecom.de

Internet : www.cetecom.de

Accredited testing laboratory

DAR-registration number : TTI-P-G 166/98-00

1.3 Details of applicant

Name : 3Com Corporation
Street : 5400 Bayfront Plaza
City : Santa Clara, Cailifornia , 95052-8145
Country : USA
Telephone : +1 408 326 5000
Telefax : +1 408 326 5854
Contact : Michael Green
Telephone : +1 408 326 2878

1.4 Application details

Date of receipt of application : 23.11.00
Date of receipt of test item : 23.11.00
Date of test : 23.11.00 – 08.12.00

1.5 Test item

Type of equipment : **Wireless LAN Access Point (WLAN)**
Type designation : **WL-306**
Manufacturer : applicant

Street :

City :

Country :

Serial number :

Additional informations: :

Frequency : 2400 – 2483.5 MHz

Type of modulation : 22M0P7D (DSSS)

Number of channels : 13

Antenna : integral antenna

Power supply : 48V DC powered by externac power supply (100-240V AC)

Output power : max. 20 mW

Type of equipment : Temperature range : -10°C - +55°C

1.6 Test standards: **FCC Part 15 §15.247**

2 Technical test

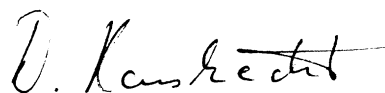
2.1 Summary of test results

The antenna gain measurement was performed by FOXCONN (Annex 1)
All measurement settings are according to FCC 15.35, 15.209 and the „Guidance on measurement for DSSS systems“.

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

Technical responsibility for area of testing :

12.12.00 RSC 8412 Hausknecht



Date	Section	Name	Signature
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Technical responsibility for area of testing :

12.12.00 RSC8414 Ames



Date	Section	Name	Signature
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2.2 Testreport

TEST REPORT

Test report no. : 2-2280-A/00

TEST REPORT REFERENCE

LIST OF MEASUREMENTS

Paragraph	PARAMETER TO BE MEASURED	PAGE
	Transmitter parameters	
§ 15.247 (a)(2)	Spectrum Bandwith of a DSSS System	7
§ 15.247 (b)(1)	Maximum peak output power	11
§ 15.247 (c)(1)	Emission limitations	16
§ 15.247 (d)	Power Spectral Density	37
§ 15.247 (e)	Processing Gain of DSSS System	41
§ 15.107	Conducted emissions	42
	Receiver parameters	
§ 15.209	Spurious radiations - Radiated	44
	Test equipment listing	51
	Photographs of the equipment	53
Annex 1	Measuring antenna gain	63

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

SPECTRUM BANDWIDTH OF DSSS-SYSTEM

SUBCLAUSE § 15.247 (a)(2)

TEST CONDITIONS		6 dB BANDWIDTH (kHz)		
Frequency (MHz)		2412	2442	2472
T _{nom} (20) °C	V _{nom} (230)V	10100	10300	10250
Measurement uncertainty		±3dB		

RBW = 100 KHz, Span >> RBW, here 25 MHz

LIMIT

SUBCLAUSE §15.247(a) (2)

The minimum 6dB bandwidth shall be at least 500 KHz

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

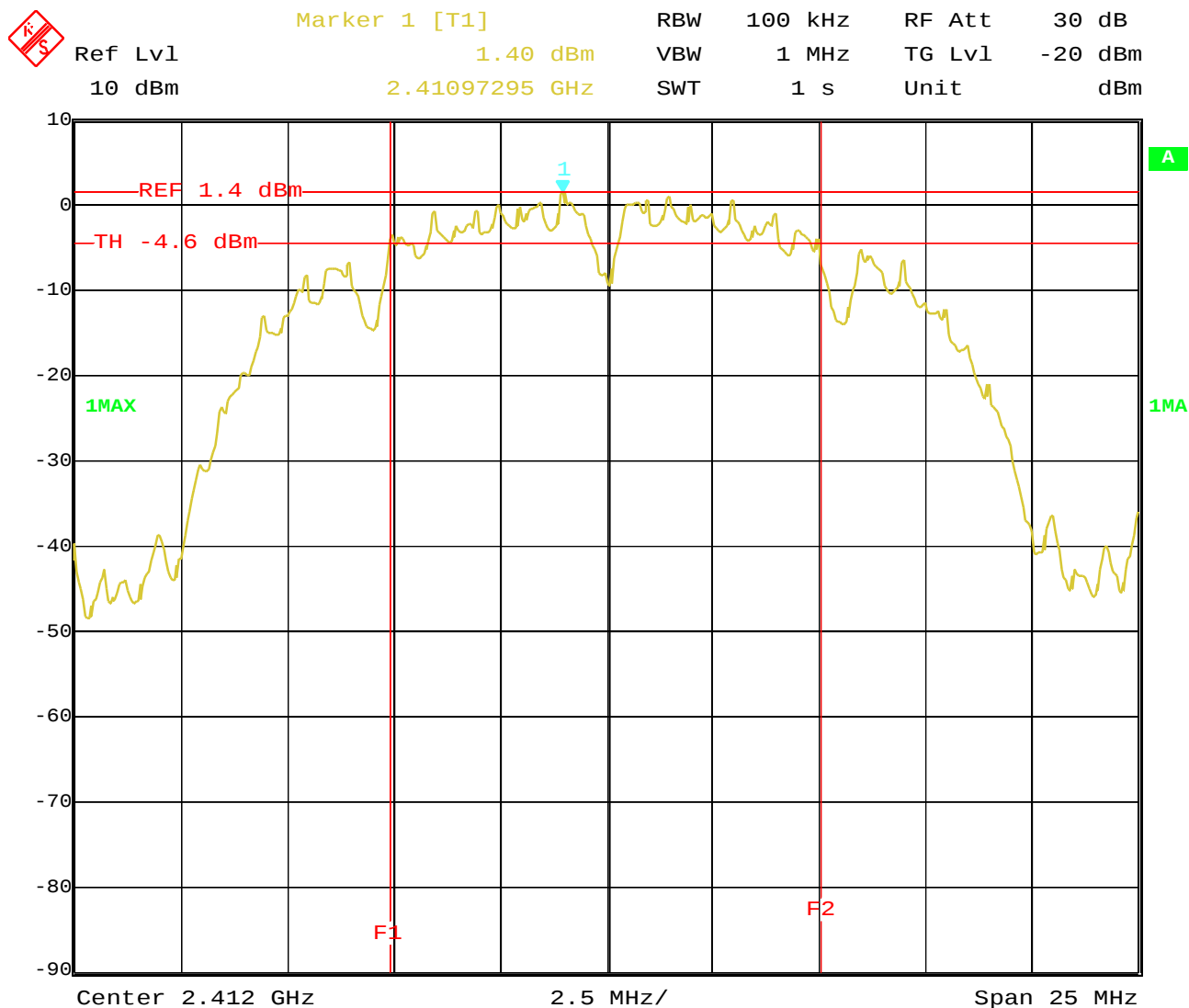
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

SPECTRUM BANDWIDTH OF DSSS-SYSTEM 2412 MHz

SUBCLAUSE § 15.247 (a)(2)



Date: 24.OCT.2000 10:44:10

RBW = 100 KHz, Span >> RBW, here 25 MHz

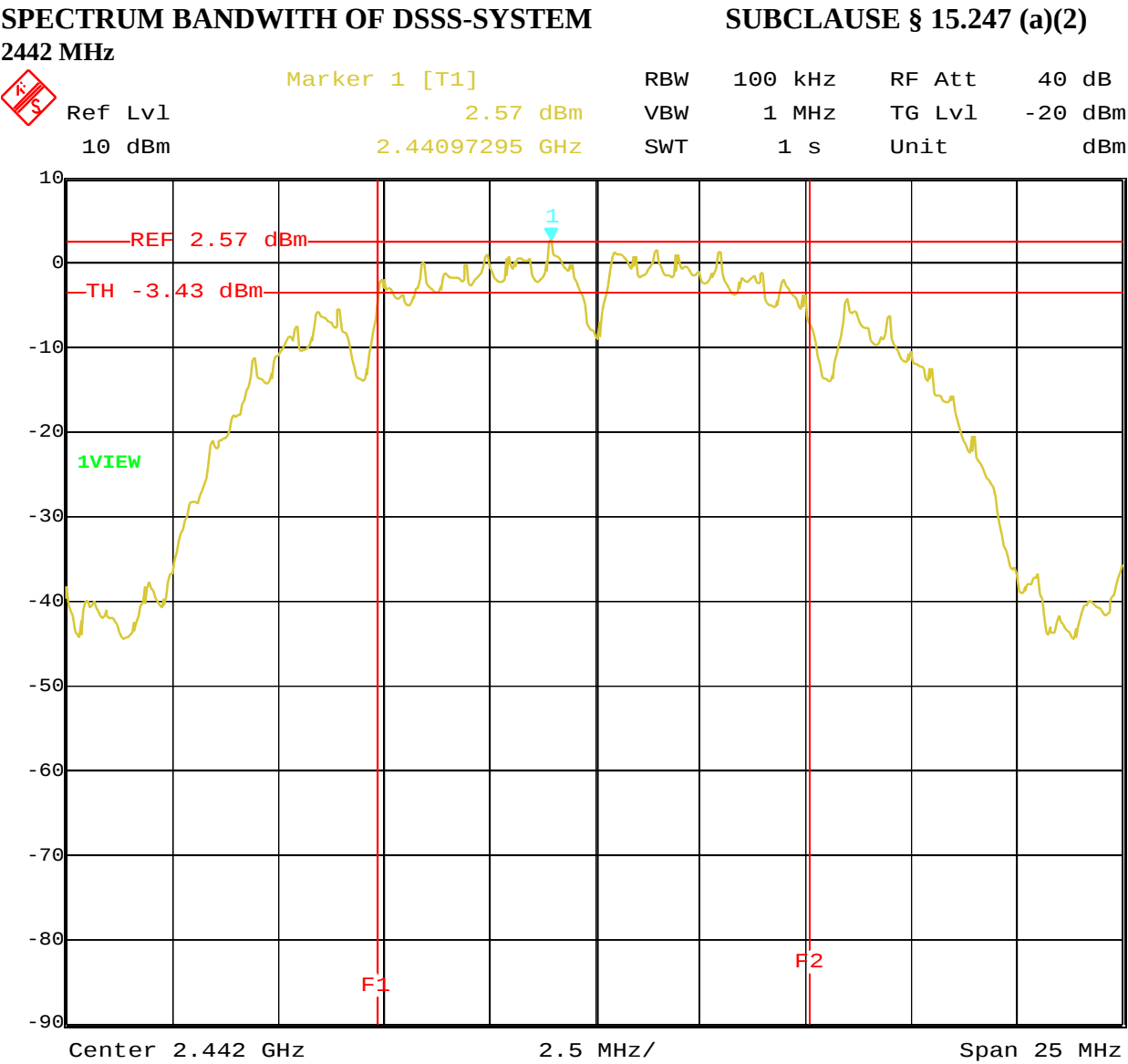
LIMIT

SUBCLAUSE §15.247(a) (2)

The minimum 6dB bandwidth shall be at least 500 KHz , here 10.10 MHz

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

Equipment under test : WL-306
Ambient temperature : 20 °C
Relative humidity : 51%



Date: 24.OCT.2000 10:50:02
RBW = 100 KHz, Span >> RBW, here 25 MHz

LIMIT **SUBCLAUSE §15.247(a) (2)**

The minimum 6dB bandwidth shall be at least 500 KHz , here 10.30 MHz

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

Equipment under test : WL-306

Ambient temperature : 20 °C

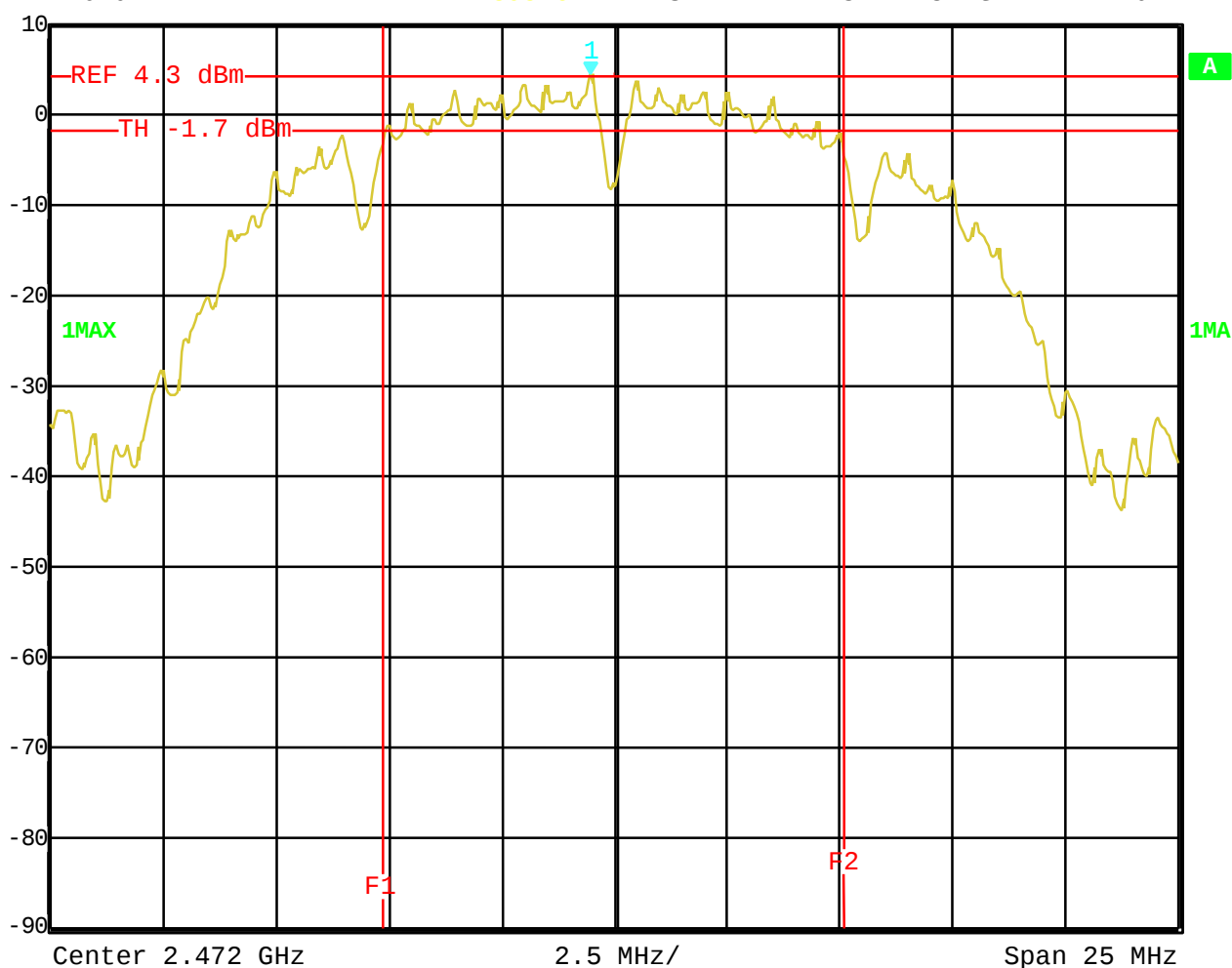
Relative humidity : 51%

SPECTRUM BANDWIDTH OF DSSS-SYSTEM

SUBCLAUSE § 15.247 (a)(2)

2472 MHz


 Ref Lvl 10 dBm
 Marker 1 [T1] 4.38 dBm
 RBW 100 kHz
 VBW 1 MHz
 RF Att 20 dB
 SWT 1 s
 Unit dBm



Date: 6.DEC.2000 14:10:15

RBW = 100 KHz, Span >> RBW, here 25 MHz

LIMIT

SUBCLAUSE §15.247(a) (2)

The minimum 6dB bandwidth shall be at least 500 KHz , here 10.25MHz

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

MAXIMUM PEAK OUTPUT POWER (CONDUCTED)

SUBCLAUSE § 15.247 (b) (1)

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2412	2442	2472
T _{nom} (20) °C	V _{nom} (230)V	Peak: 11.1 dB AV: 7.72 dBm	Peak 12.4 dBm AV: 7.96 dBm	Peak 11.5 dBm AV: 8.23 dBm
Maximum deviation from output power under extreme test conditions (dBc)		not performed	not performed	not performed
Measurement uncertainty		±3dB		

Settings: RBW/VBW 10 MHz

LIMIT

SUBCLAUSE § 15.247 (b) (1)

Frequency range	RF power output
2400-2483.5 MHz / 5725 – 5850 MHz	30 dBm

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
18-31,64

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

**MAXIMUM PEAK OUTPUT POWER
(CONDUCTED)
2412 MHz**

SUBCLAUSE § 15.247 (b) (1)



Ref Lvl
20 dBm

Marker 1 [T1]

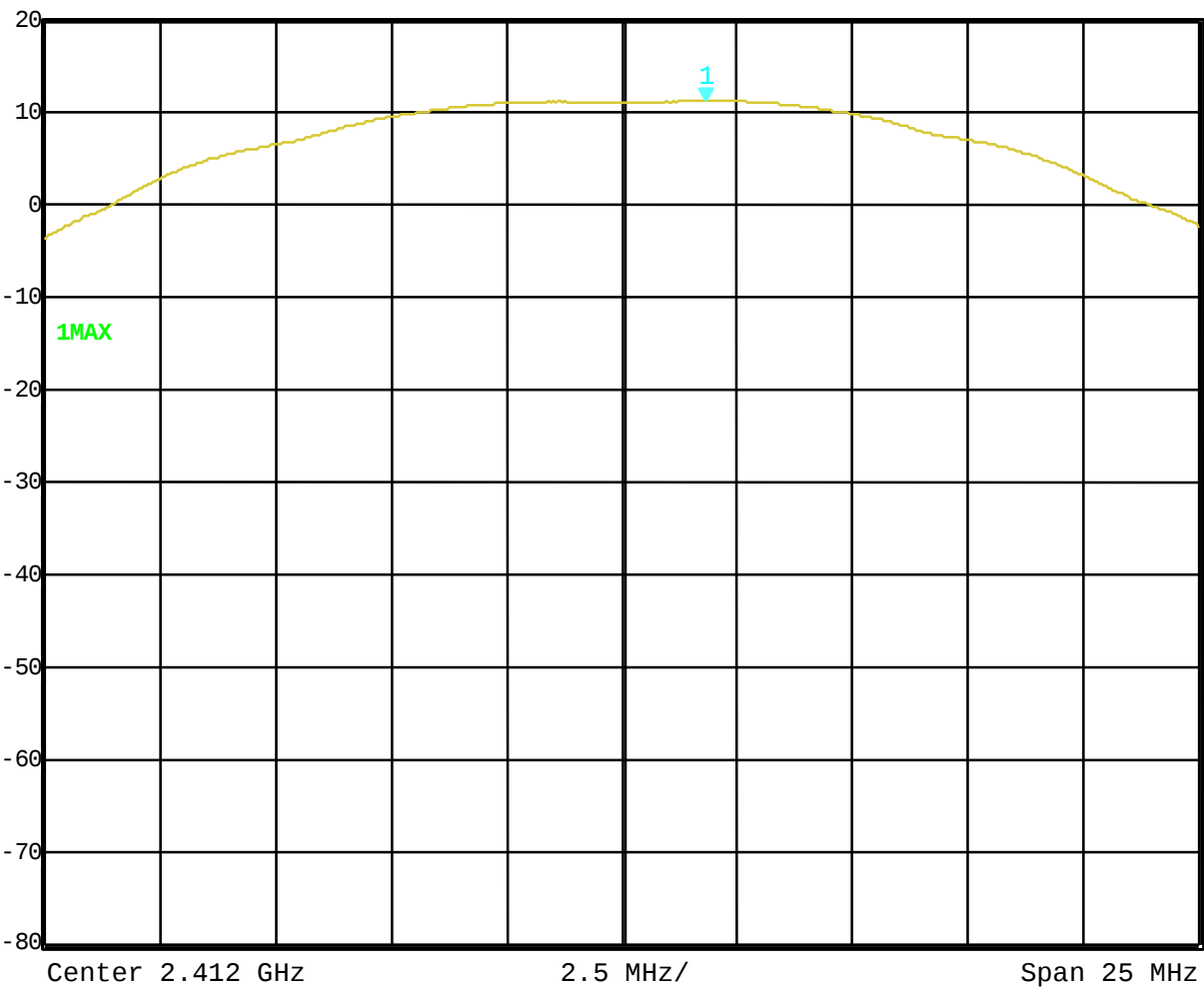
11.10 dBm
2.41382866 GHz

RBW
VBW
SWT

10 MHz
10 MHz
1 s

RF Att
TG Lvl
Unit

50 dB
-20 dBm
dBm



Date: 24.OCT.2000 10:59:55

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
18-31,64

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

**MAXIMUM PEAK OUTPUT POWER
(CONDUCTED)
2442 MHz**

SUBCLAUSE § 15.247 (b) (1)



Ref Lvl
20 dBm

Marker 1 [T1]

12.38 dBm
2.44377856 GHz

RBW

10 MHz

RF Att

50 dB

VBW

10 MHz

TG Lvl

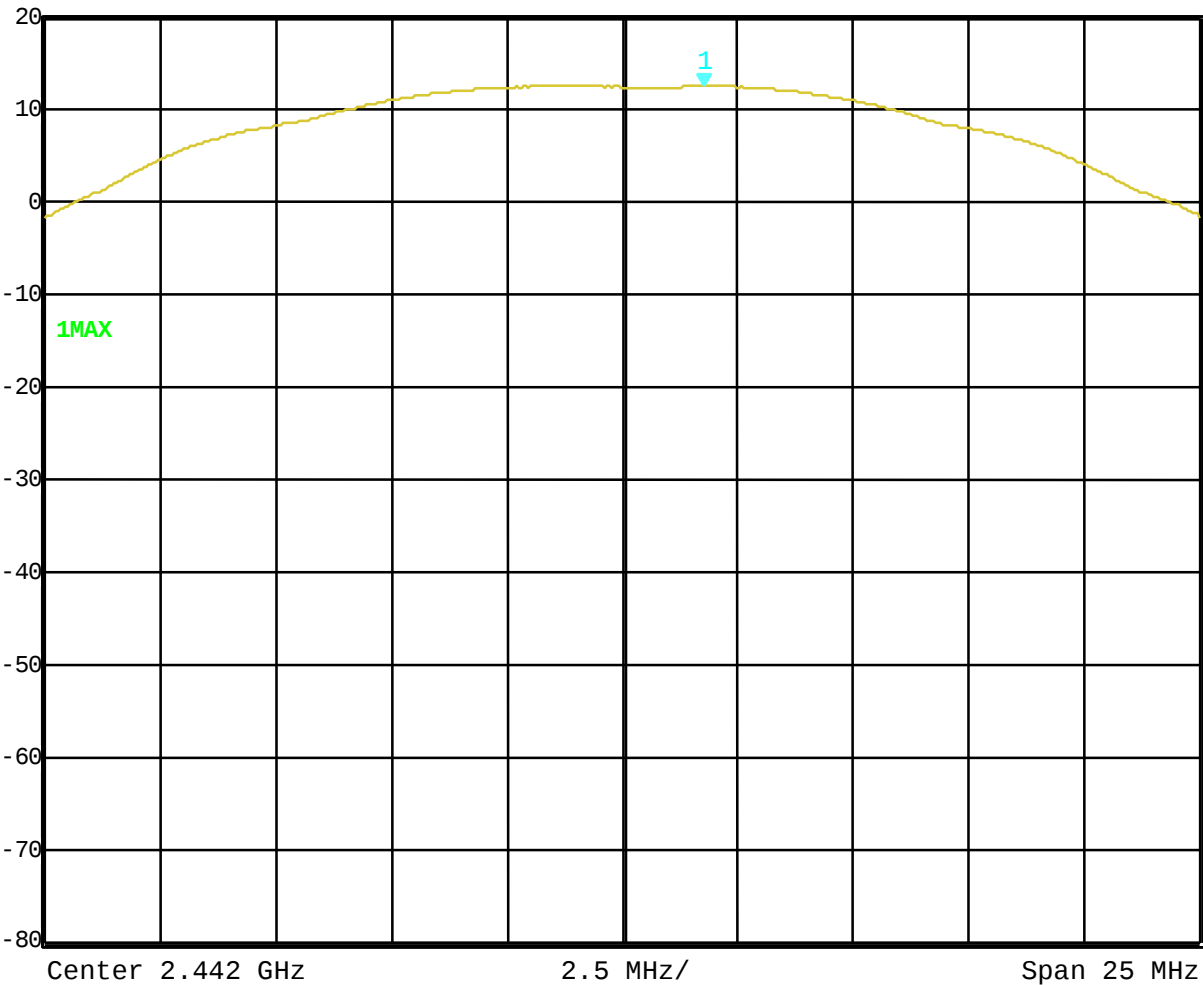
-20 dBm

SWT

1 s

Unit

dBm



Date: 24.OCT.2000 10:59:13

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
18-31,64

CETECOM ICT Services GmbH

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Equipment under test : WL-306

