SENTON

EMV-Prüfzentrum ■ EMI/EMC-Testcenter ■

Straubing, February 22, 1999

T E S T - R E P O R T

No. 56305-90067-1

for

PC24E-T-FC

RF-modem for wireless LAN

Applicant:	Lucent Technologies Nederland B.V.
Purpose of testing:	To show compliance with FCC Code of Federal Regulations, Part 15 Subpart C, Section §15.247

Table of Contents

1. Administrative Data

Equipment Under Test (EUT):	PC24E-T-FC
Serial number(s):	84490006 (RF-modem) Sample no. 1 (external antennae)
Type of equipment:	RF-modem using DSSS technology for wireless connection for e.g. portable and mobile computers which have a PCMCIA-bus.
Parts/accessories:	• RF-modem PC24E-T-FC, part no. 010842/A • external YAGI antenna AOU24-YA-1414, Telex, part no. 011004 • external omni-directional antenna AOU24-OD-77, Maxrad, part no. 011006 • external omni-directional antenna AOU24-OD-55, Larsen, part no. 010993 (for additional information see "Configuration of EUT and Peripheral Devices" on page 8)
FCC-ID:	IMRWLPC24
Applicant: (full address)	Lucent Technologies Nederland B.V. Zadelstede 1-10 NL-3431 JZ Nieuwegein The Netherlands
Contract identification:	---
Contact person:	Mr. Wout Kerkhof
Manufacturer:	Lucent Technologies Nederland B.V.
Receipt of EUT:	December 9, 1998
Date of test:	December 10, 1998 (conducted) January 27 to February 17, 1998 (radiated)
Note:	---
Responsible for testing:	Rainer Heller
Responsible for test report:	Rainer Heller

2. Identification of Test Laboratory

Test Laboratory: (full address):	Senton GmbH EMI/EMC Test Center Aeussere Fruehlingstrasse 45 D-94315 Straubing Germany	
Contact person:	Mr. Johann Roidt	
Communication:	Telephone Fax eMail:	(+49) 0 94 21 / 55 22-0 (+49) 0 94 21 / 55 22-99 Office@senton.de
FCC file number:	31040/SIT 1300F2	
Industry Canada file number:	IC 3050	

3. Summary of Test Results

The tested samples (including accessories) comply with the requirements for

- minimum 6 dB bandwidth (§15.247.a2),
- maximum peak output power (§15.247.b),
- average power density (§15.247.d) and
- radiated emission above 1 GHz (§15.247.c, §15.205.a,b, §15.209)

set forth in the Code of Regulations Part 15 Subpart C, Section §15.247 (intentional radiators) of the Federal Communication Commission (FCC).

In addition to items listed above the tested sample in combination with external YAGI antenna AOU24-YA-1414 (setup no. 1) complies with the requirements for radiated emission in the frequency range 30 MHz to 1 GHz (§15.247.c, §15.205.a,b, §15.209)[1].

Johann Roidt
Technical Manager

Rainer Heller
Test Engineer

[1] According to applicant no tests below 1 GHz were performed for remaining two combinations (setups no. 2 and 3)

4. Operation Mode of EUT

All tests were performed using the "WaveLAN-II Engineering Test Program", Version v01.12 (Nov 13 1998). According to applicant three different kinds of modulation are used for transmission specified by the appropriate bit rate:

Transmit mode (TX):

Operating frequency [GHz]	Rated output power (conducted) [dBm]			Test performed [2]
	Bit rate 2 MBit	Bit rate 5 MBit	Bit rate 8 MBit	
2.412	+15	+12	+12	X
2.417	+15	+12	+12	
2.422	+15	+12	+12	
2.427	+15	+12	+12	
2.432	+15	+12	+12	
2.437	+15	+12	+12	
2.442	+15	+12	+12	X
2.447	+15	+12	+12	
2.452	+15	+12	+12	
2.457	+15	+12	+12	
2.462	+15	+12	+12	X

Receive mode (RX):

Operating frequency [GHz]	Test performed
2.412	
2.417	
2.422	
2.427	
2.432	
2.437	
2.442	X
2.447	
2.452	
2.457	
2.462	

Note: See next page for instructions supplied by applicant to achieve required operation mode.

[2] Full testing with bit rate 2 MBit only

INSTRUCTIONS - TEST PROGRAM

WaveLAN II Engineering Test Program, V01.12, Nov 13 1998

SETUP

- INSERT Modem
- INSERT Test Program disk
- SWITCH ON PC
- GO TO A:\
- TYPE **Cert_eng**
- **MAIN MENU** appears
- SELECT **INITIALISE** and ENTER
- INITIALISE appears for a short time, green power LED is on
- Program returns automatically to **MAIN MENU**

CHANNEL SELECTION

- SELECT **SET CHANNEL** from MAIN MENU and ENTER
- SELECT channel and ENTER (See list. Do not select channel ”0”)
- RESULTS appear
- ESC (back to **MAIN MENU**)

TX MODE

- SELECT **TX CONTINUOUS ON** from MAIN MENU and ENTER,
  SET **BIT RATE** parameters to 2, 5 or 8 MBit and ENTER
  (Modem transmits spectrum with specified bit rate on selected channel. Both LEDs are on. Check by spectrum analyzer)
- To stop transmission SELECT **RX CONTINUOUS ON / STOP** and ENTER
- To restart transmission SELECT **TX CONTINUOUS ON** and ENTER two times
- NOTE: Before changing the channel number **INITIALISE** has to be selected first. For further details see Channel Selection above.

RX MODE

- SELECT **RX CONTINUOUS ON / STOP** from MAIN MENU and ENTER
- NOTE: Before changing the channel number **INITIALISE** has to be selected first. For further details see Channel Selection above.

CHANNEL LIST

Channel ID	FCC (MHz)
01	**2412**
02	2417
03	2422
04	2427
05	2432
06	2437
07	**2442**
08	2447
09	2452
10	2457
11	**2462**

5. Configuration of EUT and Peripheral Devices

Three configurations were tested:

Setup No. 1:
RF-modem module PC24E-T-FC operating with external YAGI antenna AOU24-YA-1414 connected via 50 ft antenna cable, lightning arrestor and RF-IEEE cable and mounted in PCMCIA slot of personal computer AT & T Globalyst 550 via ISA adaptor board ISAPC-B0

Setup No. 2:
RF-modem module PC24E-T-FC operating with omni-directional antenna AOU24-OD-77 connected via 50 ft antenna cable, lightning arrestor and RF-IEEE cable and mounted in PCMCIA slot of personal computer AT & T Globalyst 550 via ISA adaptor board ISAPC-B0

Setup No. 3:
RF-modem module PC24E-T-FC operating with omni-directional antenna AOU24-OD-55 connected via 2.5 m antenna cable TBD and mounted in PCMCIA slot of personal computer AT & T Globalyst 550 via ISA adaptor board ISAPC-B0

In table 1 used accessories and host equipment are listed (with Lucent part numbers).

In combination with external antennae AOU24-YA-1414 and AOU24-OD-77 (setups no. 1 and 2) EUT is intended to be used with three versions of antenna cables. Depending on antenna cable the effective antenna gain is calculated by subtracting the appropriate total insertion loss including attenuation caused by RF-IEEE cable and lightning arrestor from the typical gain of appropriate external antenna (see tables 2 and 3).

To combine maximum effective antenna gain with maximum length (with priority on gain) 50 ft cable was selected for testing.

Item	Part no.	Serial no.	Designation	Manufacturer
RF-modem	010842/A	84490006	PC24E-T-FC	Lucent
External YAGI antenna	011004	Sample no. 1	AOU24-YA-1414	Telex
External omni-directional antenna	011006	Sample no. 1	AOU24-OD-77	Maxrad
External omni-directional antenna	010993	Sample no. 1	AOU24-OD-55	Larsen
Coaxial antenna cable 3/8", 50 ft	010317	---	--- (cable type TWB 4001, N connector (male) on each side)	Amphenol
RF-IEEE cable, 50 cm (to be connected to RF-modem)	010995	---	--- (cable type Filotex P - EDE 296769, N connector (male) on antenna side	Lucent
Antenna cable, 2.5 m (to be connected to RF-modem)	TBD	---	--- (cable type Filotex P - EDE 296769, N connector (male) on antenna side)	Lucent
Lightning arrestor	010997	---	---	Hyperlink
Personal computer	---	17-26190719	Globalyst 550	AT & T
ISA adaptor board	010053	B2-8	ISAPC-B0	Lucent

Table 1: Accessories and host equipment

Part number	Antenna cable length	Type	Antenna gain AOU24-YA-1414 [dBi]	Total insertion loss [dB]	Effective antenna gain [dBi]
010999	20 ft	LMR200	13.5	4.5	9.0
010317	50 ft	LMR400	13.5	4.5	9.0
011002	75 ft	LMR400	13.5	5.3	8.2

Table 2: Effective gain for external antenna AOU24-YA-1414 and different antenna cables

Part number	Antenna cable length	Type	Antenna gain AOU24-OD-77 [dBi]	Total insertion loss [dB]	Effective antenna gain [dBi]
010999	20 ft	LMR200	7.0	4.5	2.5
010317	50 ft	LMR400	7.0	4.5	2.5
011002	75 ft	LMR400	7.0	5.3	1.7

Table 3: Effective gain for external antenna AOU24-OD-77 and different antenna cables

6. Setup of Host

Configuration of cables of host

- Unshielded power lines for AC-power supply of personal computer and monitor, Kawasaki, 180 cm
- Shielded video cable 3138 118 73410 connected to video interface of personal computer, AWM, 170 cm, Senton inv.-no. 1455
- Shielded data cable connected to parallel interface of personal computer, Inmac, 150 cm, Senton inv.-no. 1387
- Shielded data cable connected to serial interface of personal computer, Senton, 220 cm, Senton inv.-no. 1401

Configuration of host and peripheral devices

- Personal computer AT & T Globalyst 550:
  Serial no.: 17-26190719 FCC-ID: CTD3246
- Lucent ISA-card ISAPC-B0:
  Serial no.: B2-8
- Monitor Siemens S26361-K203-V311:
  Serial no.: 17569281 FCC-ID: ASIC3X2
- PS/2-keyboard HP C1405A #ABD:
  Serial no.: 3221S30020 FCC-ID[3]: B94VECTRA386S-20
- PS/2-mouse HP C1413A:
  Serial no.: 3227M01197 FCC-ID: B94C1413X
- Parallel printer HP ThinkJet 2225C+:
  Serial no.: 3106S91193 FCC-ID: DSI6XU2225
  with power supply Hayes 52-00008
  Serial no.: 9028A
- Serial printer HP ThinkJet 2225D+:
  Serial no.: 2920S44042 FCC-ID: DSI6XU2225
  with power supply Hayes 52-00008
  Serial no.: 9033A

[3] FCC-ID of corresponding personal computer

7. Measuring Methods

7.1. Minimum 6 dB Bandwidth (§ 15.247.a2)

The minimum 6 dB bandwidth was measured with a spectrum analyzer connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.
The spectrum analyzer was set to:
RBW = 100 kHz, VBW = 100 kHz, span = 50 MHz, sweep = 20 ms
See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):
02, 18, 57, 67, 68

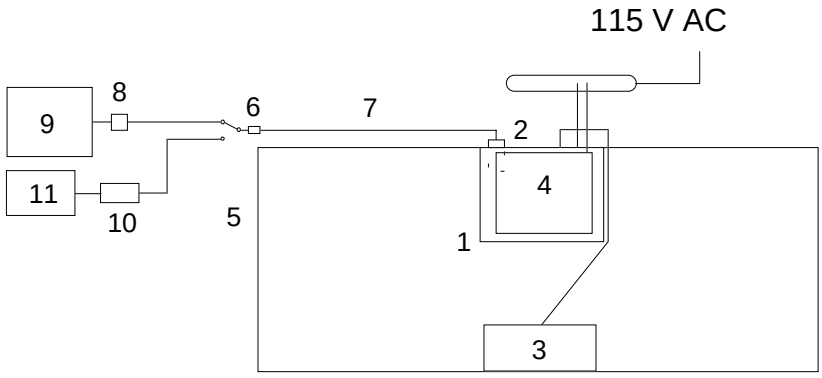


Figure 1: Measurement setup for testing on antenna connector

1 Personal computer with ISA-card
2 RF-modem
3 Keyboard
4 Monitor
5 Wooden table
6 DC-block
7 Adapter cable
8 Attenuator
9 Spectrum analyzer
10 Power sensor
11 Power meter

7.2. Maximum Peak Output Power (§ 15.247.b)

The maximum peak output power was measured with a power meter connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.
A spectrum analyzer (set to RBW = 100 kHz, VBW = 100 kHz, span = 100 MHz, sweep = 40 ms) was used to record the shape of the transmit signal.
See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):
02, 08, 09, 18, 67, 68

7.3. Average Power Density (§ 15.247.d)

The average power density was measured with a spectrum analyzer connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.
The spectrum analyzer was set to max hold with
RBW = 3 kHz, VBW = 100 kHz, span = 300 kHz, sweep = 100 s
See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):
02, 18, 57, 67, 68

7.4. Radiated Emission 30 MHz - 1 GHz (§15.209, §15.247.c, §15.205.a,b)

Radiated emissions were measured over the frequency range from 30 MHz to 1 GHz. The bandwidth of the EMI-receiver was set to 120 kHz and the detector-function was set to CISPR quasi-peak.
The test setup was made in accordance with ANSI C63.4-1992. Measurements were made in both the horizontal and vertical planes of polarization. Preliminary scans were taken in a semi-anechoic room using a spectrum analyzer with the detector function set to peak. All tests were performed at a test-distance of 3 meters. For final testing an open-area test-site was used. During the tests the EUT was rotated all around and the receiving-antenna was raised and lowered from 1 meter to 4 meters 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.
See figure 2 for the measurement setup.

Test equipment used (see equipment list for details):
01, 06, 12, 38, 39, 40, 41, 58, 61, 64, 66

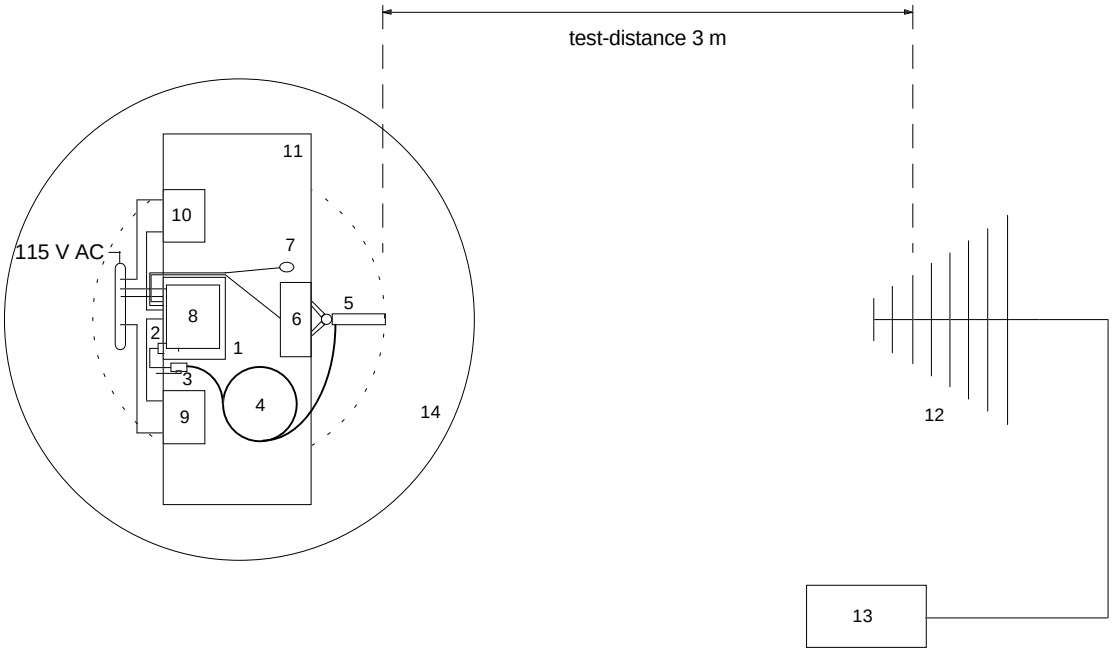


Figure 2: Measurement setup no. 1 for radiated emission test below 1 GHz

1 Personal computer with ISA-card
2 RF-modem
3 Lightning arrestor with ground connection
4 Antenna cable
5 RF-antenna (2.4 GHz) mounted on metal tripod
6 Keyboard
7 Mouse
8 Monitor
9 Parallel printer
10 Serial printer
11 Wooden table
12 Measurement antenna
13 Test receiver
14 Turn table

7.5. Radiated Emission 1 GHz - 25 GHz (§15.209, §15.247.c, §15.205.a,b)

Radiated emissions were measured in the frequency range 1 GHz to 25 GHz in transmit mode and 1 GHz to 12.5 GHz in receive mode. The resolution bandwidth of the spectrum analyzer was set to 1 MHz. Scans for the whole frequency range were taken with video bandwidth set to 1 MHz to check out the highest peak levels. In case of less margin to average limit additional prescans were made with video bandwidth reduced from 1 MHz to 100 kHz, 30 kHz or 10 kHz. Final measurements were performed at the critical frequencies with video bandwidth of the spectrum analyzer set to 100 Hz (average mode). EUT was rotated all around and receiving antenna was raised and lowered to find the maximum levels of emission. Cables and equipment were placed and moved within the range of position likely to find their maximum emissions.
All tests were performed in a semi-anechoic chamber with a test-distance of 3 meters (except for the frequency range 18 GHz - 25 GHz where test distance was reduced to 0.5 meter).
To avoid overload in transmit mode no preamplifier was used between 1 GHz and 3.95 GHz. Above 3.95 GHz tests were performed with appropriate preamplifiers (attenuation of operating frequency by horn antenna is sufficient to avoid overload of preamplifier).
For receive mode appropriate preamplifiers were used for the whole frequency range.
To eliminate variations in amplification of the preamplifiers a signal generator was used for substitution (however, during testing a correction according to the minimum amplification was added).

Substitution was performed in the following steps:

- antenna cable was disconnected from receiving antenna and connected to signal generator output
- level of signal generator was increased until the reading value of the analyzer was the same as caused by EUT
- level of signal generator was noted
- final value was calculated by converting the signal generator level to dBµV/m and adding the antenna correction factor.

See figures 3 and 4 for the measurement setups.

Test equipment used (see equipment list for details):
02, 13, 14, 16, ,42, 43, 44, 45, 46, 47, 48, 49, 57, 64

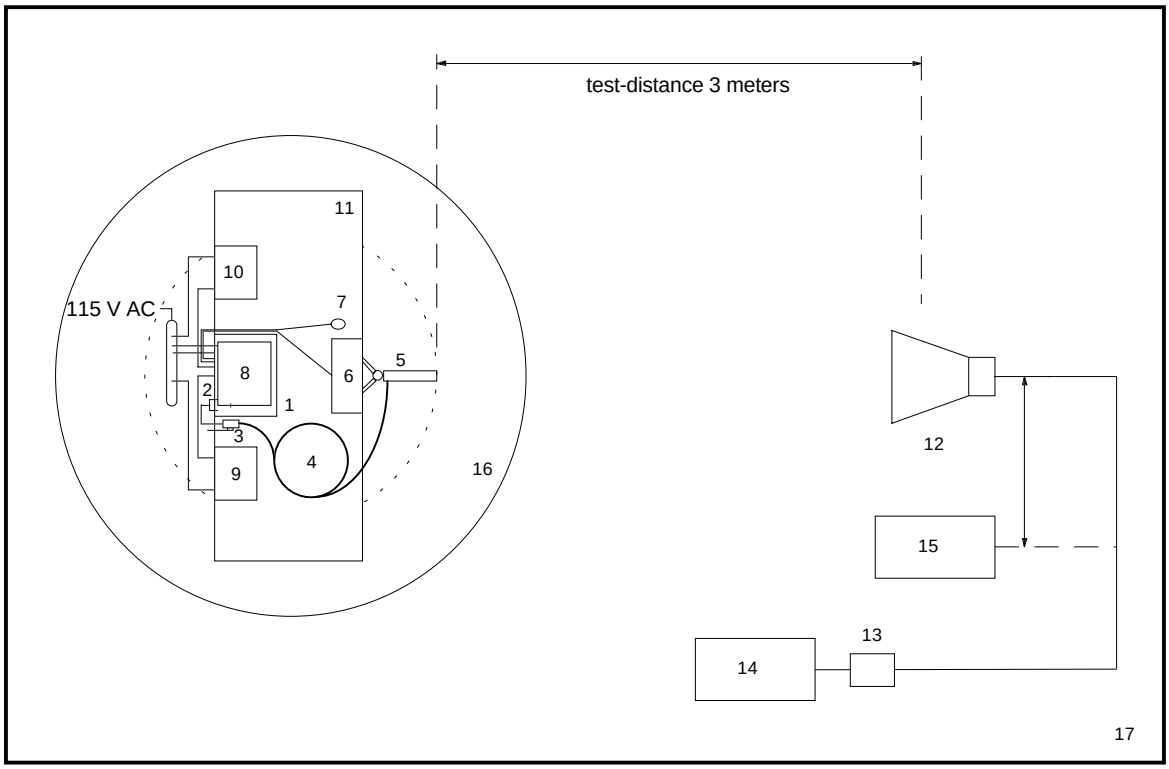


Figure 3: Measurement setup no. 1 for radiated emission test above 1 GHz

1 Personal computer with ISA-card
2 RF-modem
3 Lightning arrestor with ground connection
4 Antenna cable
5 RF-antenna (2.4 GHz) mounted on metal tripod
6 Keyboard
7 Mouse
8 Monitor
9 Parallel printer
10 Serial printer
11 Wooden table
12 Measurement antenna
13 Preamplifier (if applicable)
14 Spectrum analyzer
15 Signal generator
16 Turn table
17 Semi-anechoic room

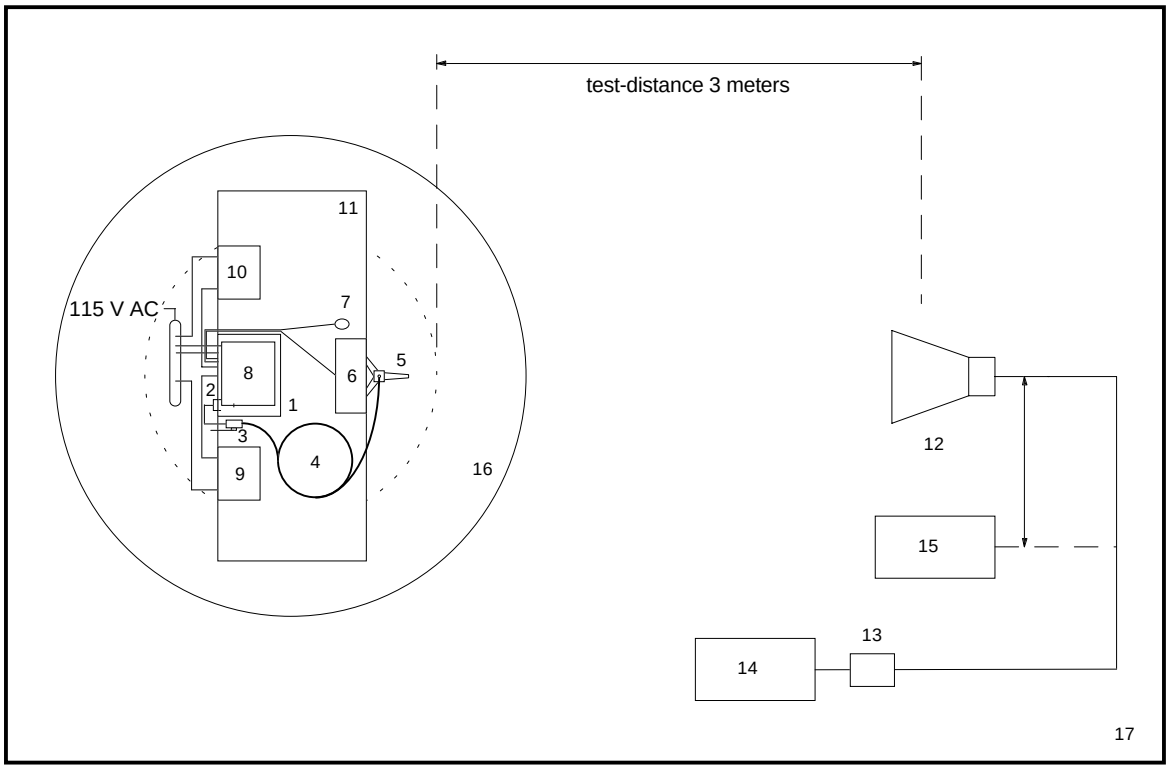


Figure 4: Measurement setup no. 2 for radiated emission test above 1 GHz

1 Personal computer with ISA-card
2 RF-modem
3 Lightning arrestor with ground connection
4 Antenna cable
5 RF-antenna (2.4 GHz) mounted on wooden tripod
6 Keyboard
7 Mouse
8 Monitor
9 Parallel printer
10 Serial printer
11 Wooden table
12 Measurement antenna
13 Preamplifier (if applicable)
14 Spectrum analyzer
15 Signal generator
16 Turn table
17 Semi-anechoic room

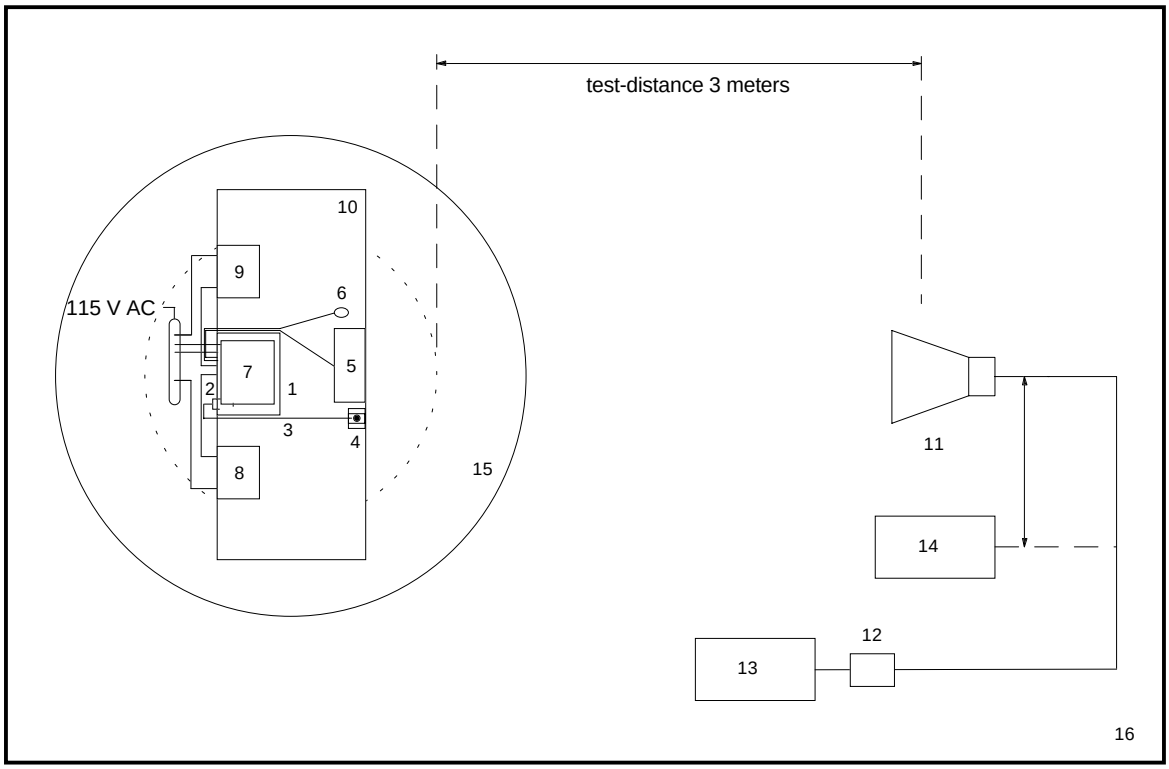


Figure 5: Measurement setup no. 3 for radiated emission test above 1 GHz

1 Personal computer with ISA-card
2 RF-modem
3 Antenna cable
4 RF-antenna (2.4 GHz) mounted on wooden pedestal
5 Keyboard
6 Mouse
7 Monitor
8 Parallel printer
9 Serial printer
10 Wooden table
11 Measurement antenna
12 Preamplifier (if applicable)
13 Spectrum analyzer
14 Signal generator
15 Turn table
16 Semi-anechoic room

8. Equipment List

To facilitate reference to test equipment used for related tests, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory.

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	R 3271	05050023	Advantest
02	EMI Test Receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
03	Test Receiver	ESH 3	880112/032	Rohde & Schwarz
04	Test Receiver	ESHS 10	860043/016	Rohde & Schwarz
05	Test Receiver	ESV	881414/009	Rohde & Schwarz
06	Test Receiver	ESVP	881120/024	Rohde & Schwarz
07	Audio Analyzer	UPA	862954	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Power Sensor	NRV-Z52	837901/030	Rohde & Schwarz
10	Power Sensor	NRV-Z4	863828/015	Rohde & Schwarz
11	Preamplifier	ESV-Z3	860907/004	Rohde & Schwarz
12	Preamplifier	R14601		Advantest
13	Preamplifier	ACX/080-3030	32640	CTT
14	Preamplifier	ACO/180-3530	32641	CTT
15	Signal Generator	SMS	872166/039	Rohde & Schwarz
16	Signal Generator	HP 8673 D	2930A00966	Hewlett Packard
17	Waveform Generator	HP 33120 A	US34005375	Hewlett Packard
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda
20	Pulse Limiter	ESH 3-Z2	1144	Rohde & Schwarz
21	Pulse Limiter	11947 A	3107A00566	Hewlett Packard
22	V-Network	ESH 3-Z5	862770/018	Rohde & Schwarz
23	V-Network	ESH 3-Z5	894785/005	Rohde & Schwarz
24	V-Network	ESH 3-Z5	830952/025	Rohde & Schwarz
25	V-Network	ESH 3-Z6	830722/010	Rohde & Schwarz
26	V-Network	NSLK 8127	8127152	Schwarzbeck
27	V-Network	NNLA 8119	8119148	Schwarzbeck
28	V-Network	SE 01	01	Senton
29	T-Network	ESH 3-Z4	890602/011	Rohde & Schwarz
30	T-Network	ESH 3-Z4	890602/012	Rohde & Schwarz
31	High Impedance Probe	TK 9416	01	Schwarzbeck
32	High Impedance Probe	TK 9416	02	Schwarzbeck
33	Current Probe	ESH 2-Z1	863366/18	Rohde & Schwarz
34	Current Probe	ESV-Z1	862553/3	Rohde & Schwarz

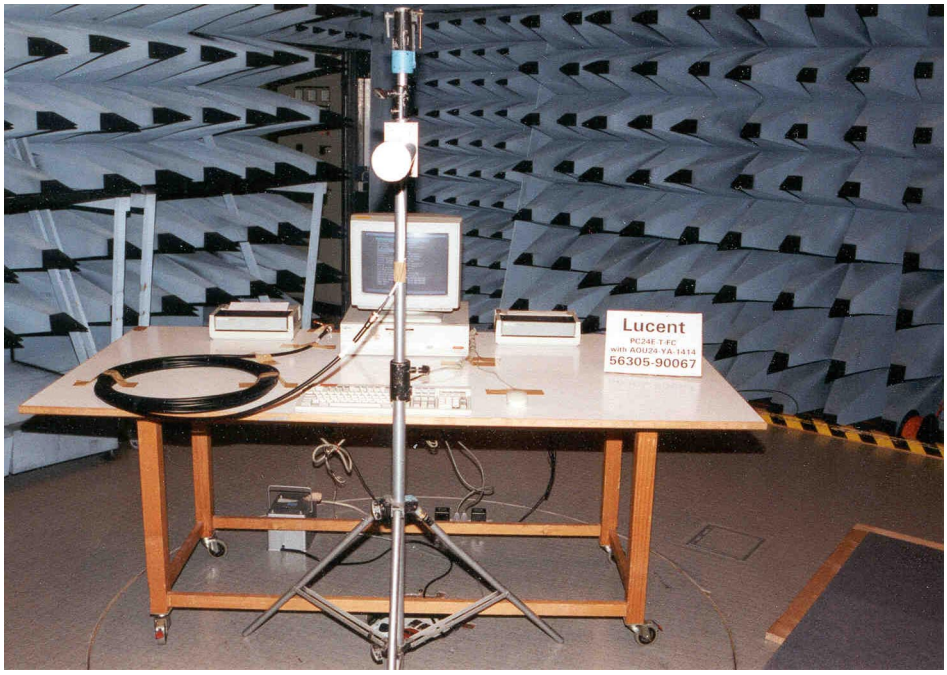
No.	Type	Model	Serial Number	Manufacturer
35	Absorbing Clamp	MDS 21	80911	Lüthi
36	Absorbing Clamp	MDS 21	79690	Lüthi
37	Loop Antenna	HFH2-Z2	882964/1	Rohde & Schwarz
38	Biconical Antenna	HK 116	842204/001	Rohde & Schwarz
39	Biconical Antenna	HK 116	836239/02	Rohde & Schwarz
40	Log. Periodic Antenna	HL 223	841516/023	Rohde & Schwarz
41	Log. Periodic Antenna	HL 223	834408/12	Rohde & Schwarz
42	Horn Antenna	3115	9508-4553	Emco
43	Horn Antenna	3160-03	9112-1003	Emco
44	Horn Antenna	3160-04	9112-1001	Emco
45	Horn Antenna	3160-05	9112-1001	Emco
46	Horn Antenna	3160-06	9112-1001	Emco
47	Horn Antenna	3160-07	9112-1008	Emco
48	Horn Antenna	3160-08	9112-1002	Emco
49	Horn Antenna	3160-09	9403-1025	Emco
50	Digital multimeter	199	463386	Keithley
51	DC Power Supply	NGSM 32/10	203	Rohde & Schwarz
52	DC Power Supply	NGB	2455	Rohde & Schwarz
53	DC Power Supply	NGA	386	Rohde & Schwarz
54	Temperature Test Chamber	HT4010	07065550	Heraeus
55	Cable	RG214	1309	Senton
56	Cable	200CM_001	1357	Rosenberger
57	Cable	150CM_001	1479	Rosenberger
58	Cable Set EG1	RG214	1189 - 1191	Senton
59	Cable Set Cabine 1	RG214		Senton
60	Cable Set Cabine 2	RG214		Senton
61	Cable Set Cabine 3	RG214		Senton
62	Shielded Room	No. 1	1451	Senton
63	Shielded Room	No. 2	1452	Senton
64	Semi-anechoic Chamber	No. 3	1453	Siemens
65	Shielded Room	No. 4	1454	Euroshield
66	Open Area Test Site	EG 1		Senton
67	Cable for Antenna Connector			Lucent Technologies
68	DC Block 0.01-18GHz		8037	Inmet Corp.
69	High pass filter			Lucent Technologies