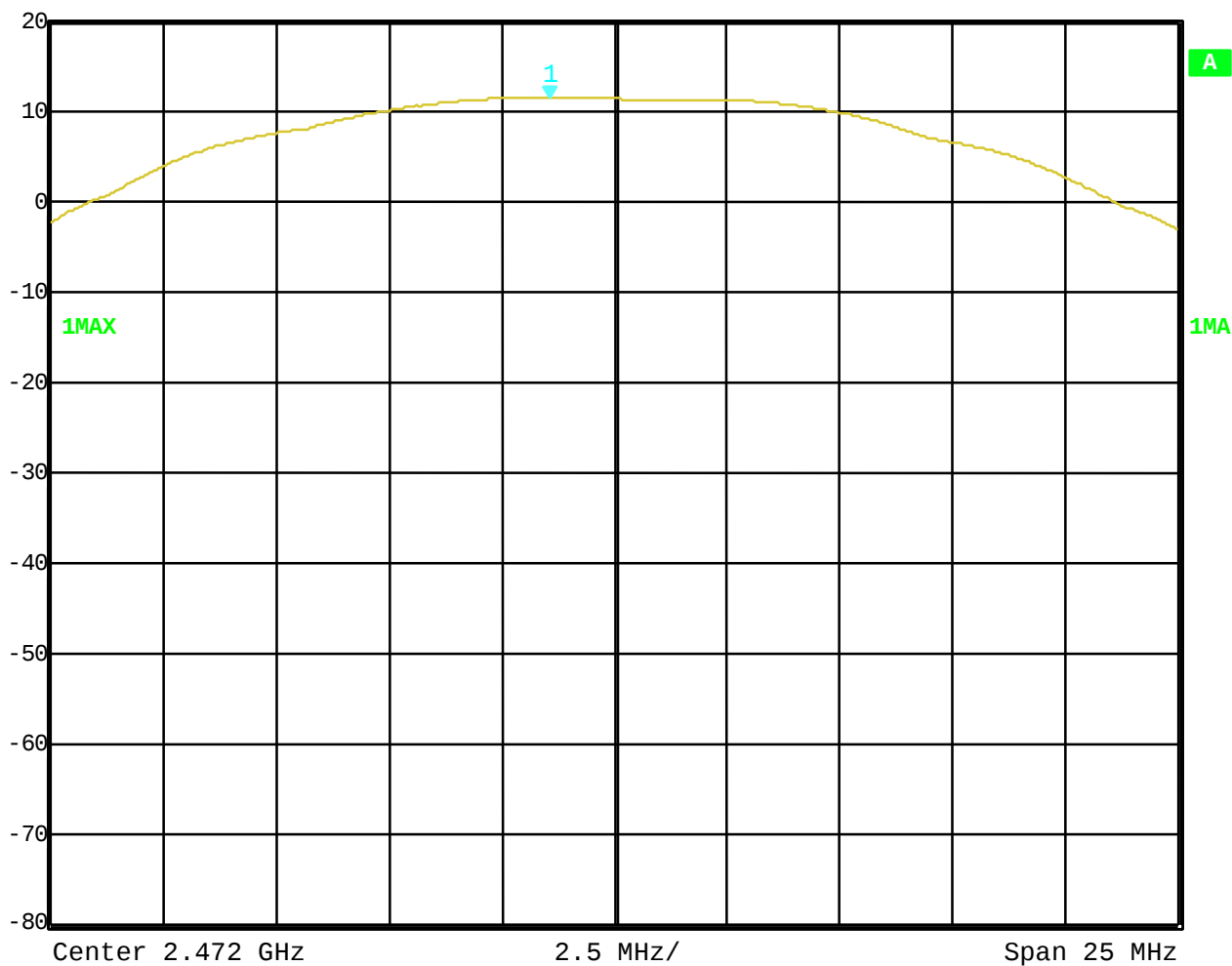
Ambient temperature : 20 °C

Relative humidity : 51%

**MAXIMUM PEAK OUTPUT POWER
(CONDUCTED)
2472 MHz**

SUBCLAUSE § 15.247 (b) (1)

 Ref Lvl 20 dBm
Marker 1 [T1] 11.44 dBm
2.47057214 GHz
RBW 10 MHz
VBW 10 MHz
SWT 1 s
RF Att 50 dB
TG Lvl -20 dBm
Unit dBm



Date: 24.OCT.2000 11:00:41

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
18-31,64

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

MAXIMUM PEAK OUTPUT POWER (RADIATED)

SUBCLAUSE § 15.247 (b) (1)

The maximum output was measured in vertikal polarisation.
Emissions in horizontal polarisation were up to 13 dB lower.

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (W)		
Frequency (MHz)		2412	2442	2472
T _{nom} (20) °C	V _{nom} (230)V	Peak 7.6 dBm AV: 5.3dBm	Peak 9.9 dBm AV: 6.0dBm	Peak 7.7 dBm AV: 5.0 dBm
Measurement uncertainty		±3dB		

Settings: RBW/VBW 10 MHz

LIMIT

SUBCLAUSE § 15.247 (b) (1)

Frequency range	RF power output
2400-2483.5 MHz / 5725 – 5850 MHz	1.0 Watt

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

EMISSION LIMITATIONS (Transmitter)

SUBCLAUSE § 15.247 (c) (1)

conducted (radiated emissions in restricted bands see next table)

2412 MHz

SPURIOUS LIMITATIONS					
f (MHz)		amplitude of emission (dBm)	limit max. allowed emmission		results
2412	cond.	2.97	30.0 dBm		Operating frequency
2039.6	cond.	Peak:-50.5 AV: -54.0	-20 dBc		complies
4601.1	cond.	Peak:-57.0 AV: -60.8	-20 dBc	restr. band	complies
7236.0	cond.	Peak:-56.4 AV: -59.1	-20 dBc		complies
8174.2	cond.	Peak:-58.2 AV: -62.1	-20 dBc	restr. band	complies
Measurement uncertainty		± 3dB			

The output power of the fundamental was measured with 100 kHz RBW for this for this part only.

The conducted output is calculated from a measurement in dBµV by -107 dB.

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

EMISSION LIMITATIONS (Transmitter)

SUBCLAUSE § 15.247 (c) (2)

radiated (Antenna vertikal polarisation, horiz. emissions were up to 13 dB lower)

2412 MHz

SPURIOUS LIMITATIONS					
f (MHz)		amplitude of emission (dBµV/m)	limit max. allowed emmission		results
30.05	rad.	QP:34.6	40.0 dBµV/m		complies
250.02	rad.	QP:33.5	46.0 dBµV/m	restr. band	complies
352.05	rad.	QP:36.8	46.0 dBµV/m		complies
500.0	rad.	QP:37.8	46.0 dBµV/m		complies
2037.98	rad.	Peak:53.5 AV: 49.8	54.0 dBµV/m		complies
2412.0	rad.	Peak:105.1 AV:102.8		operating frequency	complies
4075.8	rad.	Peak:40.4 AV: 37.4	54.0 dBµV/m	restr. band	complies
no	radiated	spurs	above	4075.8 MHz	
Measurement uncertainty		± 3dB			

Measurement were performed up to 1 GHz with a CISPR quasi peak adapter and 100/120 kHz BW.
Measurements above 1 GHz were performed with RBW/VBW 1 MHz in Peak and Average.

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

CETECOM ICT Services GmbH

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Issue Date:08.12.2000

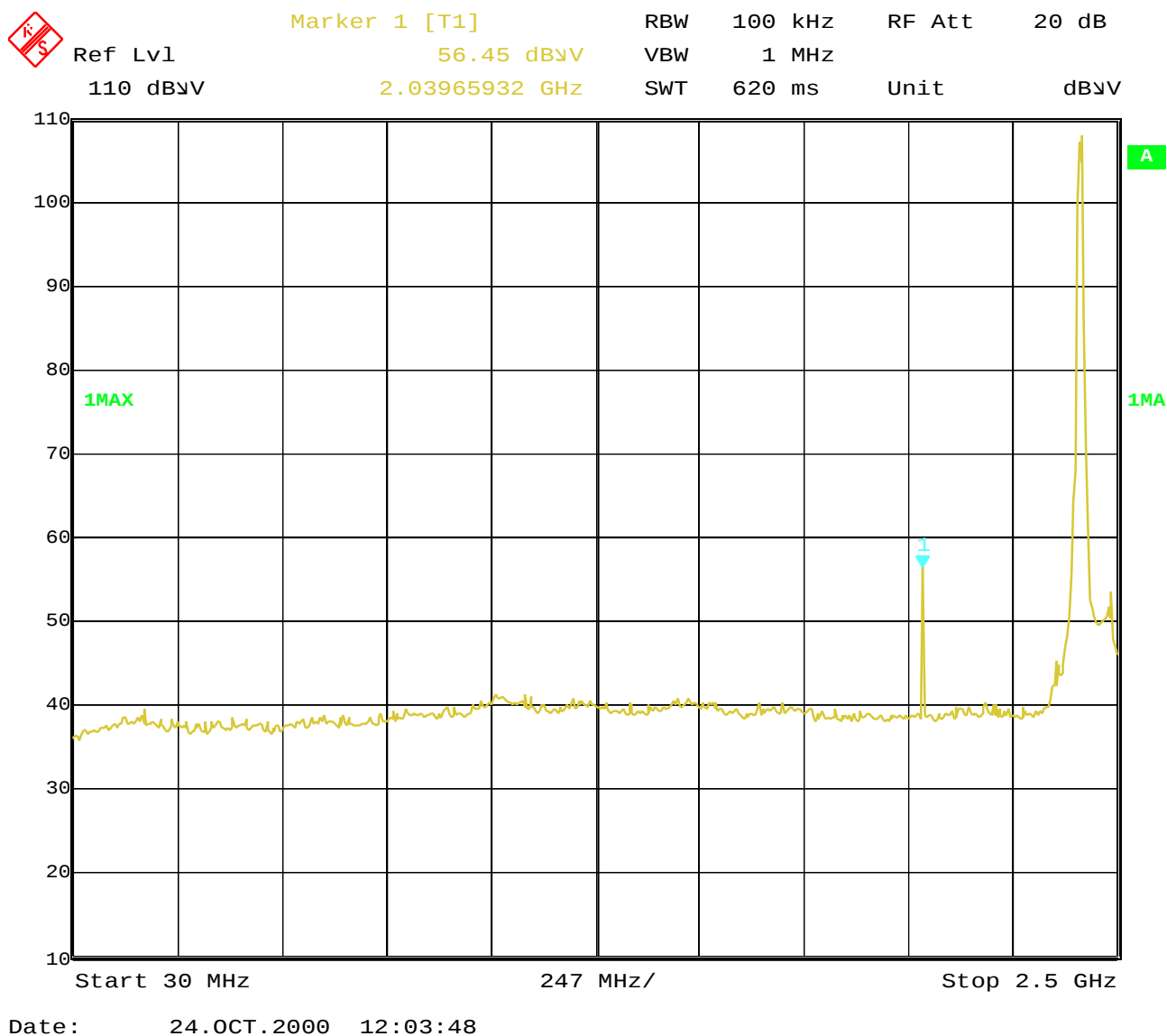
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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

2412 MHz conducted up to 2500 MHz



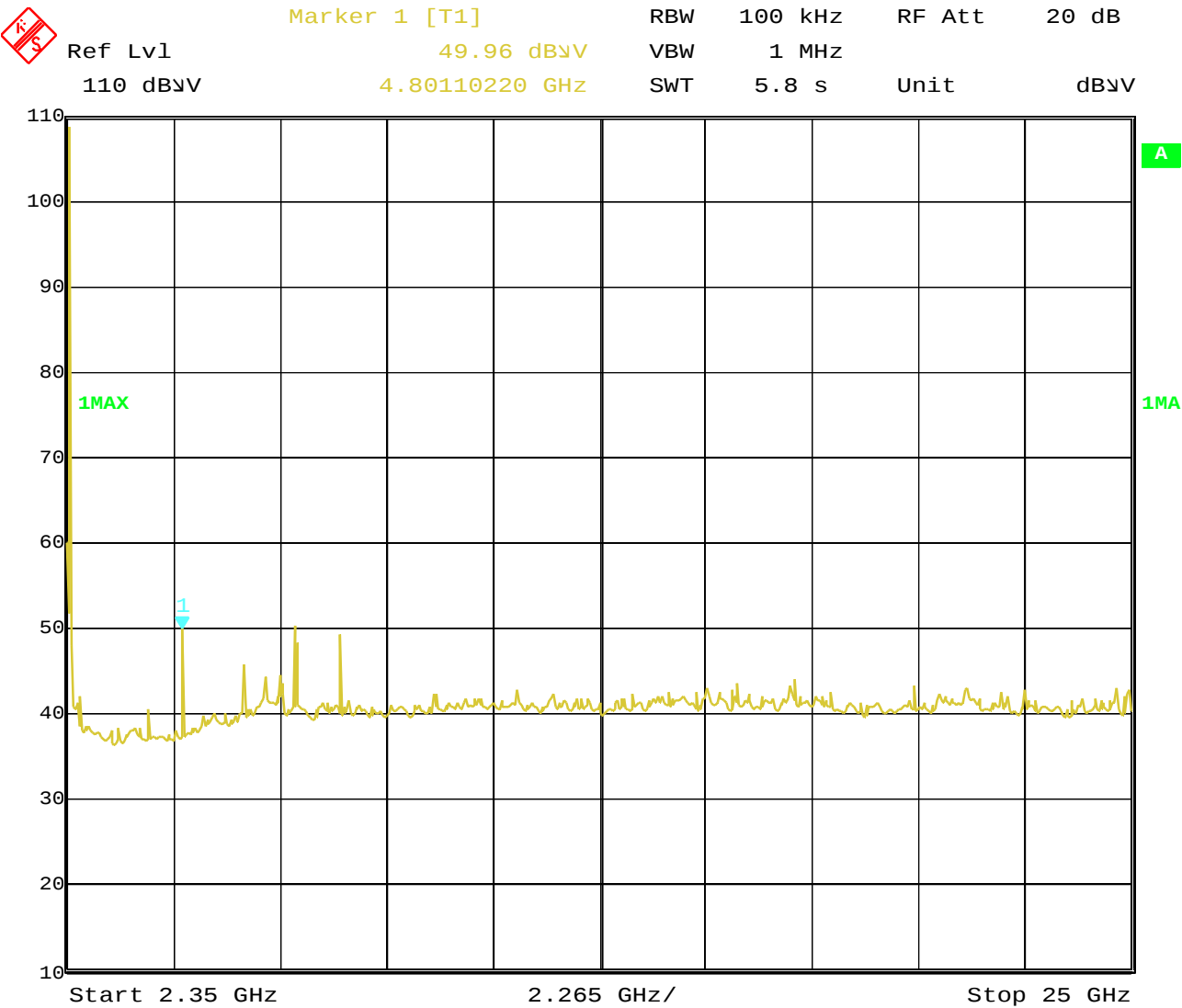
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

Equipment under test : WL-306
Ambient temperature : 20 °C
Relative humidity : 51%

2412 MHz conducted up to 25 GHz



Date: 24.OCT.2000 12:04:56

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
18-31,64

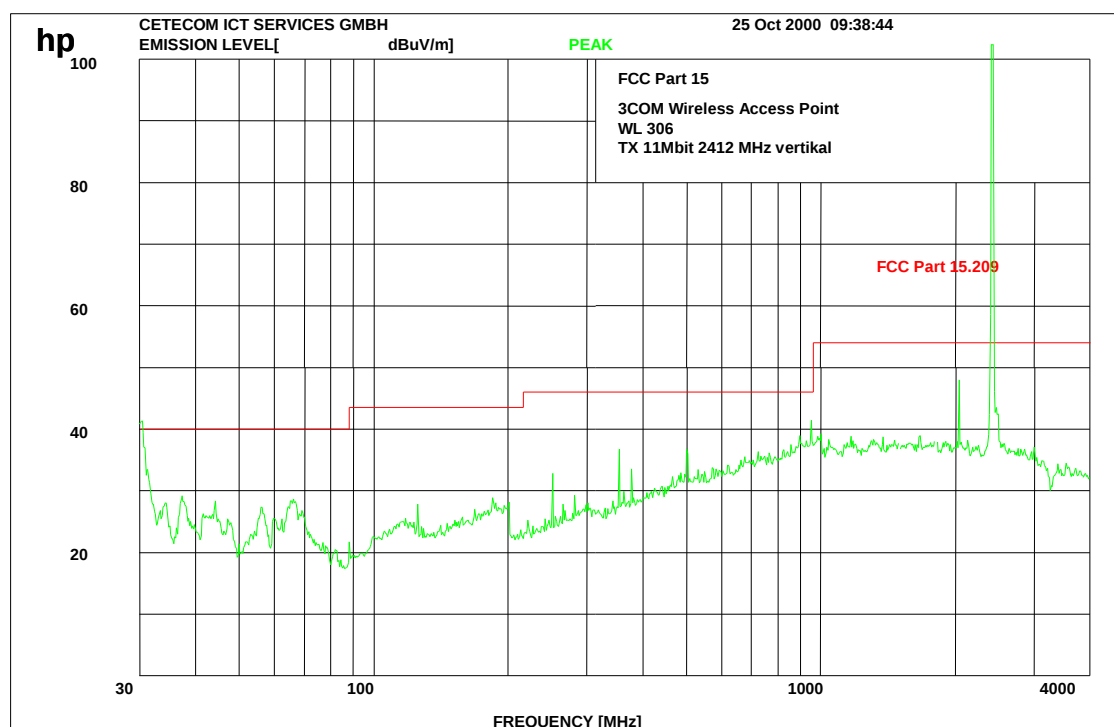
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

2412 MHz radiated up to 4000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, higher frequencies were measured with 1MHz RBW/VBW in peak and average.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

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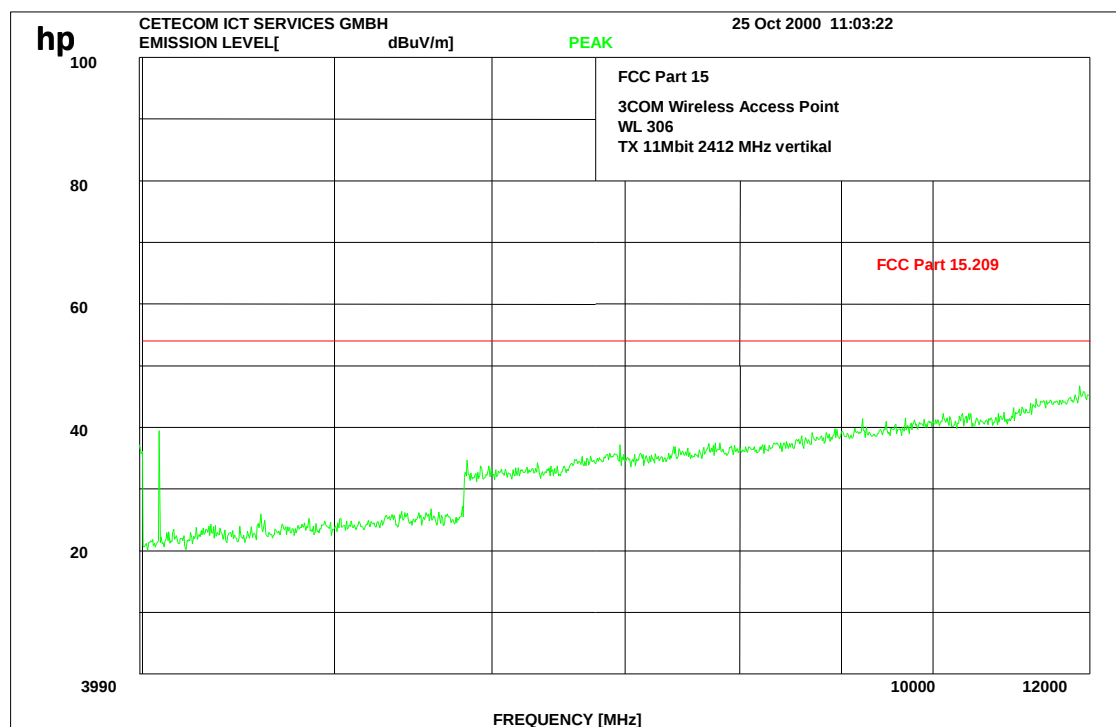
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

2412 MHz radiated up to 12000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan.

Measurements were performed with 1MHz RBW/VBW in peak and average

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

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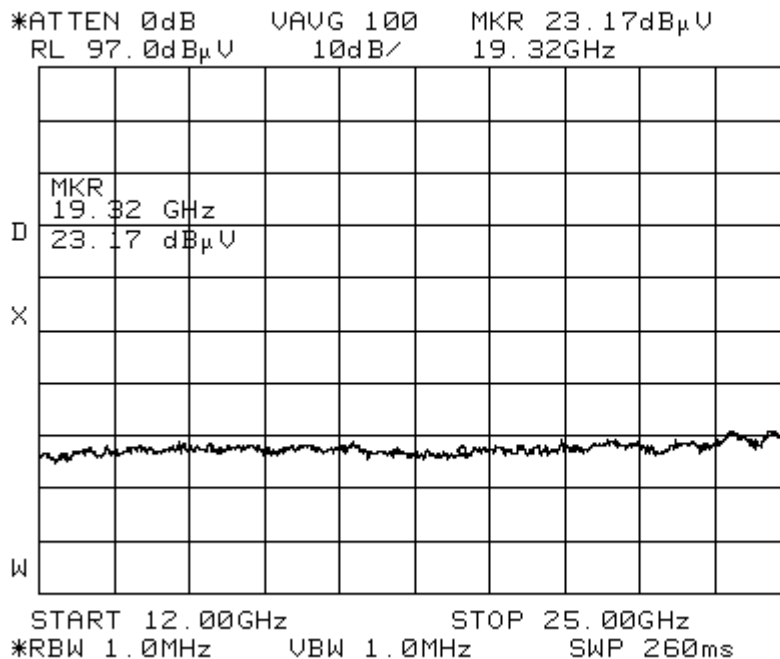
Equipment under test : WL-306