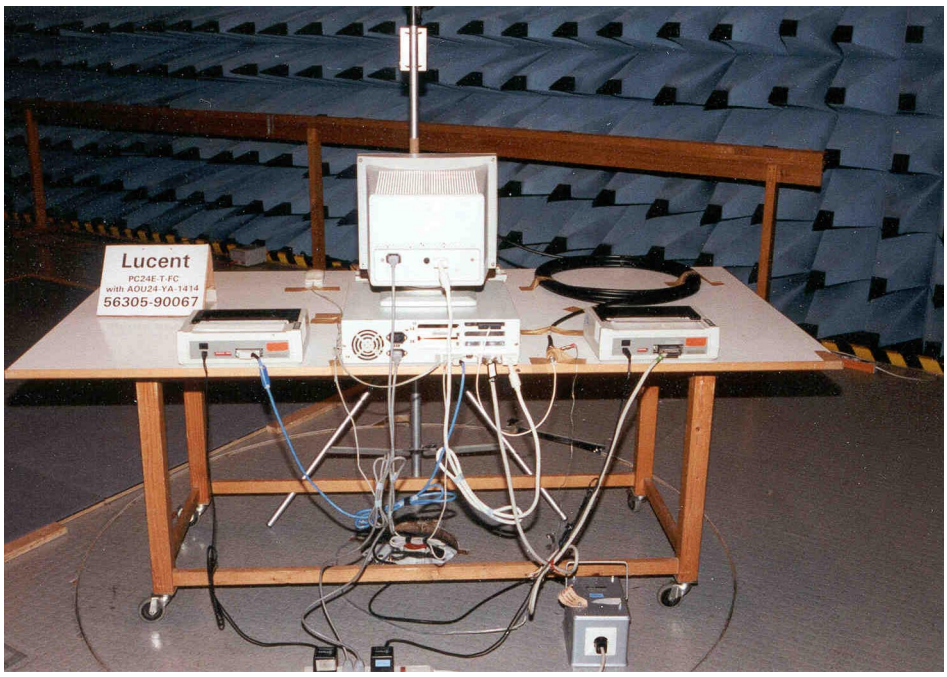
9. Photographs Taken During Testing

9.1. Photographs Of Test Setup No. 1

Photos No. 9.1.1 - 9.1.2

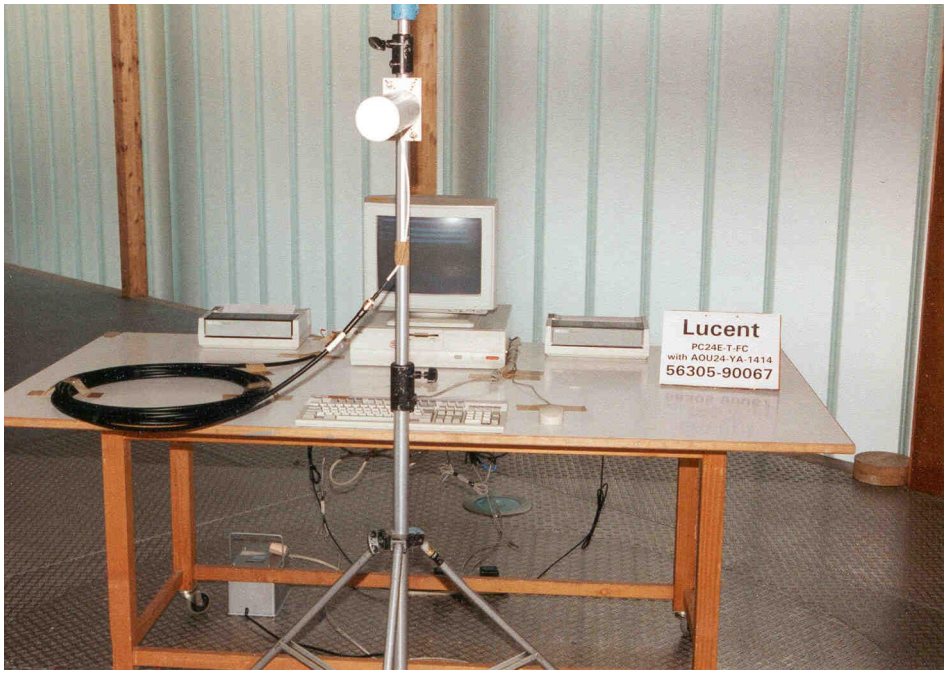
Test setup no. 1 for radiated emission pre-test 30 MHz - 1 GHz (semi anechoic room)

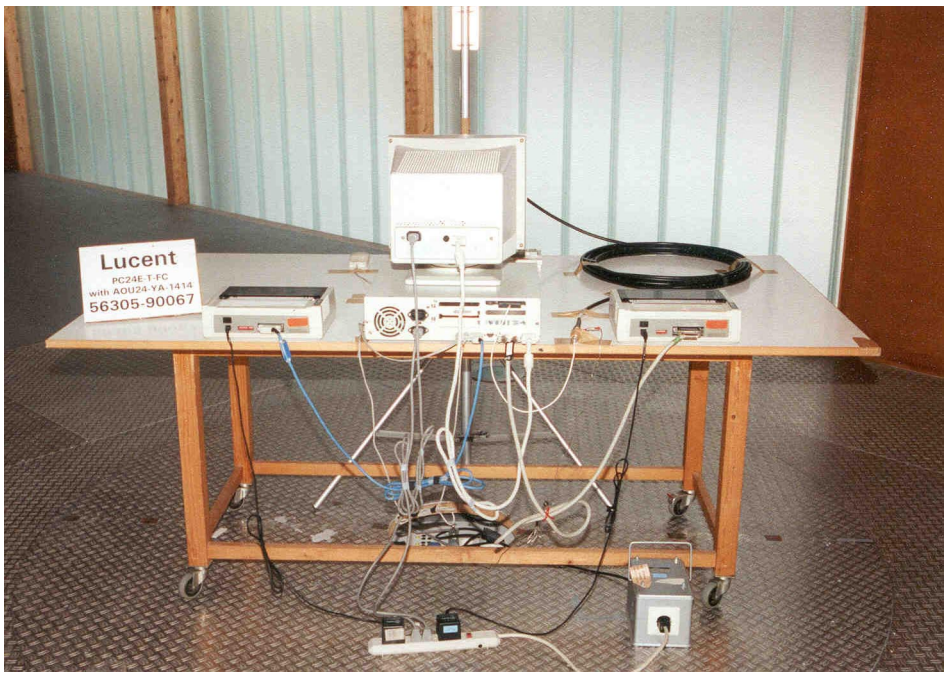




Photos No. 9.1.3 - 9.1.4

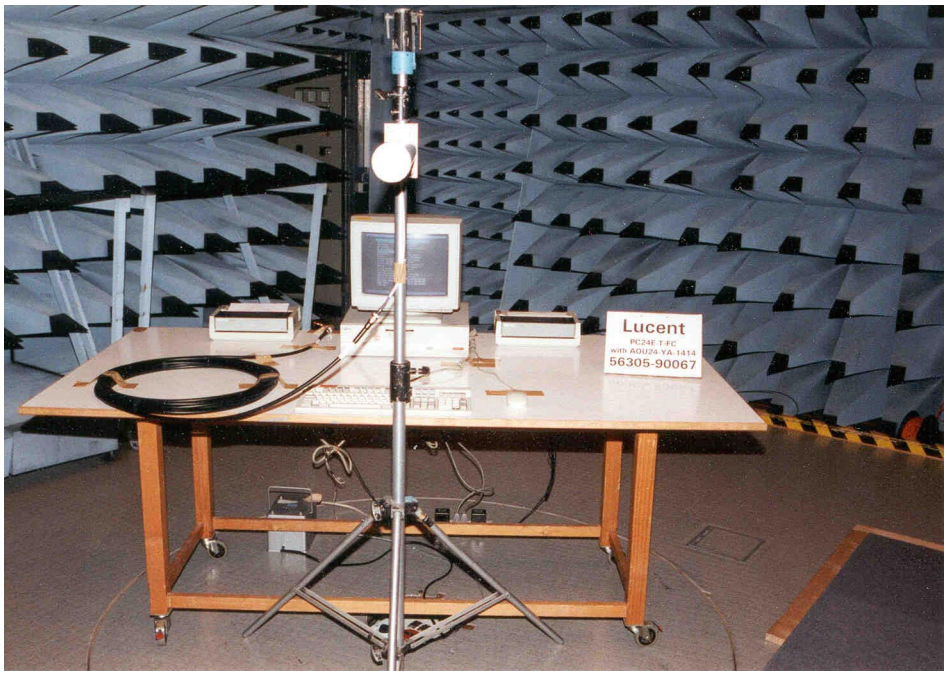
Test setup no. 1 for radiated emission final test 30 MHz - 1 GHz (open area test site)

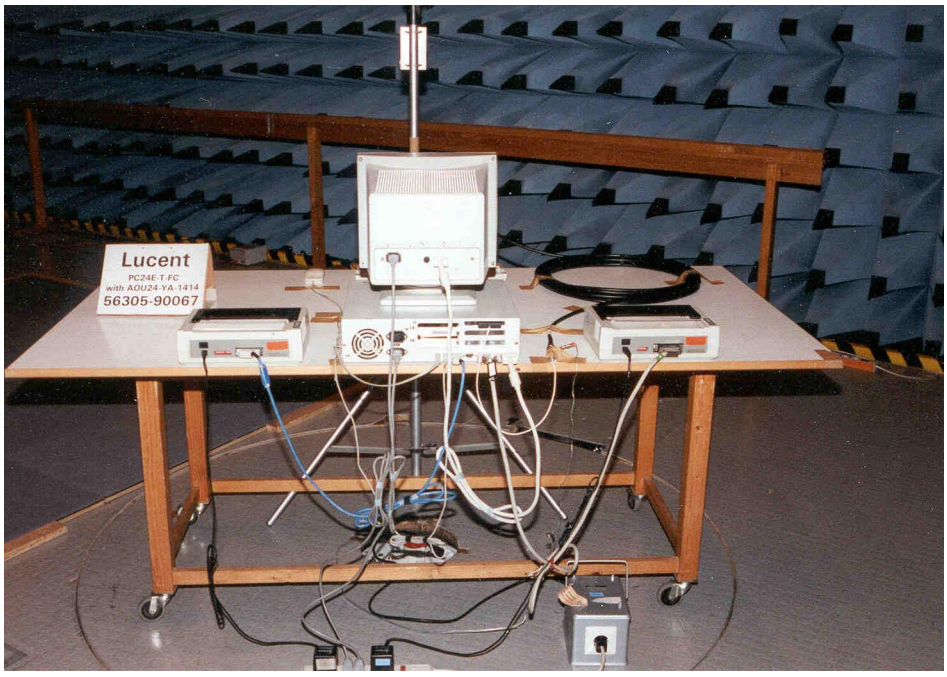




Photos No. 9.1.5 - 9.1.6

Test setup no. 1 for radiated emission test above 1 GHz

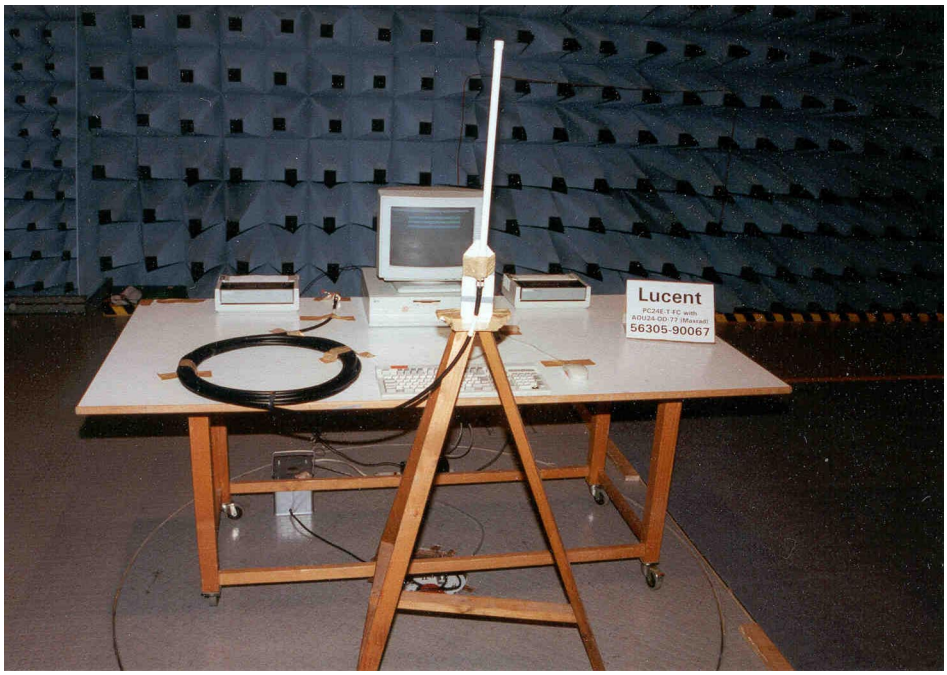


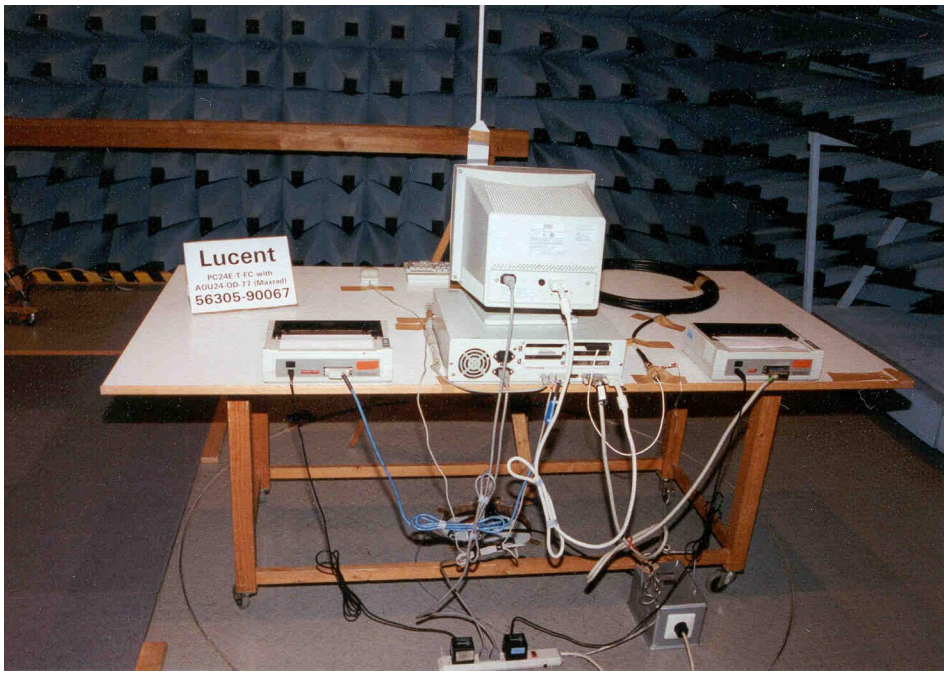


9.2. Photographs Of Test Setup No. 2

Photos No. 9.3.1 - 9.3.2

Test setup no. 2 for radiated emission test above 1 GHz

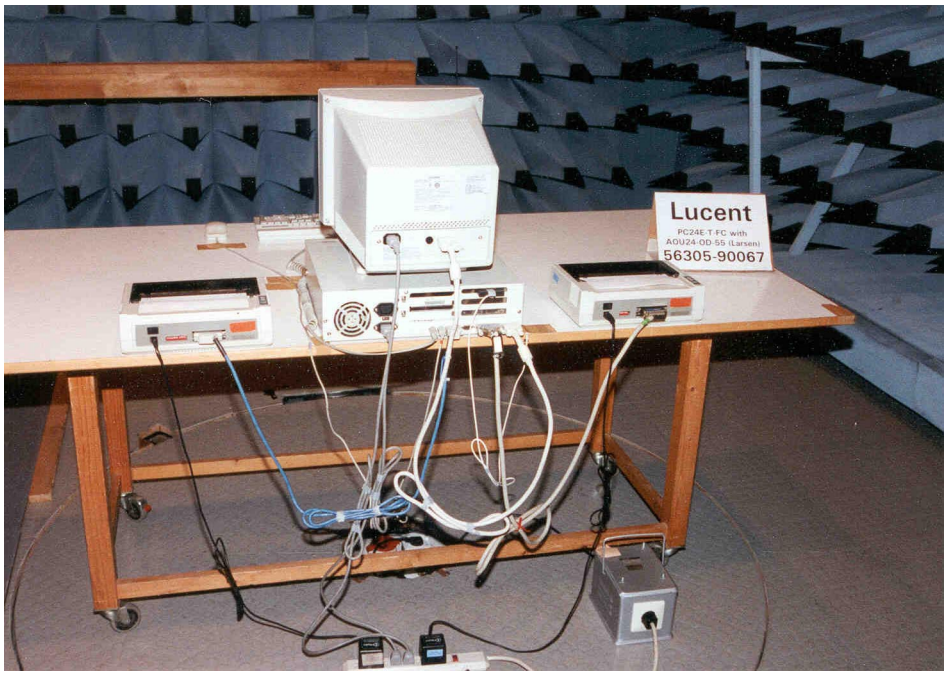




9.3. Photographs Of Test Setup No. 3

Photos No. 9.3.1 - 9.3.2

Test setup no. 3 for radiated emission test above 1 GHz



10. List of Measurements

10.1. List of Measurements for Setup No. 1

FCC Part 15 Subpart C			
Section(s):	**Test**	**Page**	**Result**
	Transmit mode (TX):	35	
§15.247.a2	Minimum 6 dB bandwidth	note 1	passed
§15.247.b	Maximum peak output power	36	passed
§15.247.d	Average power density	note 1	passed
§15.247.e	Processing gain	---	test performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed (note 2)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	37	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	61	passed
	Receive mode (RX):	109	
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed (note 2)
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	110	passed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	118	passed

Note 1: See Senton test report no. 56305-81078-1 for RF-modem PC24E-OO-ET-T (identical with PC24E-T-FC)
Note 2: According to applicant only radiated emission tests were performed
Note 3: Except for radiated emission at band edges radiated emission tests in transmit mode were performed with bit rate set to 2 MBit only (maximum output power).

10.2. List of Measurements for Setup No. 2

FCC Part 15 Subpart C			
Section(s):	**Test**	**Page**	**Result**
	Transmit mode (TX):	120	
§15.247.a2	Minimum 6 dB bandwidth	note 1	passed
§15.247.b	Maximum peak output power	121	passed
§15.247.d	Average power density	note 1	passed
§15.247.e	Processing gain	---	test performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed (note 2)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	---	not performed (note 2)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	122	passed
	Receive mode (RX):	170	
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed (note 2)
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	---	not performed (note 2)
§15.209	Radiated emission test 1 GHz - 12.5 GHz	171	passed

Note 1: See Senton test report no. 56305-81078-1 for RF-modem PC24E-OO-ET-T (identical with PC24E-T-FC)
Note 2: According to applicant only radiated emission above 1 GHz was tested
Note 3: Except for radiated emission at band edges radiated emission tests in transmit mode were performed with bit rate set to 2 MBit only (maximum output power).

10.3. List of Measurements for Setup No. 3

FCC Part 15 Subpart C			
Section(s):	**Test**	**Page**	**Result**
	Transmit mode (TX):	173	
§15.247.a2	Minimum 6 dB bandwidth	note 1	passed
§15.247.b	Maximum peak output power	174	passed
§15.247.d	Average power density	note 1	passed
§15.247.e	Processing gain	---	test performed by applicant
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed (note 2)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	---	not performed (note 2)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	175	passed
	Receive mode (RX):	223	
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not performed (note 2)
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	---	not performed (note 2)
§15.209	Radiated emission test 1 GHz - 12.5 GHz	224	passed

Note 1: See Senton test report no. 56305-81078-1 for RF-modem PC24E-OO-ET-T (identical with PC24E-T-FC)
Note 2: According to applicant only radiated emission above 1 GHz was tested
Note 3: Except for radiated emission at band edges radiated emission tests in transmit mode were performed with bit rate set to 2 MBit only (maximum output power).

11. Test Results

Test results for setup no. 1

Transmit (TX) mode

Maximum Peak Output Power
according to FCC Part 15 Subpart C, §15.247b

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Date of test: 12/10/1998
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC

- TX mode

Tested on: Antenna connector

Selected bit rate	Operating frequency [GHz]	Power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit [dBm]
2 MBit	2.412	14.3	0.5	14.8	see table below
	2.442	14.6	0.5	15.1	
	2.462	14.4	0.5	14.9	
5 MBit	2.412	11.0	0.5	11.5	
	2.442	11.3	0.5	11.8	
	2.462	11.1	0.5	11.6	
8 MBit	2.412	11.1	0.5	11.6	
	2.442	11.4	0.5	11.9	
	2.462	11.2	0.5	11.7	

Note:
Typical gain of external YAGI antenna AOU24-YA-1414 is 13.5 dBi. Depending on antenna cable the effective antenna gain is calculated by subtracting the appropriate total insertion loss including attenuation caused by pigtail cable and lightning arrestor.
Limit of 30 dBm is reduced by the amount of the effective antenna gain exceeding 6 dBi.

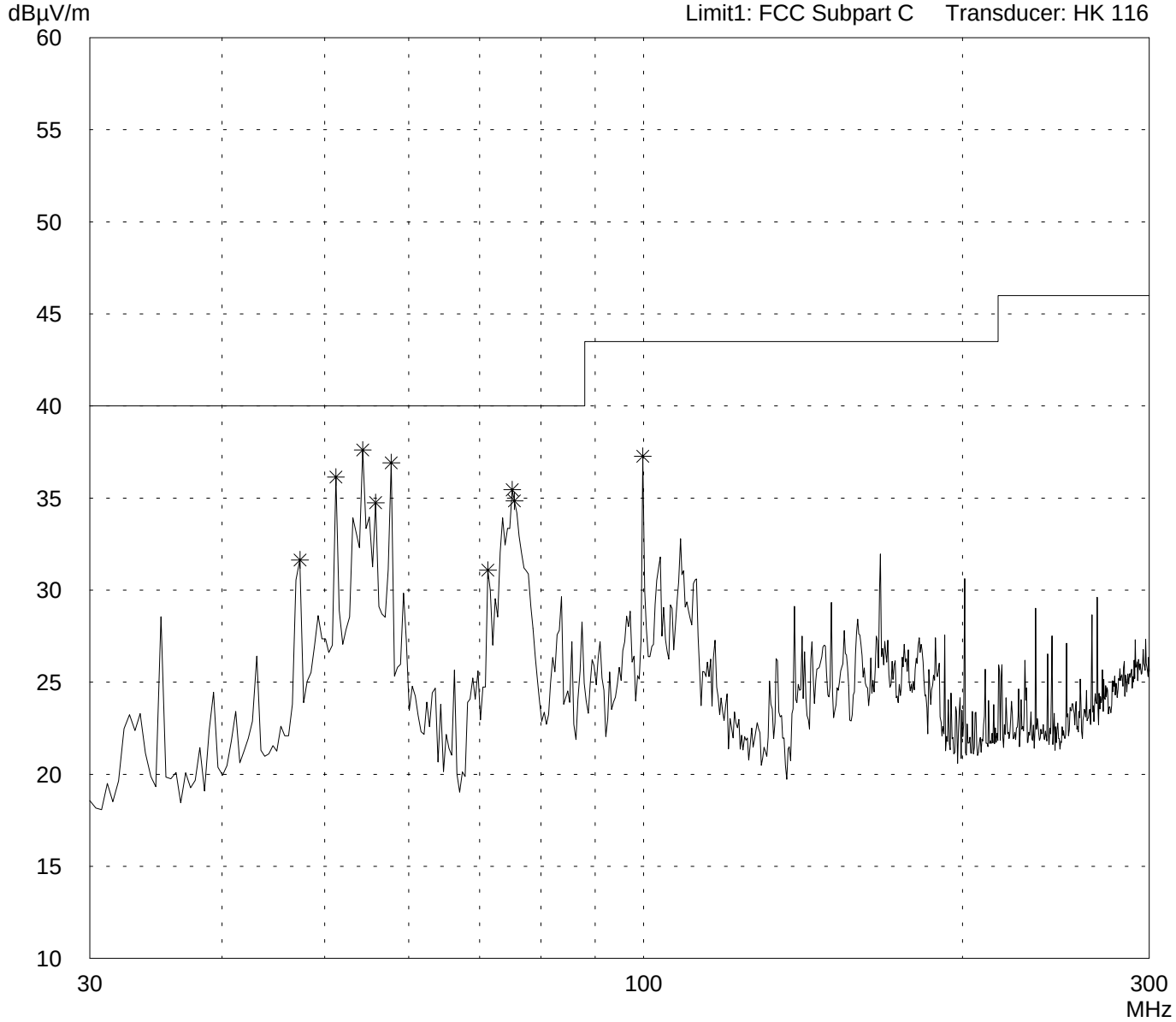
Antenna cable	Antenna gain AOU24-YA-1414 [dBi]	Total insertion loss [dB]	Effective antenna gain		Limit [dBm]
			total value [dBi]	exceeding 6 dBi [dB]	
20 ft	13.5	4.5	9.0	3.0	27.0
50 ft	13.5	4.5	9.0	3.0	27.0
75 ft	13.5	5.3	8.2	2.2	27.8

Result: The limits are kept

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Horizontal Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.412 GHz

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

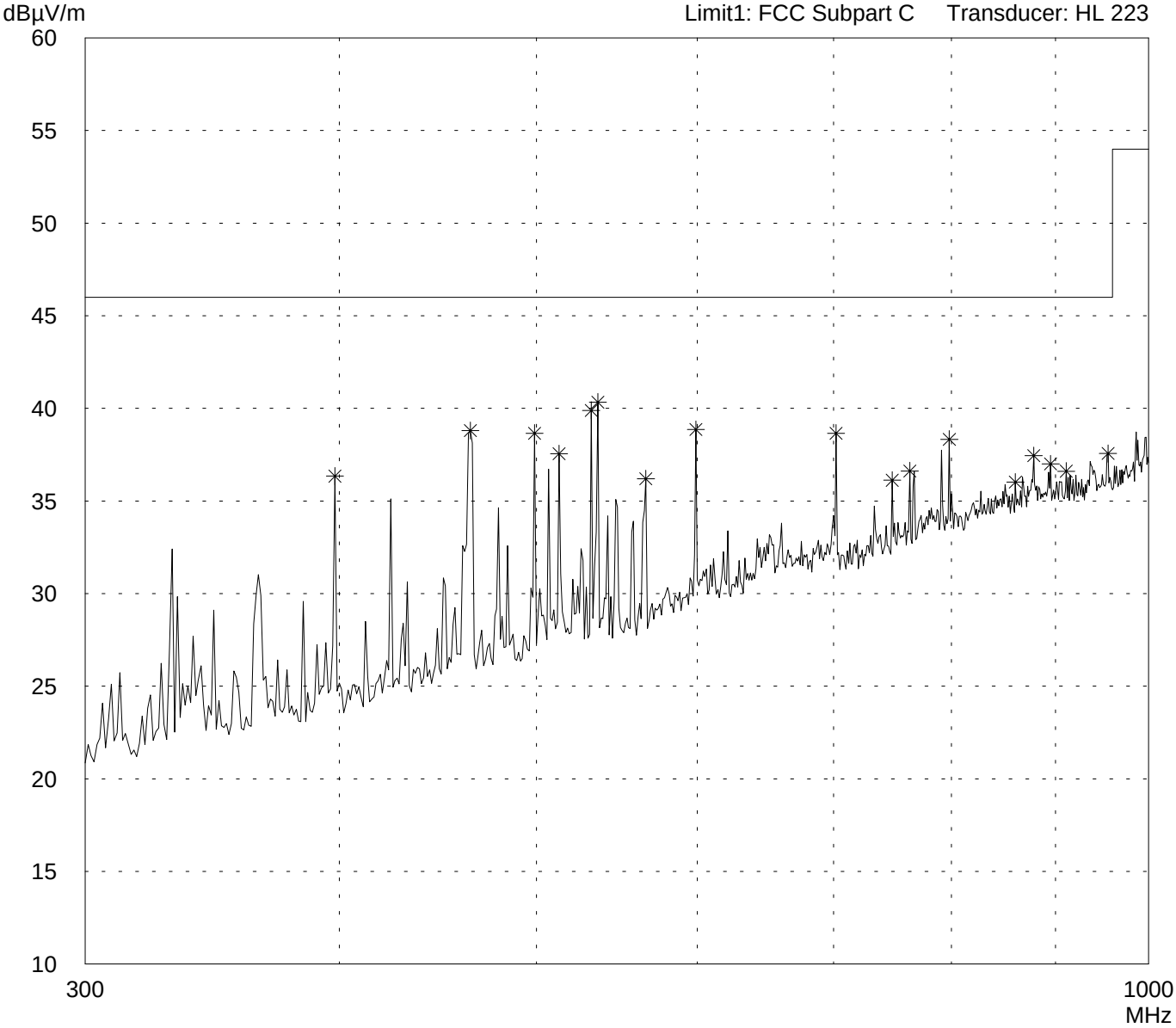


Result: Prescan	Project file: 56305-90067-1

Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Horizontal Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.412 GHz

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



Result: Prescan	Project file: 56305-90067-1

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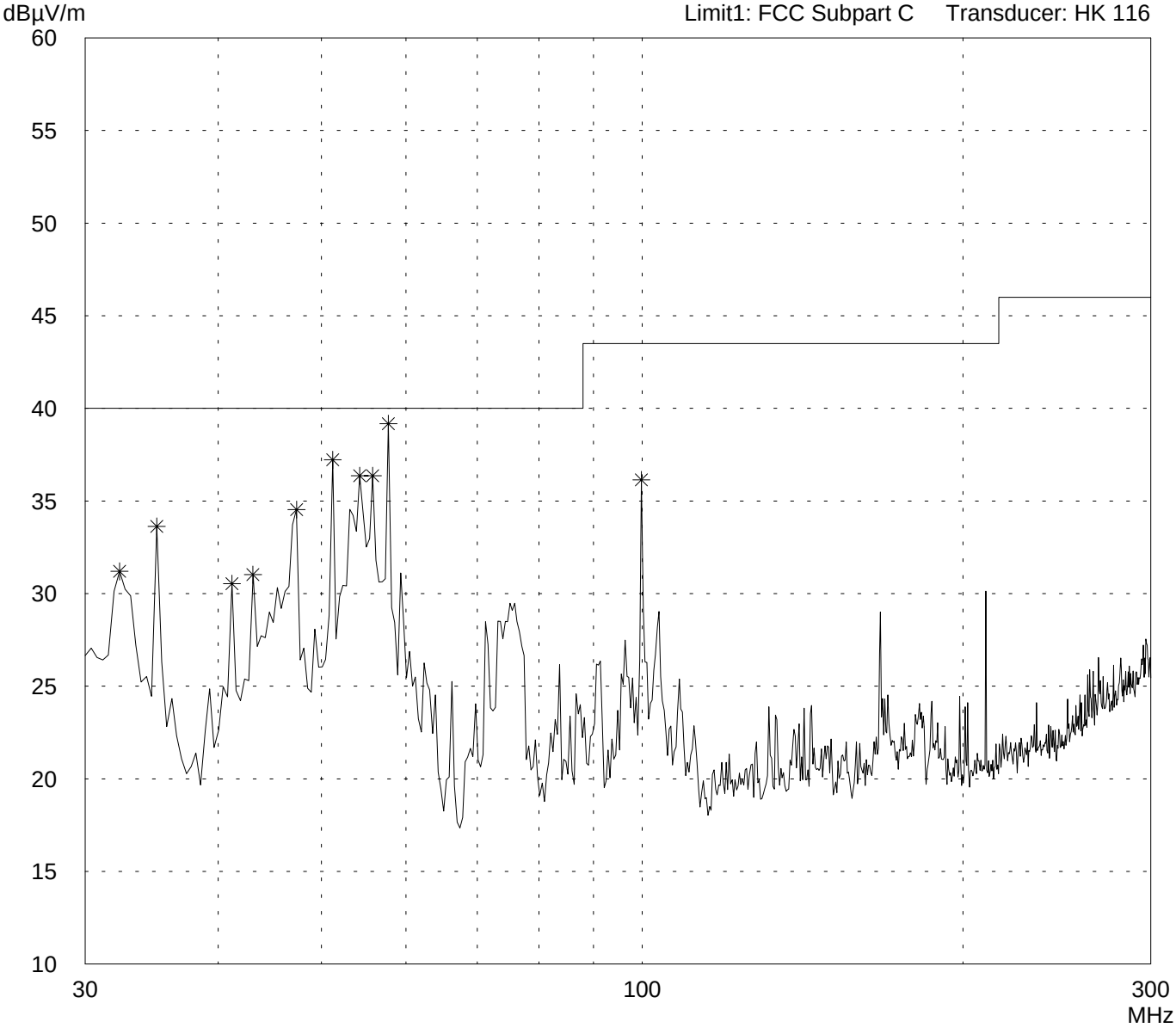
Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.412 GHz

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

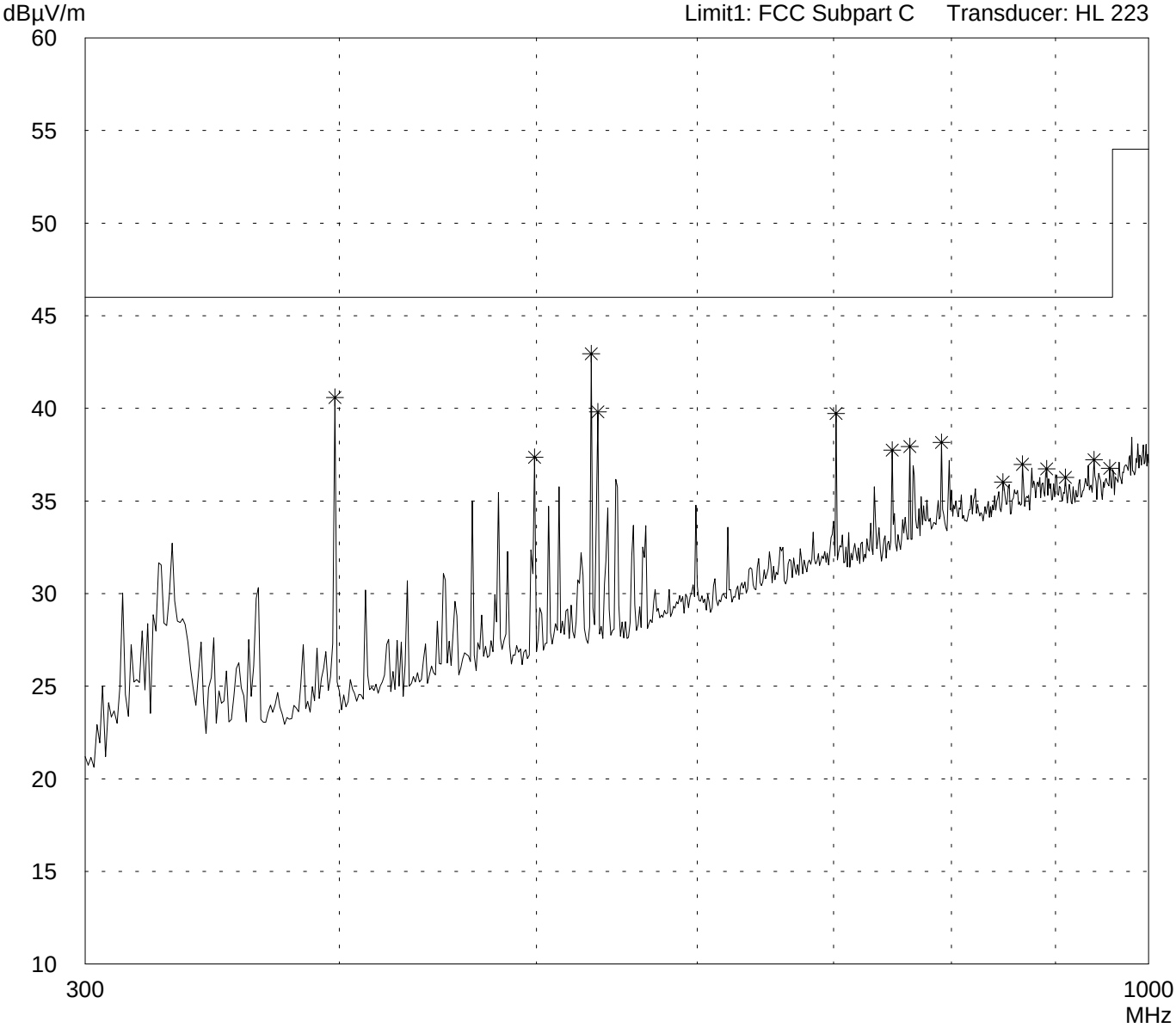


Result: Prescan	Project file: 56305-90067-1 Page 39 of 225 Pages

Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.412 GHz

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

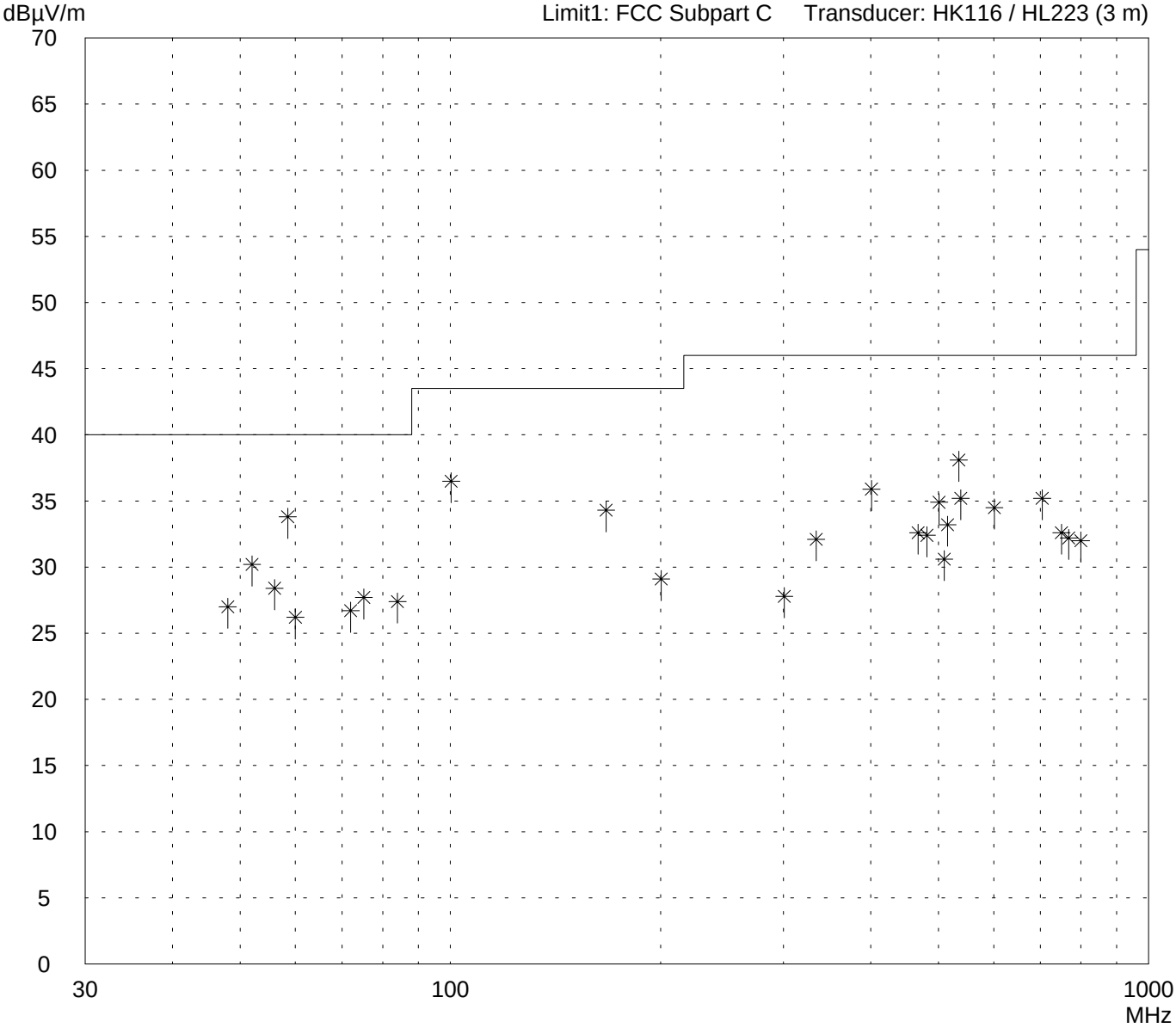


Result: Prescan	Project file: 56305-90067-1 Page 40 of 225 Pages

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Open area test-site I	- supply voltage 115 V AC
Tested on: Test distance 3 meters Horizontal Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 02/02/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: by hand / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.412 GHz
	Note: Level at 100.3 MHz was measured in semi anechoic room (cabin no. 3)

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-90067-1

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Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-T-FC with AOU24-YA-1414

Serial no.:
84490006 (RF-modem), sample no. 1 (antenna)

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 02/02/1999

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.412 GHz

Note:
Level at 100.3 MHz was measured in semi anechoic room (cabin no. 3)

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
48.0	16.0	11.0	27.0	40.0	
52.0	19.5	10.7	30.2	40.0	
56.0	18.0	10.4	28.4	40.0	
58.5	23.5	10.3	33.8	40.0	
60.0	16.0	10.2	26.2	40.0	
72.0	16.5	10.2	26.7	40.0	
75.2	17.5	10.2	27.7	40.0	
84.0	17.0	10.4	27.4	40.0	
100.3	25.0	11.5	36.5	43.5	
167.1	18.5	15.8	34.3	43.5	
200.5	12.0	17.1	29.1	43.5	
300.7	11.0	16.8	27.8	46.0	
334.1	14.0	18.1	32.1	46.0	
400.9	15.5	20.4	35.9	46.0	
467.7	10.5	22.1	32.6	46.0	
481.5	10.0	22.4	32.4	46.0	
501.2	12.0	22.9	34.9	46.0	
509.8	7.5	23.1	30.6	46.0	
515.5	10.0	23.2	33.2	46.0	
534.6	14.5	23.6	38.1	46.0	
538.1	11.5	23.7	35.2	46.0	
601.4	9.5	25.0	34.5	46.0	
704.0	7.5	27.7	35.2	46.0	
750.0	4.5	28.1	32.6	46.0	
768.5	4.0	28.2	32.2	46.0	
800.0	3.5	28.5	32.0	46.0	

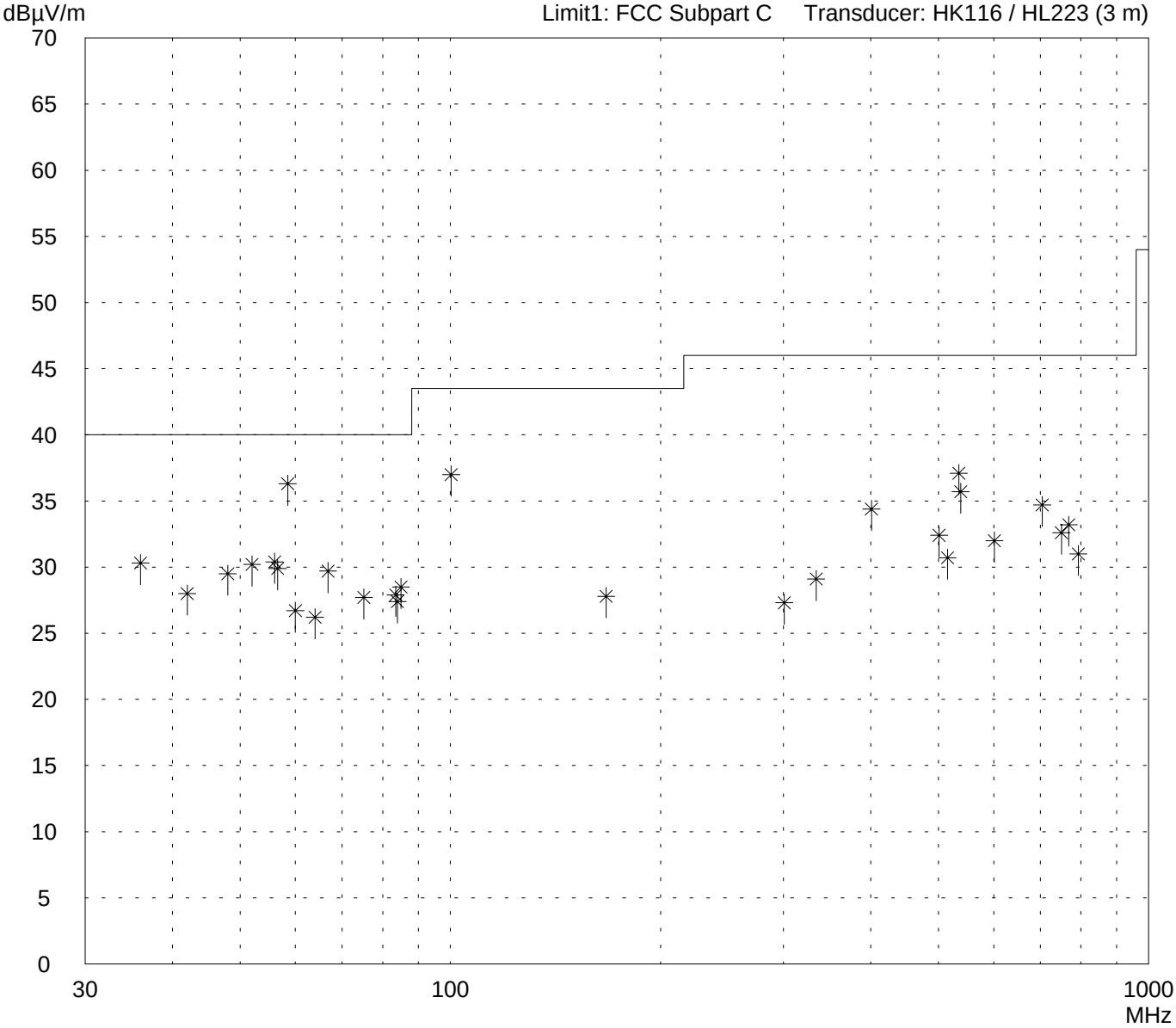
Result: Limit kept

Project file: 56305-90067-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Open area test-site I	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 02/02/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: by hand / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.412 GHz

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-90067-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-T-FC with AOU24-YA-1414

Serial no.:
84490006 (RF-modem), sample no. 1 (antenna)

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 02/02/1999

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.412 GHz

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
36.0	17.0	13.3	30.3	40.0	
42.0	16.0	12.0	28.0	40.0	
48.0	18.5	11.0	29.5	40.0	
52.0	19.5	10.7	30.2	40.0	
56.0	20.0	10.4	30.4	40.0	
56.6	19.5	10.4	29.9	40.0	
58.5	26.0	10.3	36.3	40.0	
60.0	16.5	10.2	26.7	40.0	
64.0	16.0	10.2	26.2	40.0	
66.8	19.5	10.2	29.7	40.0	
75.2	17.5	10.2	27.7	40.0	
83.5	17.5	10.4	27.9	40.0	
84.0	17.0	10.4	27.4	40.0	
85.0	18.0	10.5	28.5	40.0	
100.3	25.5	11.5	37.0	43.5	
167.1	12.0	15.8	27.8	43.5	
300.7	10.5	16.8	27.3	46.0	
334.1	11.0	18.1	29.1	46.0	
400.9	14.0	20.4	34.4	46.0	
501.2	9.5	22.9	32.4	46.0	
515.5	7.5	23.2	30.7	46.0	
534.6	13.5	23.6	37.1	46.0	
538.1	12.0	23.7	35.7	46.0	
601.4	7.0	25.0	32.0	46.0	
704.0	7.0	27.7	34.7	46.0	
750.0	4.5	28.1	32.6	46.0	
768.5	5.0	28.2	33.2	46.0	
793.1	2.5	28.5	31.0	46.0	

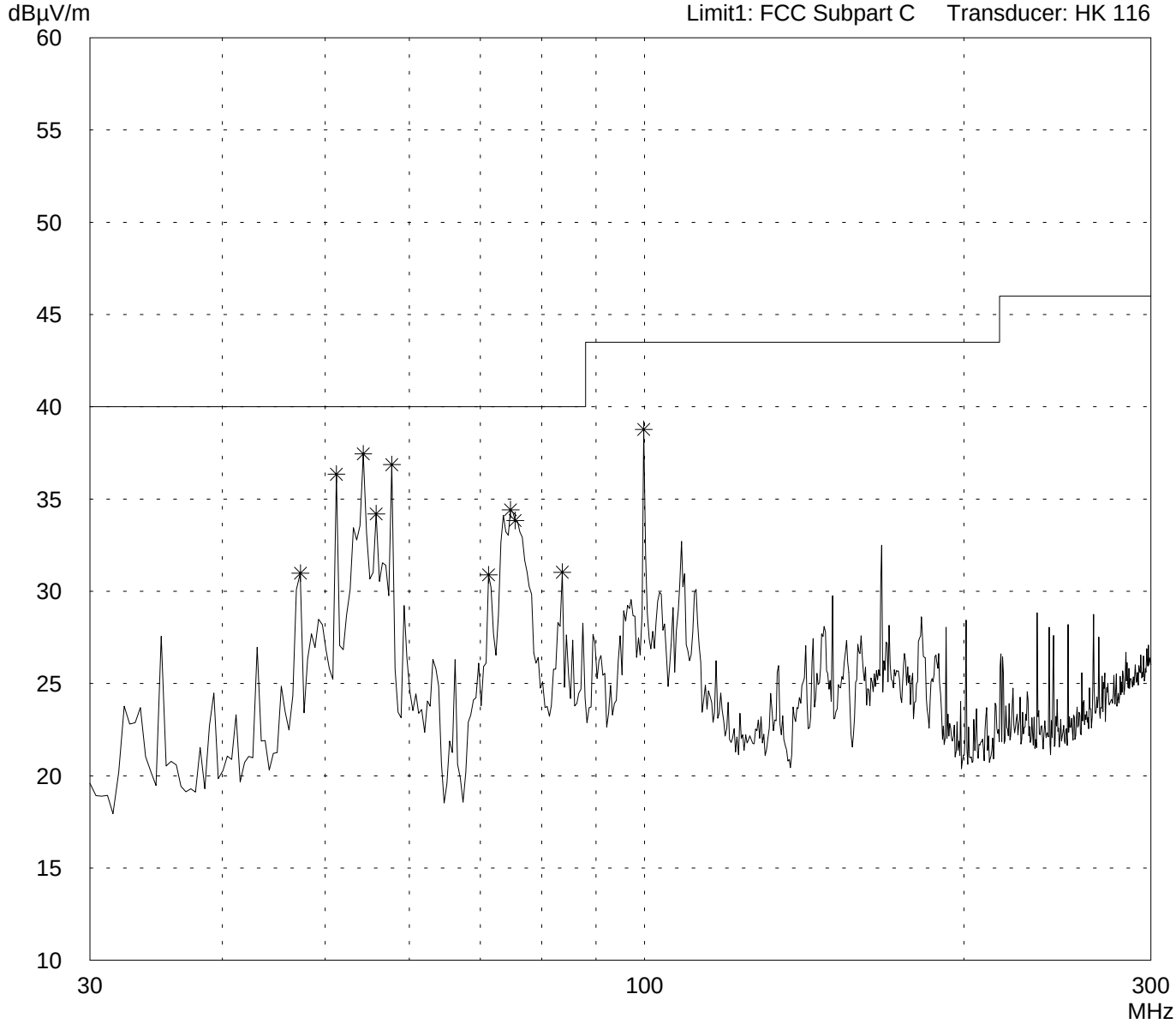
Result: Limit kept

Project file: 56305-90067-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 01/27/1999 / Operator: R. Heller	
Test performed: automatically / File name:	

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



Result: Prescan	Project file: 56305-90067-1

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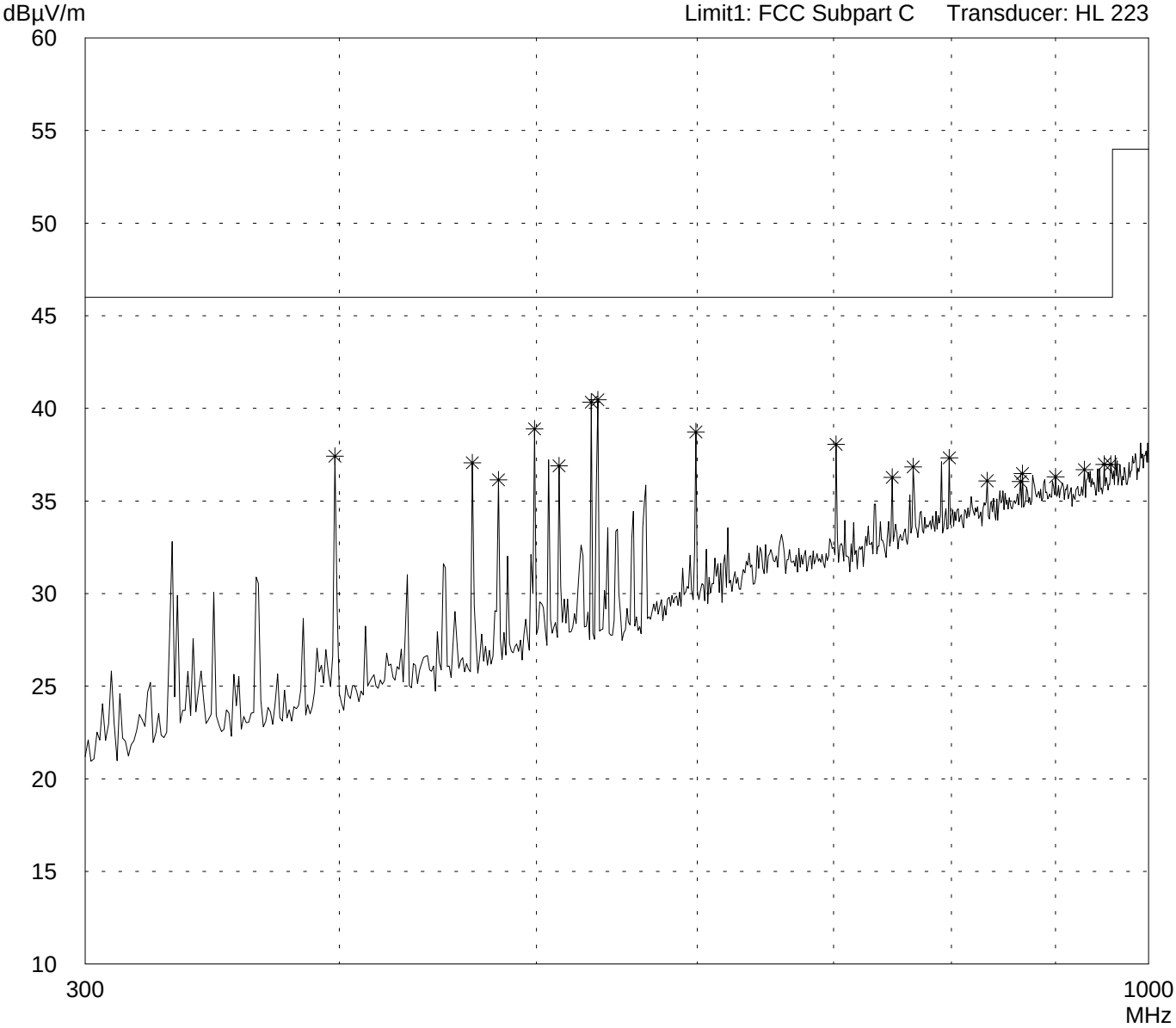
Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Horizontal Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.442 GHz

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



Result: Prescan	Project file: 56305-90067-1

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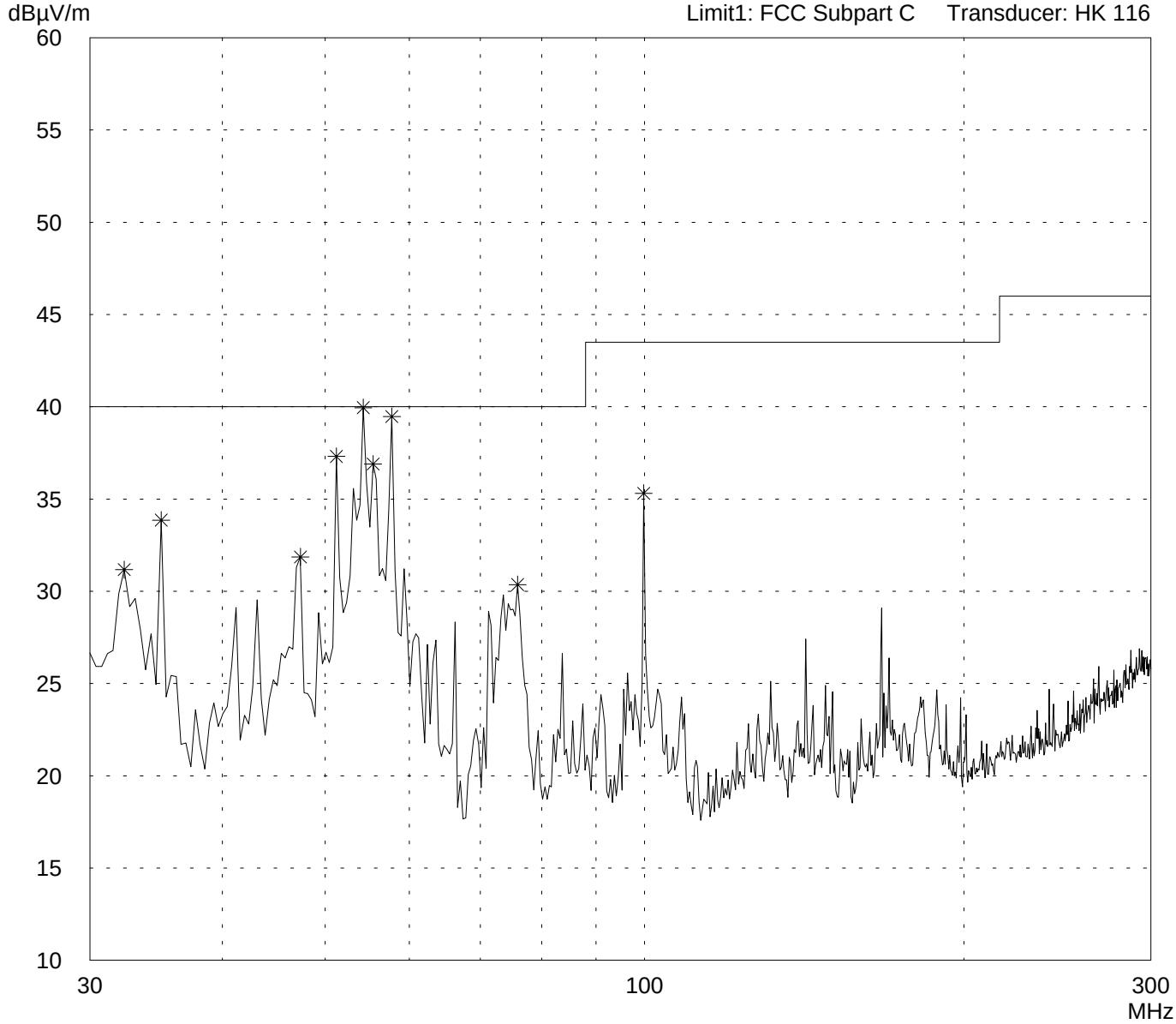
Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.442 GHz

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

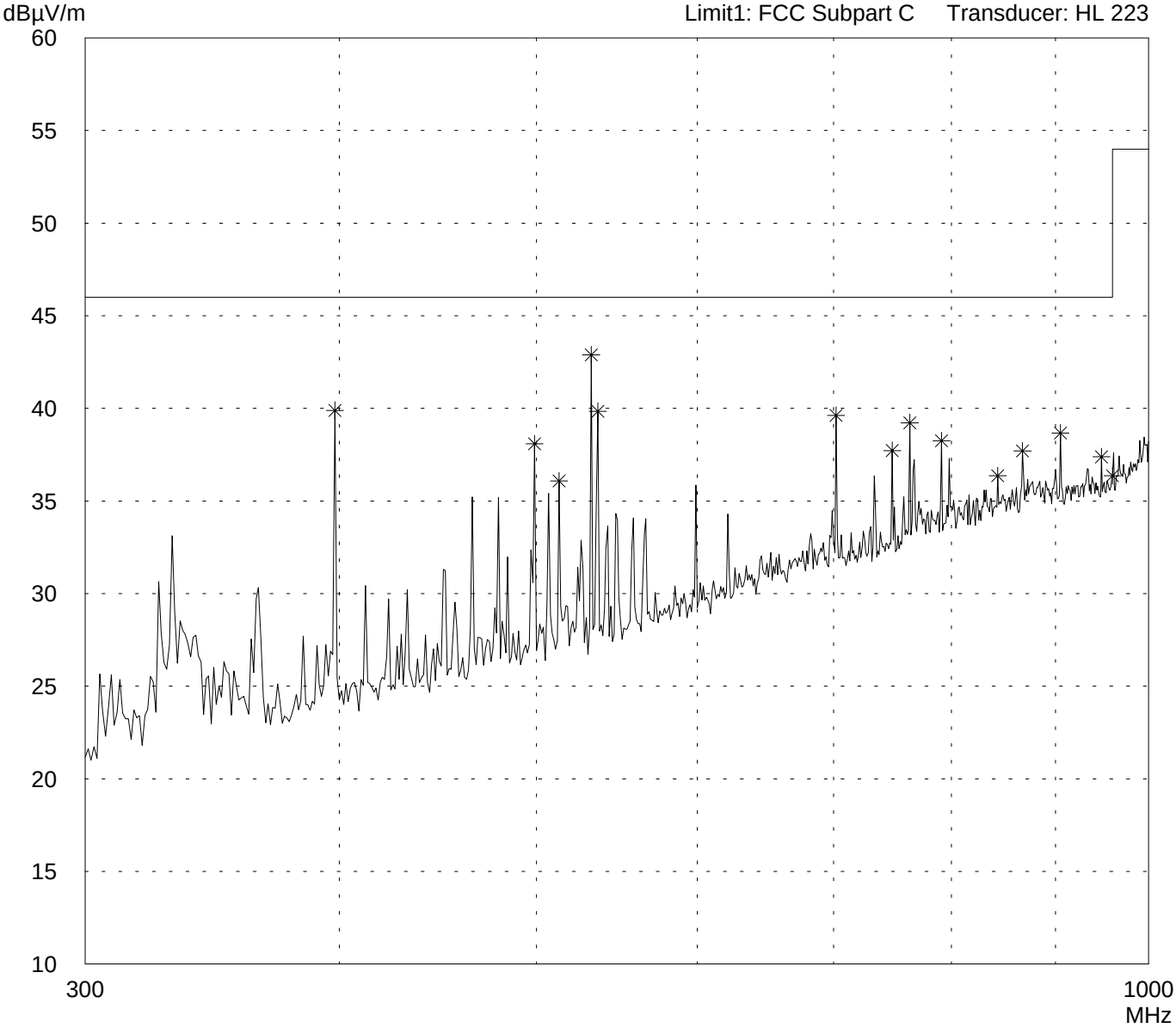


Result: Prescan	Project file: 56305-90067-1 Page 47 of 225 Pages

Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.442 GHz

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

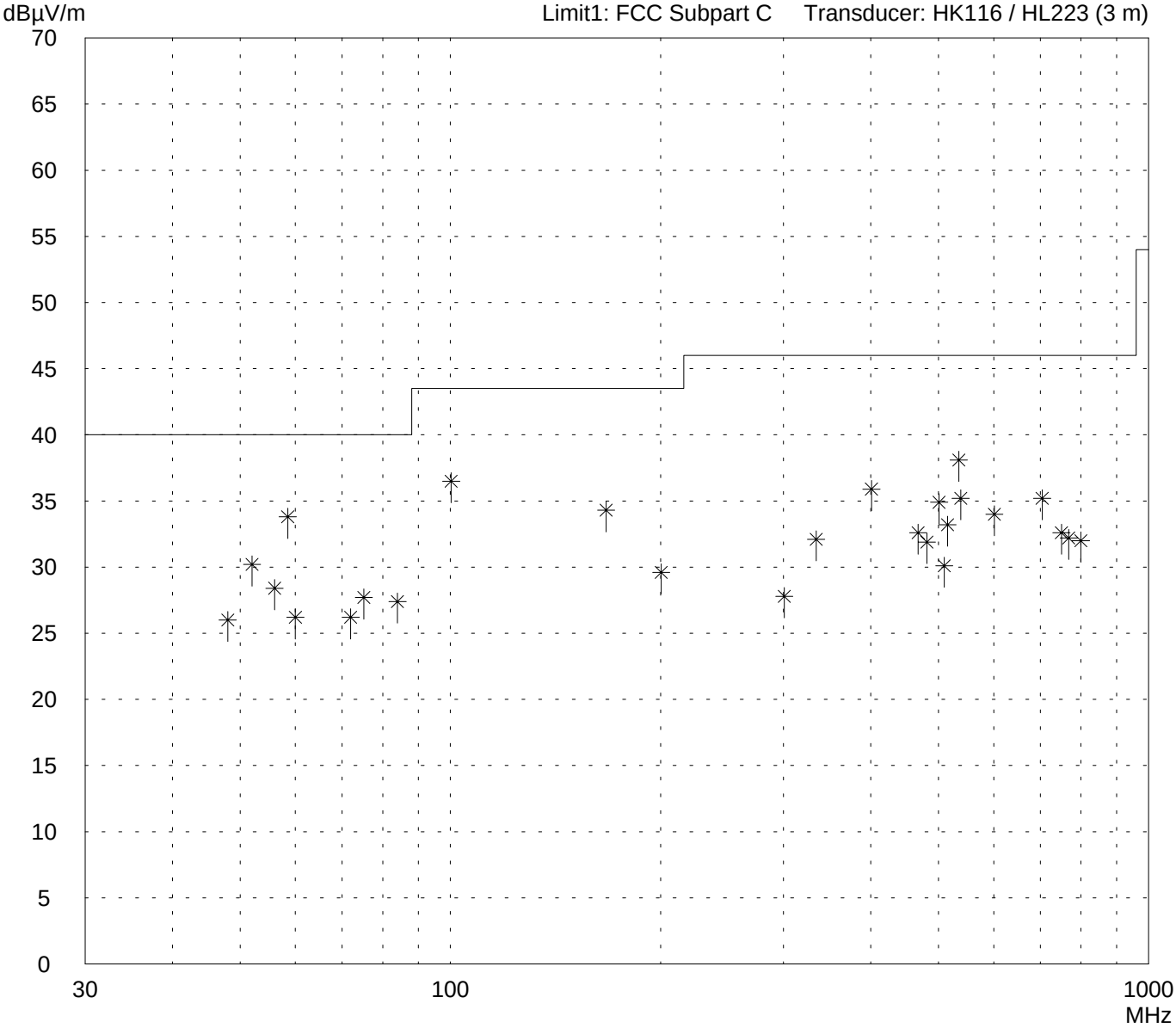


Result: Prescan	Project file: 56305-90067-1 Page 48 of 225 Pages

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Open area test-site I	- supply voltage 115 V AC
Tested on: Test distance 3 meters Horizontal Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 02/02/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: by hand / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.442 GHz
	Note: Level at 100.3 MHz was measured in semi anechoic room (cabin no. 3)