Ambient temperature : 20 °C

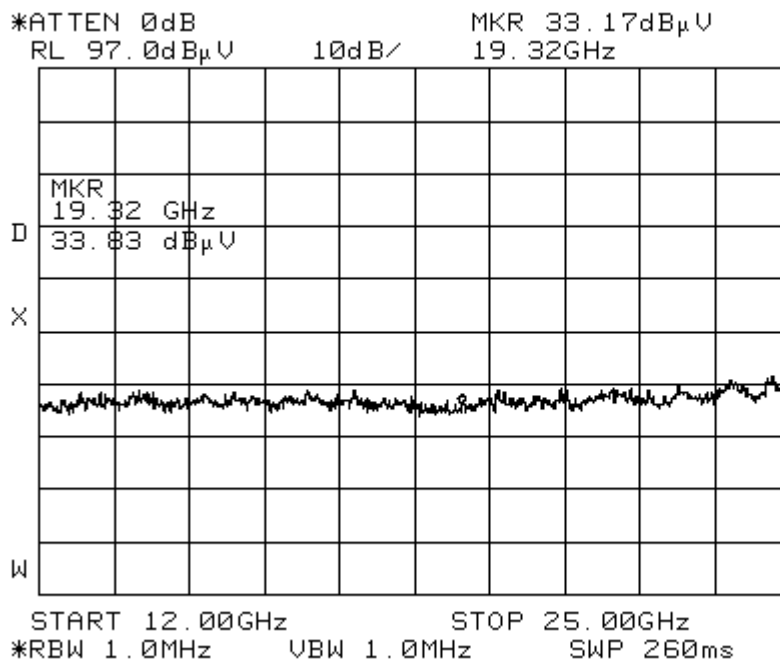
Relative humidity : 51%

2412 MHz up to 25GHz radiated (This plot is valid for all three channels, there were no peaks found)

Average



Peak



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

EMISSION LIMITATIONS (Transmitter)

SUBCLAUSE § 15.247 (c) (1)

conducted (radiated emissions in restricted bands see next table)

2442 MHz

SPURIOUS LIMITATIONS					
f (MHz)		amplitude of emission (dBm)	limit max. allowed emmission		results
2442.0	cond.	2.90	30.0 dBm		Operating frequency
2068.5	cond.	Peak:-48.5 AV: -52.0	-20 dBc		complies
4846.5	cond.	Peak:-49.6 AV: -52.8	-20 dBc	restr. band	complies
6208.2	cond.	Peak:-60.1 AV: -62.6	-20 dBc		complies
7297.6	cond.	Peak:-54.9 AV: -57.1	-20 dBc	restr. band	complies
8250.8	cond.	Peak:-57.9 AV: -60.2	-20 dBc		complies
Measurement uncertainty		± 3dB			

The output power of the fundamental was measured with 100 kHz RBW for this for this part only.

The conducted output is calculated from a measurement in dBµV by -107 dB.

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

EMISSION LIMITATIONS (Transmitter)

SUBCLAUSE § 15.247 (c) (2)

radiated (Antenna vertikal polarisation, horiz. emissions were up to 13 dB lower)

2442 MHz

SPURIOUS LIMITATIONS					
f (MHz)		amplitude of emission (dBµV/m)	limit max. allowed emmission		results
30.05	rad.	QP:34.6	40.0 dBµV/m		complies
250.02	rad.	QP:33.5	46.0 dBµV/m	restr. band	complies
352.05	rad.	QP:36.8	46.0 dBµV/m		complies
500.0	rad.	QP:37.8	46.0 dBµV/m		complies
1495.9	rad.	Peak:48.6 AV: 42.3	54.0 dBµV/m	restr. band	complies
2067.9	rad.	Peak:53.5 AV:50.1	54.0 dBµV/m		complies
2442.0	rad.	Peak:107.4 AV: 103.5		operating frequency	complies
4135.8	rad.	Peak:42.4 AV: 39.9	54.0 dBµV/m	restr. band	complies
6204.0	rad.	Peak:37.9 AV: 34.6	54.0 dBµV/m		complies
no	radiated	spurs	above	6204 MHz	
Measurement uncertainty		± 3dB			

Measurement were performed up to 1 GHz with a CISPR quasi peak adapter and 100/120 kHz BW.
Measurements above 1 GHz were performed with RBW/VBW 1 MHz in Peak and Average.

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

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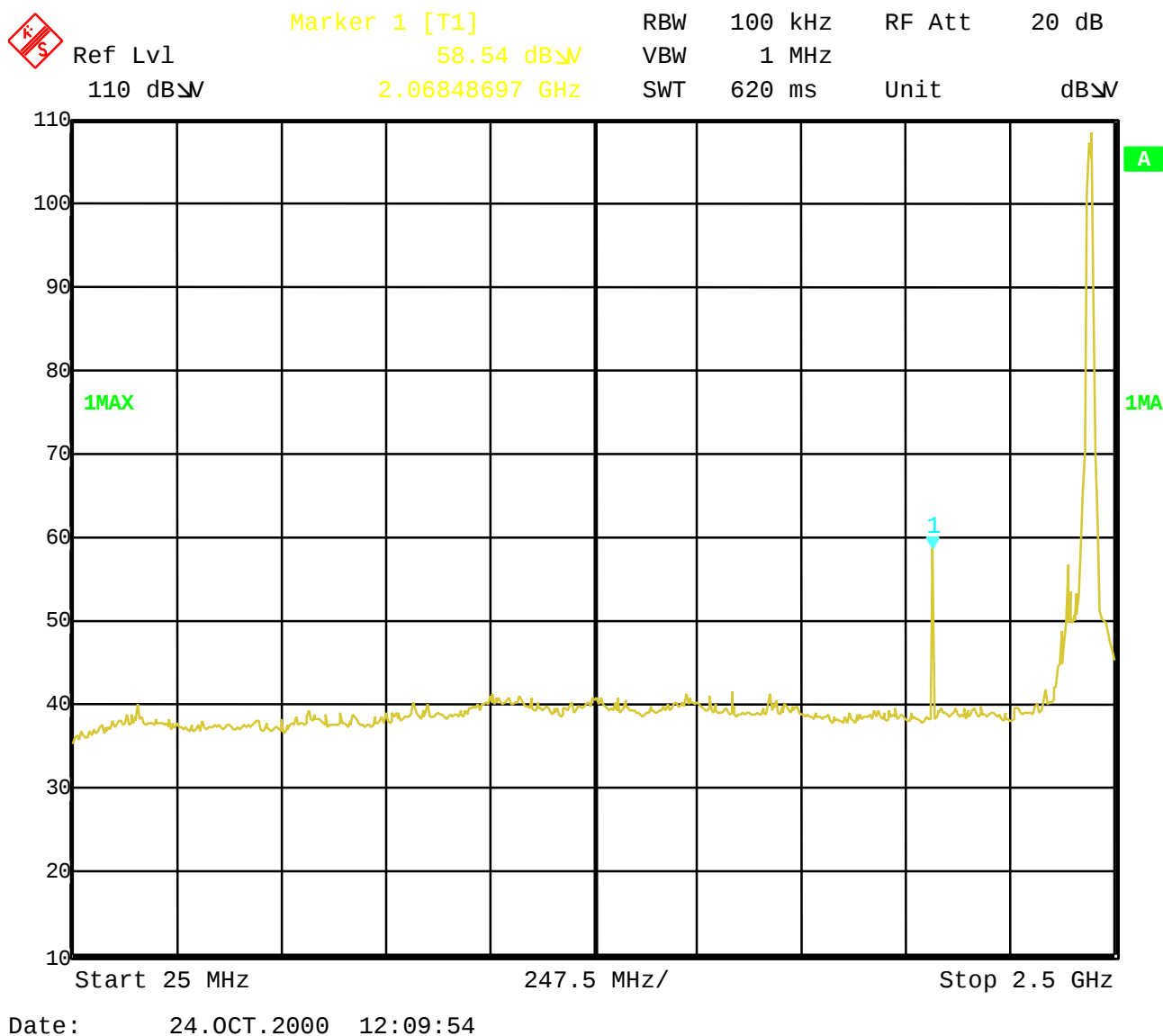
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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

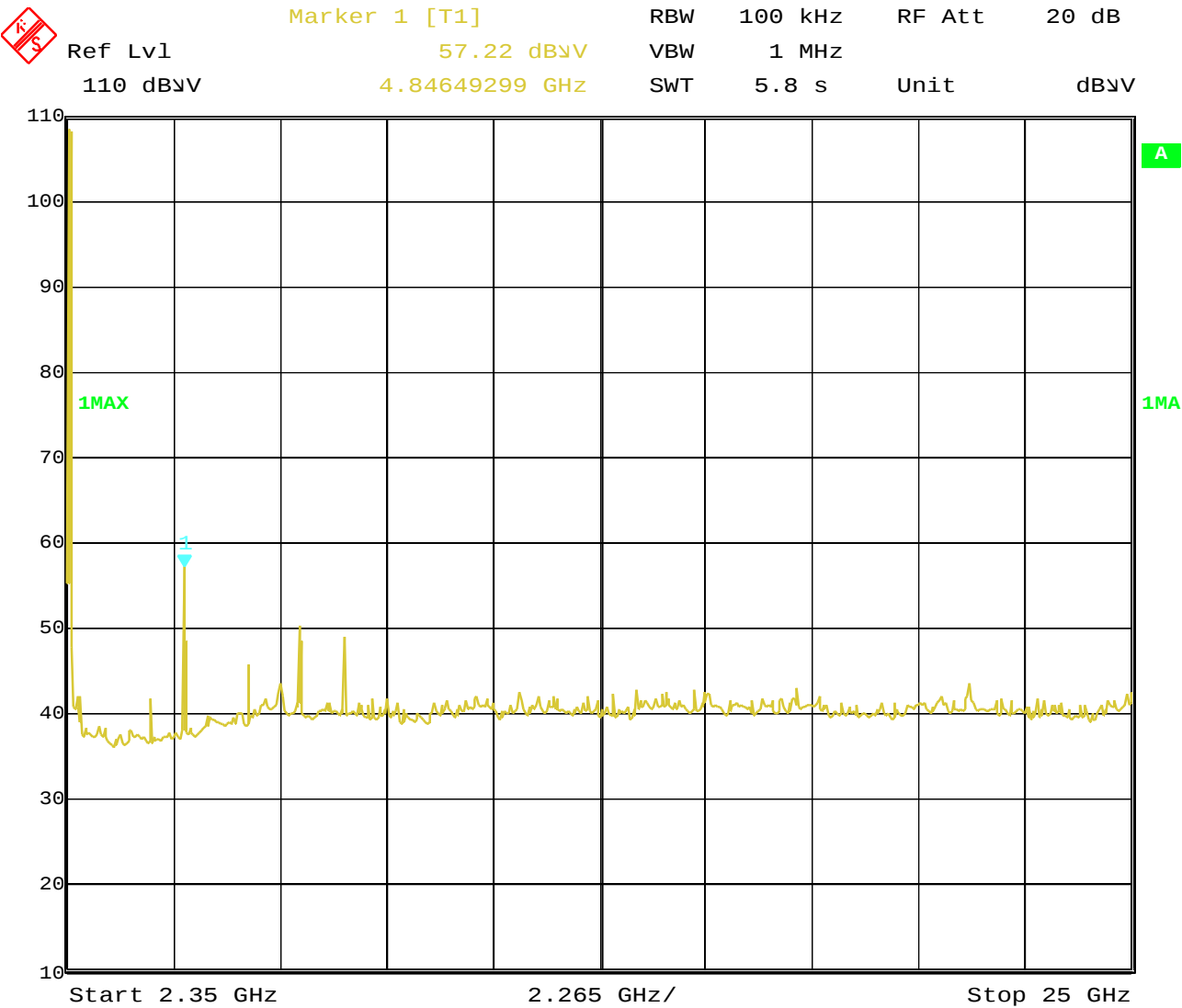
2442 MHz conducted up to 2500 MHz



REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
18-31,64

Equipment under test : WL-306
Ambient temperature : 20 °C
Relative humidity : 51%

2442 MHz conducted up to 25 GHz



Date: 24.OCT.2000 12:10:26

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
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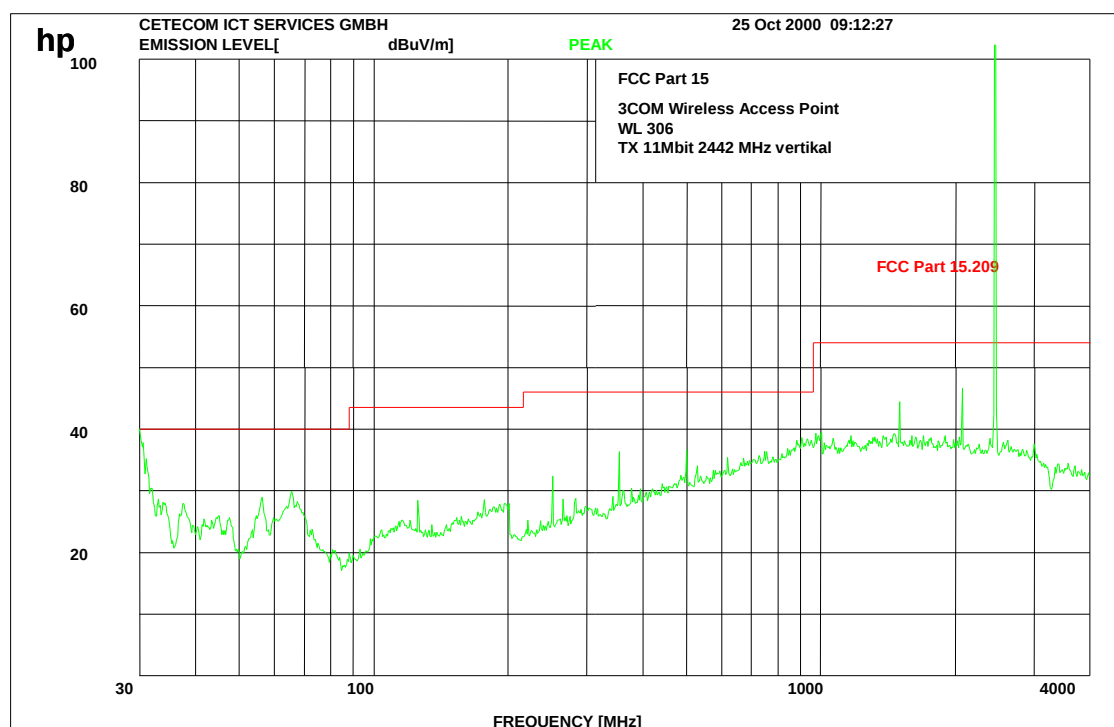
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

2442 MHz radiated up to 4000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, higher frequencies were measured with 1MHz RBW/VBW in peak and average.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

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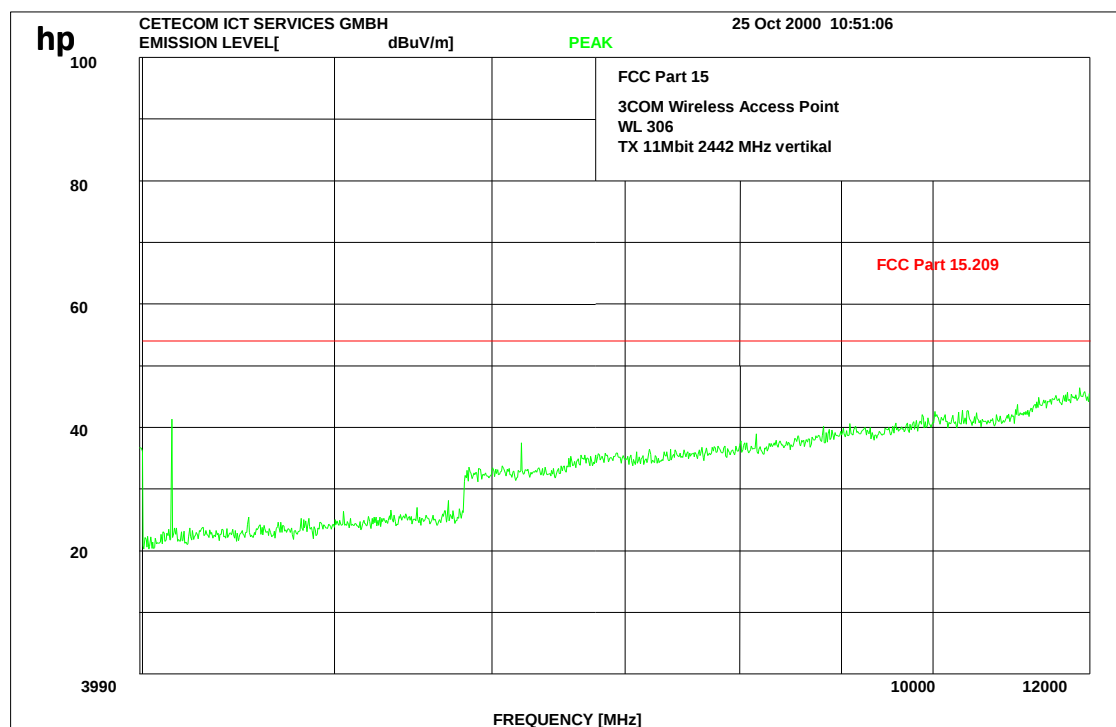
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

2442 MHz radiated up to 12000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan.

Measurements were performed with 1MHz RBW/VBW in peak and average

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

Page 29 (74)

Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

EMISSION LIMITATIONS (Transmitter)

SUBCLAUSE § 15.247 (c) (1)

conducted (radiated emissions in restricted bands see next table)

2472 MHz

SPURIOUS LIMITATIONS					
f (MHz)		amplitude of emission (dBm)	limit max. allowed emmission		results
2472	cond.	3.2	30.0 dBm		Operating frequency
2098.2	cond.	Peak:-46.4 AV:-49.2	-20 dBc		complies
4165.6	cond.	Peak:-62.8 AV: -65.4	-20 dBc	restr. band	complies
4299.0	cond.	Peak:-60.9 AV: -64.3	-20 dBc	restr. band	complies
4937.3	cond.	Peak:-48.0 AV: -52.1	-20 dBc	restr. band	complies
7388.4	cond.	Peak:-58.1 AV:-61.2	-20 dBc	restr. band	complies
Measurement uncertainty		± 3dB			

The output power of the fundamental was measured with 100 kHz RBW for this for this part only.
The conducted output is calculated from a measurement in dBµV by -107 dB.

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

Page 30 (74)

Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

EMISSION LIMITATIONS (Transmitter)

SUBCLAUSE § 15.247 (c) (2)

radiated (Antenna vertikal polarisation, horiz. emissions were up to 20dB lower)

2472 MHz

SPURIOUS LIMITATIONS					
f (MHz)		amplitude of emission (dBµV/m)	limit max. allowed emmission		results
129.8	rad.	QP:34.8	43.5 dBµV/m	restr. band	complies
194.9	rad.	QP:37.8	43.5 dBµV/m		complies
259.9	rad.	QP:39.1	46.0 dBµV/m	restr. band	complies
389.9	rad.	QP:36.4	46.0 dBµV/m		complies
496.2	rad.	QP:41.9	46.0 dBµV/m		complies
951.5	rad.	QP:37.3	46.0 dBµV/m		complies
1495.2	rad.	Peak:45.5 AV:36.0	54.0 dBµV/m	restr. band	complies
2098.9	rad.	Peak:53.2 AV:49.4	54.0 dBµV/m		complies
2472.0	rad.	Peak:105.2 AV:102.5		operating frequency	complies
4195.9	rad.	Peak:39.2 AV: 37.4	54.0 dBµV/m	restr. band	complies
6294.0	rad.	Peak:44.7 AV:42.9	54.0 dBµV/m		complies
no	radiated	spurs	above	6294 MHz	
Measurement uncertainty		± 3dB			

Measurement were performed up to 1 GHz with a CISPR quasi peak adapter and 100/120 kHz BW. Measurements above 1 GHz were performed with RBW/VBW 1 MHz in Peak and Average.