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-90067-1

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Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-T-FC with AOU24-YA-1414

Serial no.:
84490006 (RF-modem), sample no. 1 (antenna)

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 02/02/1999

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.442 GHz

Note:
Level at 100.3 MHz was measured in semi anechoic room (cabin no. 3)

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
48.0	15.0	11.0	26.0	40.0	
52.0	19.5	10.7	30.2	40.0	
56.0	18.0	10.4	28.4	40.0	
58.5	23.5	10.3	33.8	40.0	
60.0	16.0	10.2	26.2	40.0	
72.0	16.0	10.2	26.2	40.0	
75.2	17.5	10.2	27.7	40.0	
84.0	17.0	10.4	27.4	40.0	
100.3	25.0	11.5	36.5	43.5	
167.1	18.5	15.8	34.3	43.5	
200.5	12.5	17.1	29.6	43.5	
300.7	11.0	16.8	27.8	46.0	
334.1	14.0	18.1	32.1	46.0	
400.9	15.5	20.4	35.9	46.0	
467.7	10.5	22.1	32.6	46.0	
481.5	9.5	22.4	31.9	46.0	
501.2	12.0	22.9	34.9	46.0	
509.8	7.0	23.1	30.1	46.0	
515.5	10.0	23.2	33.2	46.0	
534.6	14.5	23.6	38.1	46.0	
538.1	11.5	23.7	35.2	46.0	
601.4	9.0	25.0	34.0	46.0	
704.0	7.5	27.7	35.2	46.0	
750.0	4.5	28.1	32.6	46.0	
768.5	4.0	28.2	32.2	46.0	
800.0	3.5	28.5	32.0	46.0	

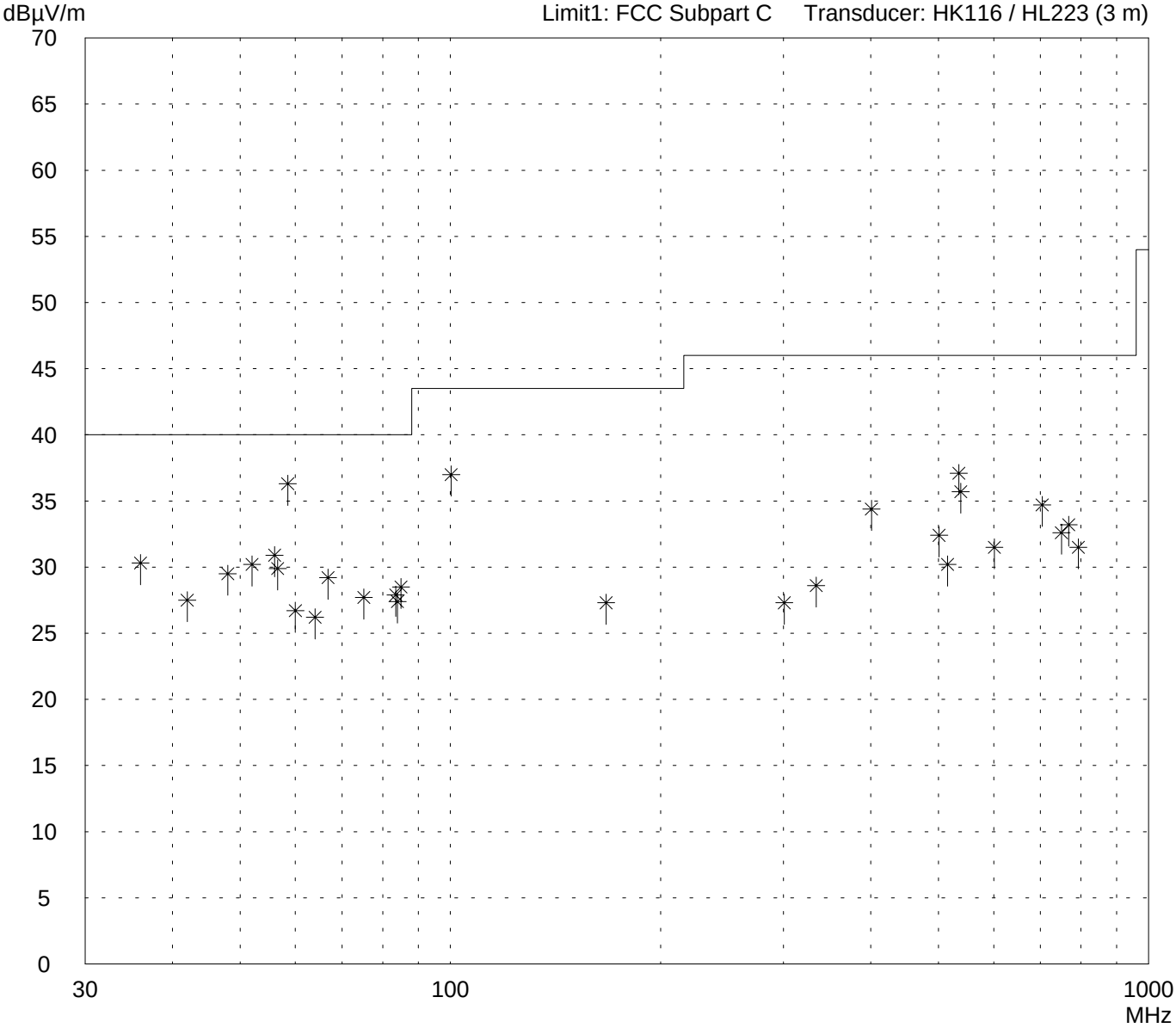
Result: Limit kept

Project file: 56305-90067-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Open area test-site I	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 02/02/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: by hand / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.442 GHz

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-90067-1

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Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-T-FC with AOU24-YA-1414

Serial no.:
84490006 (RF-modem), sample no. 1 (antenna)

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 02/02/1999

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.442 GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
36.0	17.0	13.3	30.3	40.0	
42.0	15.5	12.0	27.5	40.0	
48.0	18.5	11.0	29.5	40.0	
52.0	19.5	10.7	30.2	40.0	
56.0	20.5	10.4	30.9	40.0	
56.6	19.5	10.4	29.9	40.0	
58.5	26.0	10.3	36.3	40.0	
60.0	16.5	10.2	26.7	40.0	
64.0	16.0	10.2	26.2	40.0	
66.8	19.0	10.2	29.2	40.0	
75.2	17.5	10.2	27.7	40.0	
83.5	17.5	10.4	27.9	40.0	
84.0	17.0	10.4	27.4	40.0	
85.0	18.0	10.5	28.5	40.0	
100.3	25.5	11.5	37.0	43.5	
167.1	11.5	15.8	27.3	43.5	
300.7	10.5	16.8	27.3	46.0	
334.1	10.5	18.1	28.6	46.0	
400.9	14.0	20.4	34.4	46.0	
501.2	9.5	22.9	32.4	46.0	
515.5	7.0	23.2	30.2	46.0	
534.6	13.5	23.6	37.1	46.0	
538.1	12.0	23.7	35.7	46.0	
601.4	6.5	25.0	31.5	46.0	
704.0	7.0	27.7	34.7	46.0	
750.0	4.5	28.1	32.6	46.0	
768.5	5.0	28.2	33.2	46.0	
793.1	3.0	28.5	31.5	46.0	

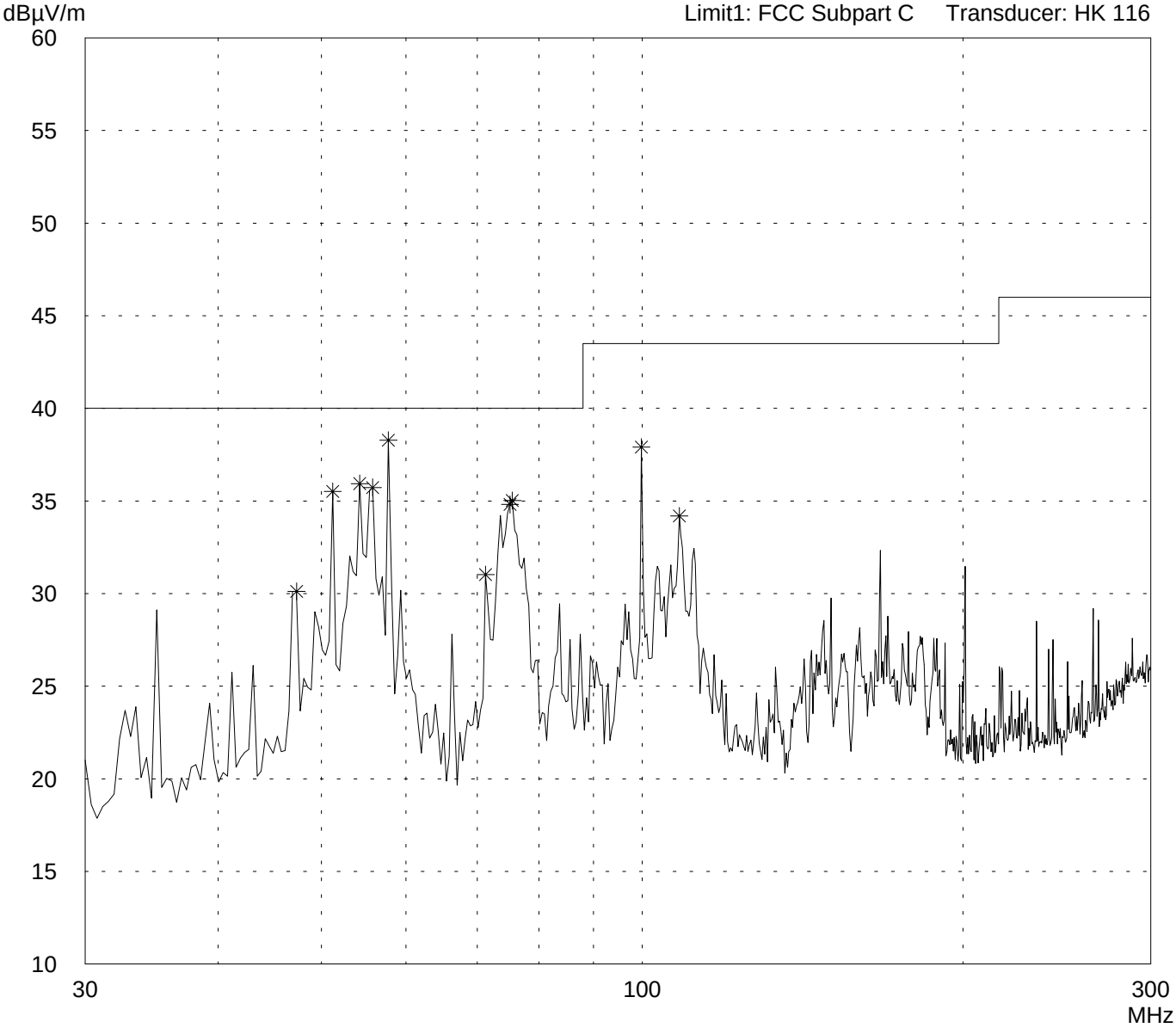
Result:
Limit kept

Project file:
56305-90067-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Horizontal Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.462 GHz

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



Result: Prescan	Project file: 56305-90067-1

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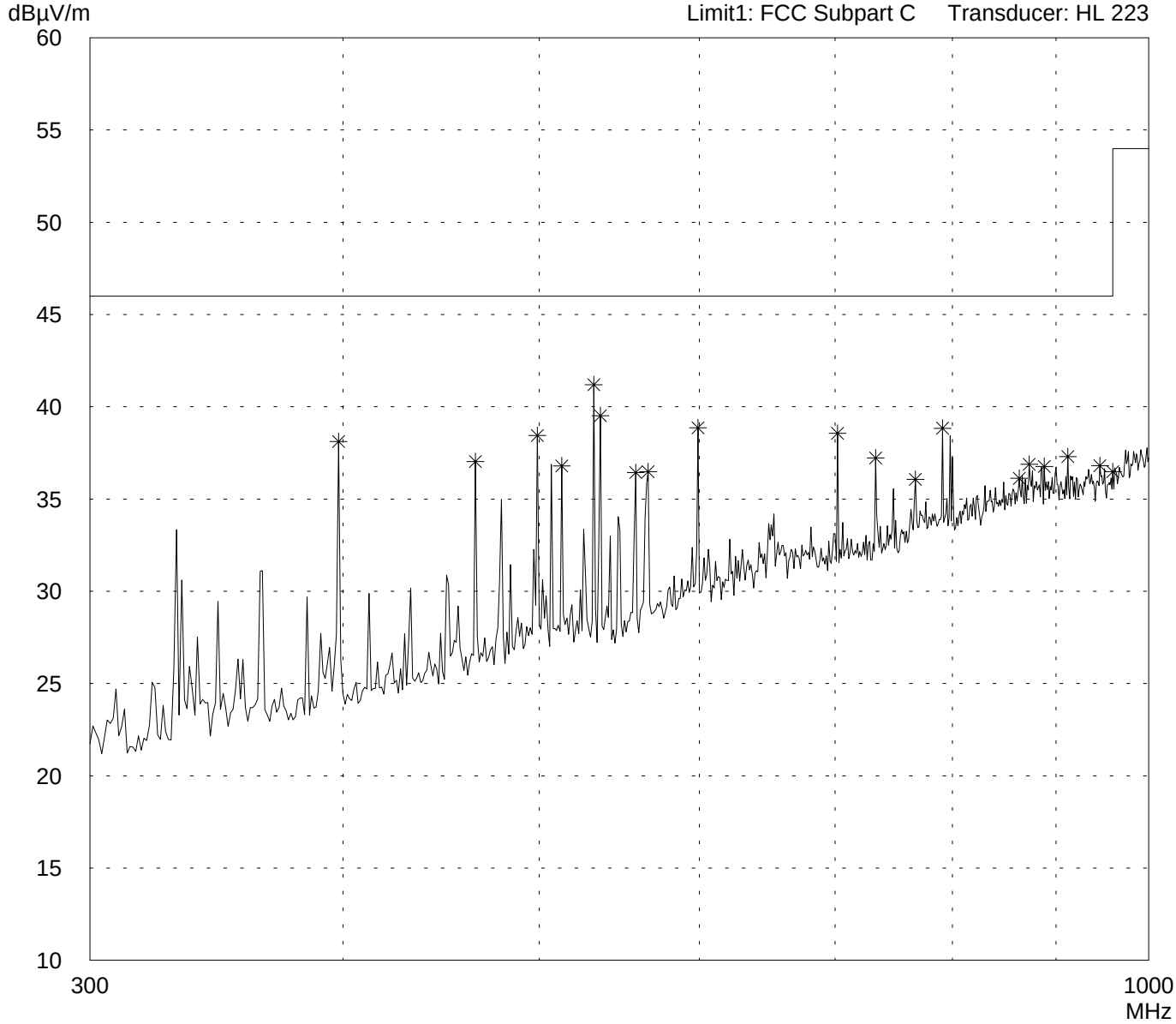
Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 01/27/1999 / Operator: R. Heller	
Test performed: automatically / File name:	

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



Result: Prescan	Project file: 56305-90067-1

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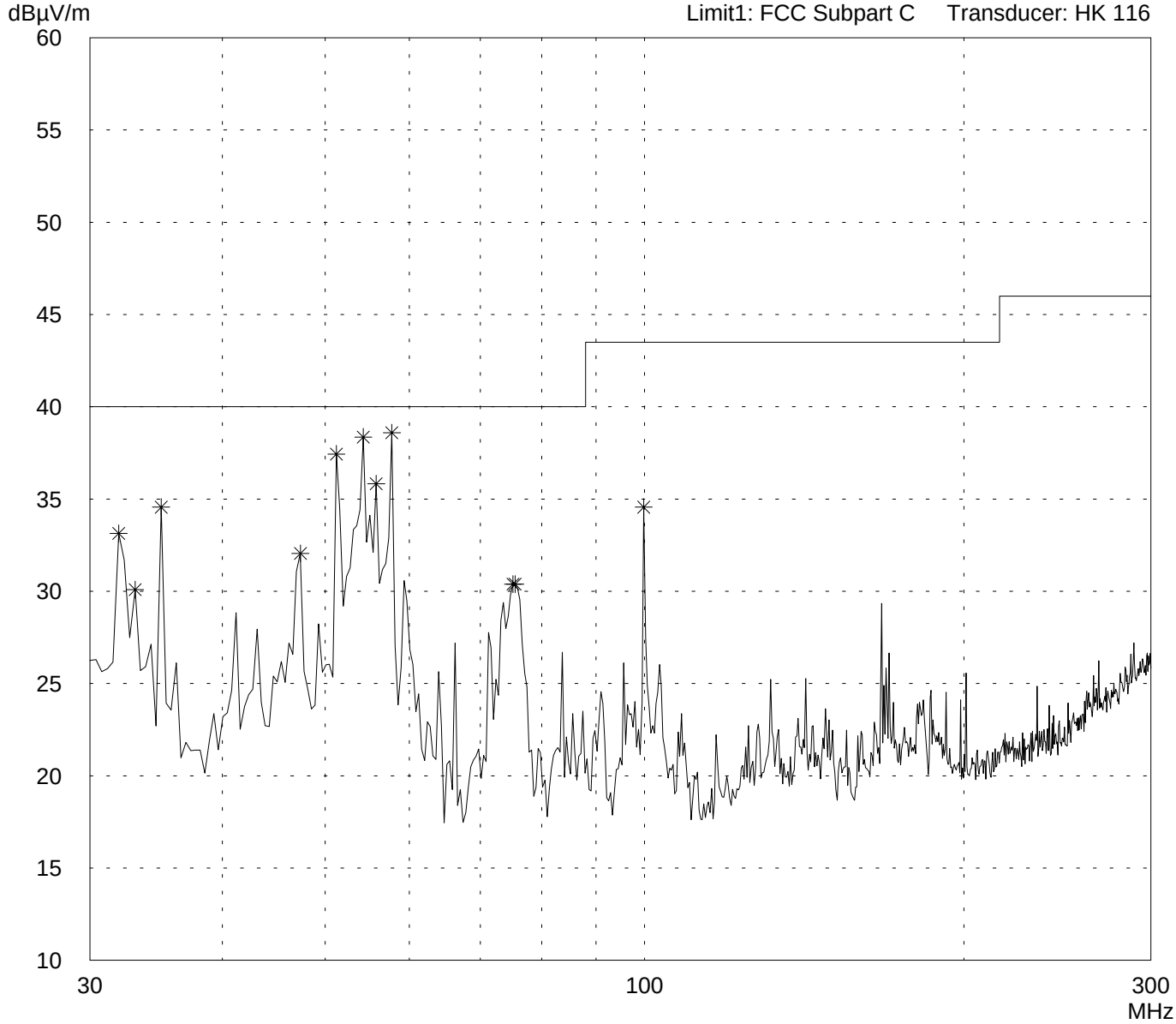
Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.462 GHz

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

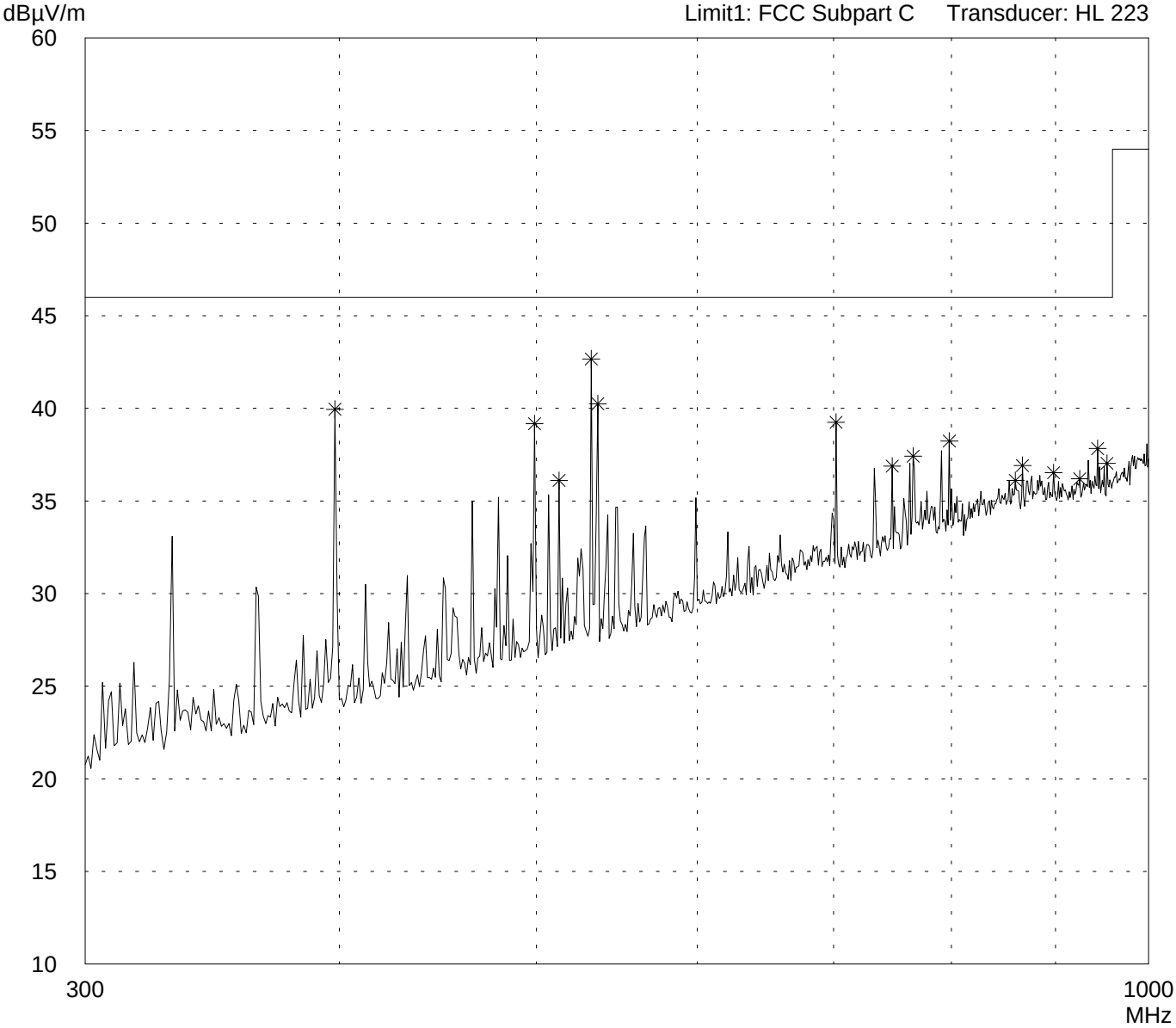


Result: Prescan	Project file: 56305-90067-1 Page 55 of 225 Pages

Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Semi anechoic room, cabin no. 3	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 01/27/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: automatically / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.462 GHz

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



Result: Prescan	Project file: 56305-90067-1

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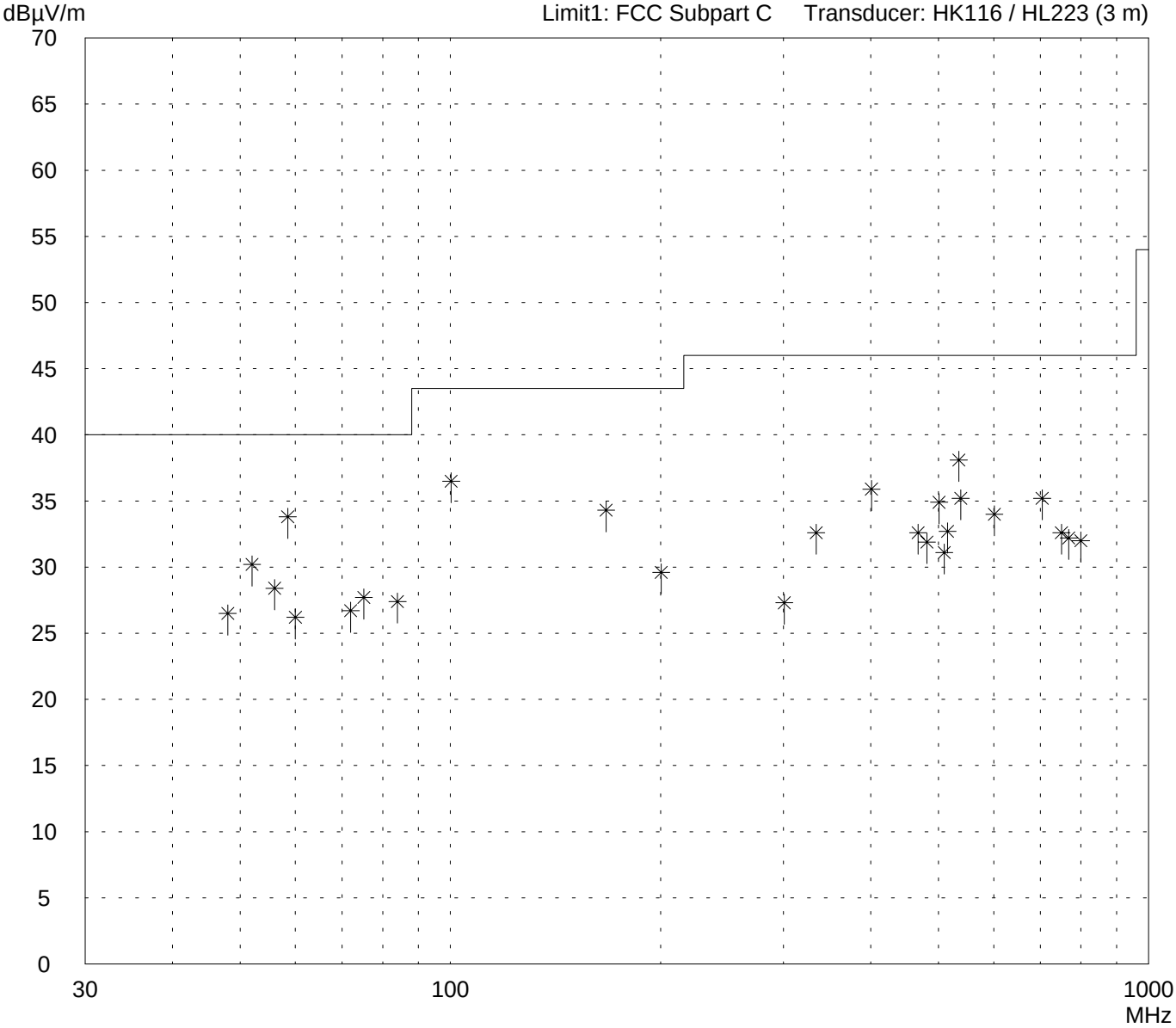
Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Open area test-site I	- supply voltage 115 V AC
Tested on: Test distance 3 meters Horizontal Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 02/02/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: by hand / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.462 GHz
	Note: Level at 100.3 MHz was measured in semi anechoic room (cabin no. 3)

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-90067-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-T-FC with AOU24-YA-1414

Serial no.:
84490006 (RF-modem), sample no. 1 (antenna)

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 02/02/1999

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.462 GHz

Note:
Level at 100.3 MHz was measured in semi anechoic room (cabin no. 3)

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
48.0	15.5	11.0	26.5	40.0	
52.0	19.5	10.7	30.2	40.0	
56.0	18.0	10.4	28.4	40.0	
58.5	23.5	10.3	33.8	40.0	
60.0	16.0	10.2	26.2	40.0	
72.0	16.5	10.2	26.7	40.0	
75.2	17.5	10.2	27.7	40.0	
84.0	17.0	10.4	27.4	40.0	
100.3	25.0	11.5	36.5	43.5	
167.1	18.5	15.8	34.3	43.5	
200.5	12.5	17.1	29.6	43.5	
300.7	10.5	16.8	27.3	46.0	
334.1	14.5	18.1	32.6	46.0	
400.9	15.5	20.4	35.9	46.0	
467.7	10.5	22.1	32.6	46.0	
481.5	9.5	22.4	31.9	46.0	
501.2	12.0	22.9	34.9	46.0	
509.8	8.0	23.1	31.1	46.0	
515.5	9.5	23.2	32.7	46.0	
534.6	14.5	23.6	38.1	46.0	
538.1	11.5	23.7	35.2	46.0	
601.4	9.0	25.0	34.0	46.0	
704.0	7.5	27.7	35.2	46.0	
750.0	4.5	28.1	32.6	46.0	
768.5	4.0	28.2	32.2	46.0	
800.0	3.5	28.5	32.0	46.0	

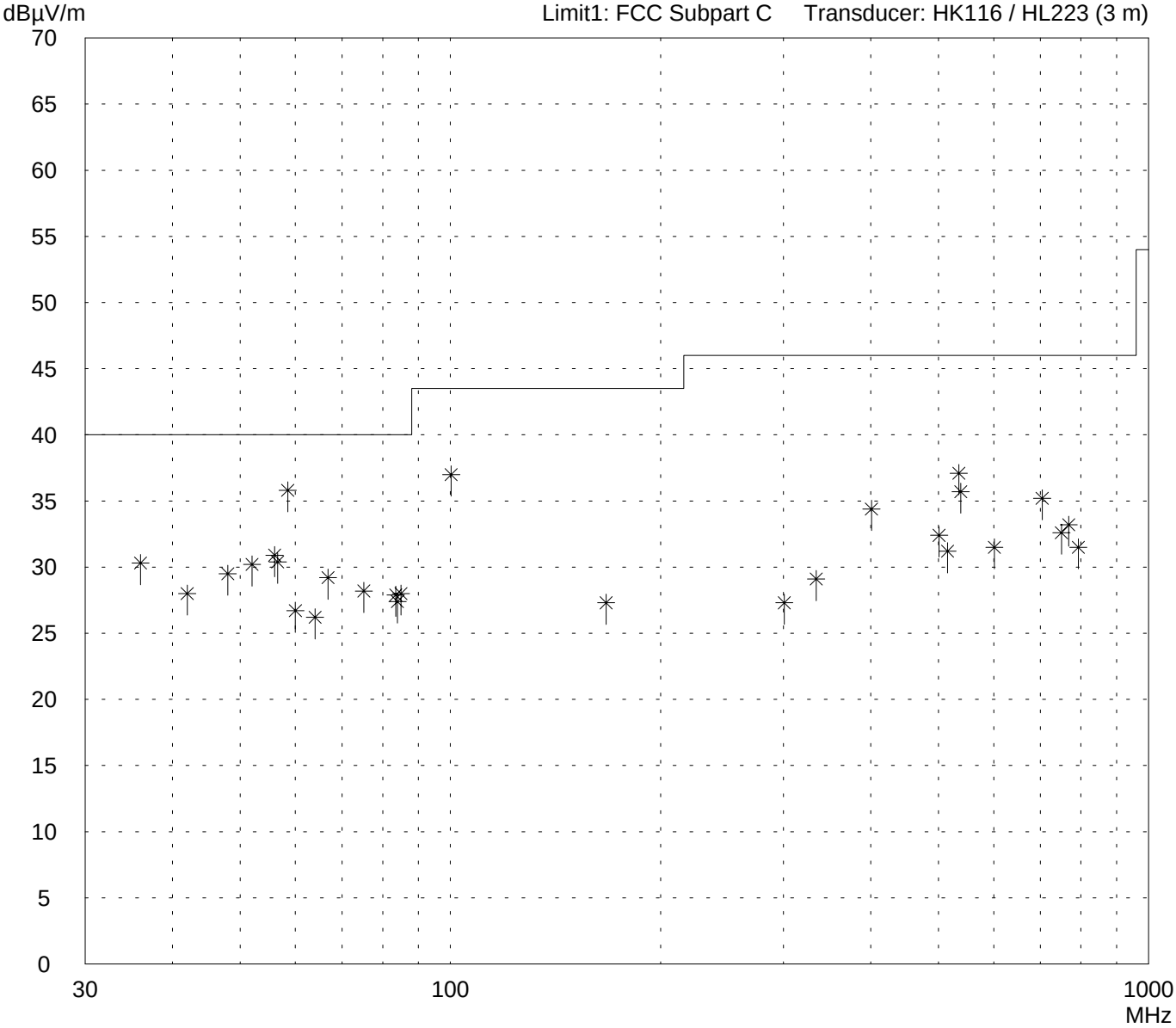
Result: Limit kept

Project file: 56305-90067-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Open area test-site I	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 02/02/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: by hand / File name:	- operating with bit rate 2 MBit
	- TX mode with f = 2.462 GHz

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-90067-1

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Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-T-FC with AOU24-YA-1414

Serial no.:
84490006 (RF-modem), sample no. 1 (antenna)

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 02/02/1999

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.462 GHz

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
36.0	17.0	13.3	30.3	40.0	
42.0	16.0	12.0	28.0	40.0	
48.0	18.5	11.0	29.5	40.0	
52.0	19.5	10.7	30.2	40.0	
56.0	20.5	10.4	30.9	40.0	
56.6	20.0	10.4	30.4	40.0	
58.5	25.5	10.3	35.8	40.0	
60.0	16.5	10.2	26.7	40.0	
64.0	16.0	10.2	26.2	40.0	
66.8	19.0	10.2	29.2	40.0	
75.2	18.0	10.2	28.2	40.0	
83.5	17.5	10.4	27.9	40.0	
84.0	17.0	10.4	27.4	40.0	
85.0	17.5	10.5	28.0	40.0	
100.3	25.5	11.5	37.0	43.5	
167.1	11.5	15.8	27.3	43.5	
300.7	10.5	16.8	27.3	46.0	
334.1	11.0	18.1	29.1	46.0	
400.9	14.0	20.4	34.4	46.0	
501.2	9.5	22.9	32.4	46.0	
515.5	8.0	23.2	31.2	46.0	
534.6	13.5	23.6	37.1	46.0	
538.1	12.0	23.7	35.7	46.0	
601.4	6.5	25.0	31.5	46.0	
704.0	7.5	27.7	35.2	46.0	
750.0	4.5	28.1	32.6	46.0	
768.5	5.0	28.2	33.2	46.0	
793.1	3.0	28.5	31.5	46.0	

Result: Limit kept

Project file: 56305-90067-1

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 01/28/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.412 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	59.6		0.6	20.7	59.6	74
2.3970	vertical	73.5		0.6	20.7	73.5	NRB
2.3975	vertical	76.0		0.6	20.7	76.0	NRB
2.4000	vertical	74.2		0.6	20.7	74.2	NRB
2.4108	vertical	112.7		0.6	20.7	112.7	OB
2.4297	vertical	73.7		0.6	20.7	73.7	OB
4.8303	vertical	39.8	-94.8		27.3	39.5	74
7.2417	vertical	40.9	-94.8		29.9	42.1	NRB
8.2513	vertical	43.1	-96.6		33.4	43.8	74
9.6467	vertical	44.5	-95.0		33.4	45.4	NRB

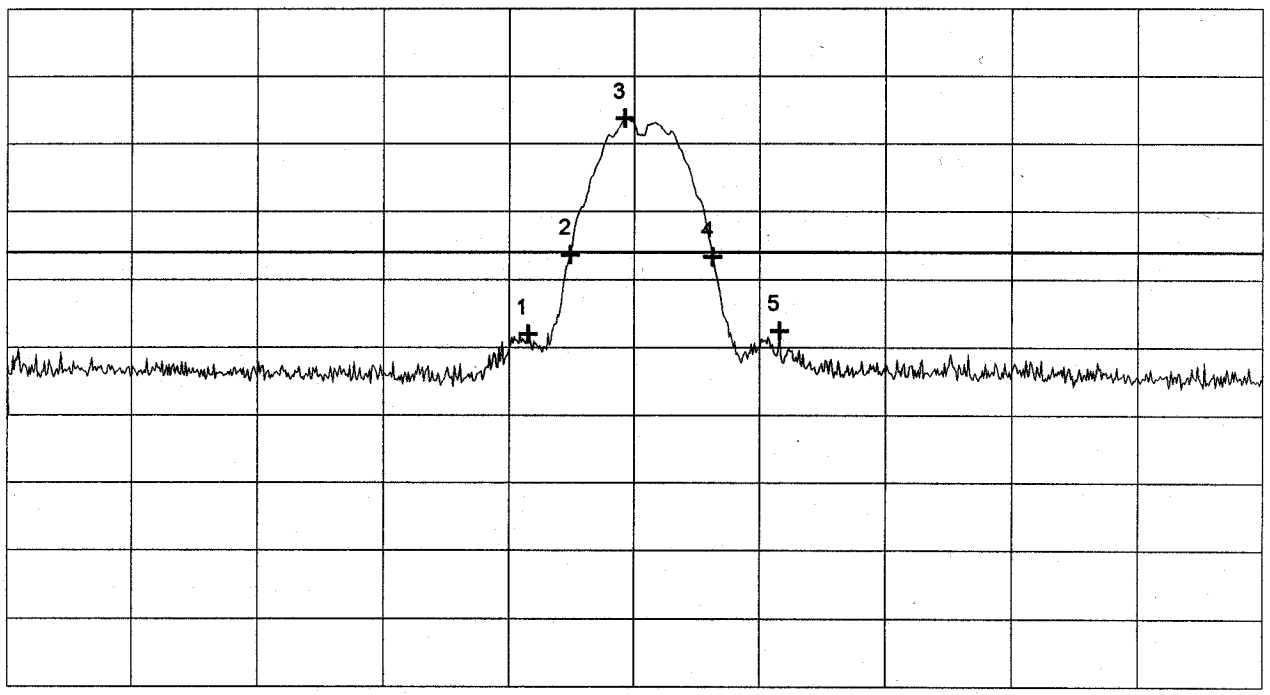
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 112.7 dBµV/m.

Result: The limits are kept

Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m ATT 10 dB Ref. Offset 21.3 dB
10 dB dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

**** Multi Marker ****

Nr.1	2.399333 GHz	61.96 dBµV/m
Nr.2	2.404333 GHz	73.64 dBµV/m
Nr.3	2.410833 GHz	93.78 dBµV/m
Nr.4	2.421333 GHz	73.29 dBµV/m
Nr.5	2.429333 GHz	62.47 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

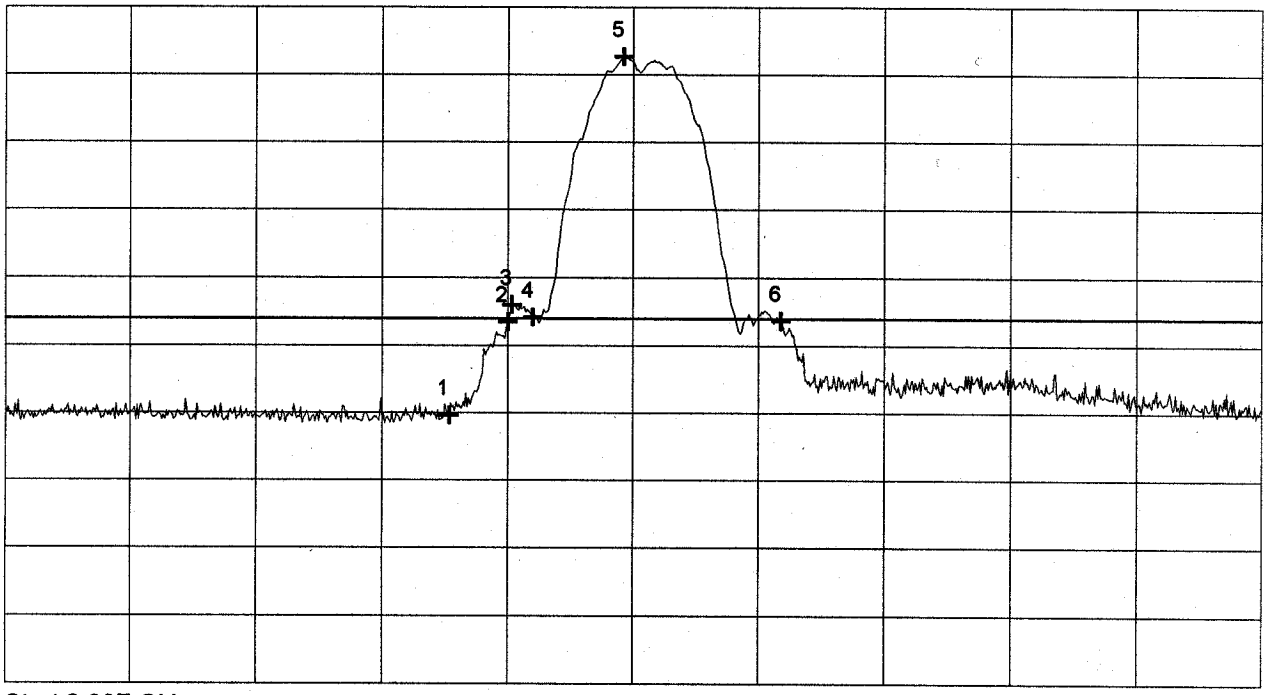
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	59.62 dBµV/m
Nr.2	2.397000 GHz	73.51 dBµV/m
Nr.3	2.397500 GHz	76.00 dBµV/m
Nr.4	2.400000 GHz	74.19 dBµV/m
Nr.5	2.410833 GHz	112.69 dBµV/m
Nr.6	2.429667 GHz	73.69 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 01/28/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.412 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	48.2		0.6	20.7	48.2	54
2.3930	vertical	53.4		0.6	20.7	53.4	NRB
2.3983	vertical	70.5		0.6	20.7	70.5	NRB
2.4000	vertical	67.8		0.6	20.7	67.8	NRB
2.4097	vertical	108.5		0.6	20.7	108.5	OB
2.4322	vertical	53.5		0.6	20.7	53.5	OB
4.8241	vertical	30.8	-103.6		27.3	30.7	54

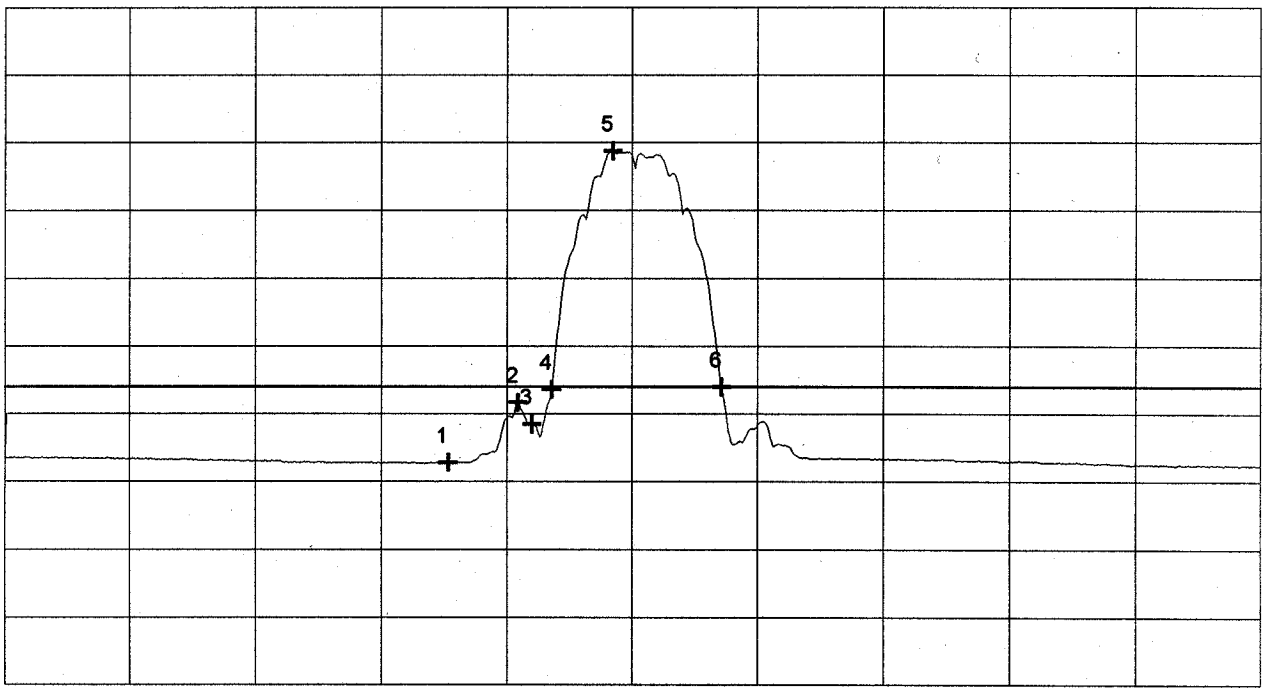
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 108.5 dBµV/m.

Result: The limits are kept

Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m ATT 10 dB Ref. Offset 21.3 dB
10 dB dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 100 Hz SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	42.74 dBµV/m
Nr.2	2.398333 GHz	51.63 dBµV/m
Nr.3	2.400000 GHz	48.45 dBµV/m
Nr.4	2.402333 GHz	53.56 dBµV/m
Nr.5	2.409667 GHz	88.73 dBµV/m
Nr.6	2.422667 GHz	53.96 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

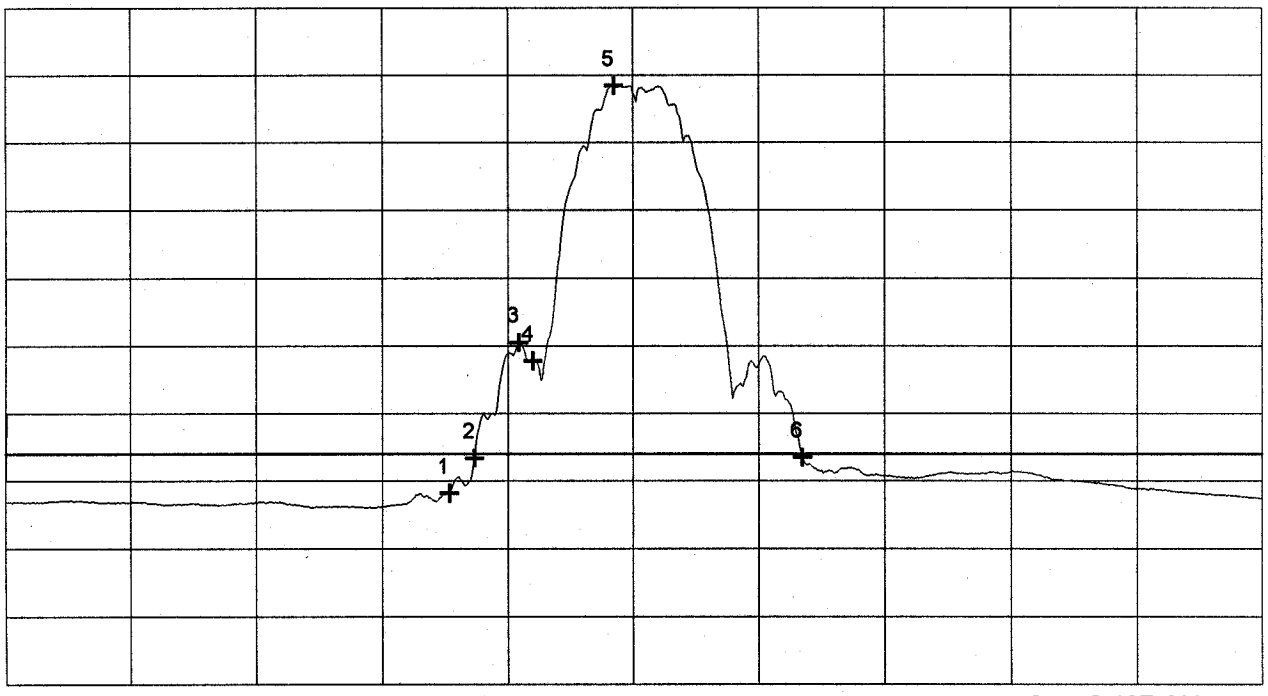
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	48.17 dBµV/m
Nr.2	2.393000 GHz	53.35 dBµV/m
Nr.3	2.398333 GHz	70.49 dBµV/m
Nr.4	2.400000 GHz	67.77 dBµV/m
Nr.5	2.409667 GHz	108.45 dBµV/m
Nr.6	2.432167 GHz	53.45 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 01/28/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4272	vertical	73.4		0.6	20.7	73.4	OB
2.4445	vertical	113.2		0.6	20.7	113.2	OB
2.4543	vertical	73.7		0.6	20.7	73.7	OB
4.8894	vertical	45.3	-89.2		27.3	45.1	74
6.2704	vertical	40.6	-95.5		29.9	41.5	NRB
7.3331	vertical	45.2	-91.5		29.9	45.5	74
8.3680	vertical	43.2	-96.7		33.4	43.7	74
9.7680	horizontal	45.1	-94.9		33.4	45.5	NRB

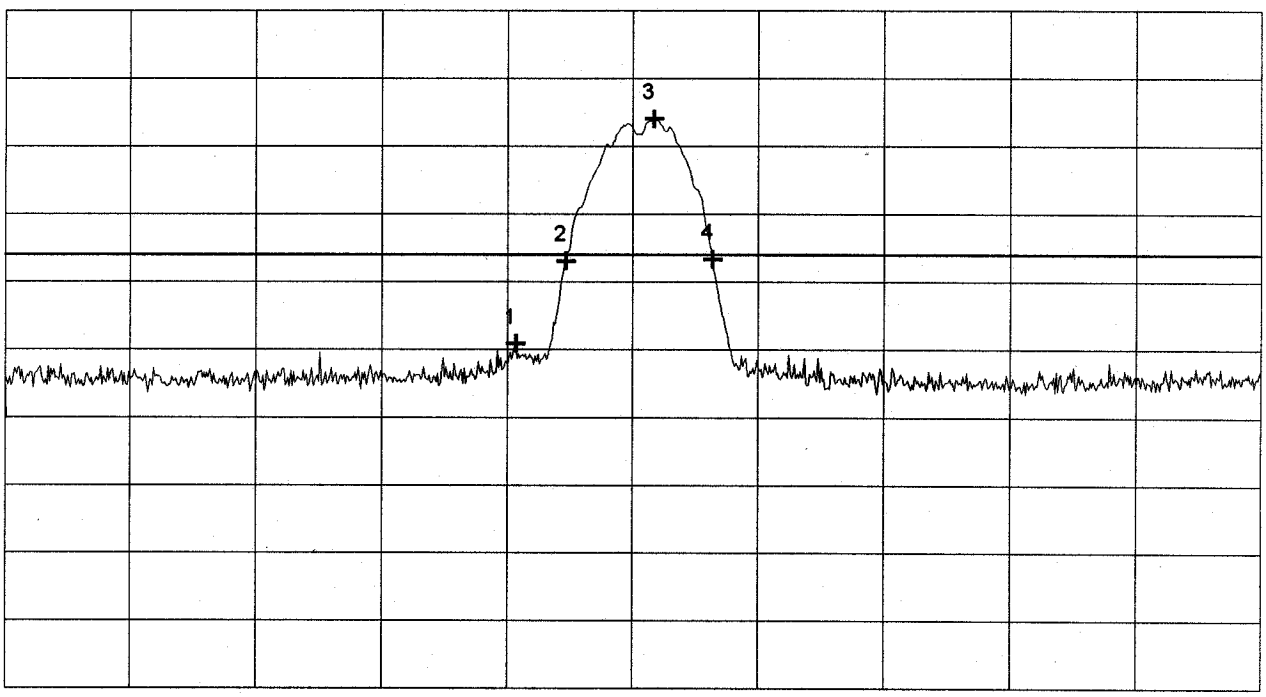
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 113.2 dBµV/m.

Result: The limits are kept

Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m ATT 10 dB Ref. Offset 21.3 dB
10 dB dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

**** Multi Marker ****

Nr.1	2.428000 GHz	60.84 dBµV/m
Nr.2	2.434000 GHz	73.06 dBµV/m
Nr.3	2.444500 GHz	94.06 dBµV/m
Nr.4	2.451500 GHz	73.34 dBµV/m
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

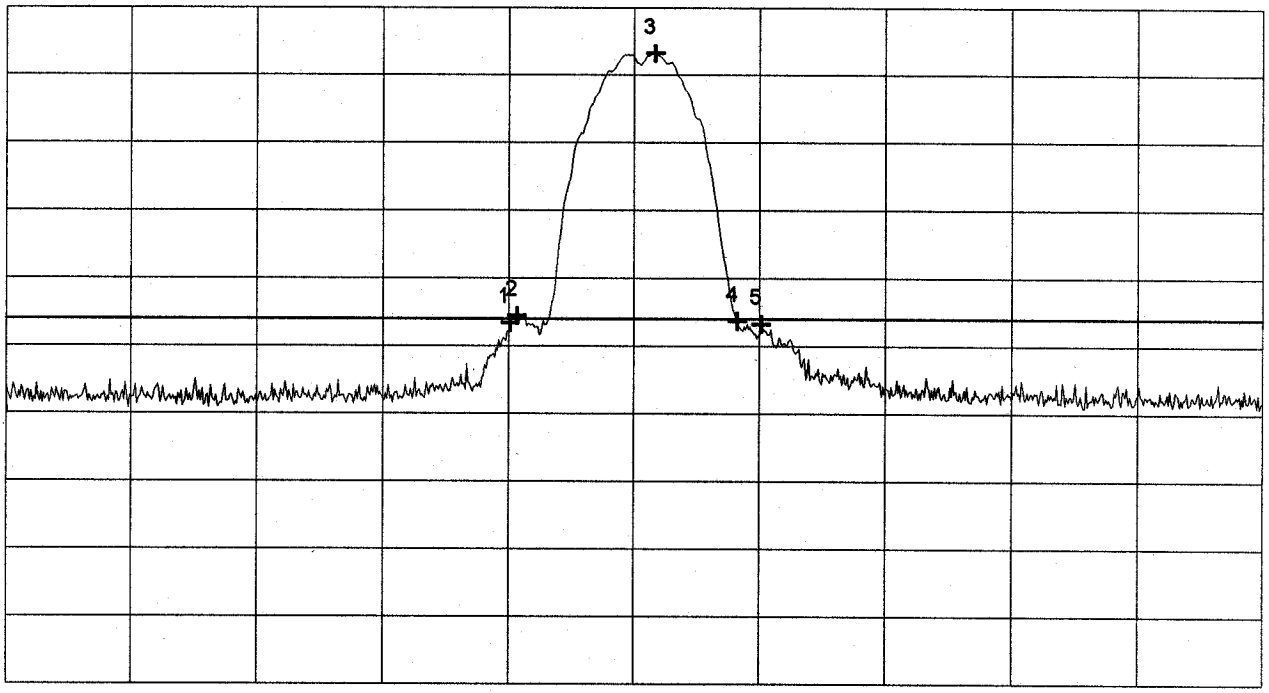
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.427167 GHz	73.38 dBµV/m
Nr.2	2.428000 GHz	74.40 dBµV/m
Nr.3	2.444500 GHz	113.20 dBµV/m
Nr.4	2.454333 GHz	73.69 dBµV/m
Nr.5	2.457167 GHz	73.26 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 01/28/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4237	vertical	54.0		0.6	20.7	54.0	OB
2.4428	vertical	109.5		0.6	20.7	109.5	OB
2.4617	vertical	53.9		0.6	20.7	53.9	OB
4.8840	vertical	40.7	-93.5		27.3	40.8	54
7.3292	vertical	38.9	-97.7		29.9	39.2	54
9.7682	horizontal	43.0	-96.8		33.4	43.6	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 109.5 dBµV/m.

Result: The limits are kept

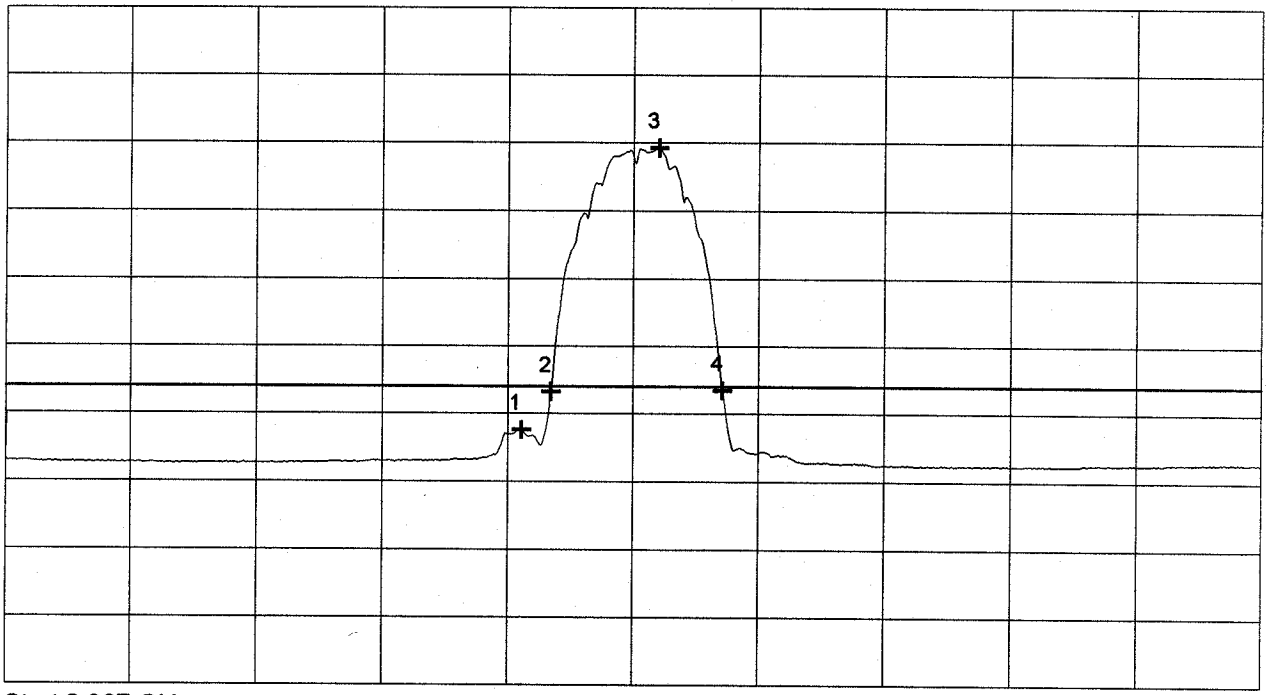
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.428667 GHz	47.56 dBµV/m
Nr.2	2.432167 GHz	53.20 dBµV/m
Nr.3	2.445000 GHz	89.21 dBµV/m
Nr.4	2.452667 GHz	53.43 dBµV/m
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

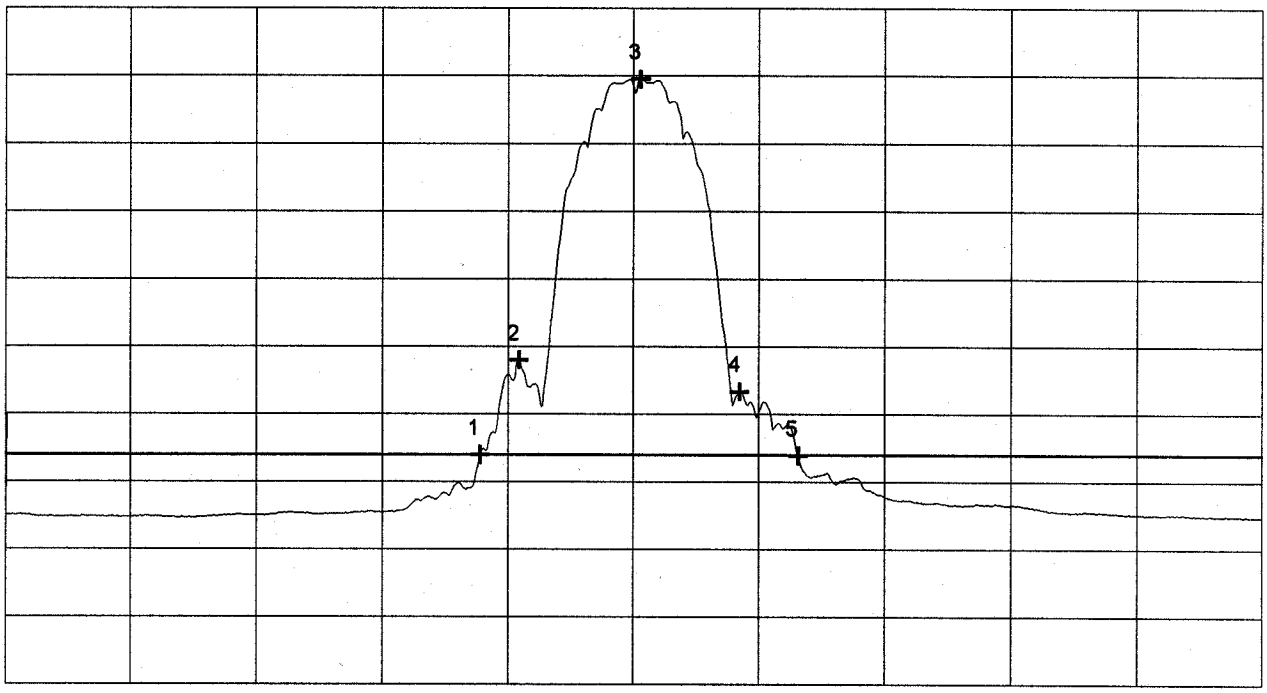
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.423667 GHz	53.96 dBµV/m
Nr.2	2.428333 GHz	68.00 dBµV/m
Nr.3	2.442833 GHz	109.47 dBµV/m
Nr.4	2.454667 GHz	63.33 dBµV/m
Nr.5	2.461667 GHz	53.86 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 01/28/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.462 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4473	vertical	73.6		0.6	20.7	73.6	OB
2.4608	vertical	113.5		0.6	20.7	113.5	OB
2.4743	vertical	73.2		0.6	20.7	73.2	OB
2.4835	vertical	64.8		0.6	20.7	64.8	74
2.4862	vertical	64.9		0.6	20.7	64.9	74
2.5000	vertical	62.9		0.6	20.7	62.9	74
4.9296	vertical	48.1	-86.3		27.3	48.0	74
7.3906	vertical	42.8	-93.3		30.0	43.7	74
8.4473	vertical	45.1	-95.1		33.4	45.3	74
9.8473	vertical	45.6	-94.1		33.4	46.3	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 113.5 dBµV/m.

Result: The limits are kept

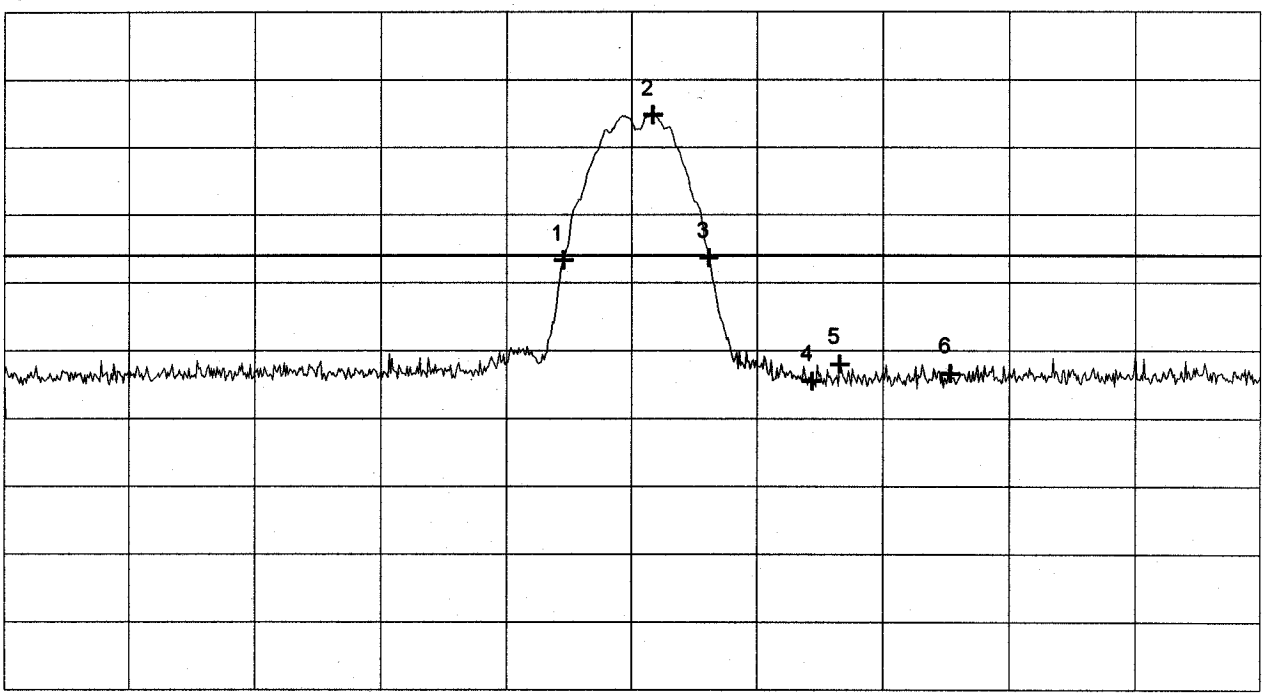
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.453833 GHz	73.29 dBµV/m
Nr.2	2.464500 GHz	94.85 dBµV/m
Nr.3	2.471167 GHz	73.67 dBµV/m
Nr.4	2.483500 GHz	55.54 dBµV/m
Nr.5	2.486833 GHz	58.02 dBµV/m
Nr.6	2.500000 GHz	56.68 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

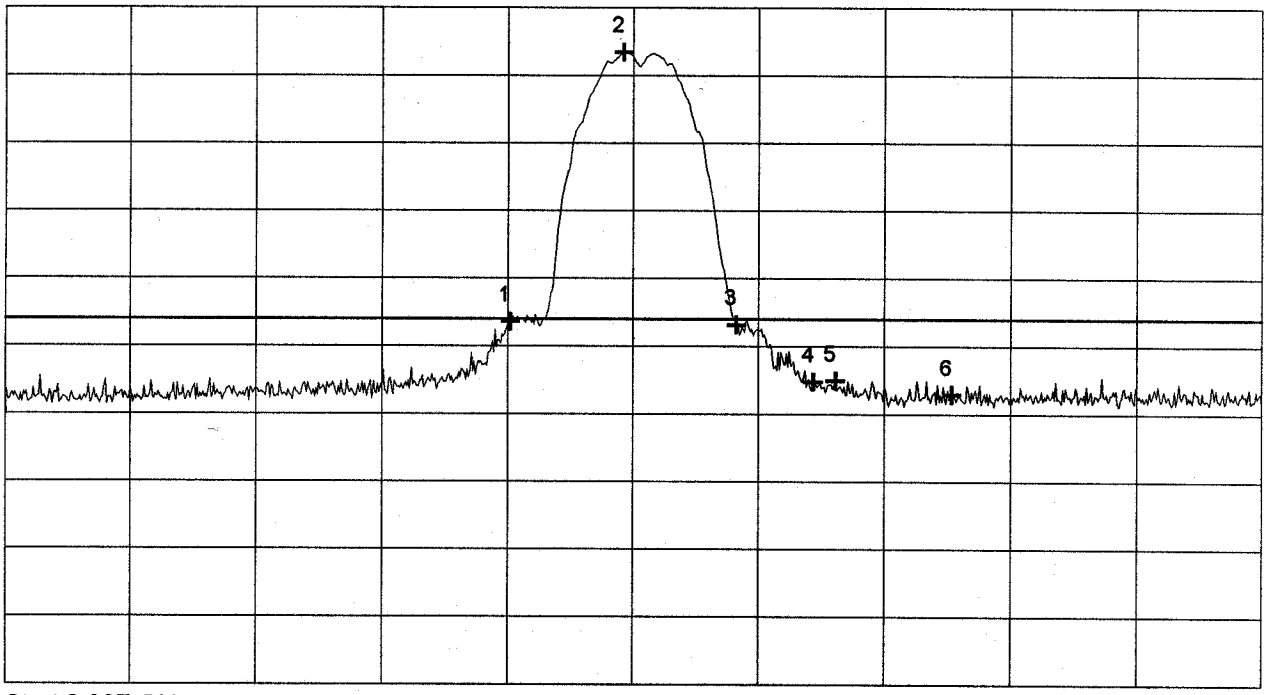
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.447333 GHz	73.56 dBµV/m
Nr.2	2.460833 GHz	113.45 dBµV/m
Nr.3	2.474333 GHz	73.15 dBµV/m
Nr.4	2.483500 GHz	64.75 dBµV/m
Nr.5	2.486167 GHz	64.93 dBµV/m
Nr.6	2.500000 GHz	62.92 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 01/28/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.462 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4433	vertical	53.7		0.6	20.7	53.7	OB
2.4595	vertical	109.8		0.6	20.7	109.8	OB
2.4812	vertical	53.8		0.6	20.7	53.8	OB
2.4835	vertical	49.1		0.6	20.7	49.1	54
2.4853	vertical	49.7		0.6	20.7	49.7	54
2.5000	vertical	45.2		0.6	20.7	45.2	54
4.9244	vertical	45.9	-88.3		27.3	46.0	54
8.4402	vertical	42.2	-97.9		33.4	42.5	54
9.8482	vertical	43.9	-96.2		33.4	44.2	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 109.8 dBµV/m.