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

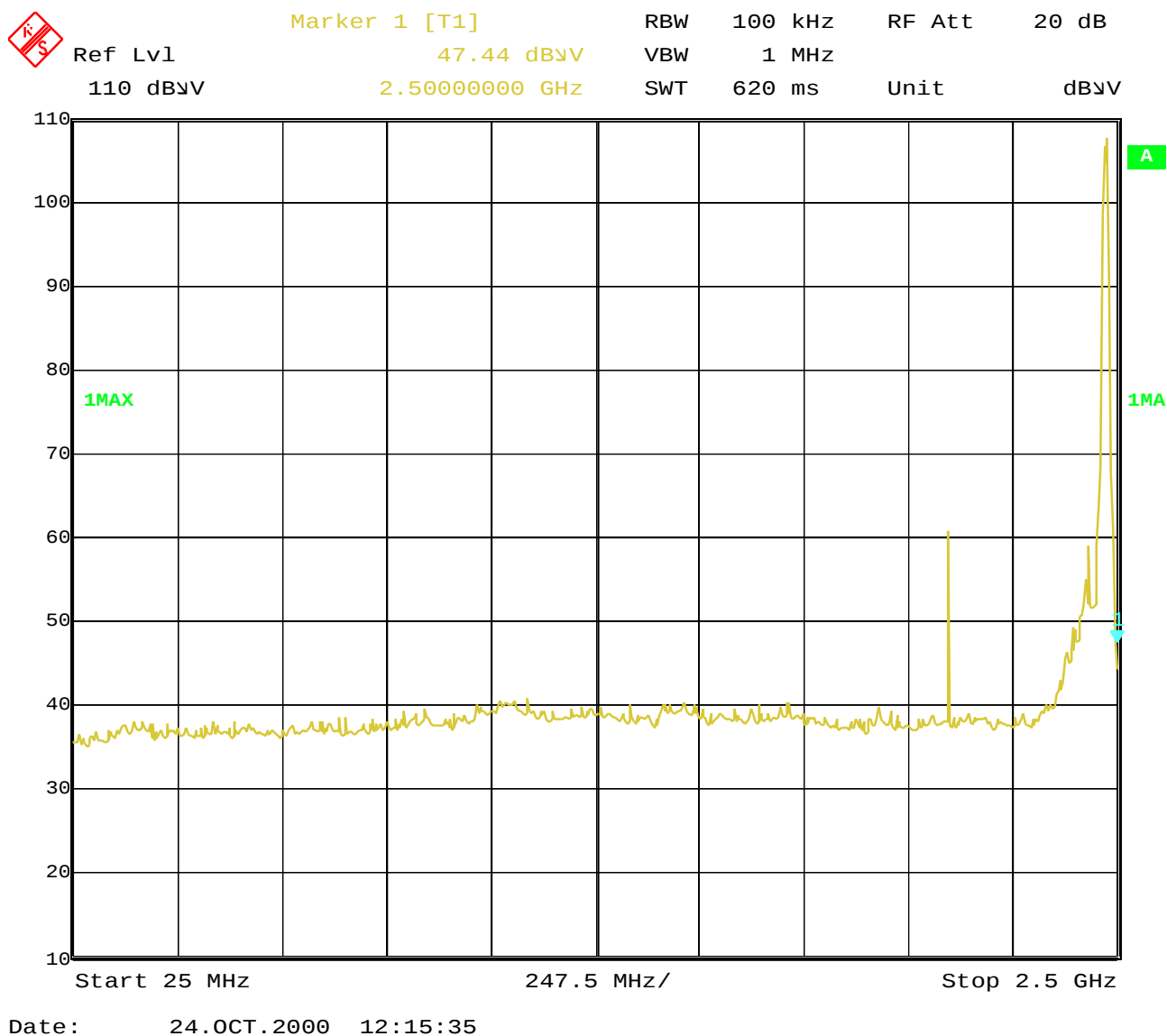
Page 31 (74)

Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

2472 MHz conducted up to 2500 MHz



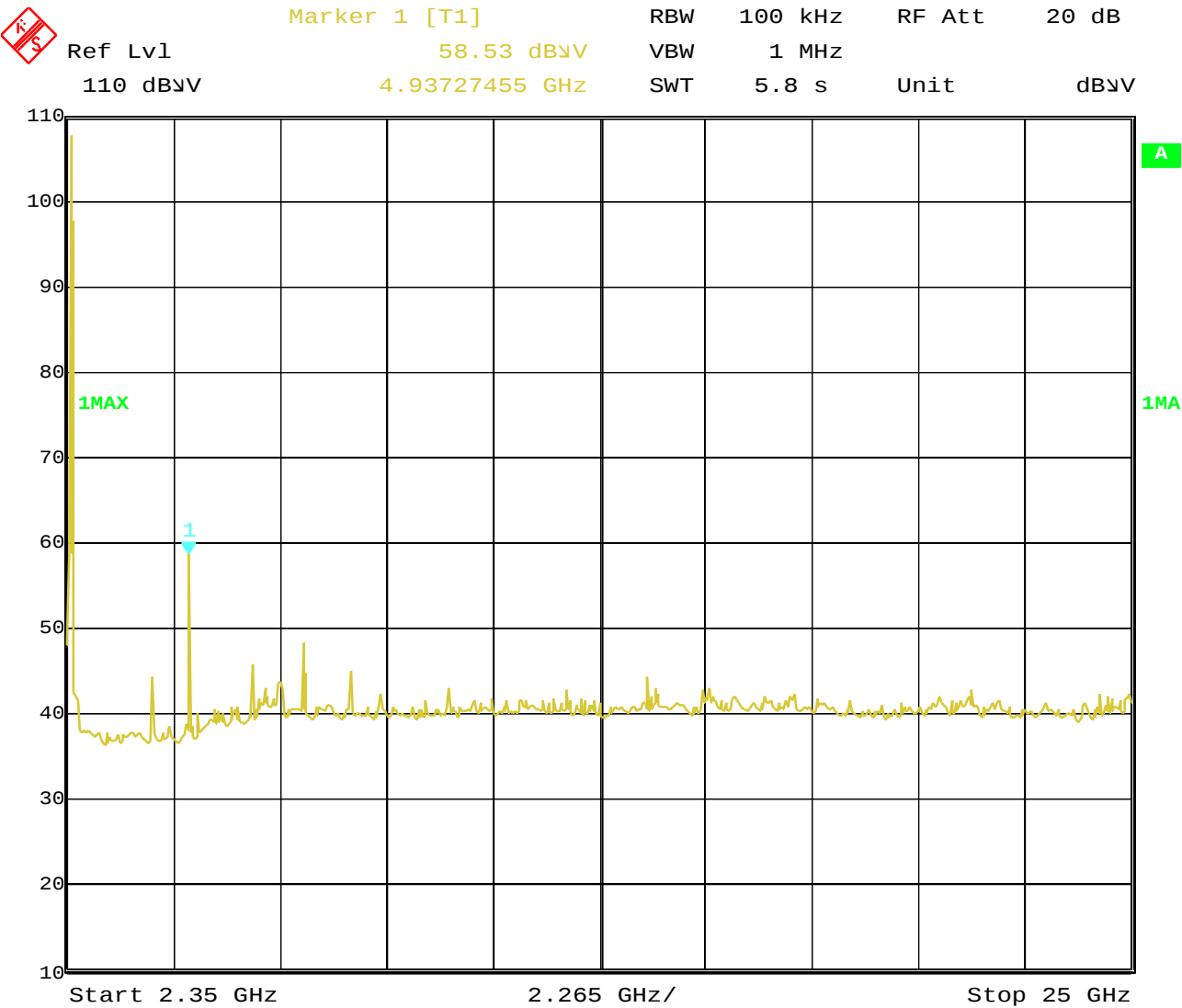
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

Equipment under test : WL-306
Ambient temperature : 20 °C
Relative humidity : 51%

2472 MHz conducted up to 25 GHz



Date: 24.OCT.2000 12:12:46

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
18-31,64

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

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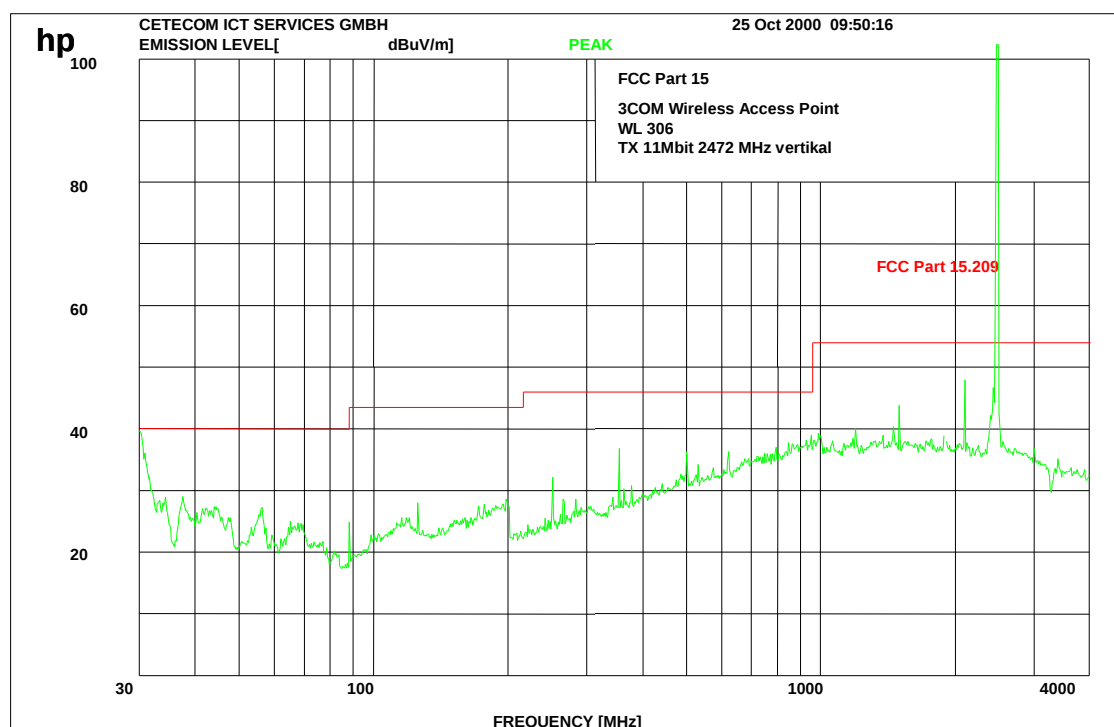
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

2472 MHz radiated up to 4000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, higher frequencies were measured with 1MHz RBW/VBW in peak and average.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

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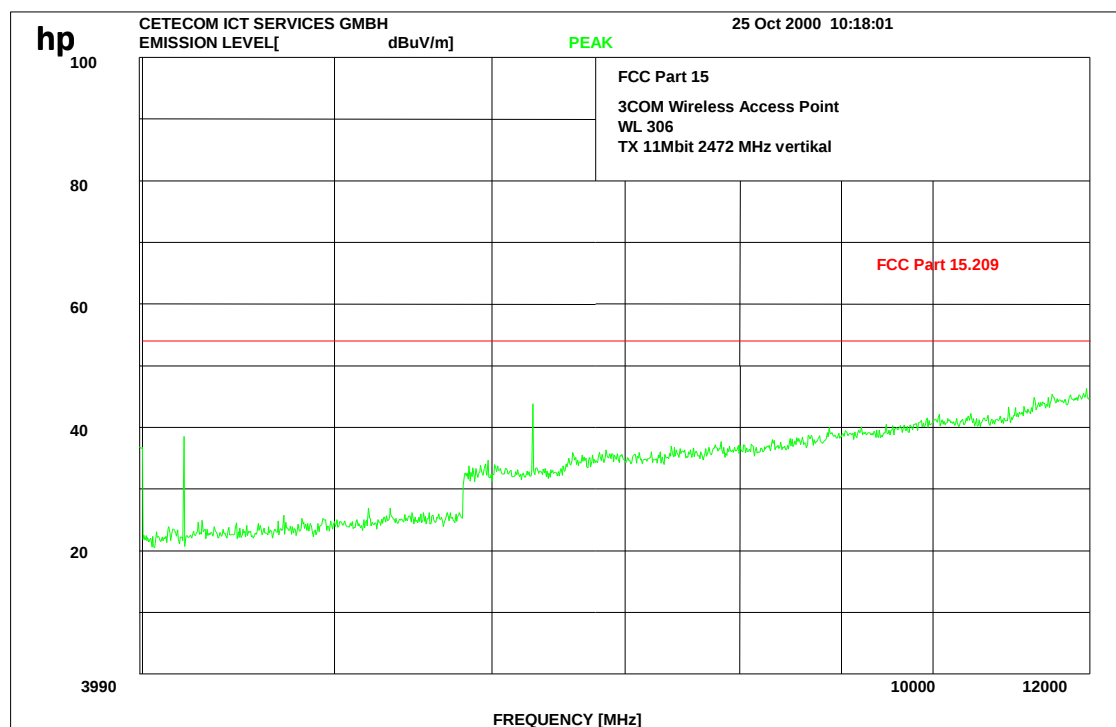
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

2472 MHz radiated up to 12000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan.

Measurements were performed with 1MHz RBW/VBW in peak and average

LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

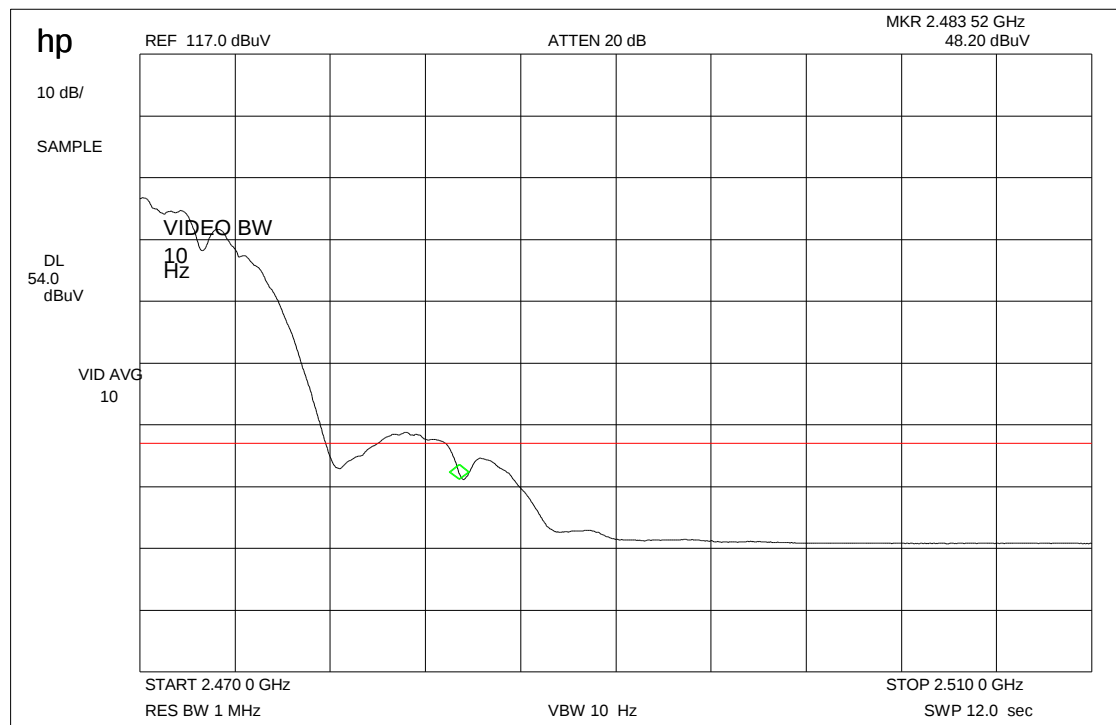
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

Spurious radiations in the restricted band 2483.5 to 2500 MHz

Average



LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

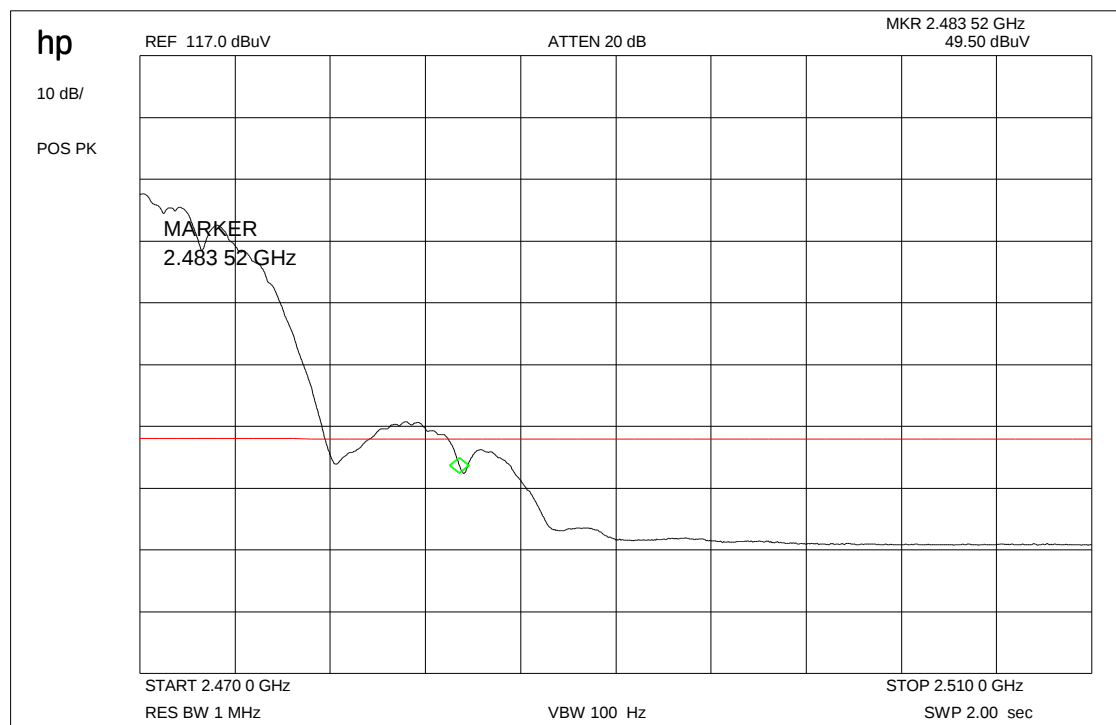
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

Spurious radiations in the restricted band 2483.5 to 2500 MHz

RBW 1MHz, VBW 10 Hz



LIMITS

SUBCLAUSE § 15.247 (c)

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

18-31,64

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51 %

POWER SPECTRAL DENSITY

SUBCLAUSE § 15.247 (d)

TEST CONDITIONS		RF POWER LEVEL IN 3 kHz BW		
Frequency (MHz)		2412	2442	2472
T _{nom} (23) °C	V _{nom} (230)V	-16.52dBm	-14.49 dBm	-14.87 dBm
Maximum deviation from output power under extreme test conditions (dBc)				
Measurement uncertainty		±3dB		

The measurement was performed with RBW 3 kHz, VBW 10 kHz, Span 1.5 MHz, Sweep 500 sec.

LIMIT

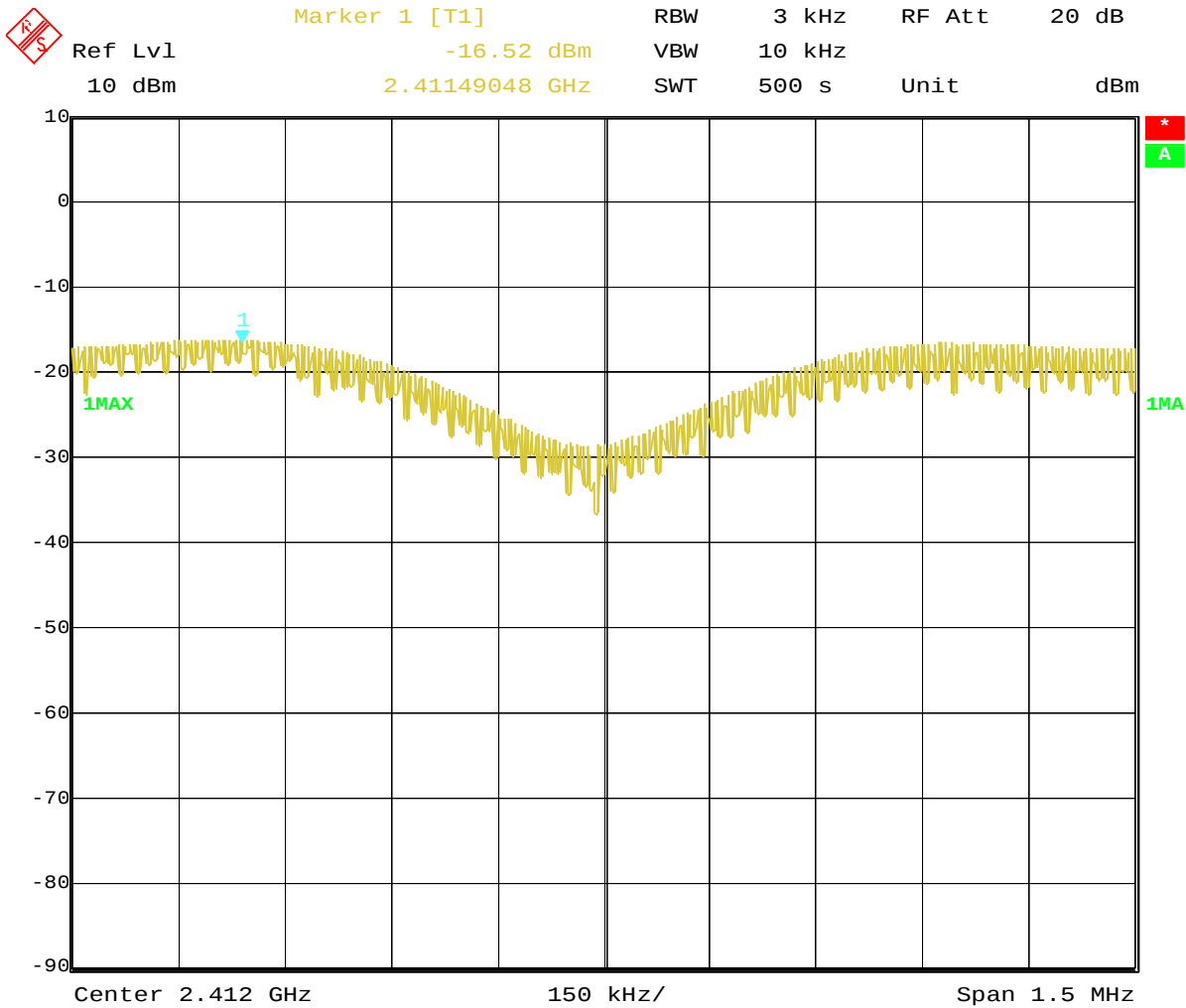
SUBCLAUSE §15.247(d)

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)
18-31,64

Equipment under test : WL-306
Ambient temperature : 20 °C
Relative humidity : 51%
POWER SPECTRAL DENSITY
2412 MHz

SUBCLAUSE § 15.247 (d)



Date: 12.DEC.2000 10:30:44

LIMIT SUBCLAUSE §15.247(d)

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

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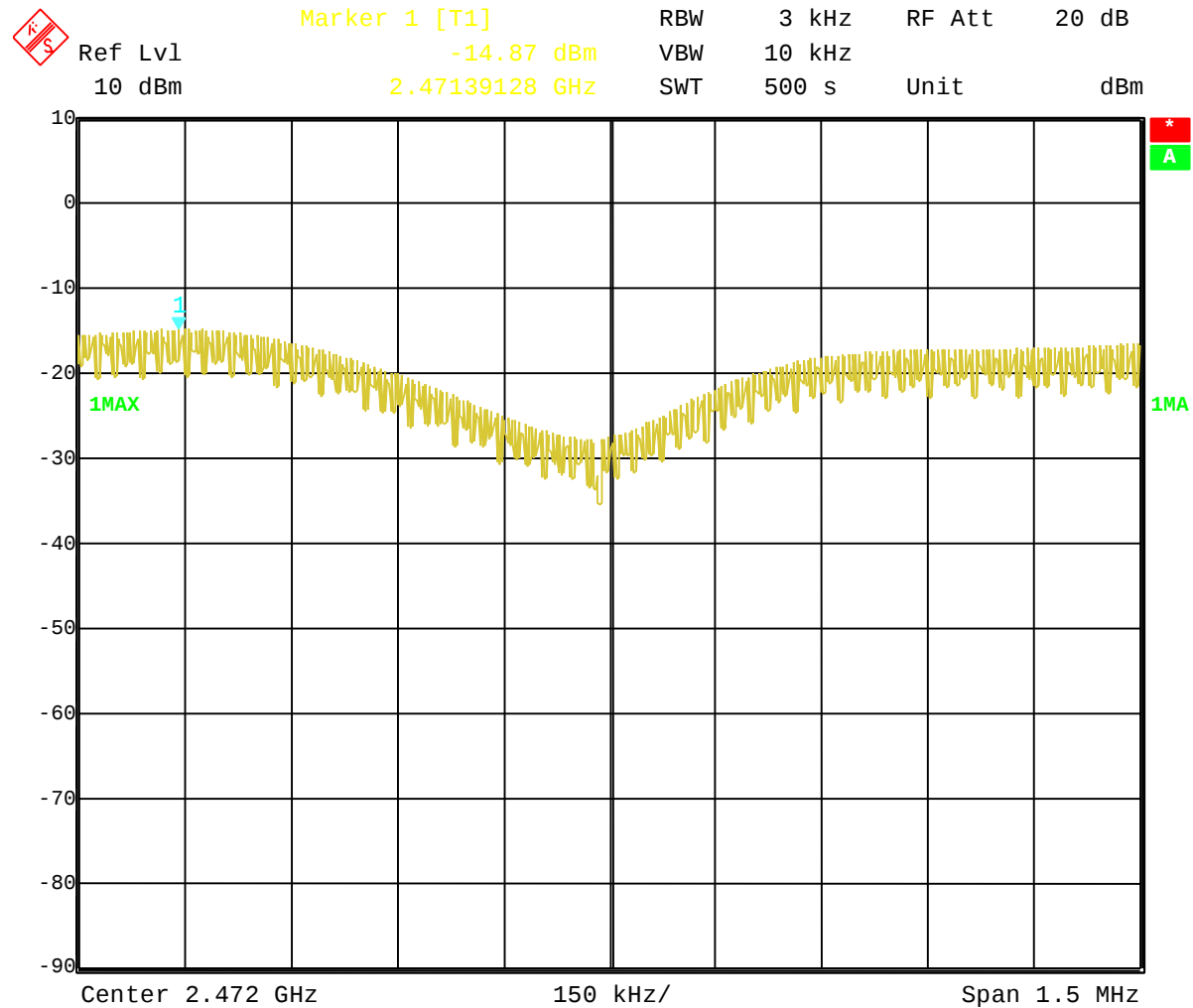
Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

POWER SPECTRAL DENSITY 2472 MHz

SUBCLAUSE § 15.247 (d)



Date: 12.DEC.2000 10:33:47

LIMIT

SUBCLAUSE §15.247(d)

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

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Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

PROCESSING GAIN OF DSSS SYSTEMS

SUBCLAUSE §15.247 (e)

The processing gain of this product was declared by the sole responsibility of 3COM Corporation.