Result: The limits are kept

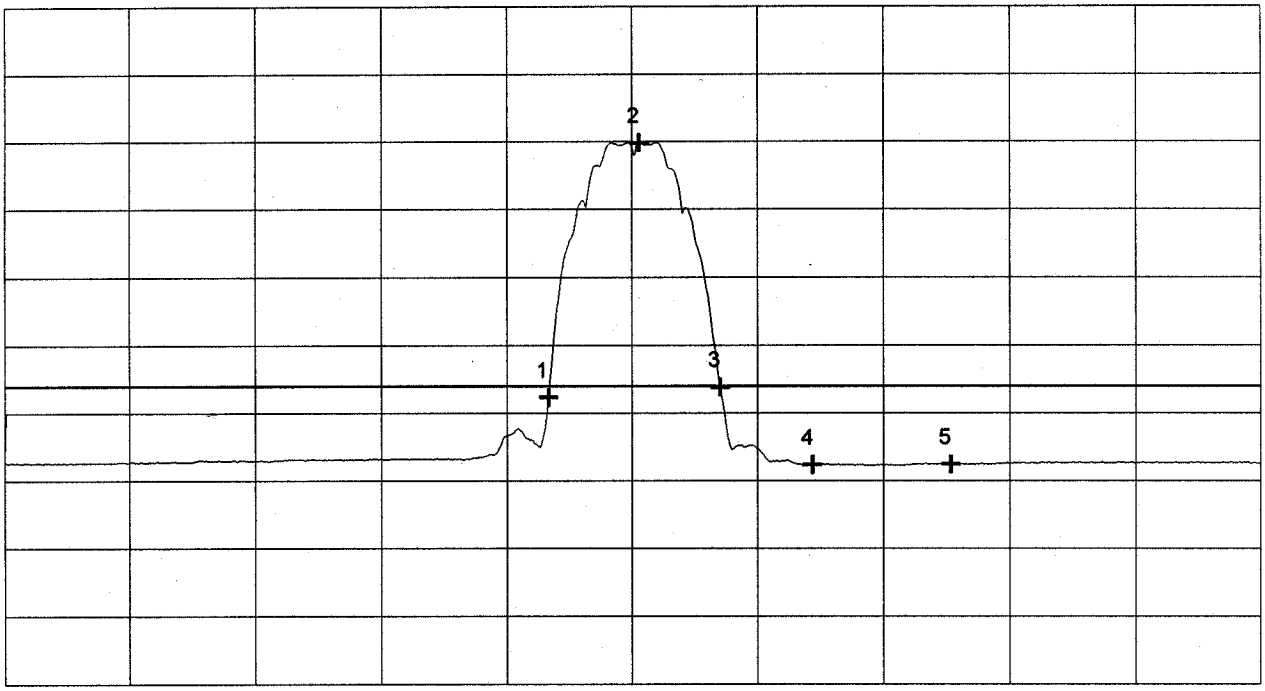
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.452000 GHz	52.31 dBµV/m
Nr.2	2.462833 GHz	89.82 dBµV/m
Nr.3	2.472500 GHz	53.83 dBµV/m
Nr.4	2.483500 GHz	42.36 dBµV/m
Nr.5	2.500000 GHz	42.41 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

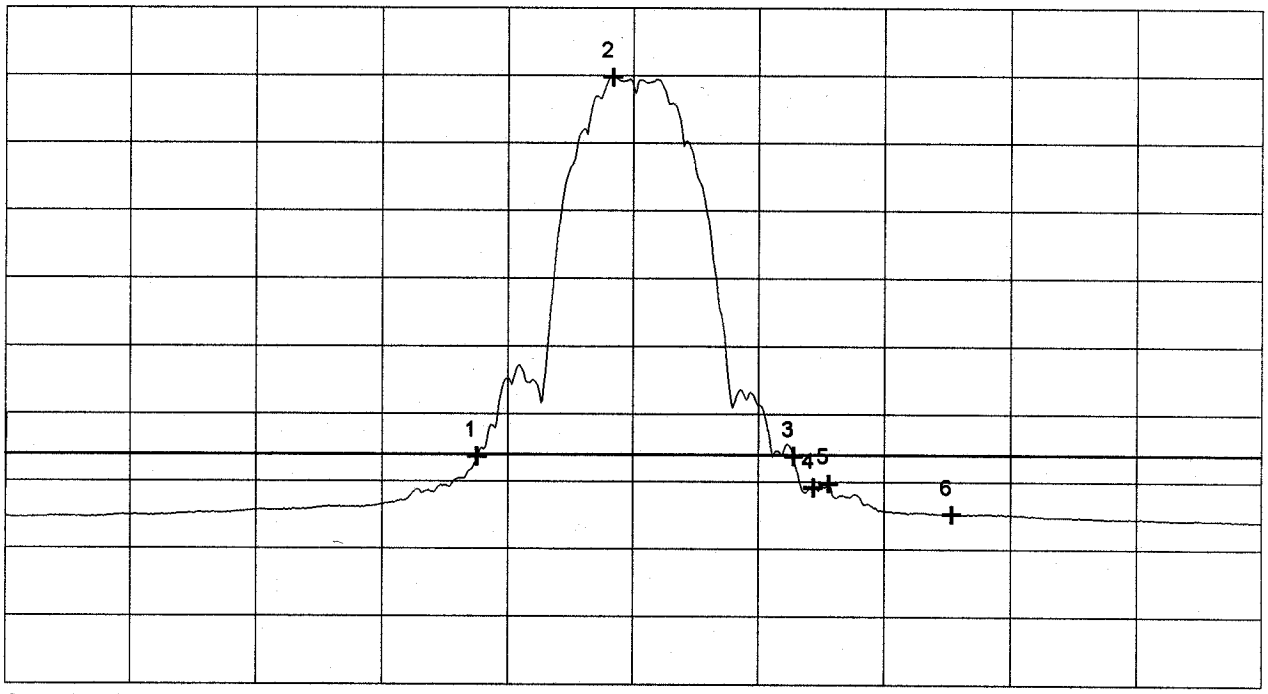
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.443333 GHz	53.68 dBµV/m
Nr.2	2.459500 GHz	109.77 dBµV/m
Nr.3	2.481167 GHz	53.76 dBµV/m
Nr.4	2.483500 GHz	49.11 dBµV/m
Nr.5	2.485333 GHz	49.72 dBµV/m
Nr.6	2.500000 GHz	45.17 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-YA-1414
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	01/28/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 5 MBit

- TX mode with f = 2.412 GHz

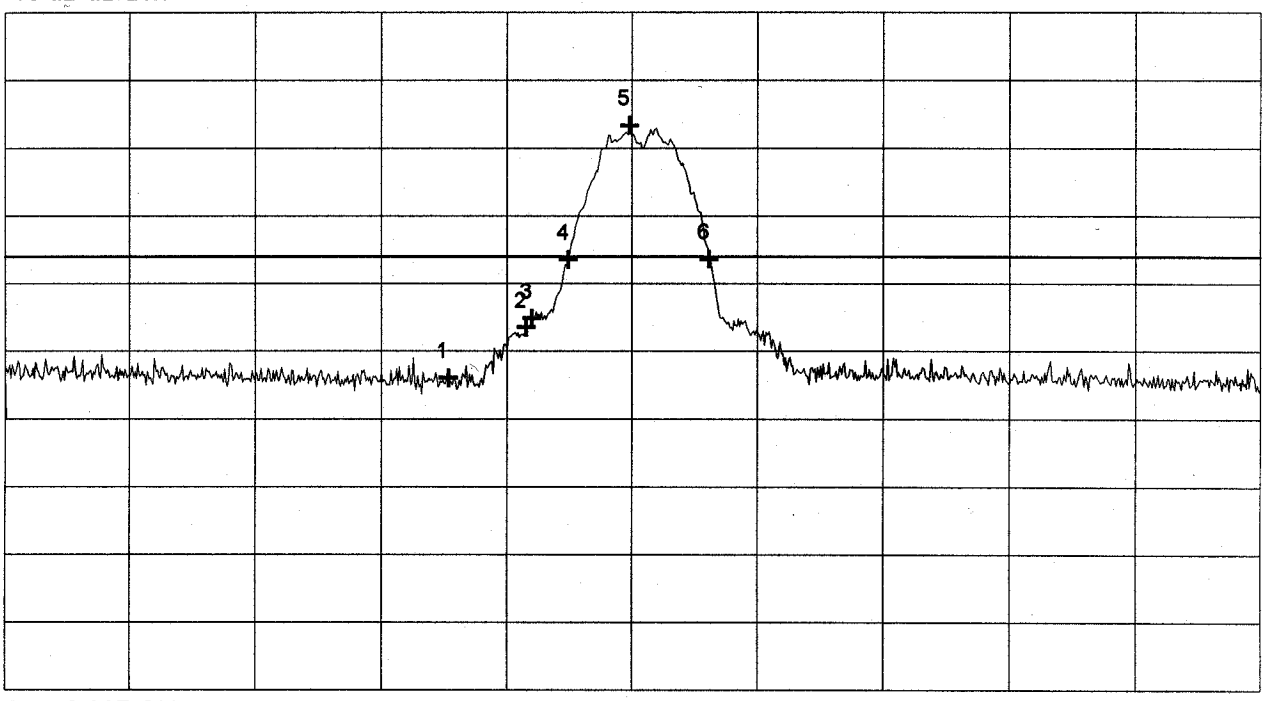
Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m ATT 10 dB Ref. Offset 21.3 dB
10 dB dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	56.04 dBµV/m
Nr.2	2.399333 GHz	63.51 dBµV/m
Nr.3	2.400000 GHz	64.80 dBµV/m
Nr.4	2.404333 GHz	73.57 dBµV/m
Nr.5	2.411667 GHz	93.35 dBµV/m
Nr.6	2.421167 GHz	73.64 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

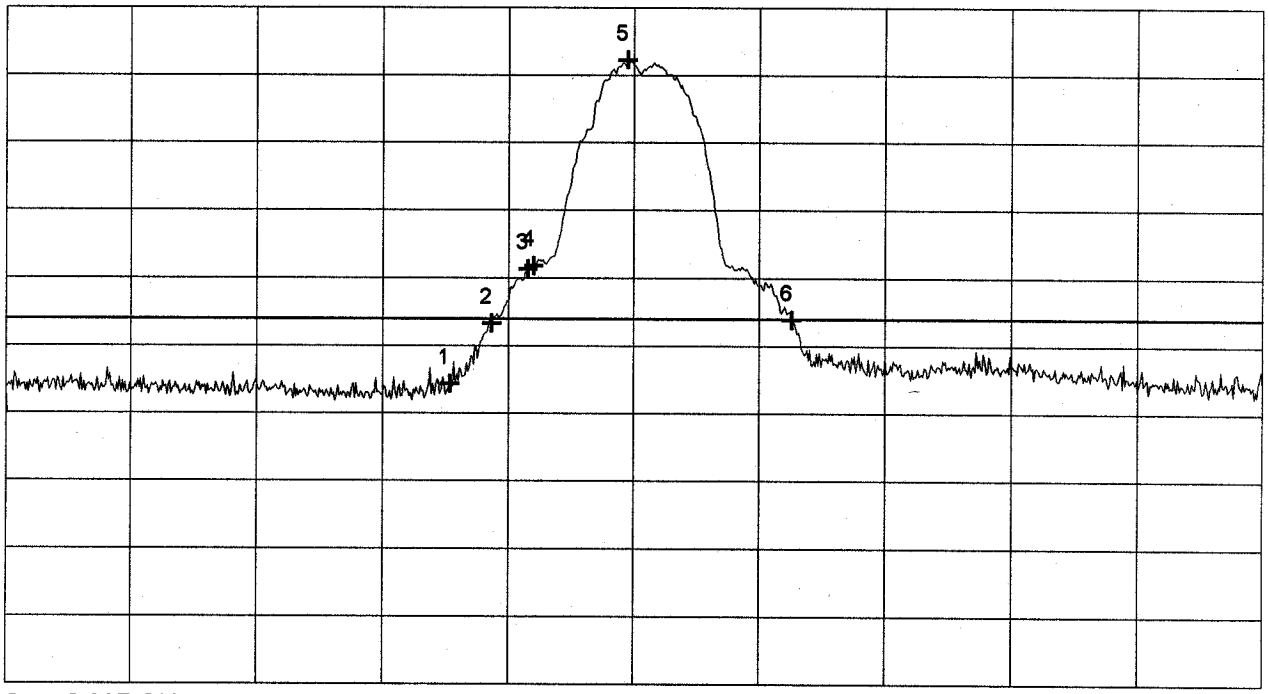
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

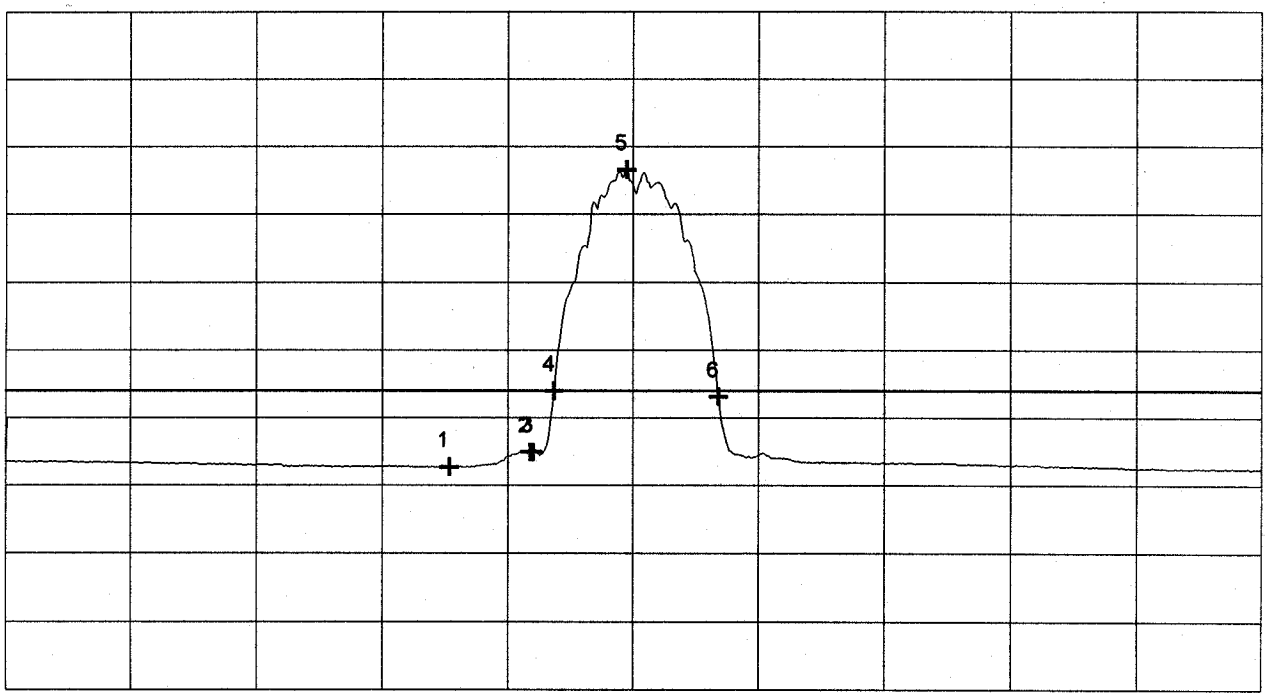
Nr.1	2.390000 GHz	64.34 dBµV/m
Nr.2	2.395000 GHz	73.31 dBµV/m
Nr.3	2.399333 GHz	81.31 dBµV/m
Nr.4	2.400000 GHz	81.79 dBµV/m
Nr.5	2.411167 GHz	112.29 dBµV/m
Nr.6	2.430833 GHz	73.89 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m ATT 10 dB Ref. Offset 21.3 dB
10 dB dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 100 Hz SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	42.66 dBµV/m
Nr.2	2.399667 GHz	44.87 dBµV/m
Nr.3	2.400000 GHz	44.87 dBµV/m
Nr.4	2.402500 GHz	53.96 dBµV/m
Nr.5	2.411167 GHz	86.57 dBµV/m
Nr.6	2.422167 GHz	53.12 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

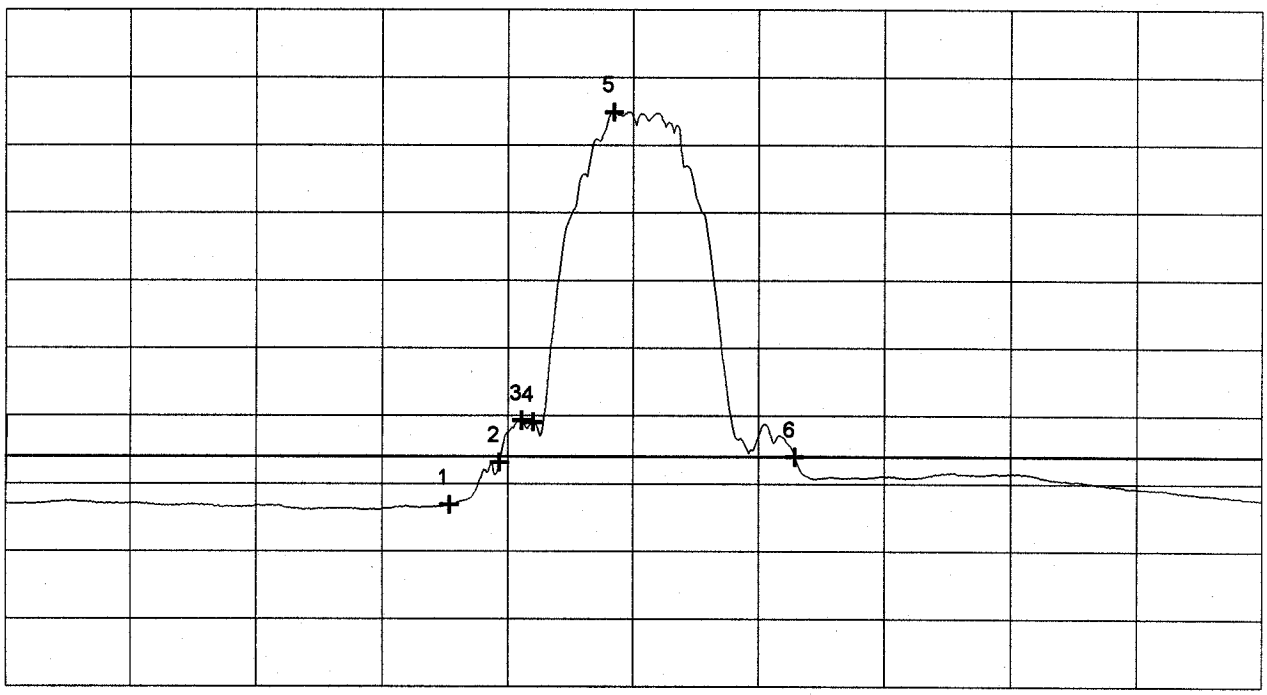
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	46.90 dBµV/m
Nr.2	2.396000 GHz	53.15 dBµV/m
Nr.3	2.398667 GHz	59.29 dBµV/m
Nr.4	2.400000 GHz	59.06 dBµV/m
Nr.5	2.409667 GHz	104.87 dBµV/m
Nr.6	2.431333 GHz	53.96 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-YA-1414
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	01/28/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 5 MBit

- TX mode with f = 2.442 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

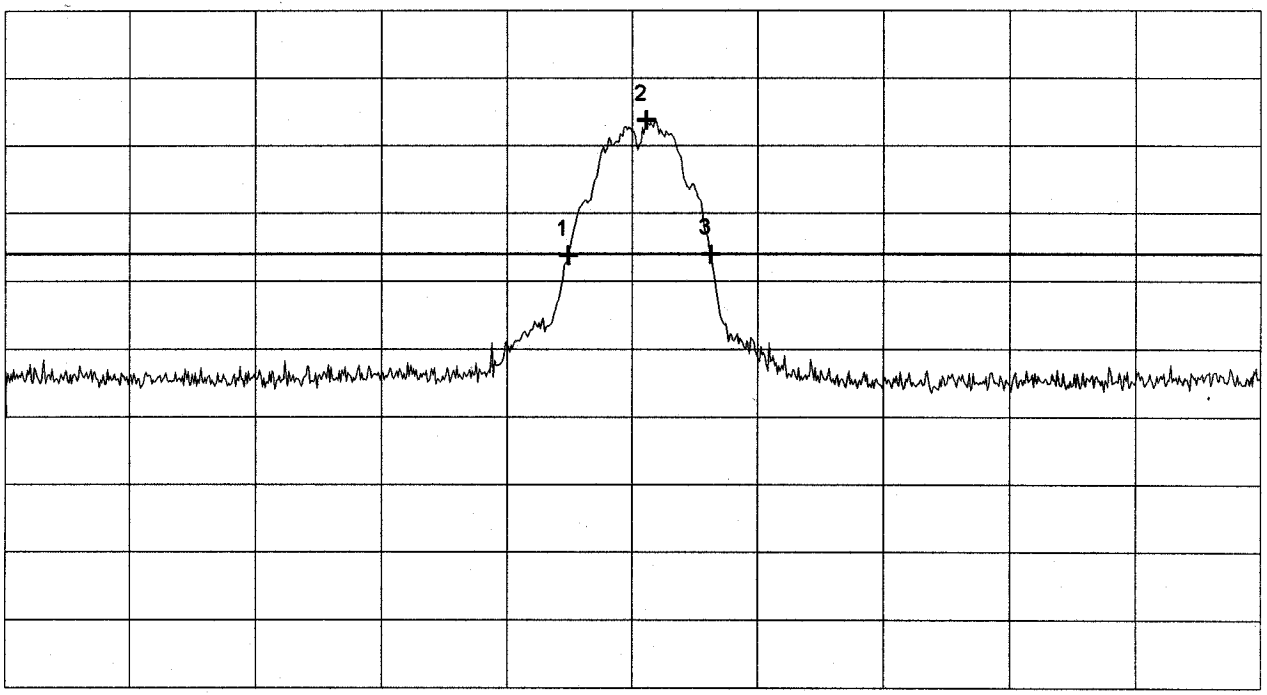
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.434333 GHz	73.77 dBµV/m
Nr.2	2.443667 GHz	93.78 dBµV/m
Nr.3	2.451333 GHz	73.92 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

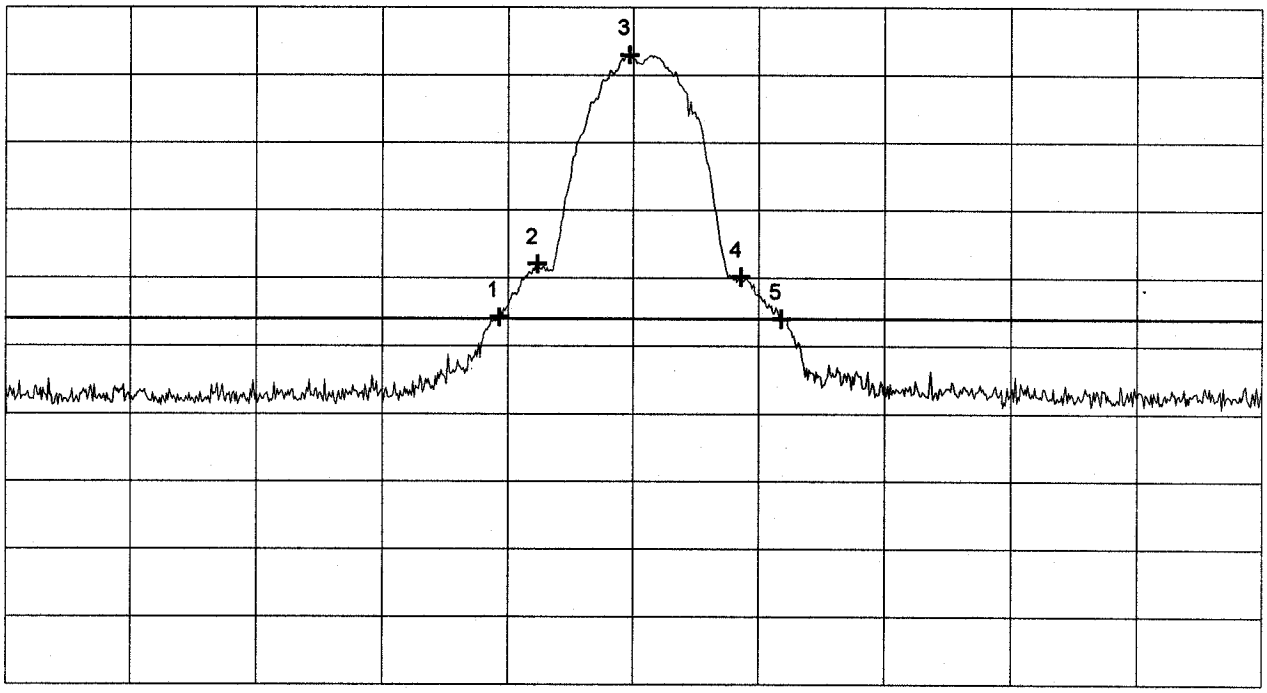
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

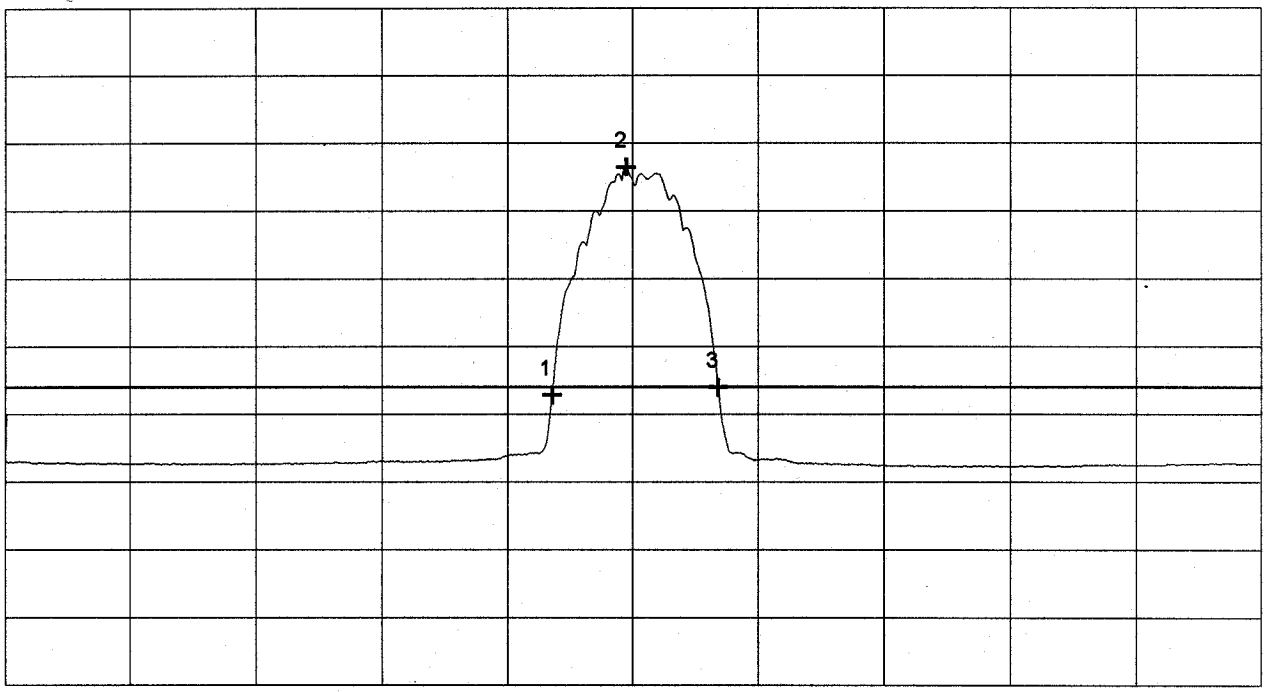
Nr.1	2.426000 GHz	74.22 dBµV/m
Nr.2	2.430500 GHz	82.02 dBµV/m
Nr.3	2.441500 GHz	112.97 dBµV/m
Nr.4	2.454833 GHz	80.16 dBµV/m
Nr.5	2.459667 GHz	73.99 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m ATT 10 dB Ref. Offset 21.3 dB
10 dB dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 100 Hz SWP 4.60 s

**** Multi Marker ****

Nr.1	2.432333 GHz	52.79 dBµV/m
Nr.2	2.441167 GHz	86.47 dBµV/m
Nr.3	2.452167 GHz	53.94 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

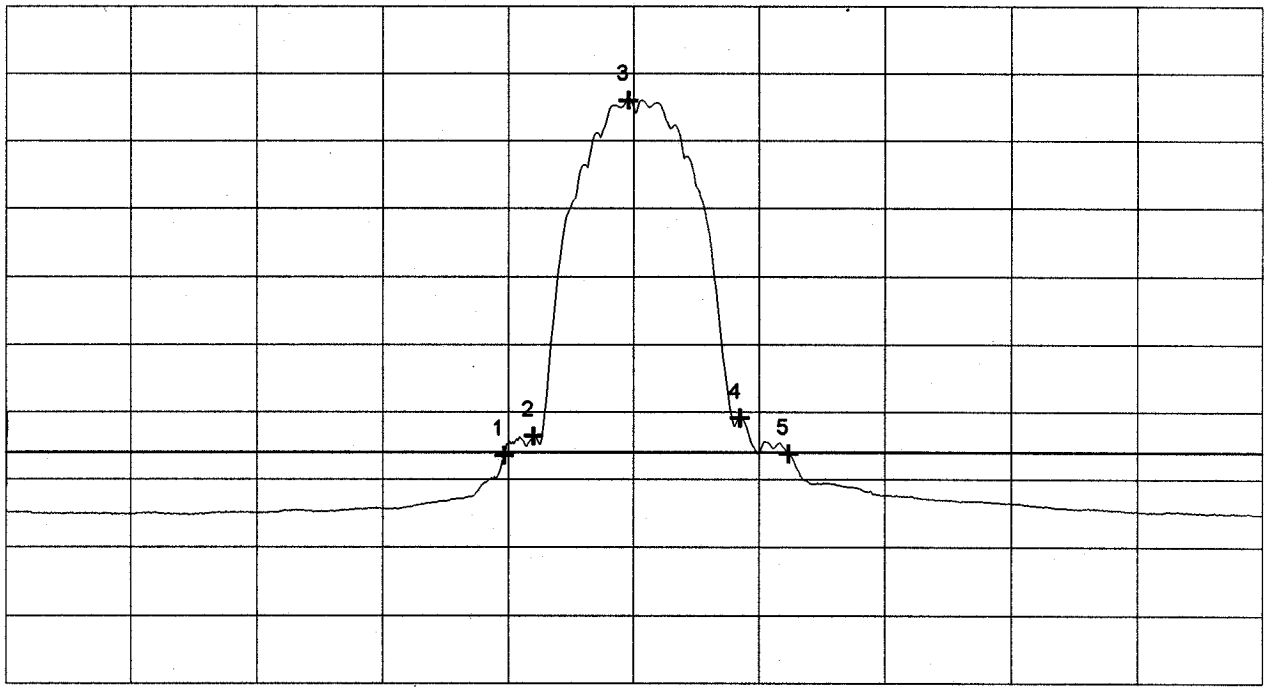
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.426500 GHz	53.53 dBµV/m
Nr.2	2.430000 GHz	56.40 dBµV/m
Nr.3	2.441333 GHz	106.02 dBµV/m
Nr.4	2.454667 GHz	59.09 dBµV/m
Nr.5	2.460500 GHz	53.76 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-YA-1414
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	01/28/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 5 MBit