The product „ 3COM Wireless LAN Access Point (Model WL-306), to which this declaration relates, exhibits a minimum processing gain of 11.4 dB

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED
(for reference numbers see test equipment listing)

17 - 24

Equipment under test : WL-306

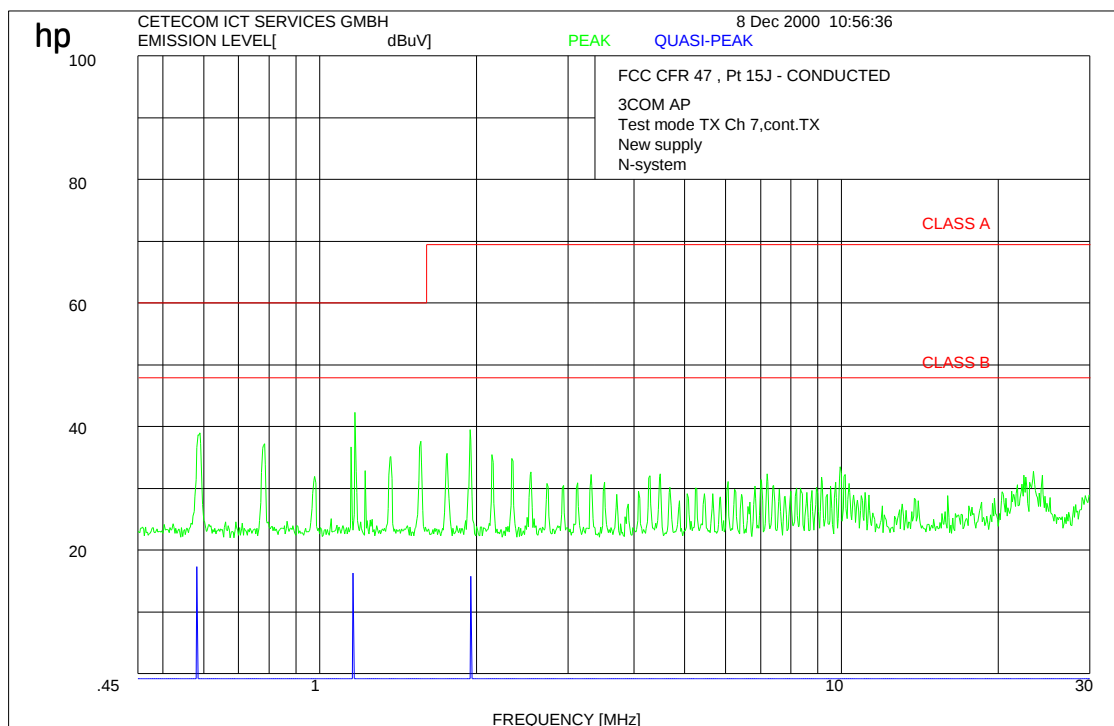
Ambient temperature : 20 °C

Relative humidity : 51%

CONDUCTED EMISSIONS

FCC Rule 47 Part 15

Neutral to ground



The test was performed with a CISPR quasi peak adapter.

All spurious were <<below limit.

Technical specification : 15.207 (Revised as of October 1, 1991)

Limit

0.45 to 30 MHz	250 μ V / 47.96 dB μ V
----------------	--------------------------------

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

17 - 24

Equipment under test : WL-306

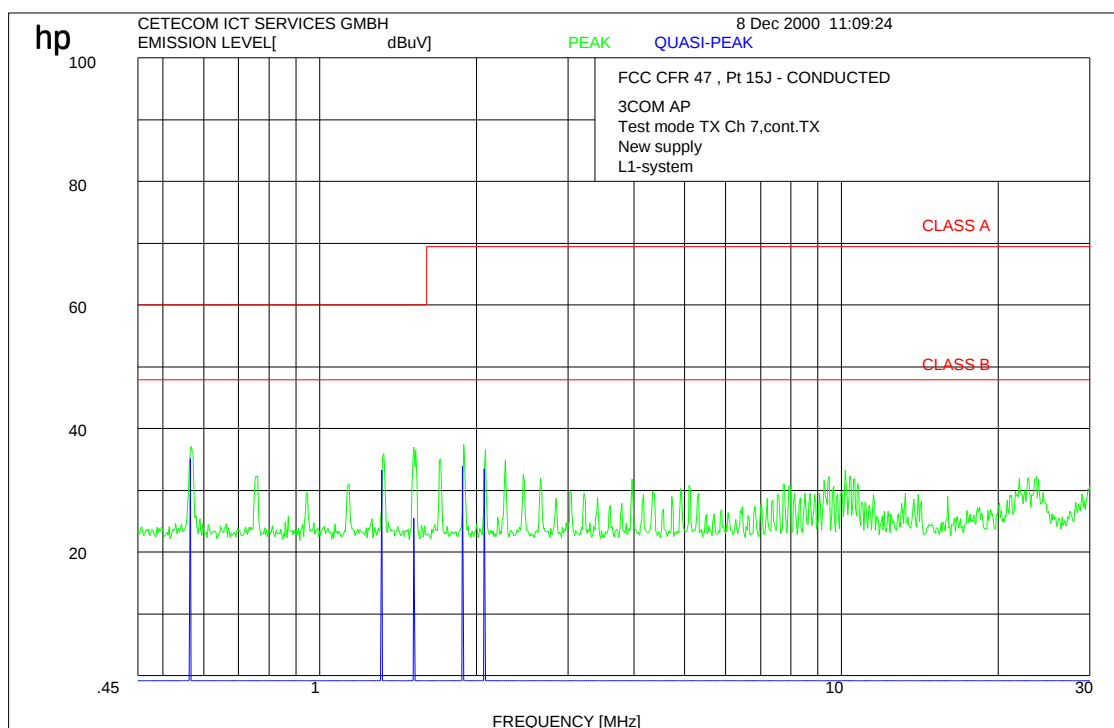
Ambient temperature : 20 °C

Relative humidity : 51 %

CONDUCTED EMISSIONS

FCC Rule 47 Part 15

Phase to ground



The test was performed with a CISPR quasi peak adapter.

All spurious were <<below limit.

Technical specification : 15.207 (Revised as of October 1, 1991)

Limit

0.45 to 30 MHz	250 μ V / 47.96 dB μ V
----------------	--------------------------------

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

17 - 24

Equipment under test : WL-306

Ambient temperature : 20 °C

Relative humidity : 51%

RECEIVER SPURIOUS RADIATION

§ 15.209

RBW/VBW up to 1 GHz according to CISPR 100/120 kHz Quasi Peak

RBW/VBW over 1 GHz according to FCC 1 MHz Peak and Average.

Radiated

SPURIOUS EMISSIONS LEVEL (dBµV/m)								
2412 MHz			2442 MHz			2472 MHz		
f (MHz)	Detector	Level dBµV/m	f (MHz)	Detector	Level (µV/m)	f (MHz)	Detector	Level (µV/m)
44.0	QP	42.0	44.0	QP	42.0	44.0	QP	42.0
250.0	QP	31.6	250.0	QP	31.6	250.0	QP	31.6
264.1	QP	33.6	264.1	QP	33.6	264.1	QP	33.6
352.0	QP	37.8	352.0	QP	37.8	352.0	QP	37.8
1496.0	Peak AV	49.0 45.6	1452.0	Peak AV	46.1 38.7	1544.1	Peak AV	43.8 34.6
2038.0	Peak AV	53.2 50.16	2068.0	Peak AV	52.7 49.9	2098.0	Peak AV	53.0 50.5
4075.8	Peak AV	32.4 29.9	4135.9	Peak AV	34.6 31.3	4195.9	Peak AV	29.9 27.1
6113.9	Peak AV	38.6 35.9	6203.9	Peak AV	43.9 40.6	6293.9	Peak AV	43.7 41.0
8151.9	Peak AV	43.4 40.9	8271.9	Peak AV	43.8 40.9			
Measurement uncertainty			±3 dB					

All spurious including such in restricted bands are below the limits.

Measurement distance see table

Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (dBµV/m)	Measurement distance (m)
30 - 88	40	3
88 - 216	43.5	3
216 - 960	46	3
above 960	54	3

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

17 - 24

Equipment under test : WL-306

Ambient temperature : 20 °C

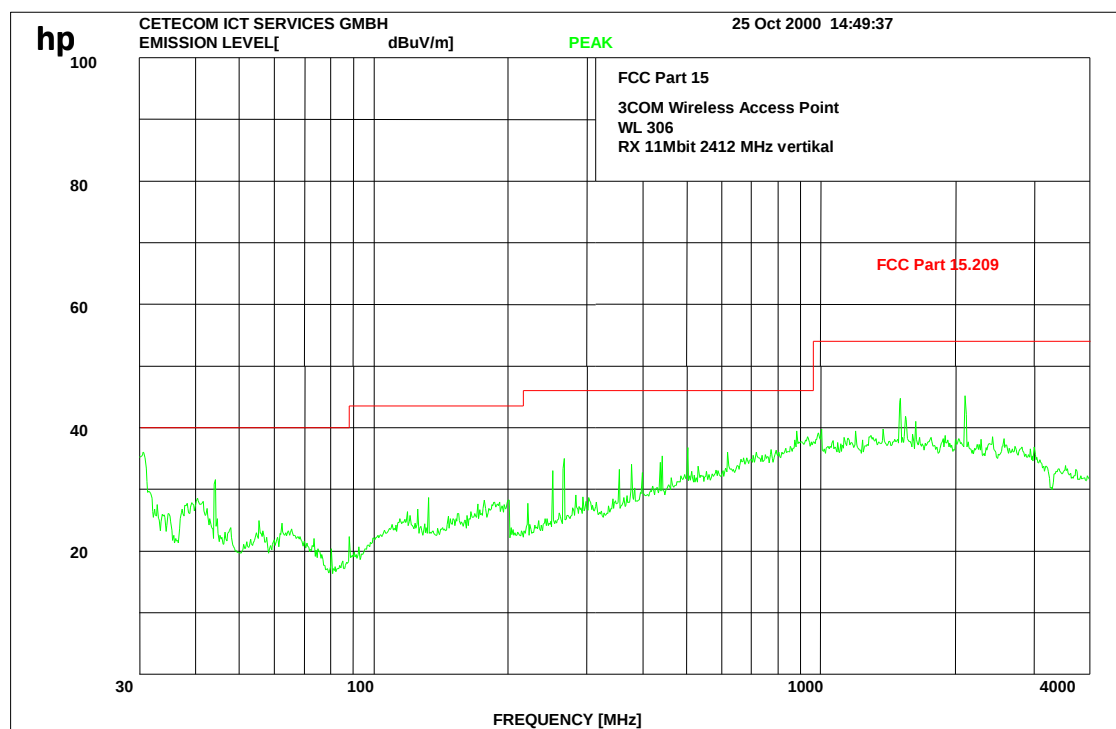
Relative humidity : 51%

RECEIVER SPURIOUS RADIATION

§ 15.209

2412 MHz up to 4000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, for the frequency range over 1 GHz we used 1 MHz RBW/VBW for Peak and Average.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

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Equipment under test : WL-306

Ambient temperature : 20 °C

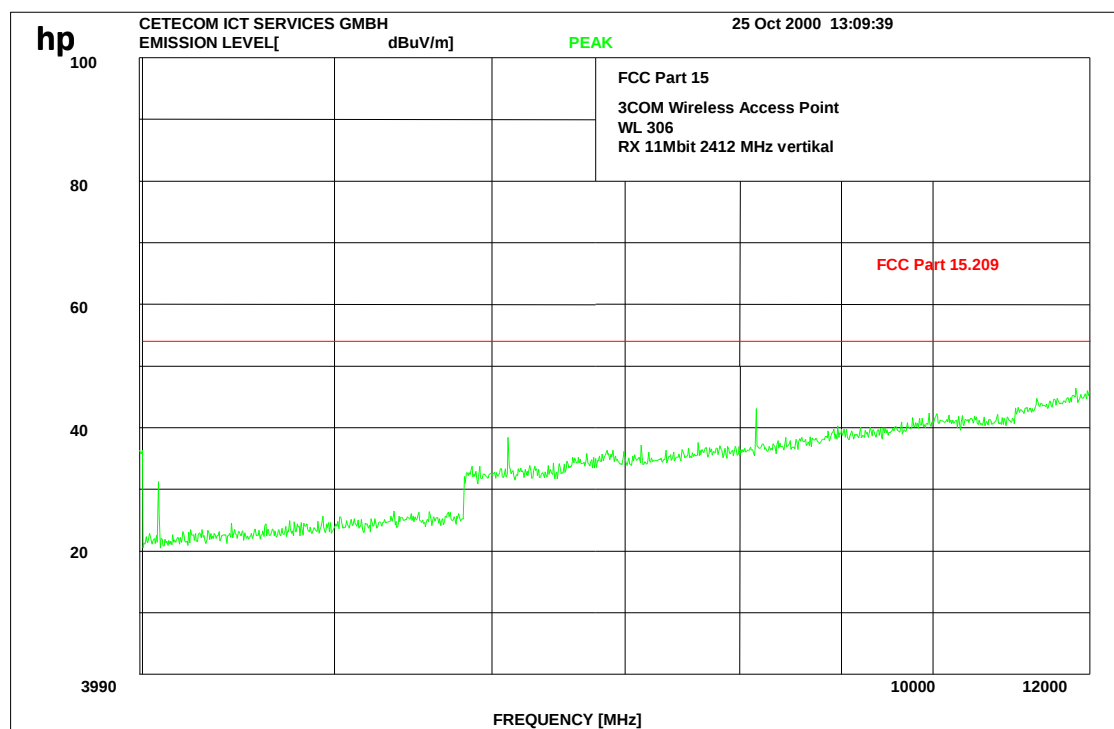
Relative humidity : 51 %

RECEIVER SPURIOUS RADIATION

§ 15.209

2412 MHz up to 12 GHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber.



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, for the frequency range over 1 GHz we used 1 MHz RBW/VBW for Peak and Average.

The measurements were performed up to 25 GHz. There were no peaks found.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

Equipment under test : WL-306

Ambient temperature : 20 °C

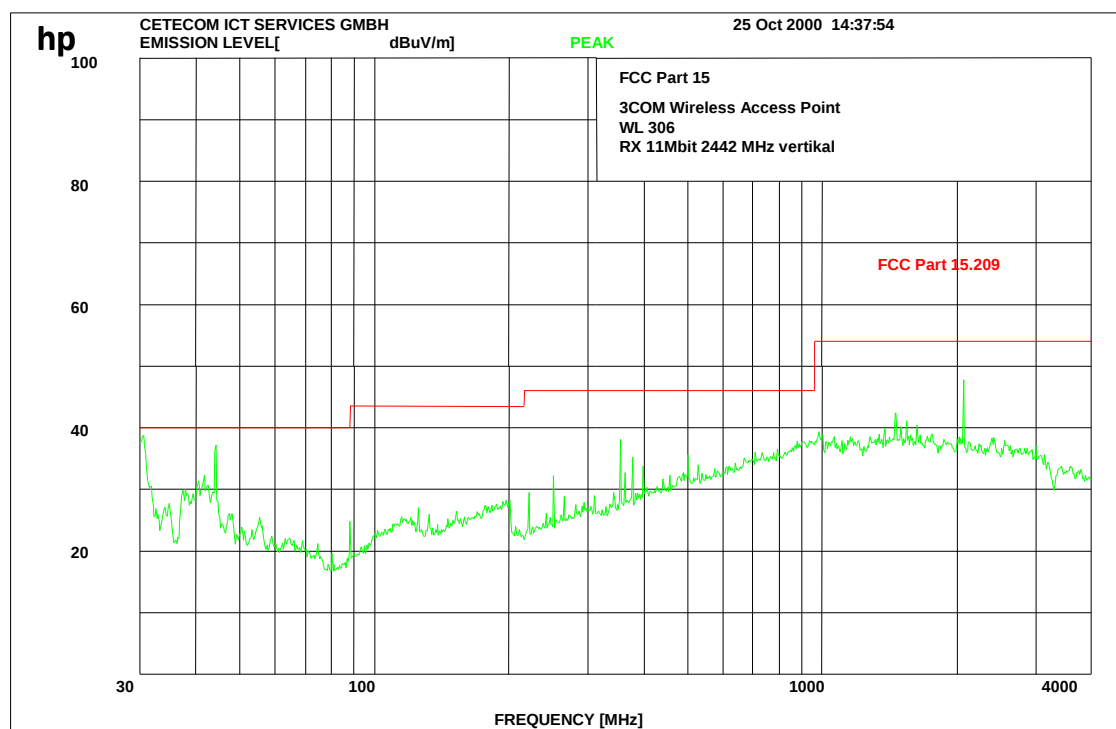
Relative humidity : 51%

RECEIVER SPURIOUS RADIATION

§ 15.209

2442 MHz up to 4000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, for the frequency range over 1 GHz we used 1 MHz RBW/VBW for Peak and Average.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

17 - 24

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

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Equipment under test : WL-306

Ambient temperature : 20 °C

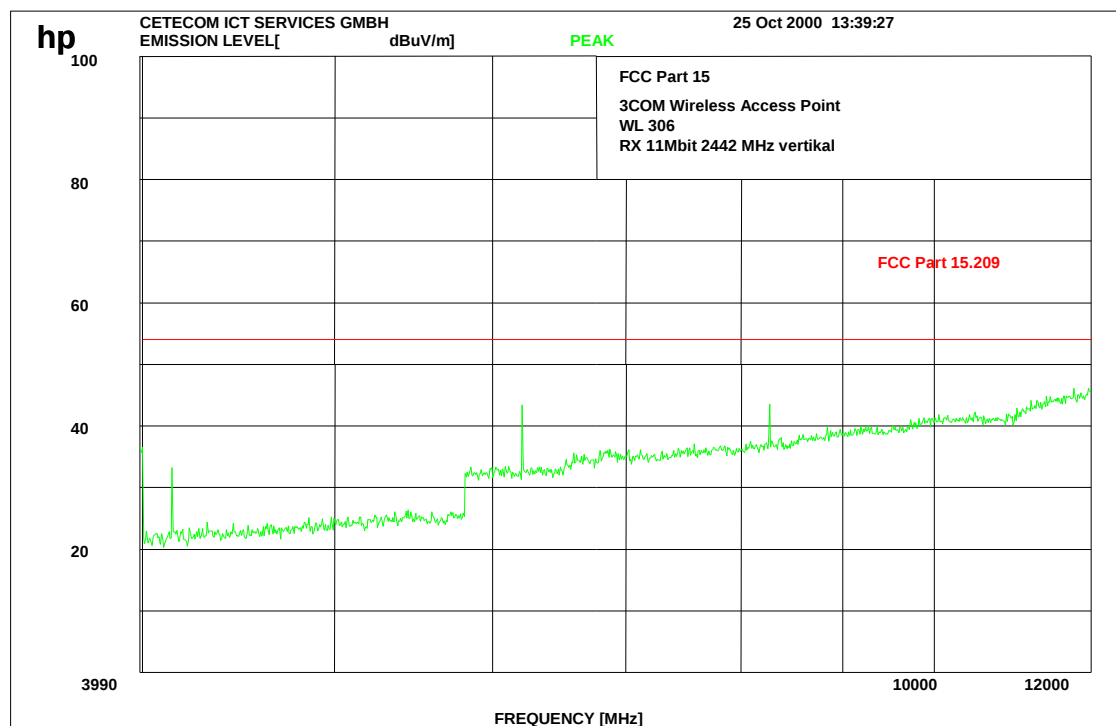
Relative humidity : 51%

RECEIVER SPURIOUS RADIATION

§ 15.209

2442 MHz up to 12 GHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, for the frequency range over 1 GHz we used 1 MHz RBW/VBW for Peak and Average.