- TX mode with f = 2.462 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

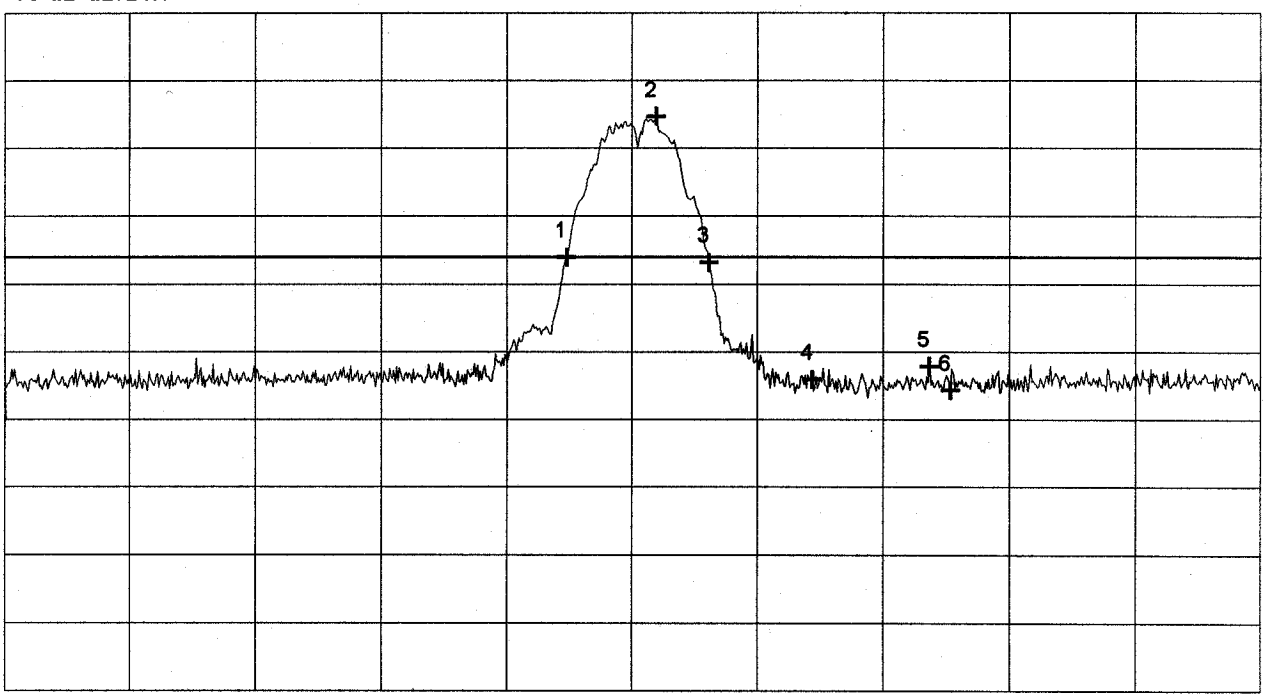
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.454167 GHz	73.95 dBµV/m
Nr.2	2.464833 GHz	94.67 dBµV/m
Nr.3	2.471167 GHz	73.18 dBµV/m
Nr.4	2.483500 GHz	55.92 dBµV/m
Nr.5	2.497500 GHz	57.87 dBµV/m
Nr.6	2.500000 GHz	54.32 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

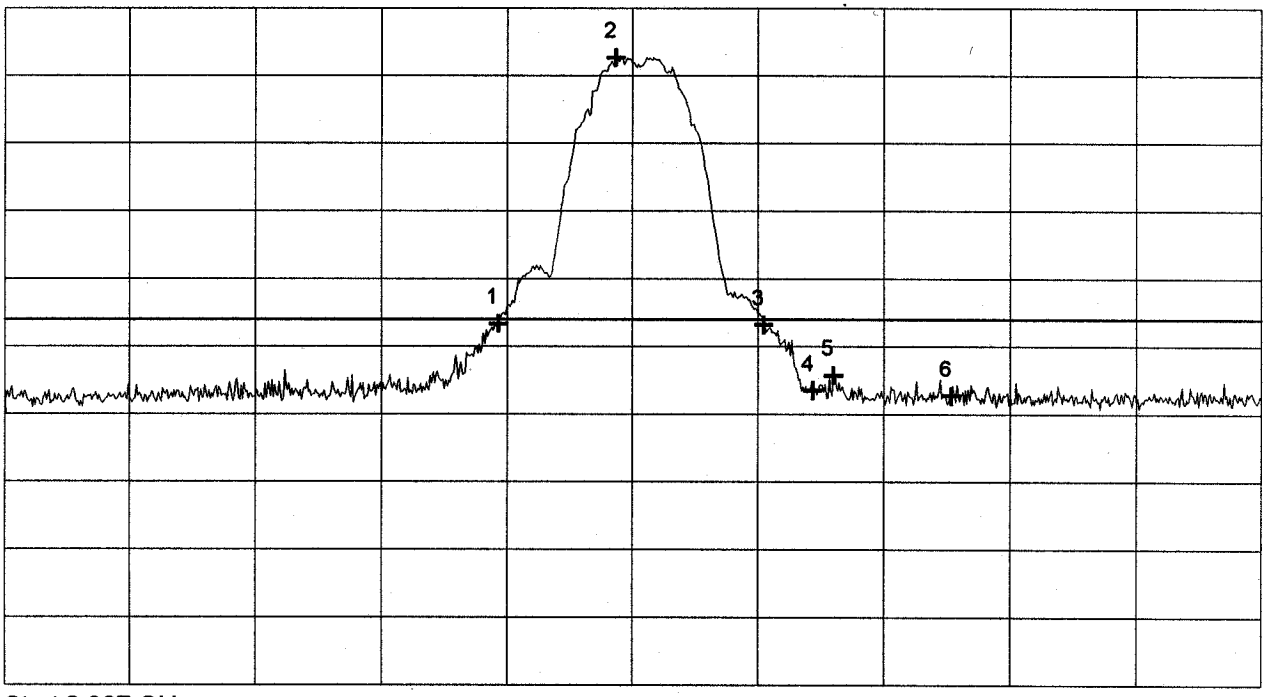
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.446000 GHz	73.36 dBµV/m
Nr.2	2.460000 GHz	112.69 dBµV/m
Nr.3	2.477667 GHz	73.20 dBµV/m
Nr.4	2.483500 GHz	63.48 dBµV/m
Nr.5	2.486000 GHz	65.71 dBµV/m
Nr.6	2.500000 GHz	62.72 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

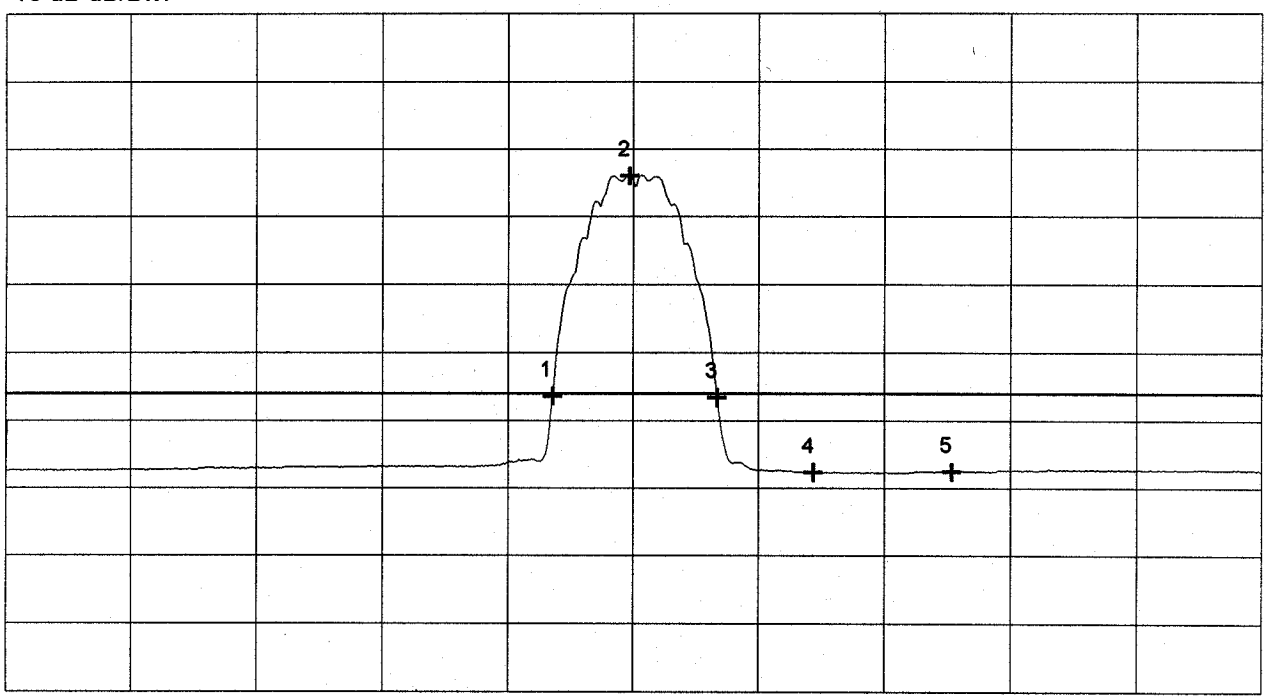
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.452333 GHz	53.61 dBµV/m
Nr.2	2.461500 GHz	86.06 dBµV/m
Nr.3	2.472000 GHz	53.38 dBµV/m
Nr.4	2.483500 GHz	42.33 dBµV/m
Nr.5	2.500000 GHz	42.41 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

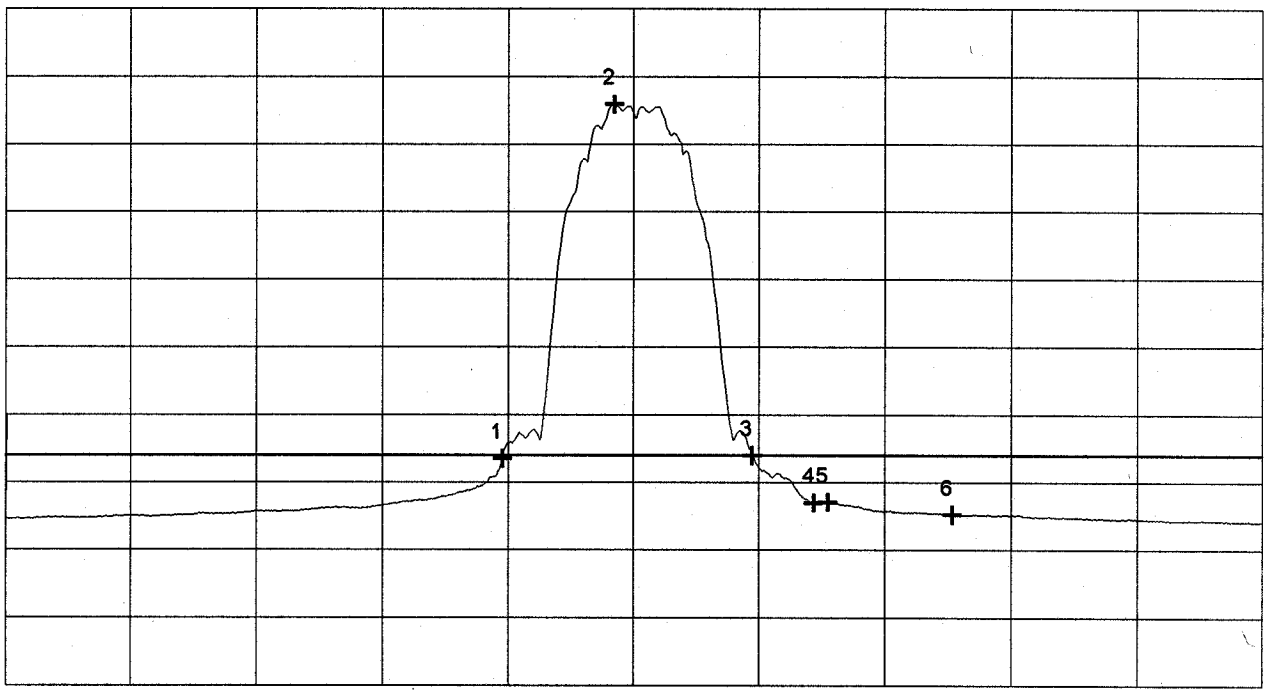
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.446333 GHz	53.48 dBµV/m
Nr.2	2.459667 GHz	105.96 dBµV/m
Nr.3	2.476167 GHz	53.96 dBµV/m
Nr.4	2.483500 GHz	46.95 dBµV/m
Nr.5	2.485167 GHz	47.03 dBµV/m
Nr.6	2.500000 GHz	45.20 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-YA-1414
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	01/28/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 8 MBit

- TX mode with f = 2.412 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

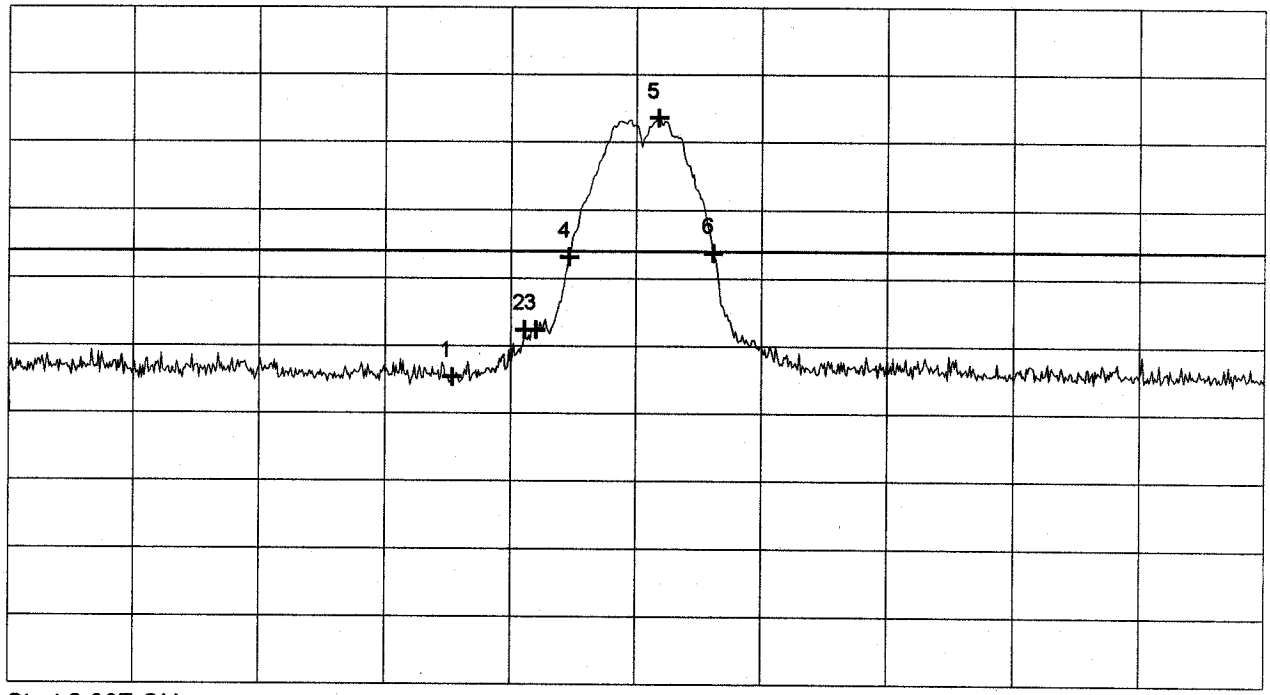
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

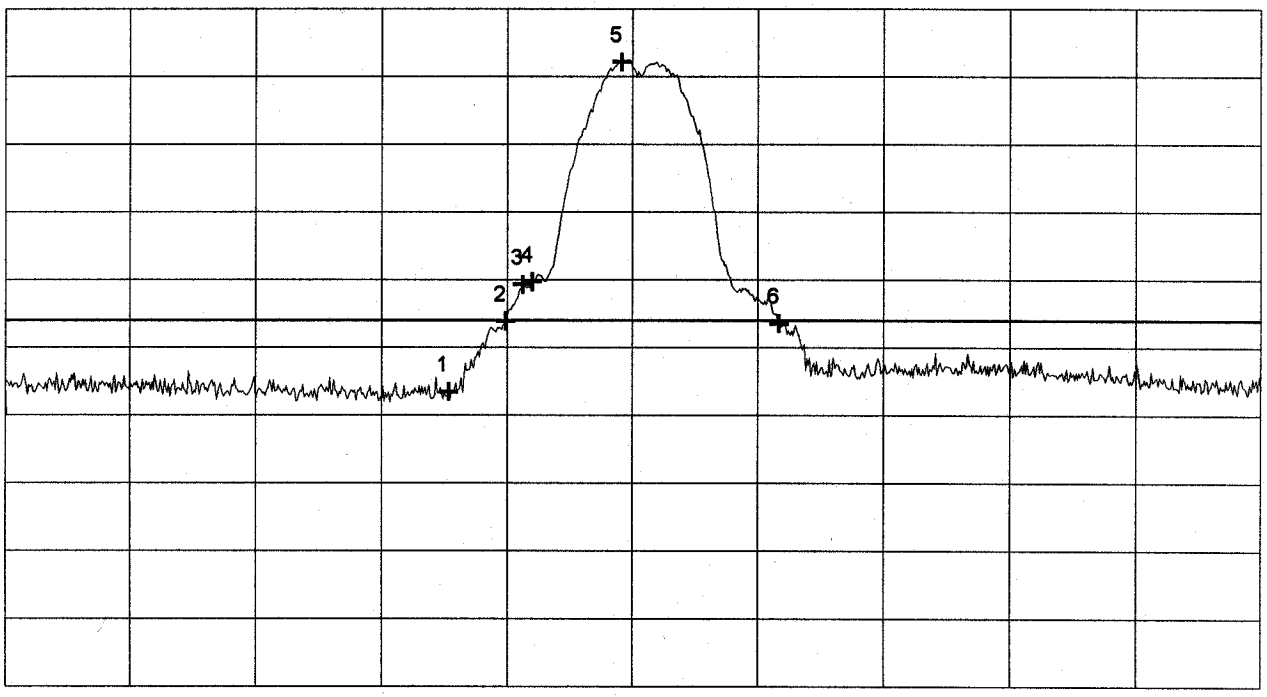
Nr.1	2.390000 GHz	55.36 dBµV/m
Nr.2	2.398667 GHz	62.37 dBµV/m
Nr.3	2.400000 GHz	62.37 dBµV/m
Nr.4	2.404000 GHz	73.13 dBµV/m
Nr.5	2.414667 GHz	93.55 dBµV/m
Nr.6	2.421167 GHz	73.74 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.
ATT 10 dB
Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz
VBW 1 MHz
Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	63.43 dBµV/m
Nr.2	2.396833 GHz	73.89 dBµV/m
Nr.3	2.398833 GHz	79.27 dBµV/m
Nr.4	2.400000 GHz	79.68 dBµV/m
Nr.5	2.410667 GHz	112.16 dBµV/m
Nr.6	2.429500 GHz	73.53 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

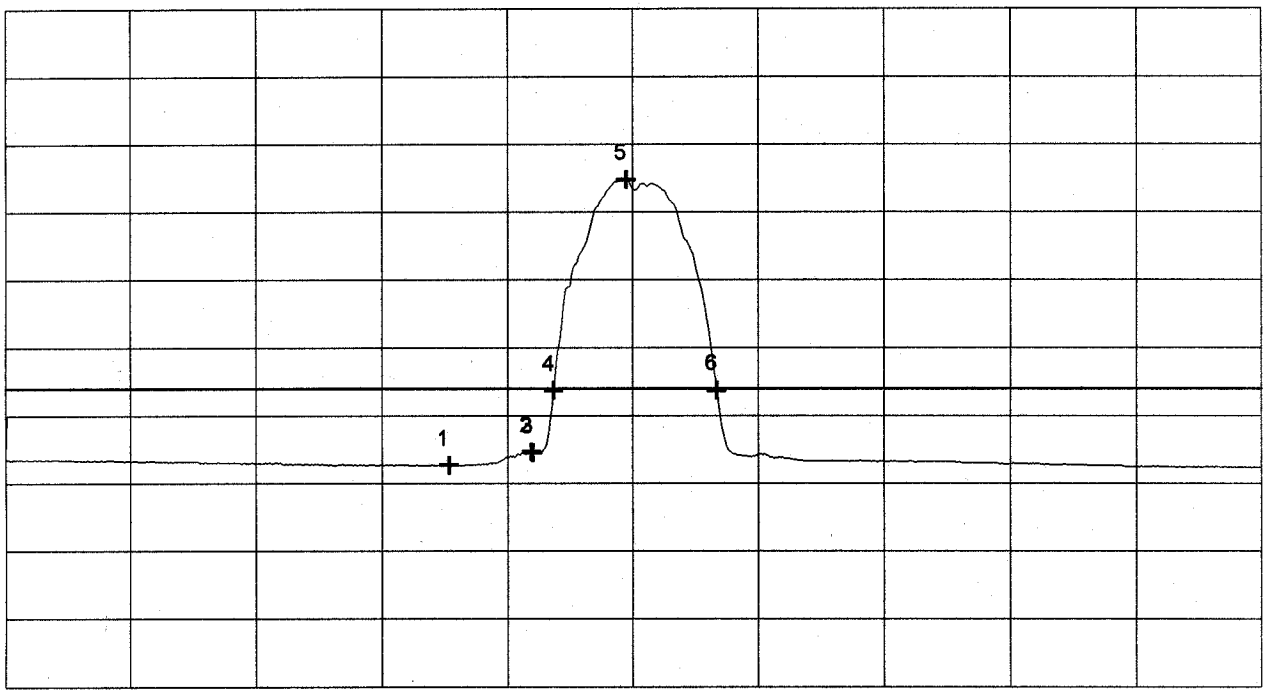
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	42.71 dBµV/m
Nr.2	2.399833 GHz	44.69 dBµV/m
Nr.3	2.400000 GHz	44.54 dBµV/m
Nr.4	2.402500 GHz	53.71 dBµV/m
Nr.5	2.411167 GHz	84.79 dBµV/m
Nr.6	2.422000 GHz	53.73 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

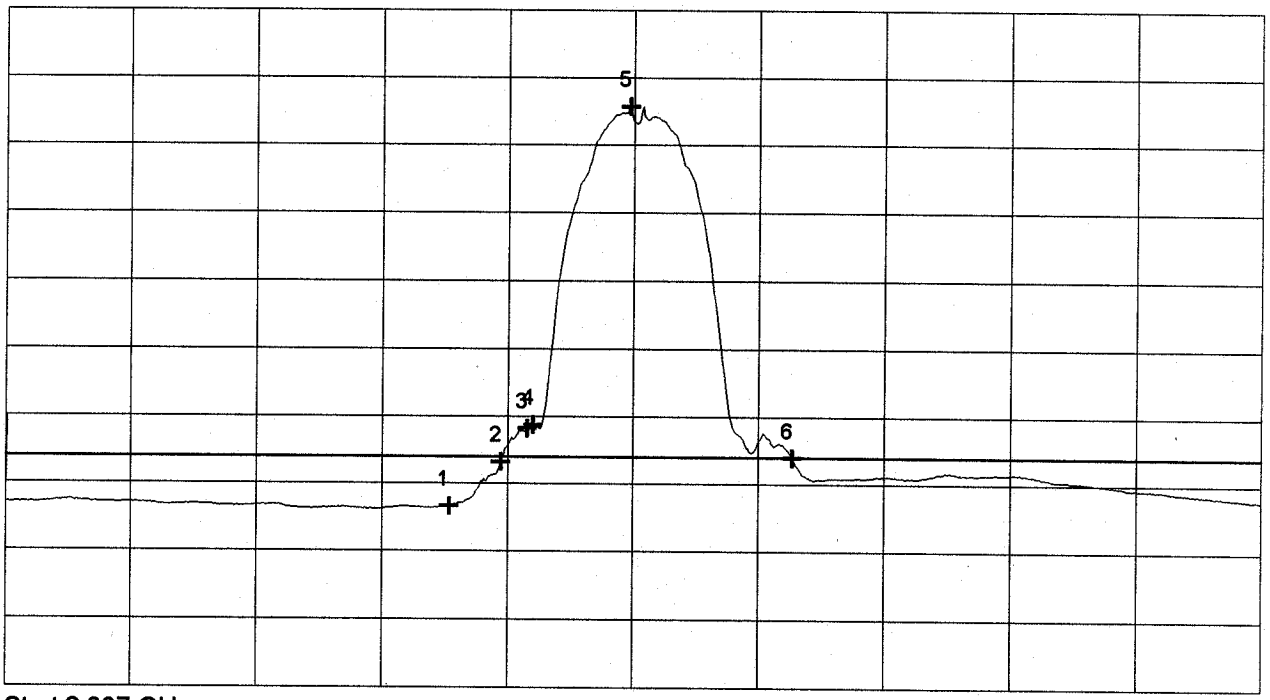
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	46.59 dBµV/m
Nr.2	2.396167 GHz	53.25 dBµV/m
Nr.3	2.399333 GHz	58.20 dBµV/m
Nr.4	2.400000 GHz	58.76 dBµV/m
Nr.5	2.411500 GHz	105.74 dBµV/m
Nr.6	2.431000 GHz	53.93 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-YA-1414
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	01/28/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 8 MBit

- TX mode with f = 2.442 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

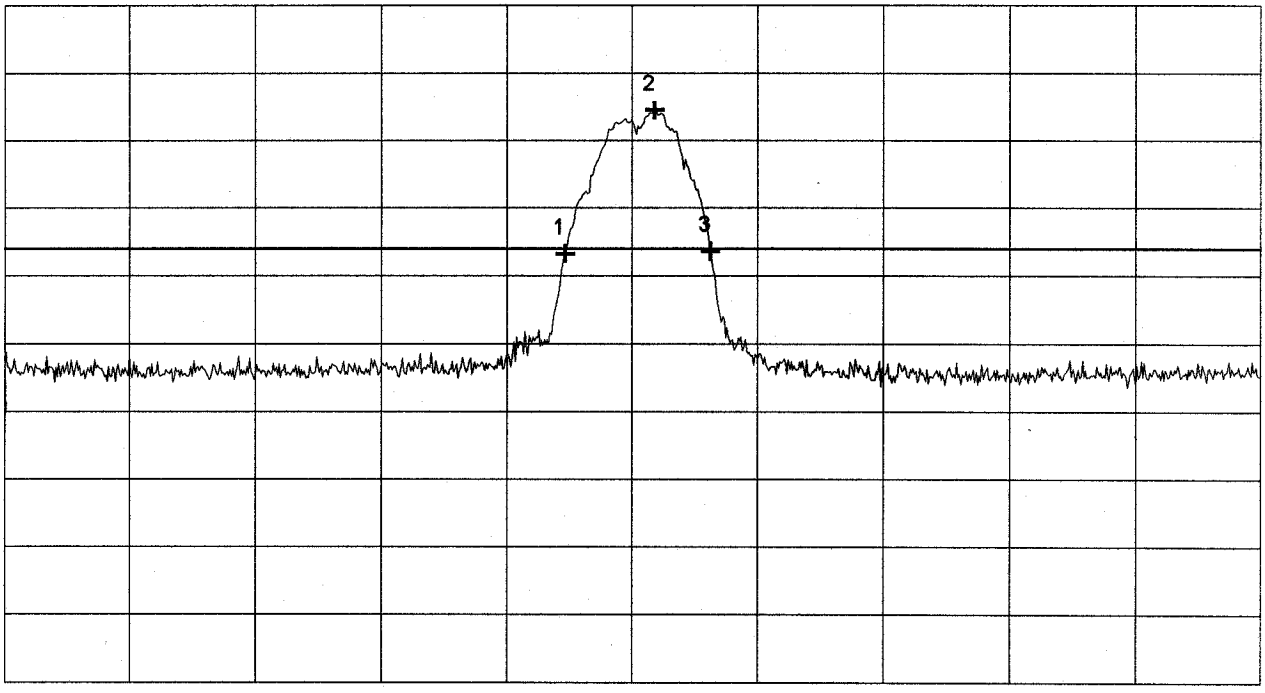
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

****** Multi Marker ******

Nr.1	2.434000 GHz	73.24 dBµV/m
Nr.2	2.444667 GHz	94.54 dBµV/m
Nr.3	2.451333 GHz	73.59 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

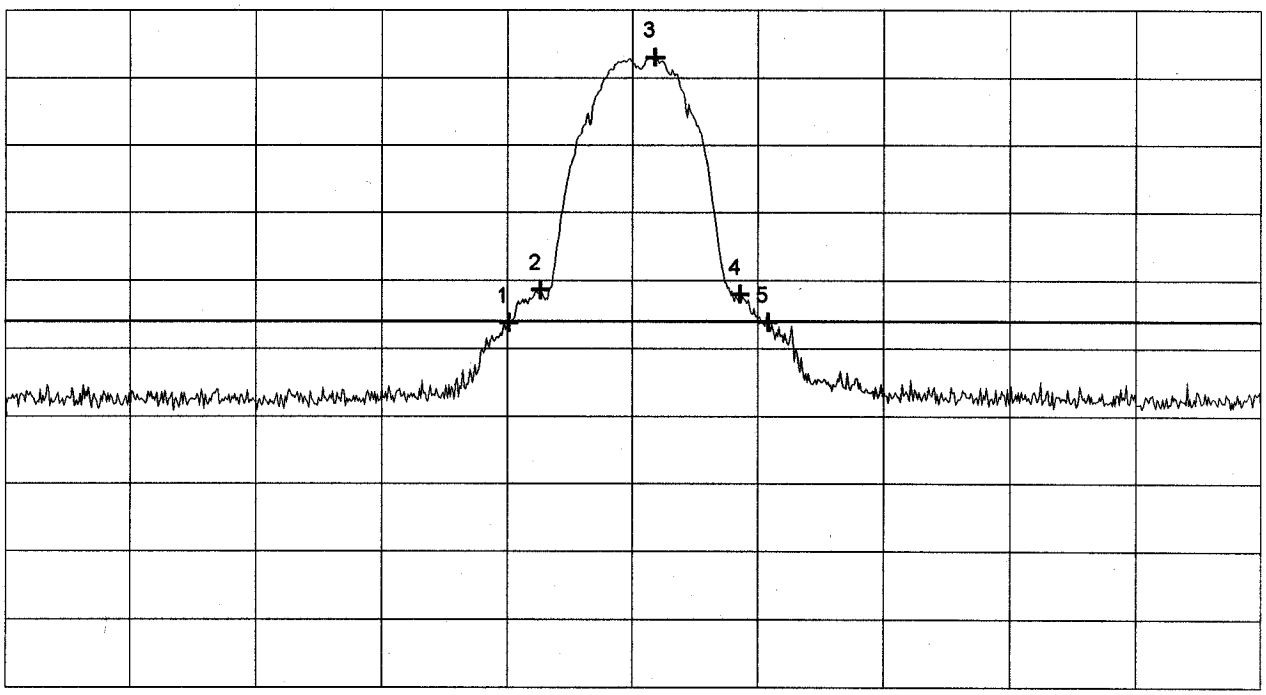
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.427167 GHz	73.76 dBµV/m
Nr.2	2.431000 GHz	78.61 dBµV/m
Nr.3	2.444667 GHz	113.07 dBµV/m
Nr.4	2.454833 GHz	78.00 dBµV/m
Nr.5	2.458167 GHz	73.89 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