The measurements were performed up to 25 GHz. There were no peaks found.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

17 - 24

CETECOM ICT Services GmbH

Test report nr.: 2-2280-A/00

Issue Date:08.12.2000

Page 49 (74)

Equipment under test : WL-306

Ambient temperature : 20 °C

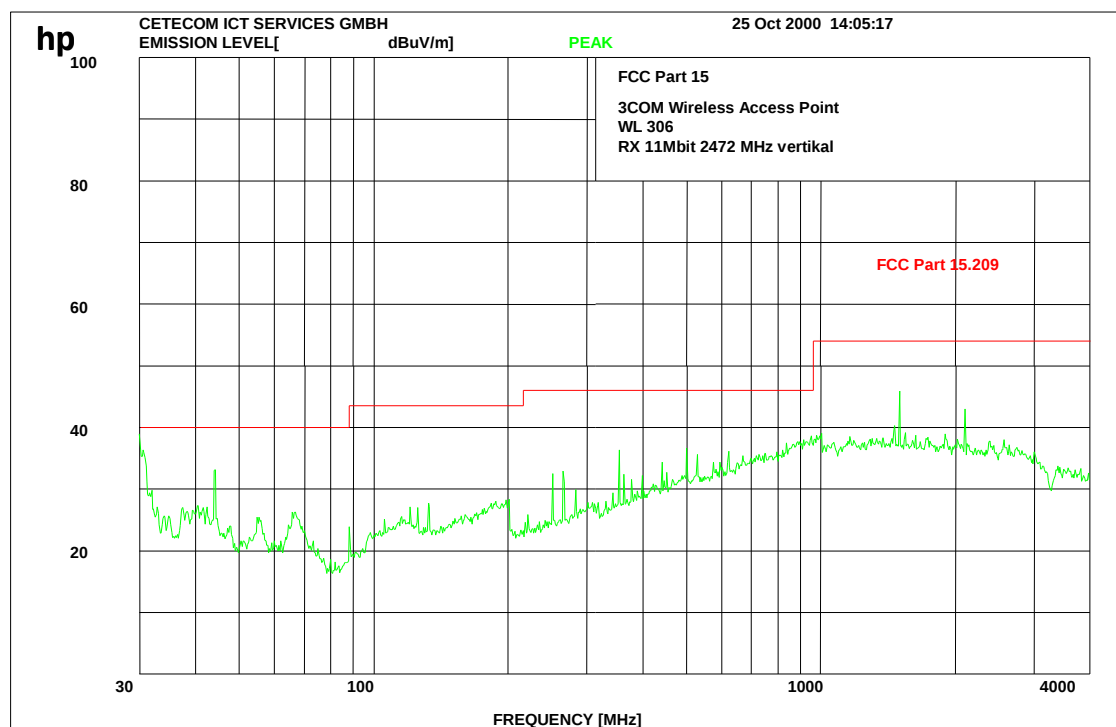
Relative humidity : 51%

RECEIVER SPURIOUS RADIATION

§ 15.209

2472 MHz up to 4000 MHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, for the frequency range over 1 GHz we used 1 MHz RBW/VBW for Peak and Average.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

17 - 24

Equipment under test : WL-306

Ambient temperature : 20 °C

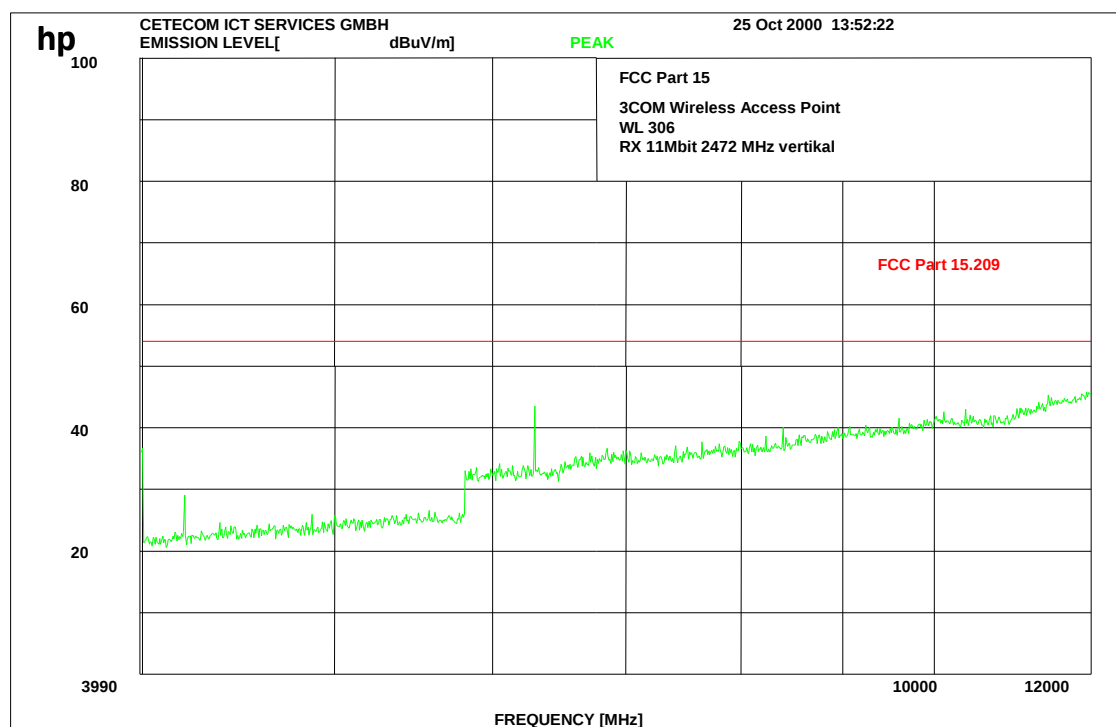
Relative humidity : 51%

RECEIVER SPURIOUS RADIATION

§ 15.209

2472 MHz up to 12 GHz

The higher line is the spurious limit FCC 15.209 according to antenna gain and semi-anechoic chamber



This is only a scan:

Measurements were performed with a CISPR quasi peak adapter and 100/120 kHz BW up to 1 GHz, for the frequency range over 1 GHz we used 1 MHz RBW/VBW for Peak and Average.

The measurements were performed up to 25 GHz. There were no peaks found.

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	8566 A	Hewlett-Packard	1925A00257
02	Analyzer Display	8566 A	Hewlett-Packard	1925A00860
03	Oscilloscope	7633	Tektronix	230054
04	Radio Analyzer	CMTA 54	Rohde & Schwarz	894 043/010
05	System Power Supply	6038 A	Hewlett-Packard	2848A07027
06	Signal Generator	8111 A	Hewlett-Packard	2215G00867
07	Signal Generator	8662 A	Hewlett-Packard	2224A01012
08	Funktionsgenerator	AFGU	Rohde & Schwarz	862 480/032
09	Regeltrenntrafo	MPL	Erfi	91350
10	Netznachbildung	NNLA 8120	Schwarzbeck	8120331
11	Relais-Matrix	PSU	Rohde & Schwarz	893 285/020
12	Power-Meter	436 A	Hewlett-Packard	2101A12378
13	Power-Sensor	8484 A	Hewlett-Packard	2237A10156
14	Power-Sensor	8482 A	Hewlett-Packard	2237A00616
15	Modulationsmeter	9008	Racal-Dana	2647
16	Frequenzzähler	5340 A	Hewlett-Packard	1532A03899
17	Absorber Schirmkabine	---	MWB	87400/002
18	Spectrum Analyzer	85660 B	Hewlett-Packard	2747A05306
19	Analyzer Display	85662 A	Hewlett-Packard	2816A16541
20	Quasi Peak Adapter	85650 A	Hewlett-Packard	2811A01131
21	RF-Preselector	85685 A	Hewlett-Packard	2833A00768
22	Biconical Antenne	3104	Emco	3758
23	Log. Per. Antenne	3146	Emco	2130
24	Double Ridge Horn	3115	Emco	3088
25	EMI-Testreceiver	ESAI	Rohde & Schwarz	863 180/013
26	EMI-Analyzer-Display	ESAI-D	Rohde & Schwarz	862 771/008
27	Biconical Antenne	HK 116	Rohde & Schwarz	888 945/013
28	Log. Per. Antenne	HL 223	Rohde & Schwarz	825 584/002
29	Relais-Switch-Unit	RSU	Rohde & Schwarz	375 339/002
30	Highpass	HM985955	FSY Microwave	001
31	Amplifier	P42-GA29	Tron-Tech	B 23602
32	Absorber Schirmkabine		Frankonia	
33	Steuerrechner	PSM 7	Rohde & Schwarz	834 621/004
34	EMI Test Reciever	ESMI	Rohde & Schwarz	827 063/010
35	EMI Test Receiver	Display	Rohde & Schwarz	829 808/010

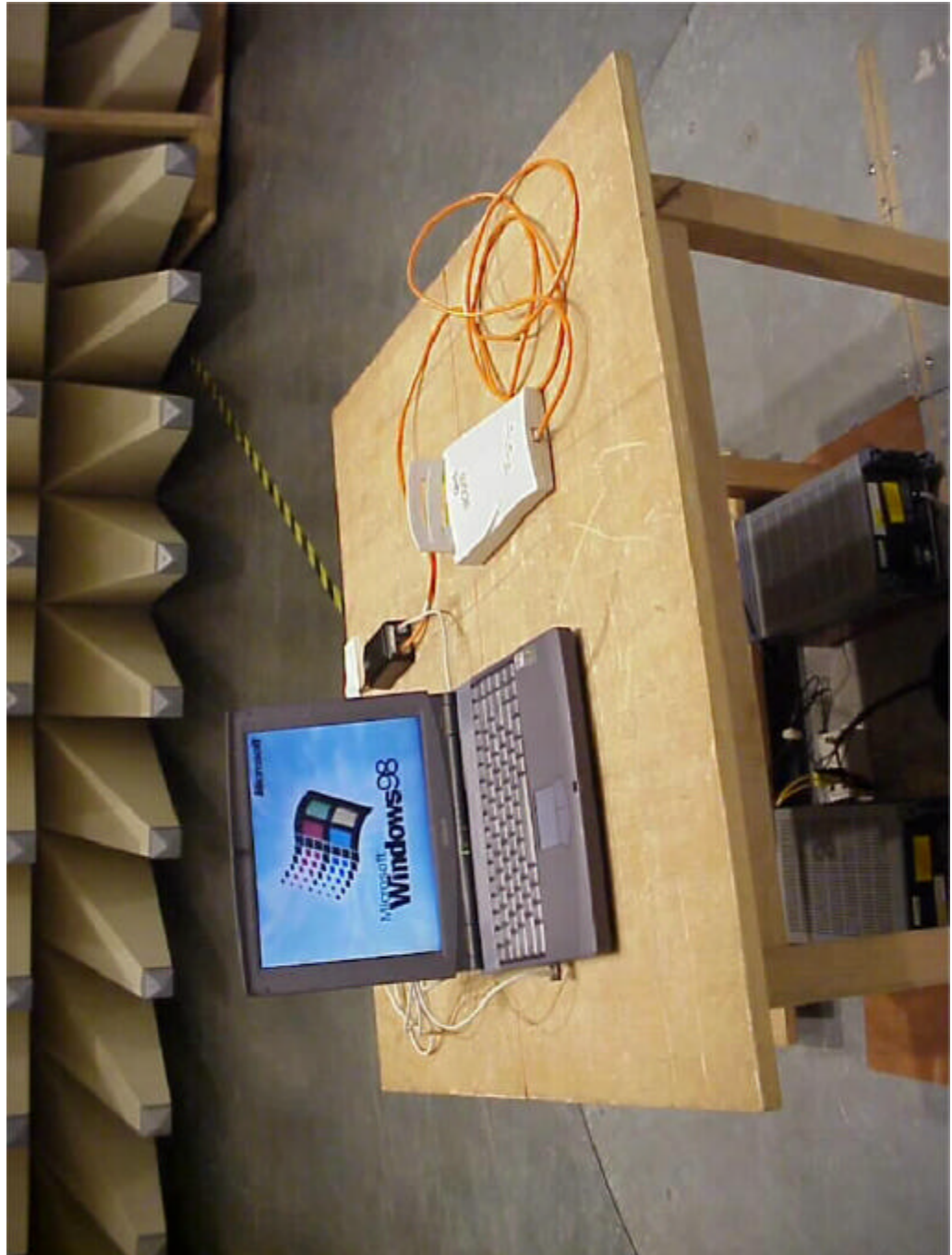
TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
36	Controler	HD 100	Deisel	100/322/93
37	Relais Matrix	PSN	Rohde & Schwarz	829 065/003
38	Control Unit	GB 016 A2	Rohde & Schwarz	344 122/008
39	Relais Switch Unit	RSU	Rohde & Schwarz	316 790/001
40	Power Supply	6032A	Hewlett Packard	2846A04063
41	Spektrum Monitor	EZM	Rohde & Schwarz	883 720/006
42	Meßempfänger	ESH 3	Rohde & Schwarz	890 174/002
43	Meßempfänger	ESVP	Rohde & Schwarz	891 752/005
44	Biconi Ant. 20-300MHz	HK 116	Rohde & Schwarz	833 162/011
45	Logper Ant. 0.3-1 GHz	HL 223	Rohde & Schwarz	832 914/010
46	Amplifier 0.1-4 GHz	AFS4	Miteq Inc.	206461
47	Logper Ant. 1-18 GHz	HL 024 A2	Rohde & Schwarz	342 662/002
48	Polarisationsnetzwerk	HL 024 Z1	Rohde & Schwarz	341 570/002
49	Double Ridge G Horn Antenne 1-26.5 GHz	3115	EMCO	9107-3696
50	Microw. Sys. Amplifier 0.5- 26.5 GHz	8317A	Hewlett Packard	3123A00105
51	Audio Analyzer	UPD	Rohde & Schwarz	1030.7500.04
52	Steuerrechner	PSM 7	Rohde & Schwarz	883 086/026
53	DC V-Netzwerk	ESH3-Z6	Rohde & Schwarz	861 406/005
54	DC V-Netzwerk	ESH3-Z6	Rohde & Schwarz	893 689/012
55	AC 2 Phasen V-Netzwerk	ESH3-Z5	Rohde & Schwarz	861 189/014
56	AC 2 Phasen V-Netzwerk	ESH3-Z5	Rohde & Schwarz	894 981/019
57	AC-3 Phasen V-Netzwerk	ESH2-Z5	Rohde & Schwarz	882 394/007
58	Stromversorgung	6032A	Rohde & Schwarz	2933A05441
59	HF-Test Empfänger	ESVP.52	Rohde & Schwarz	881 487/021
60	Spectrum Monitor	EZM	Rohde & Schwarz	883 086/026
61	HF-Test Empfänger	ESH3	Rohde & Schwarz	881 515/002
62	Relais Matrix	PSU	Rohde & Schwarz	882 943/029
63	Relais Matrix	PSU	Rohde & Schwarz	828 628/007
64	Spectrum Analyzer	FSIQ 26	Rohde & Schwarz	119.6001.27
67				

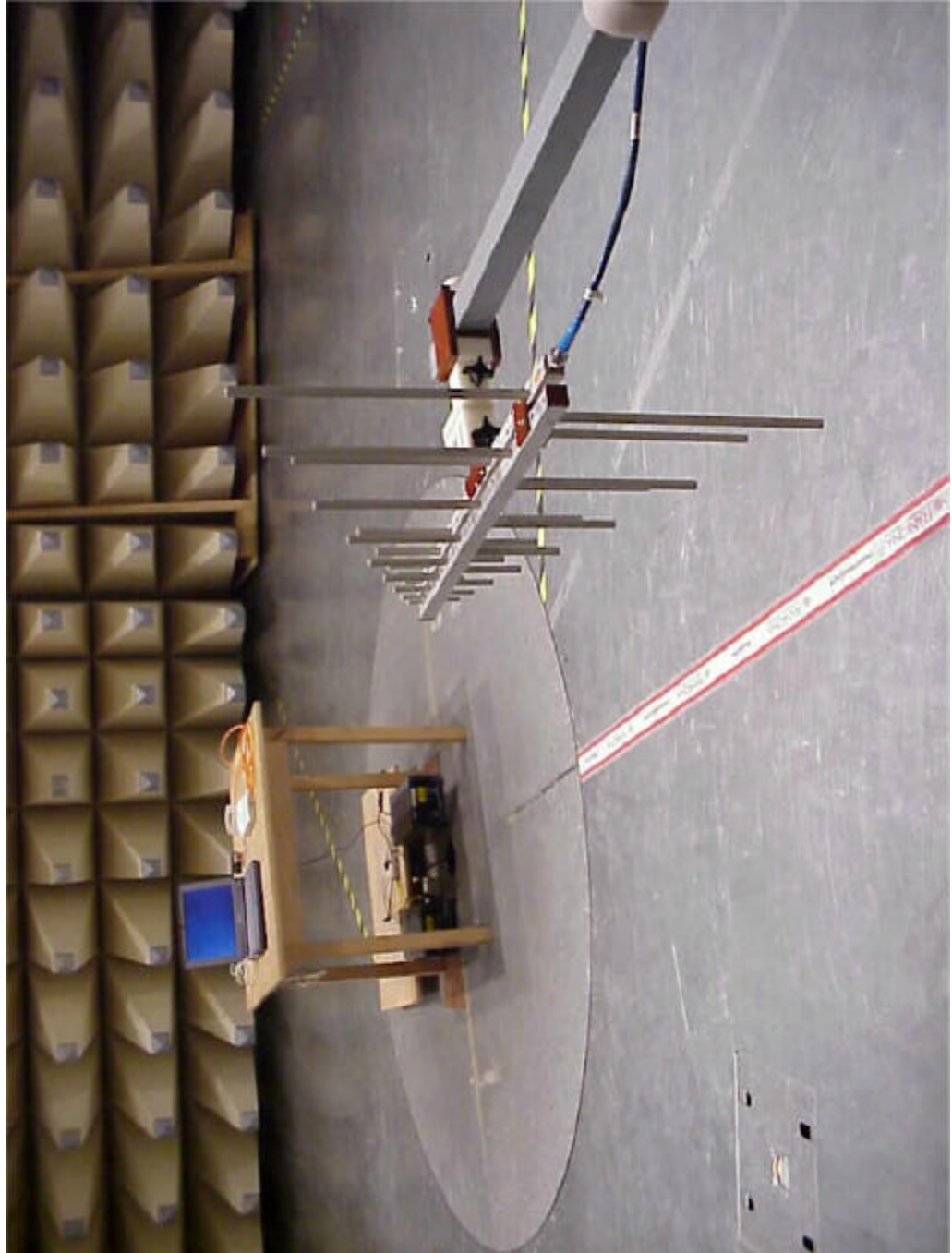
Test site
RADIATED EMISSIONS

Picture 1:



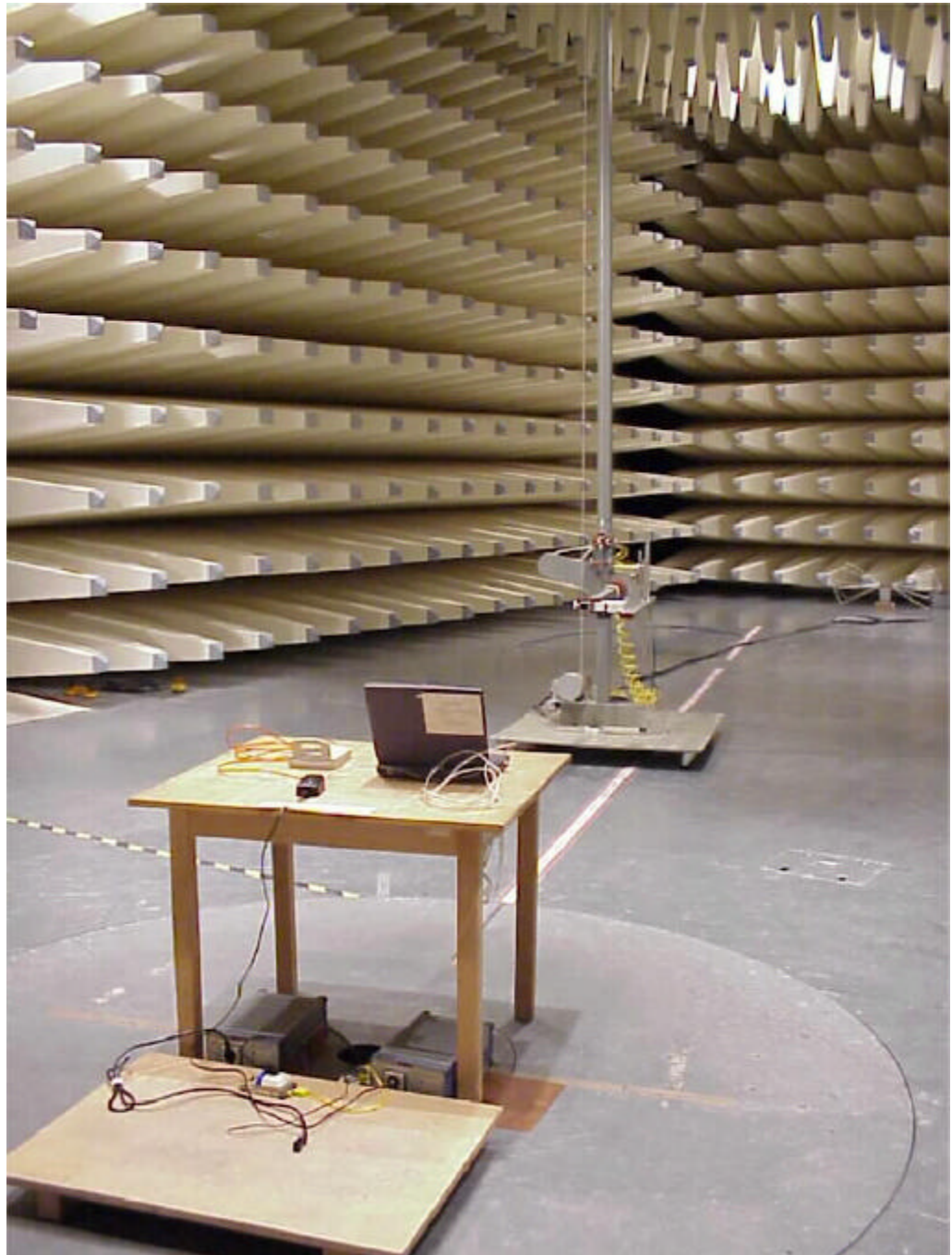
Test site
RADIATED EMISSIONS

Picture 2:



Test site
RADIATED EMISSIONS

Picture 3:



Test site
conducted emissions

Picture 4:



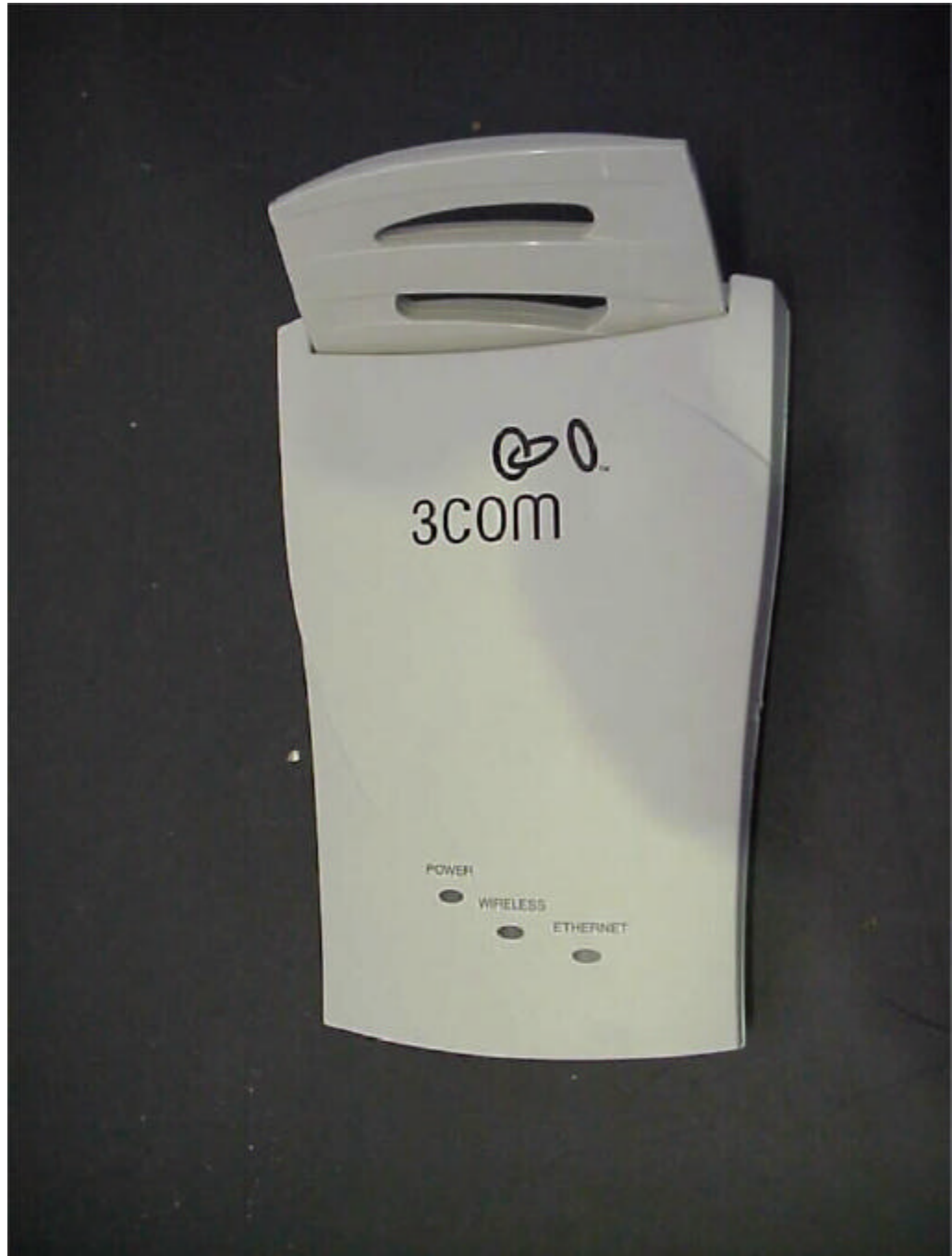
Test site
conducted emissions

Picture 5:



Wireless Access Point WL-306

Picture 6:



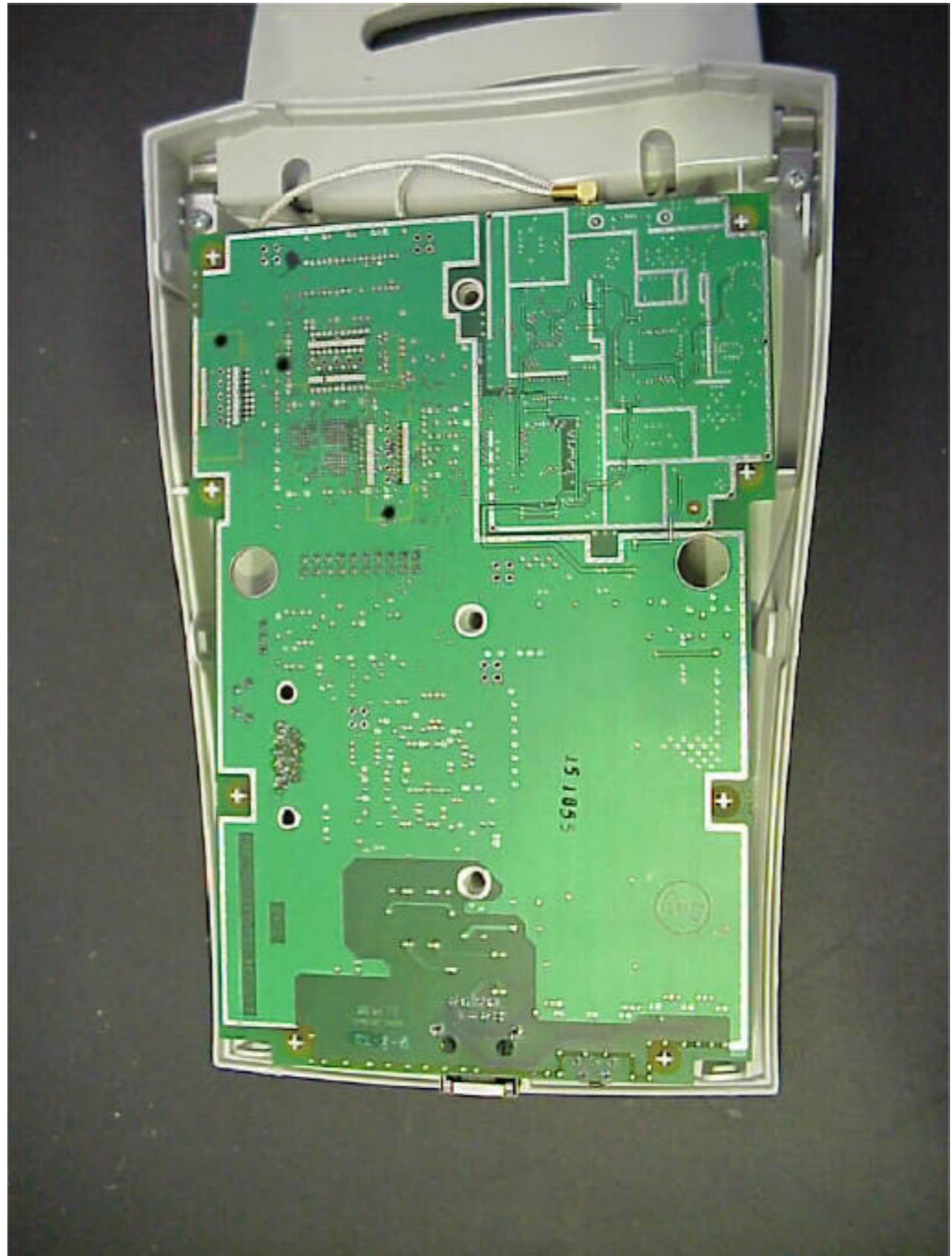
Wireless Access Point WL-306

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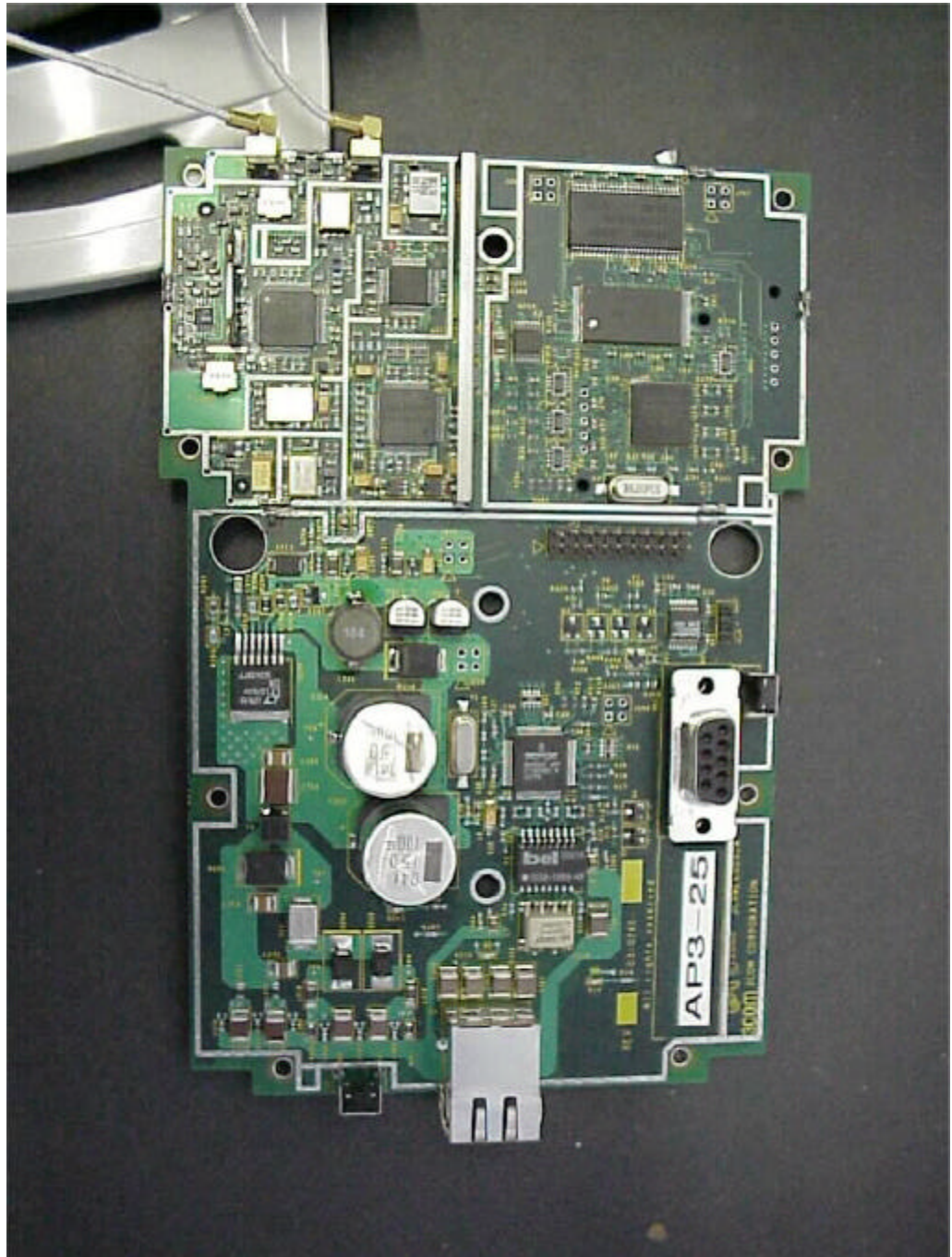
Wireless Access Point WL-306

Picture 8:



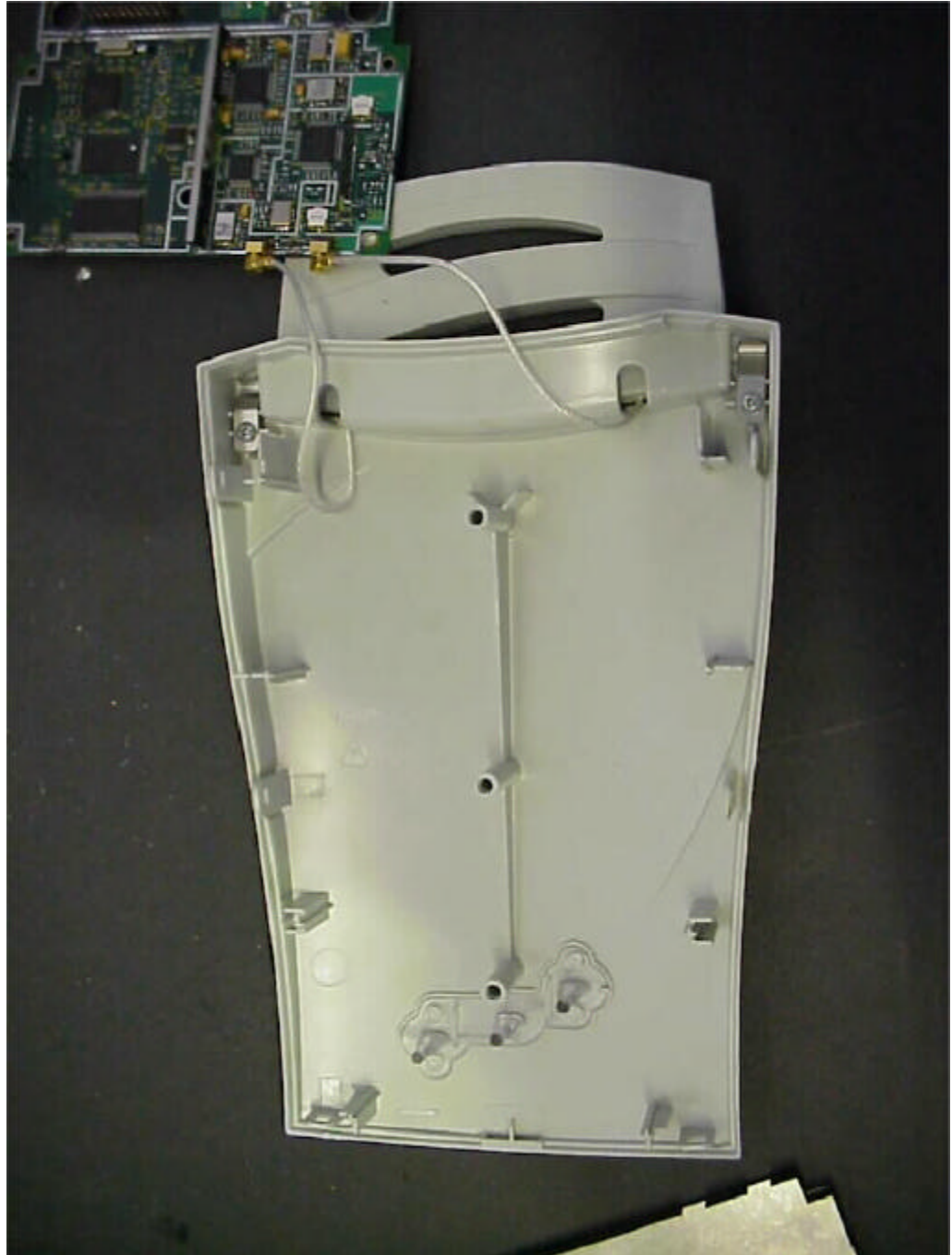
Wireless Access Point WL-306

Picture 9:



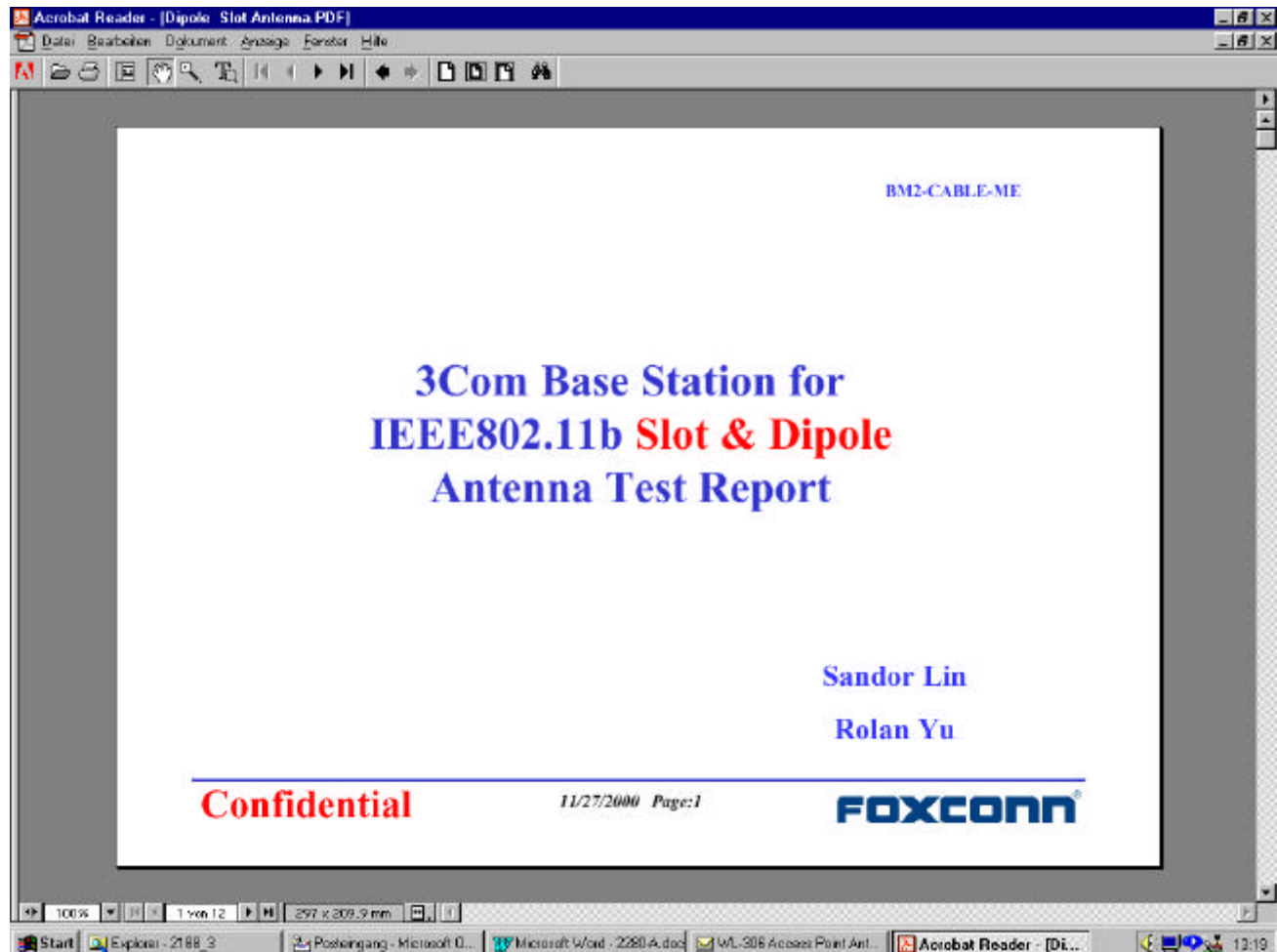
Wireless Access Point WL-306

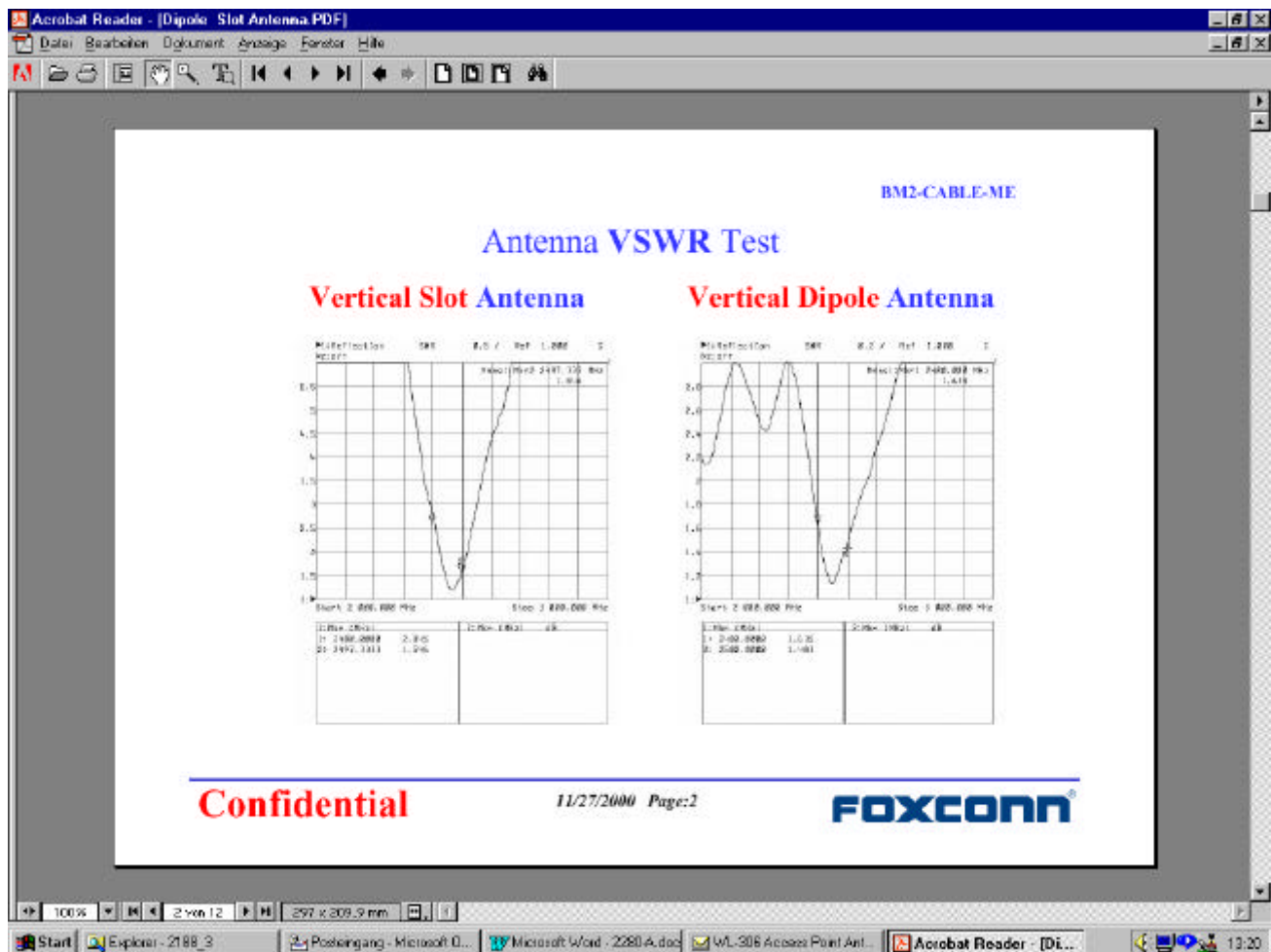
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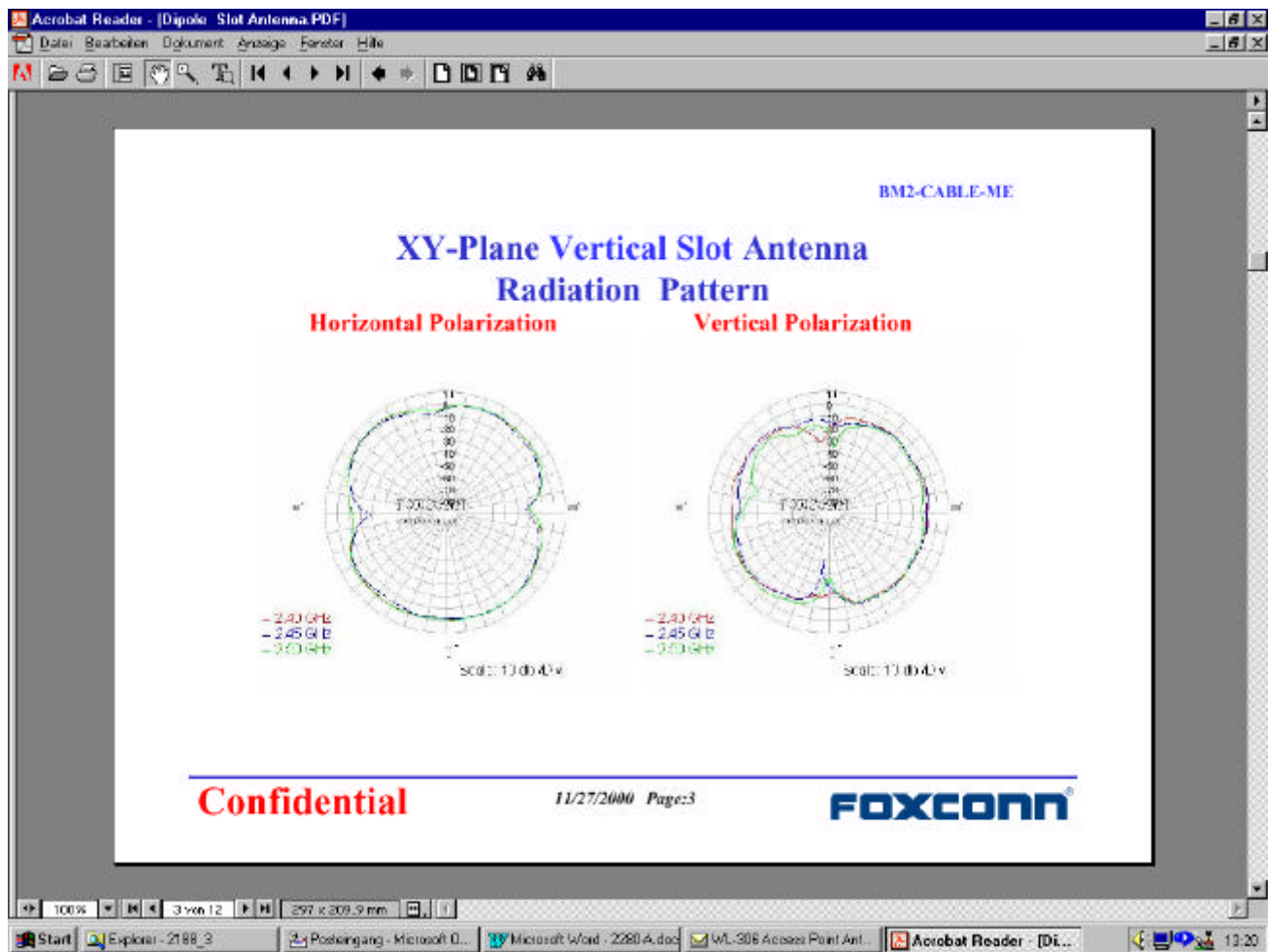


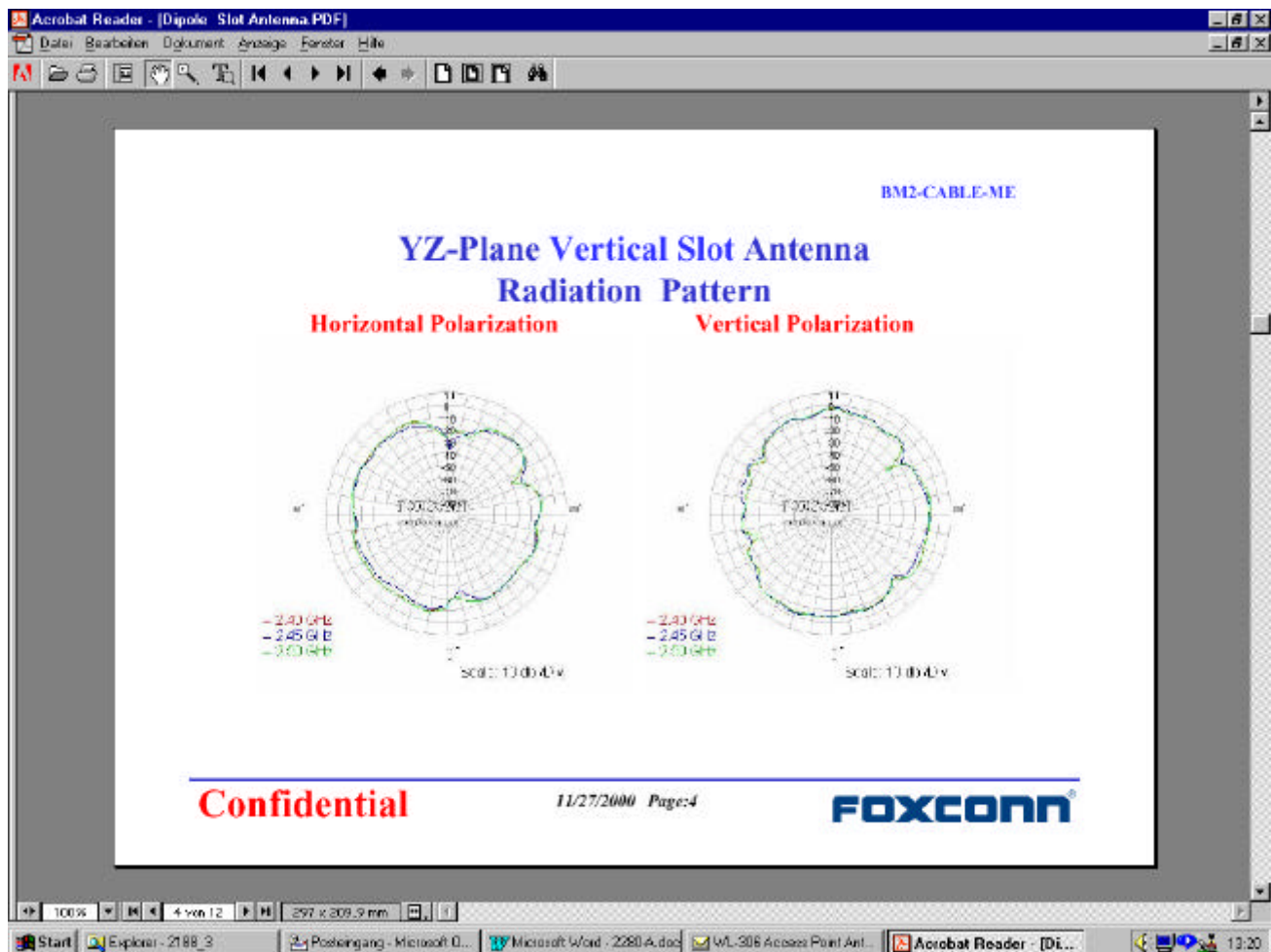
Annex 1: Antenna Gain

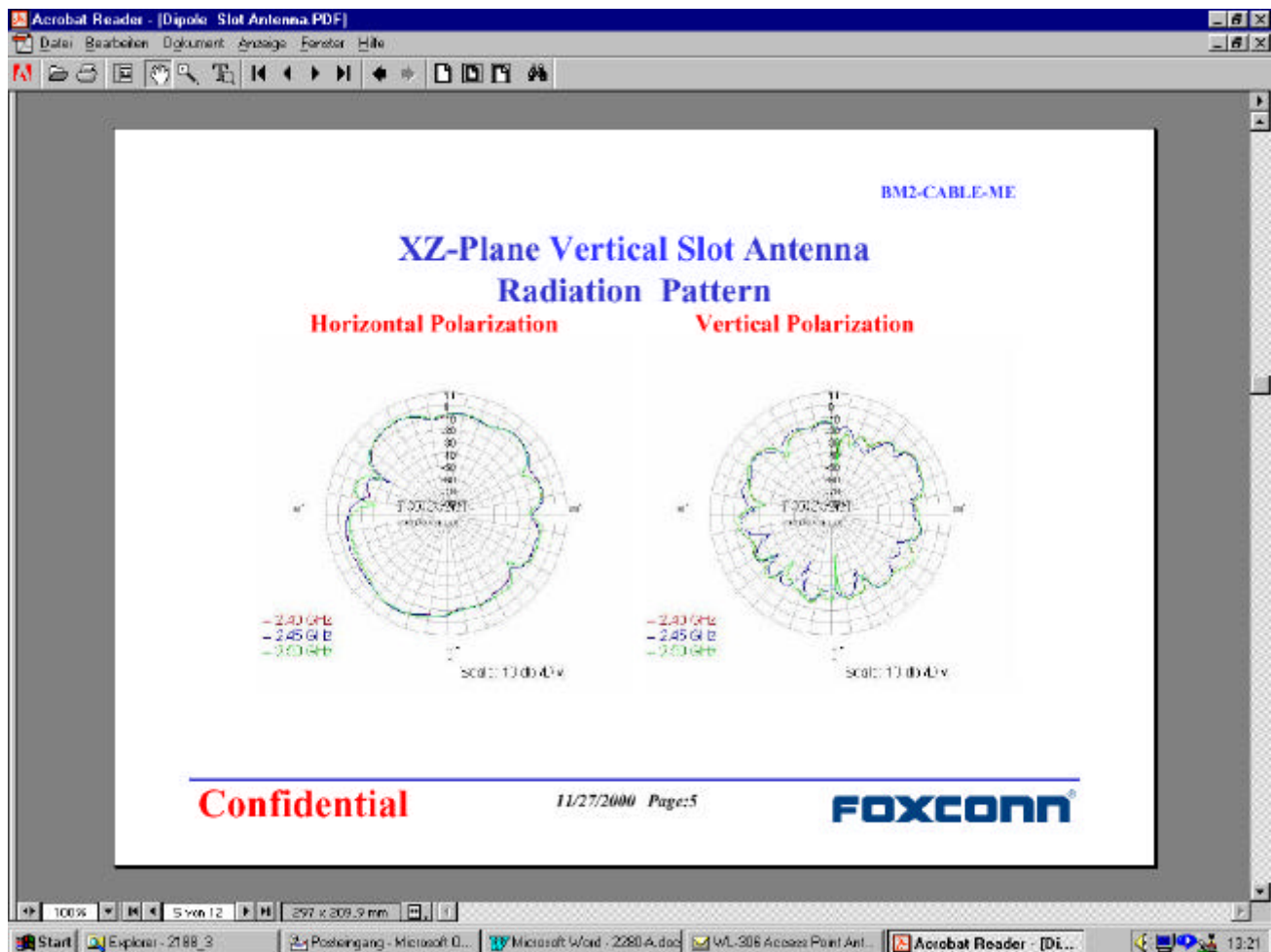
Wireless Access Point WL-306











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BM2-CABLE-ME

Vertical Slot Antenna
Total Average Gain

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-Horizontal	-1.33	-2.43	-1.13
XY-Vertical	-9.08	-9.57	-10.42
XY-Average	-0.66	-1.66	-0.65
YZ-Horizontal	-11.62	-12.91	-11.42
YZ-Vertical	-7.71	-7.49	-7.52
YZ-Average	-6.23	-6.40	-6.03
XZ-Horizontal	-6.81	-6.61	-6.88
XZ-Vertical	-15.04	-16.35	-14.82
XZ-Average	-6.20	-6.18	-6.23
Total Average Gain	-3.51	-4.15	-3.47

Confidential 11/27/2000 Page:6 FOXCONN®

100% 6 von 12 257 x 309,9 mm

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Datei Bearbeiten Dokument Ansicht Fenster Hilfe

BM2-CABLE-ME

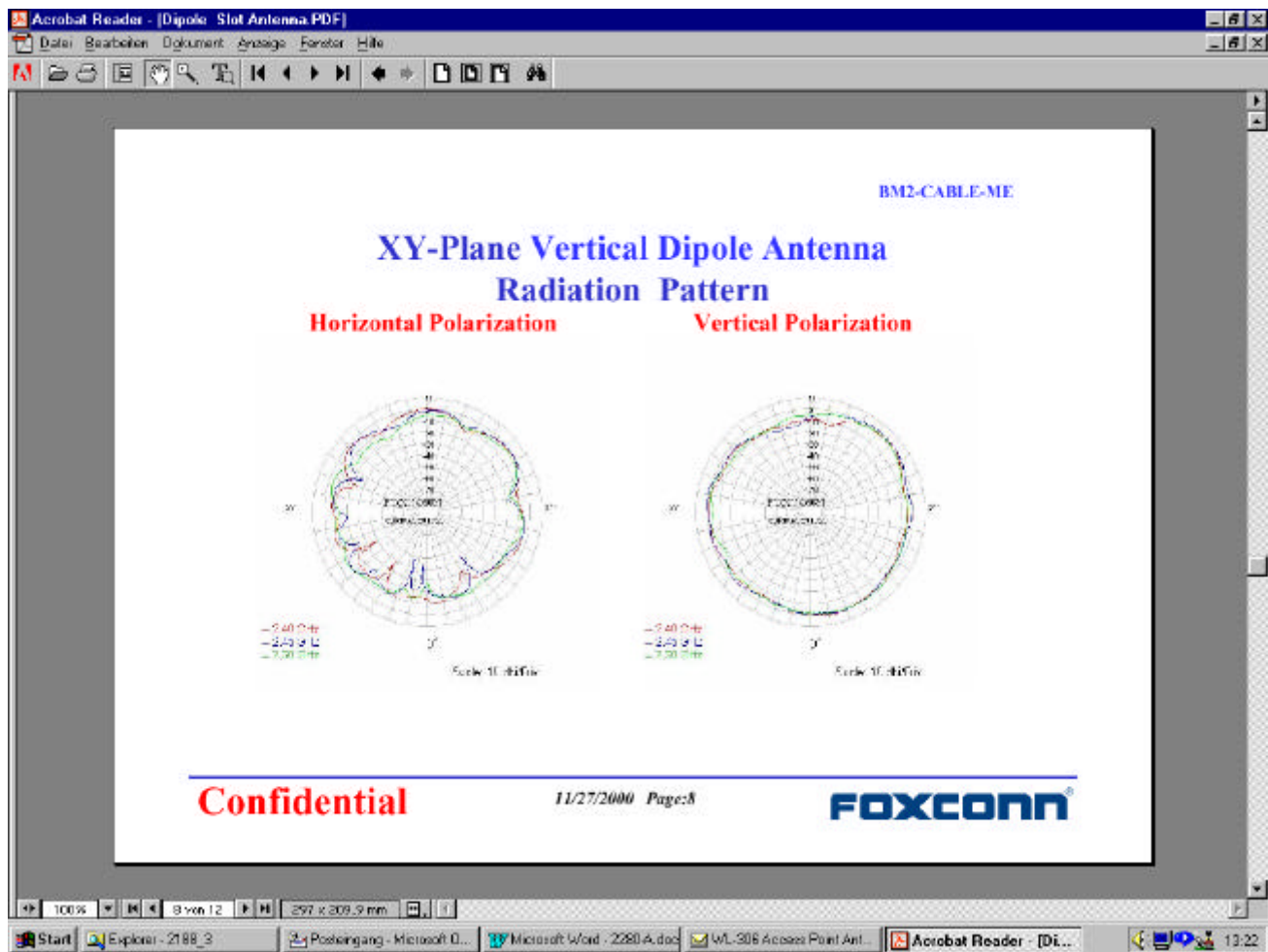
Vertical Slot Antenna Peak Gain

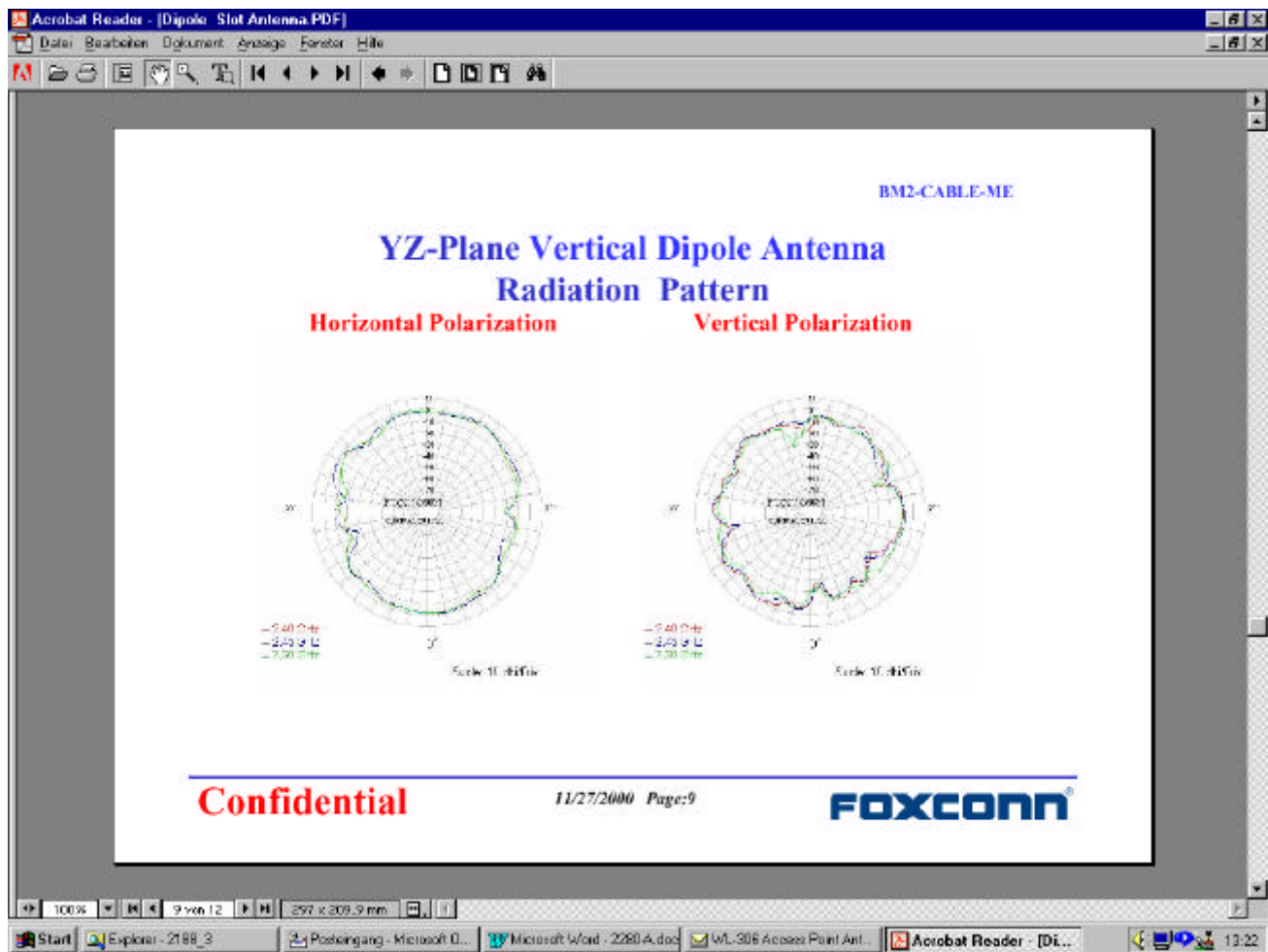
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-Horizontal	2.75	1.78	2.95
XY-Vertical	-6.39	-6.10	-5.38
YZ-Horizontal	-7.41	-7.56	-7.21
YZ-Vertical	-2.41	-1.76	-2.28
XZ-Horizontal	-0.58	-0.38	-1.20
XZ-Vertical	-5.87	-6.62	-5.65

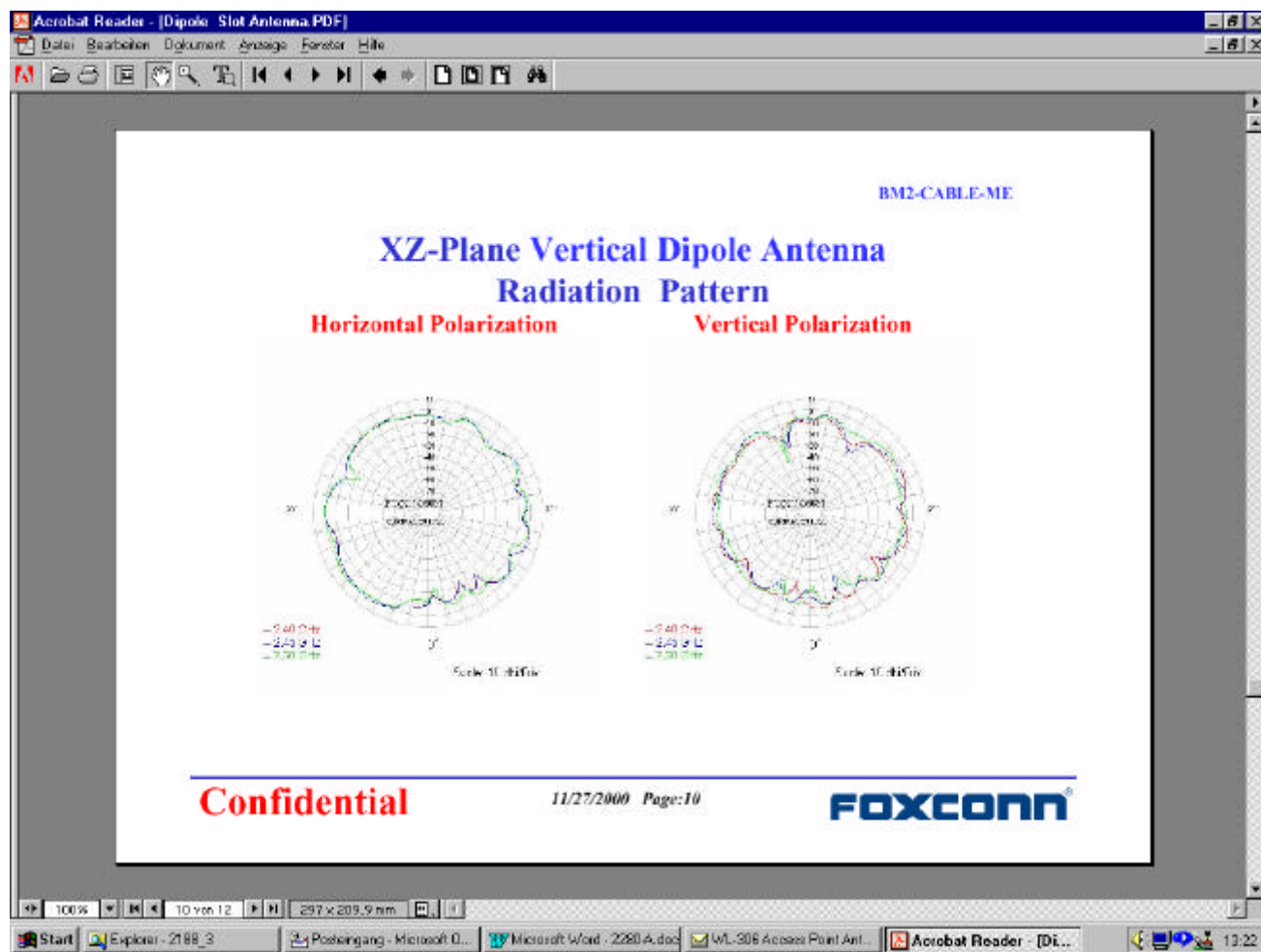
Confidential 11/27/2000 Page:7 **FOXCONN**

100% T von 12 257 x 309,9 mm

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BM2-CABLE-ME

Vertical Dipole Antenna
Total Average Gain

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-Horizontal	-6.16	-6.58	-8.33
XY-Vertical	-2.73	-1.55	-2.91
XY-Average	-1.11	-0.37	-1.81
YZ-Horizontal	-5.02	-4.19	-4.86
YZ-Vertical	-8.17	-8.34	-9.69
YZ-Average	-3.31	-2.78	-3.62
XZ-Horizontal	-3.17	-3.07	-3.22
XZ-Vertical	-7.91	-8.15	-8.25
XZ-Average	-1.91	-1.89	-2.04
Total Average Gain	-2.02	-1.56	-2.42

Confidential 11/27/2000 Page:11 **FOXCONN®**

100% 11 von 12 297 x 209,9 mm

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Acrobat Reader - [Dipole Slot Antenna.PDF]

Datei Bearbeiten Dokument Anzeige Fenster Hilfe

BM2-CABLE-ME

Vertical Dipole Antenna Peak Gain

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-Horizontal	0.18	0.19	-1.99
XY-Vertical	1.91	2.37	1.39
YZ-Horizontal	-0.24	0.86	-0.08
YZ-Vertical	-1.57	-1.58	-5.25
XZ-Horizontal	1.82	1.92	2.05
XZ-Vertical	-1.67	-3.61	-3.14

Confidential 11/27/2000 Page:12 **FOXCONN**

100% 12 von 12 297 x 209,9 mm

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