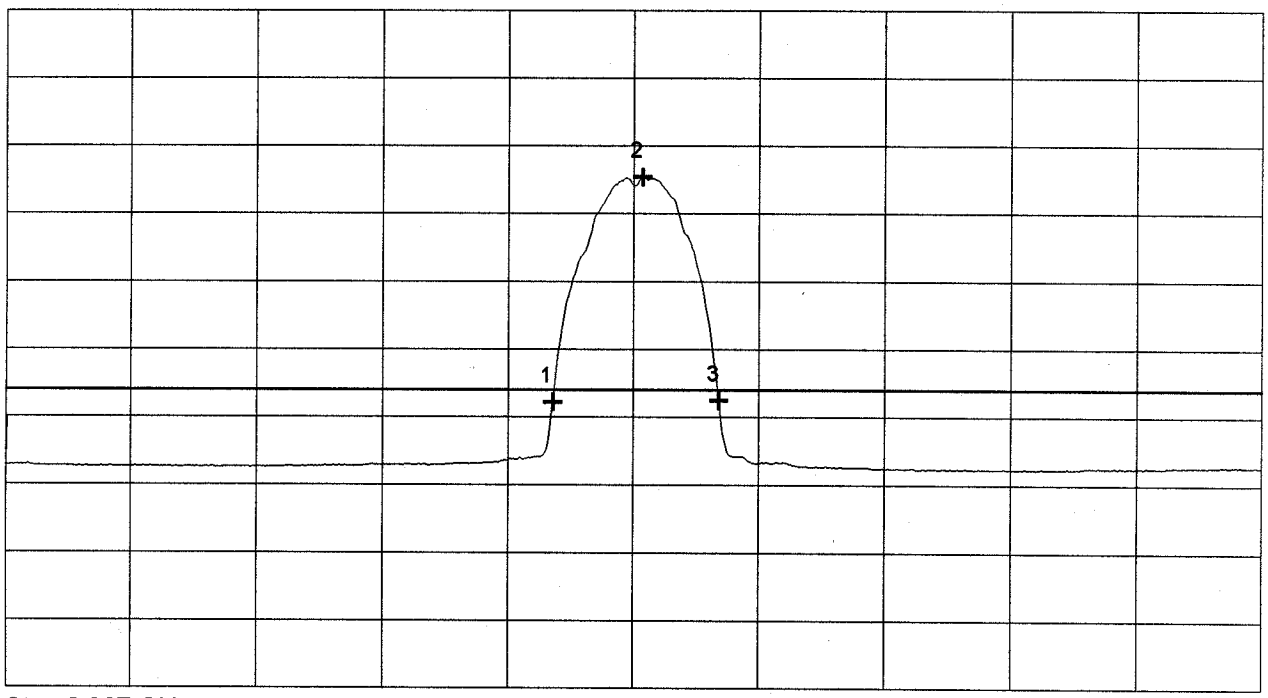
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

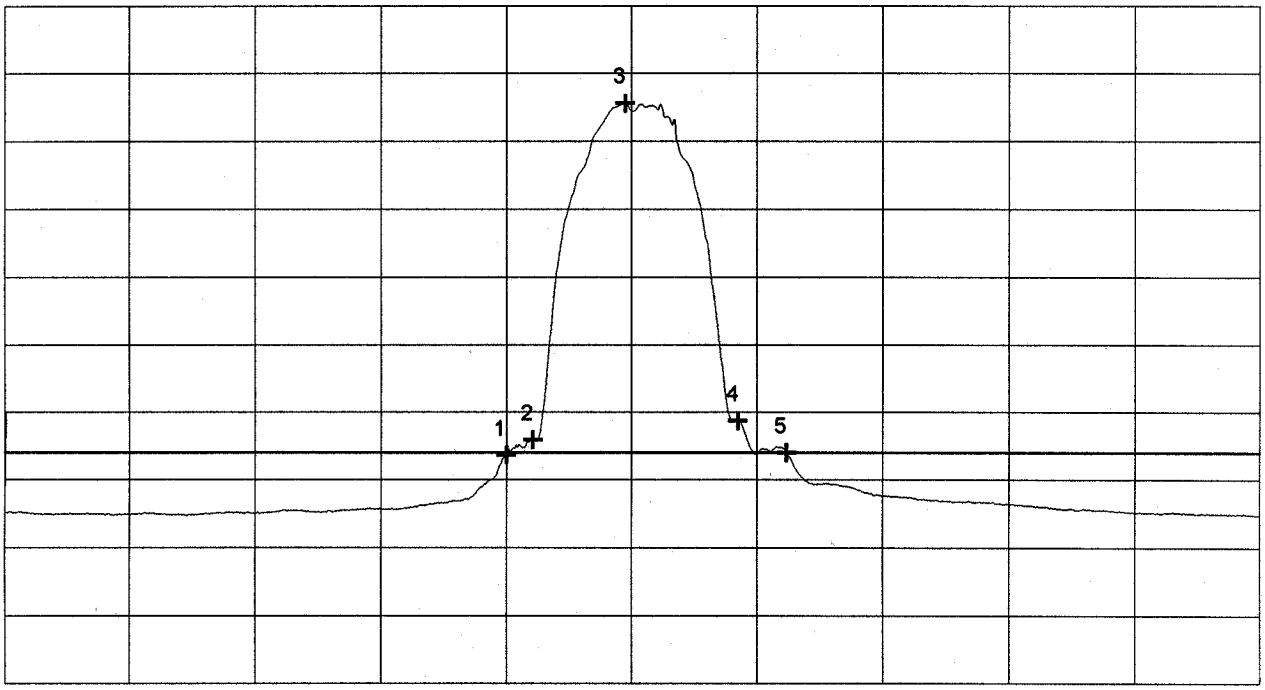
Nr.1	2.432333 GHz	52.18 dBµV/m
Nr.2	2.443000 GHz	85.37 dBµV/m
Nr.3	2.452167 GHz	52.41 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m ATT 10 dB Ref. Offset 21.3 dB
10 dB dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 100 Hz SWP 4.60 s

**** Multi Marker ****

Nr.1	2.427000 GHz	53.60 dBµV/m
Nr.2	2.430167 GHz	55.89 dBµV/m
Nr.3	2.441167 GHz	105.56 dBµV/m
Nr.4	2.454667 GHz	58.71 dBµV/m
Nr.5	2.460500 GHz	53.96 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-YA-1414
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	01/28/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- operating with bit rate 8 MBit

- TX mode with f = 2.462 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

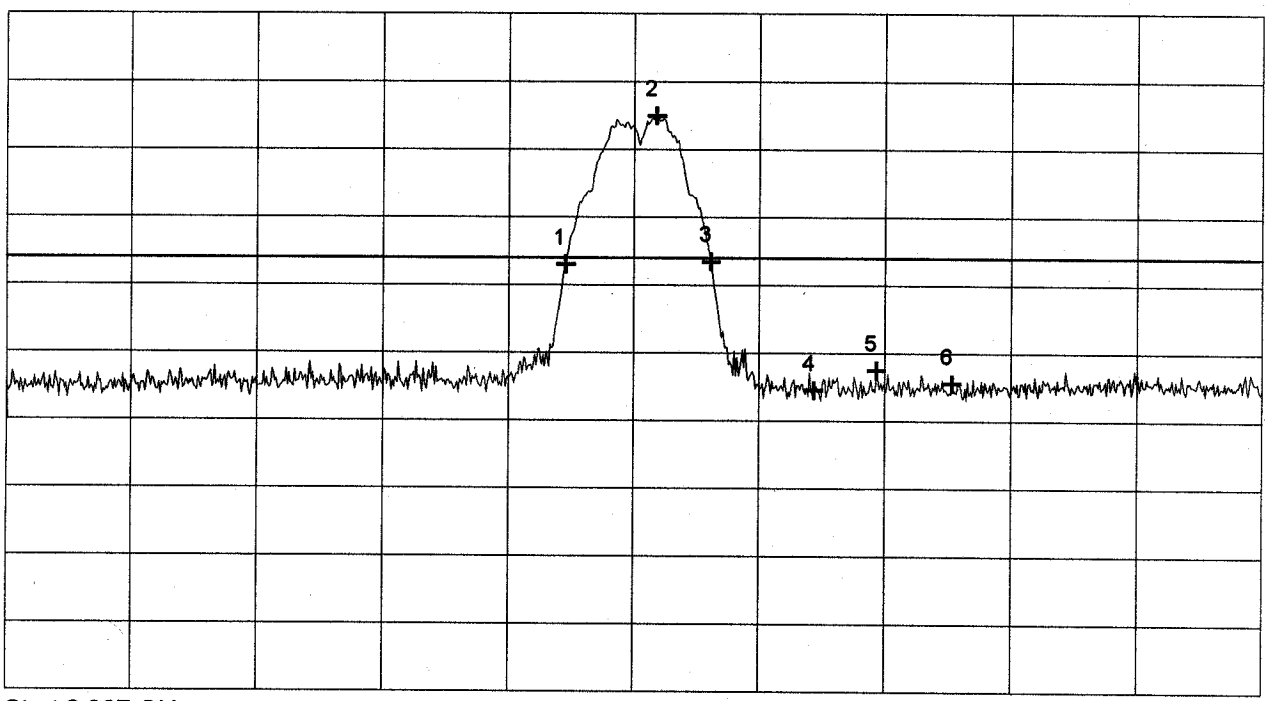
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.453833 GHz	73.03 dBµV/m
Nr.2	2.464667 GHz	94.97 dBµV/m
Nr.3	2.471167 GHz	73.44 dBµV/m
Nr.4	2.483500 GHz	54.52 dBµV/m
Nr.5	2.491000 GHz	57.49 dBµV/m
Nr.6	2.500000 GHz	55.56 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

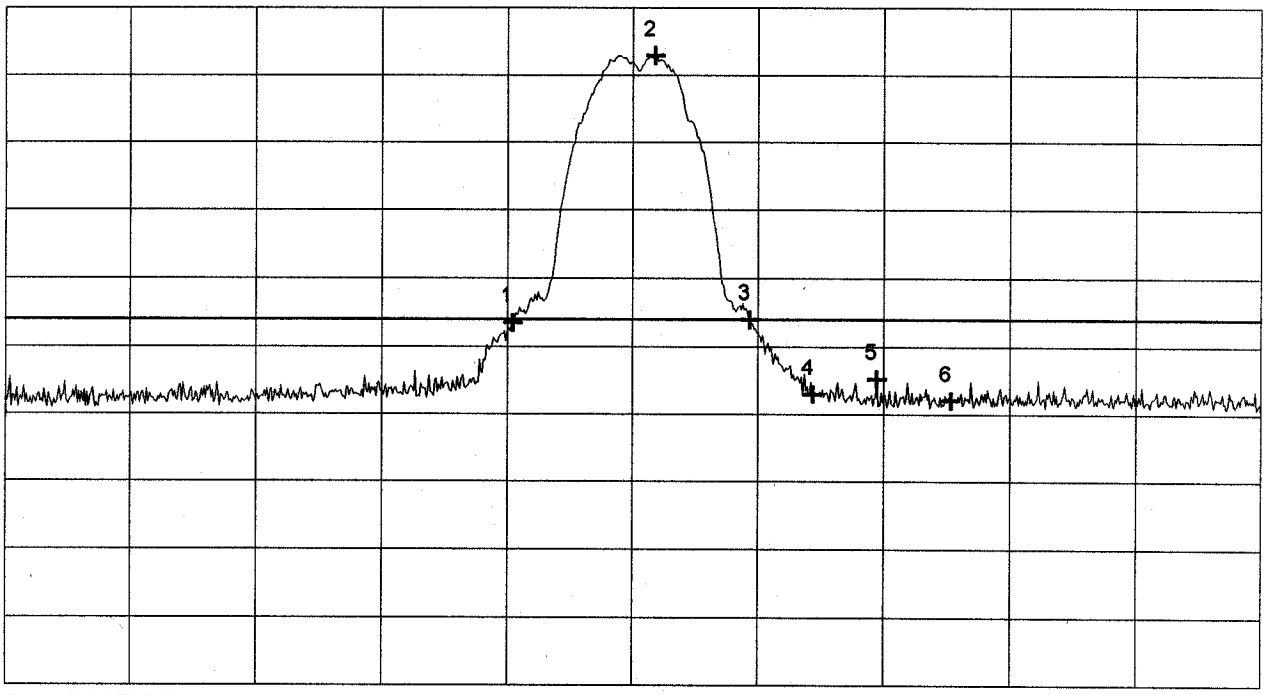
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.447667 GHz	73.46 dBµV/m
Nr.2	2.464667 GHz	112.92 dBµV/m
Nr.3	2.476000 GHz	73.94 dBµV/m
Nr.4	2.483500 GHz	62.95 dBµV/m
Nr.5	2.491167 GHz	65.26 dBµV/m
Nr.6	2.500000 GHz	62.01 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

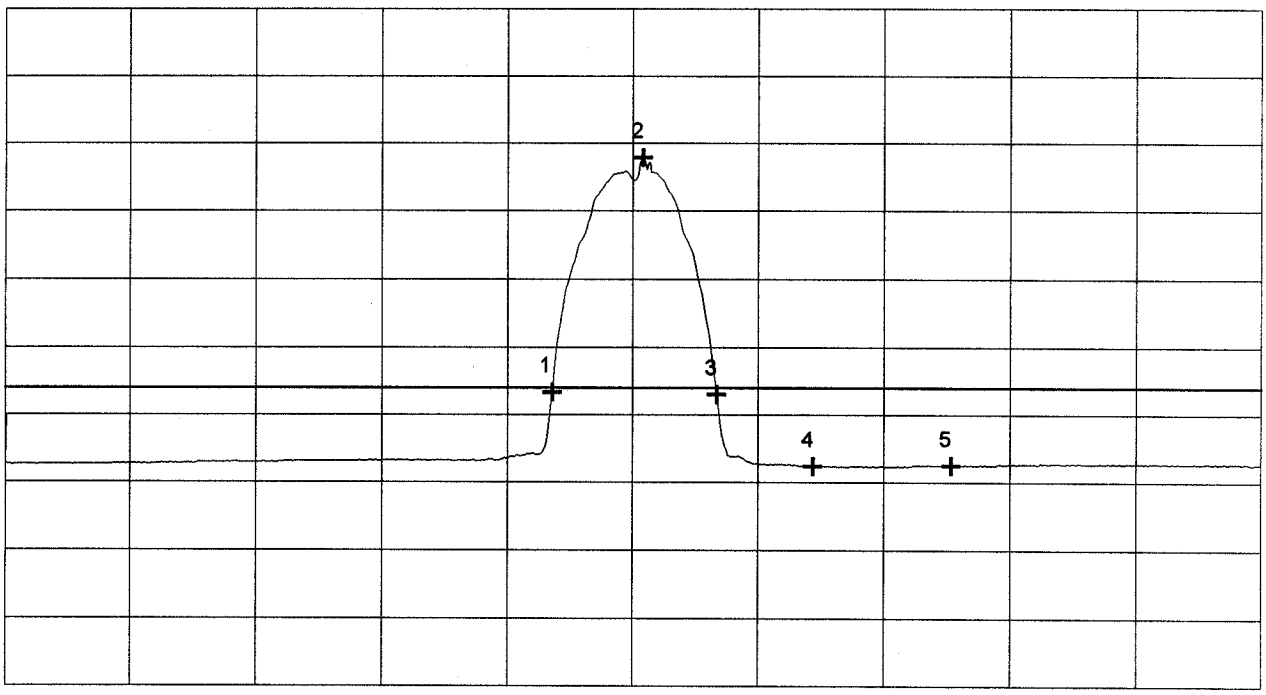
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.452333 GHz	53.33 dBµV/m
Nr.2	2.463167 GHz	87.86 dBµV/m
Nr.3	2.472000 GHz	53.00 dBµV/m
Nr.4	2.483500 GHz	42.36 dBµV/m
Nr.5	2.500000 GHz	42.43 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

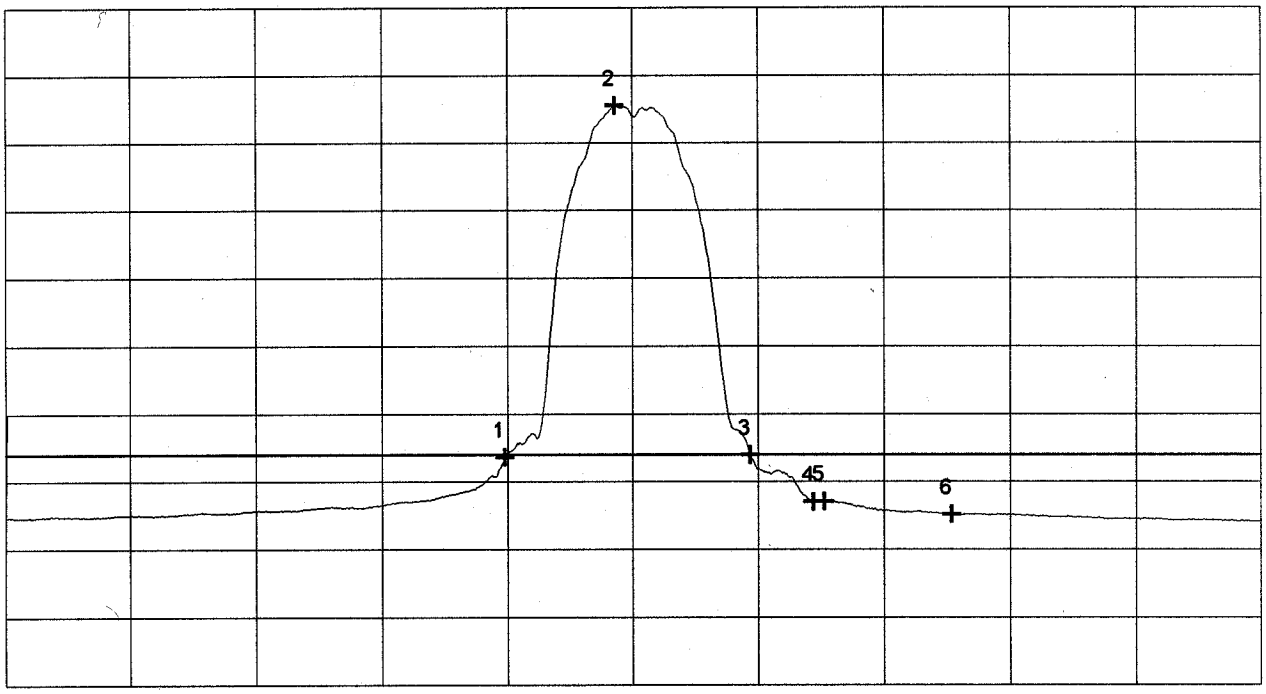
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 10 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.446667 GHz	53.63 dBµV/m
Nr.2	2.459833 GHz	105.56 dBµV/m
Nr.3	2.476000 GHz	53.98 dBµV/m
Nr.4	2.483500 GHz	46.98 dBµV/m
Nr.5	2.484833 GHz	47.05 dBµV/m
Nr.6	2.500000 GHz	45.12 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 01/28/1999	

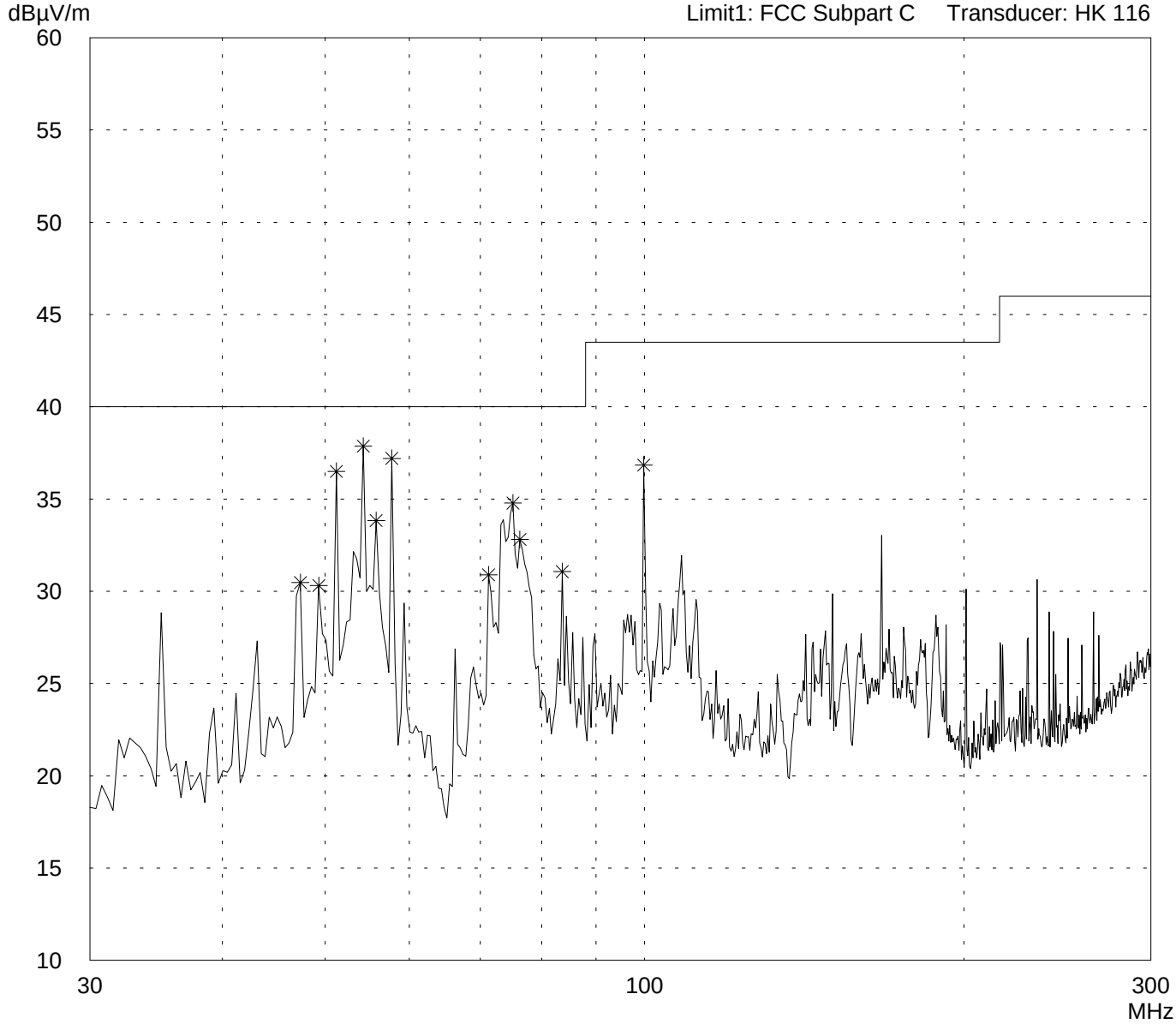
Test results for setup no. 1

Receive (RX) mode

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - RX mode with f = 2.442 GHz
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 01/27/1999 / Operator: R. Heller	
Test performed: automatically / File name:	

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



Result: Prescan	Project file: 56305-90067-1

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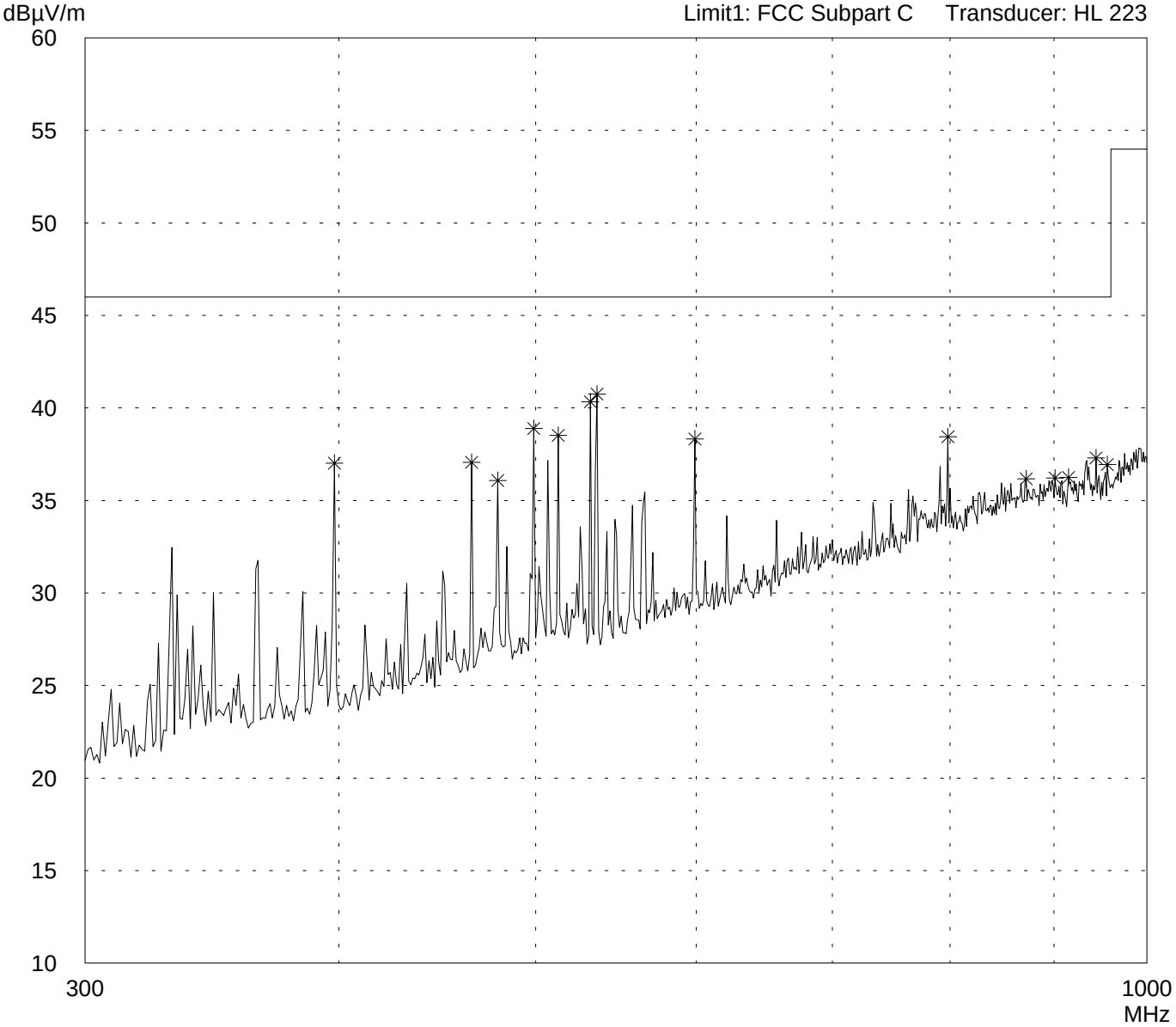
Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - RX mode with f = 2.442 GHz
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 01/27/1999 / Operator: R. Heller	
Test performed: automatically / File name:	

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



Result: Prescan	Project file: 56305-90067-1

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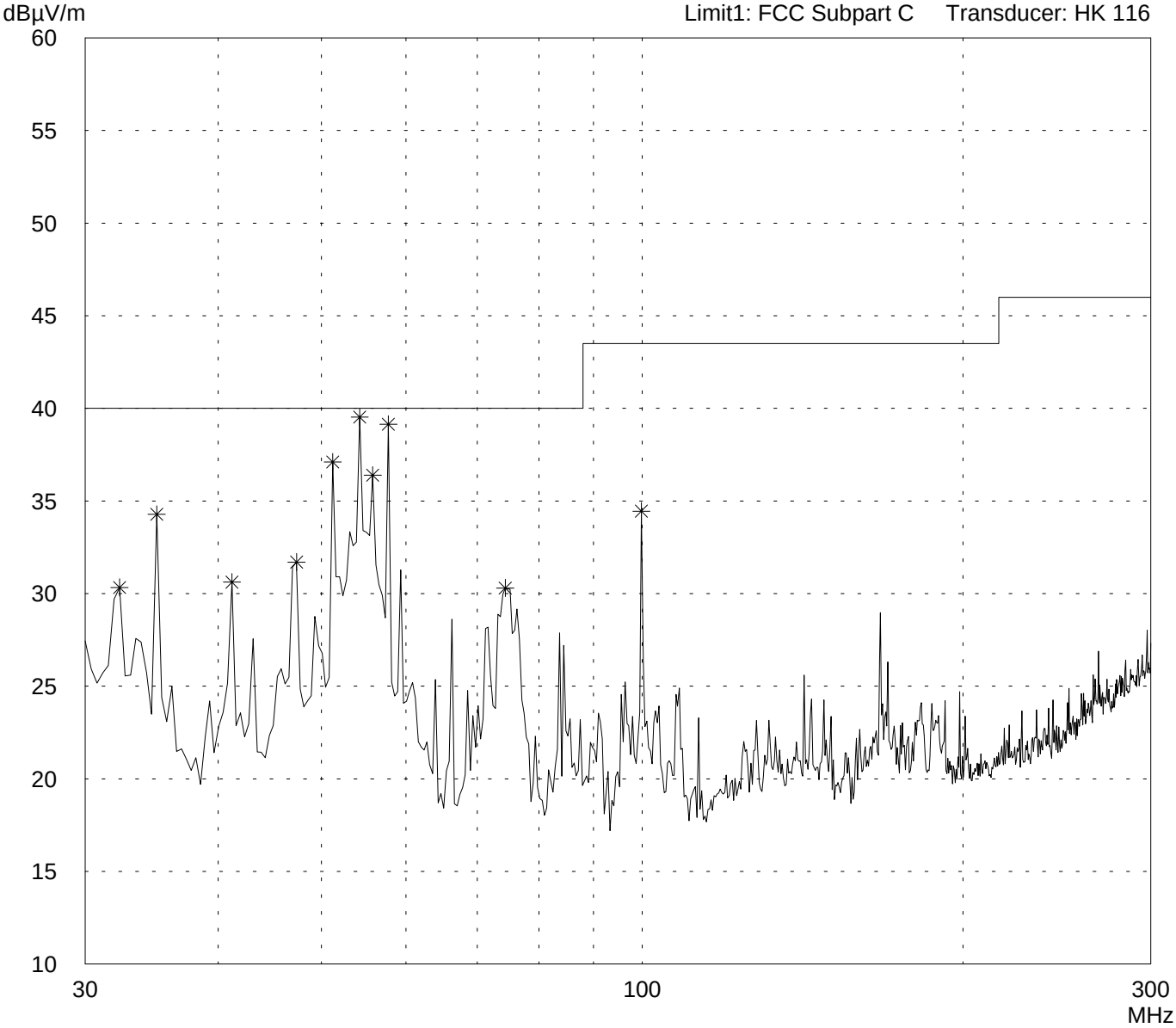
Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - RX mode with f = 2.442 GHz
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 01/27/1999 / Operator: R. Heller	
Test performed: automatically / File name:	

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



Result: Prescan	Project file: 56305-90067-1

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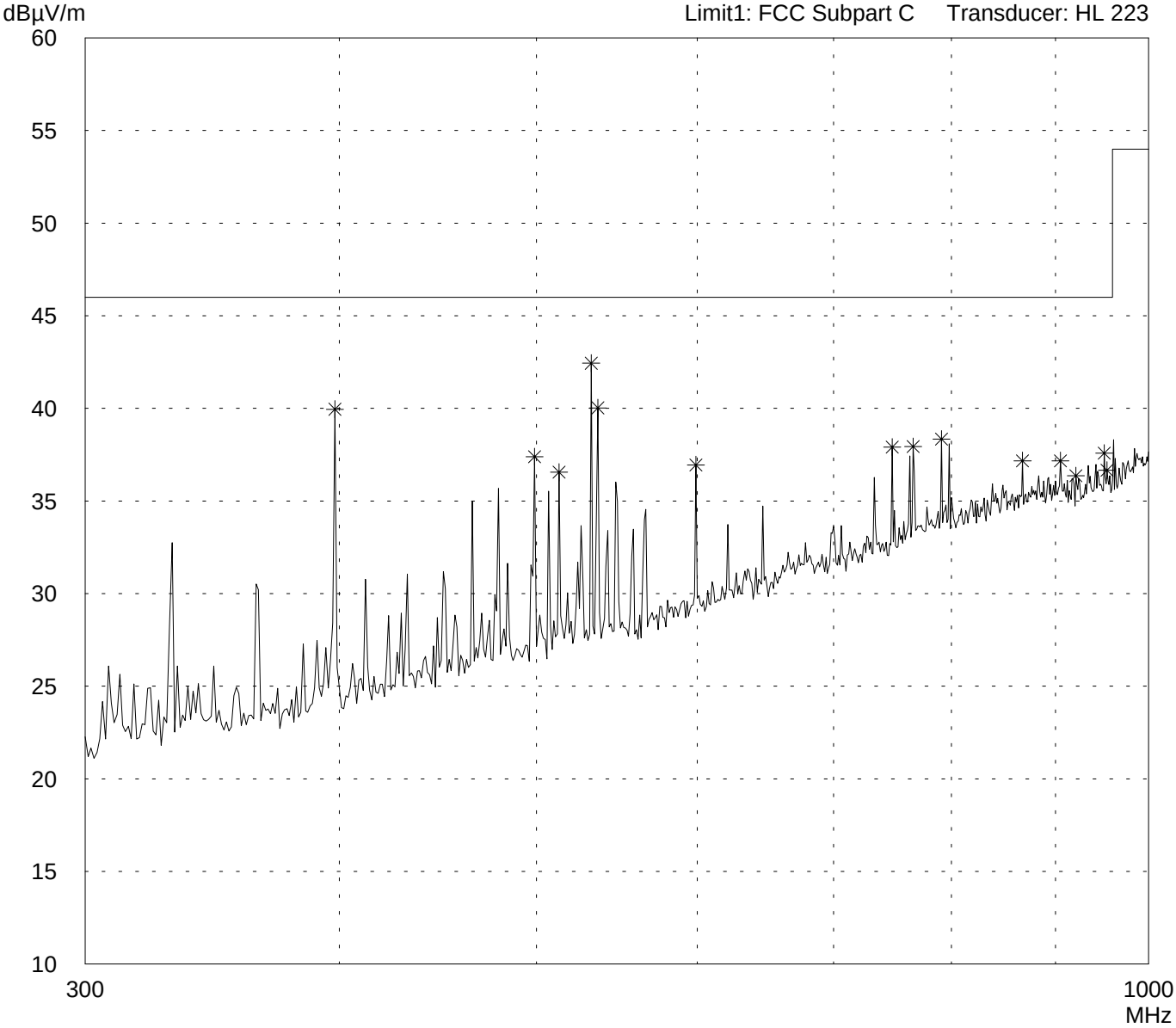
Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-YA-1414 (YAGI 14 dBi) - with 50 ft antenna cable - RX mode with f = 2.442 GHz
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 01/27/1999 / Operator: R. Heller	
Test performed: automatically / File name:	

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



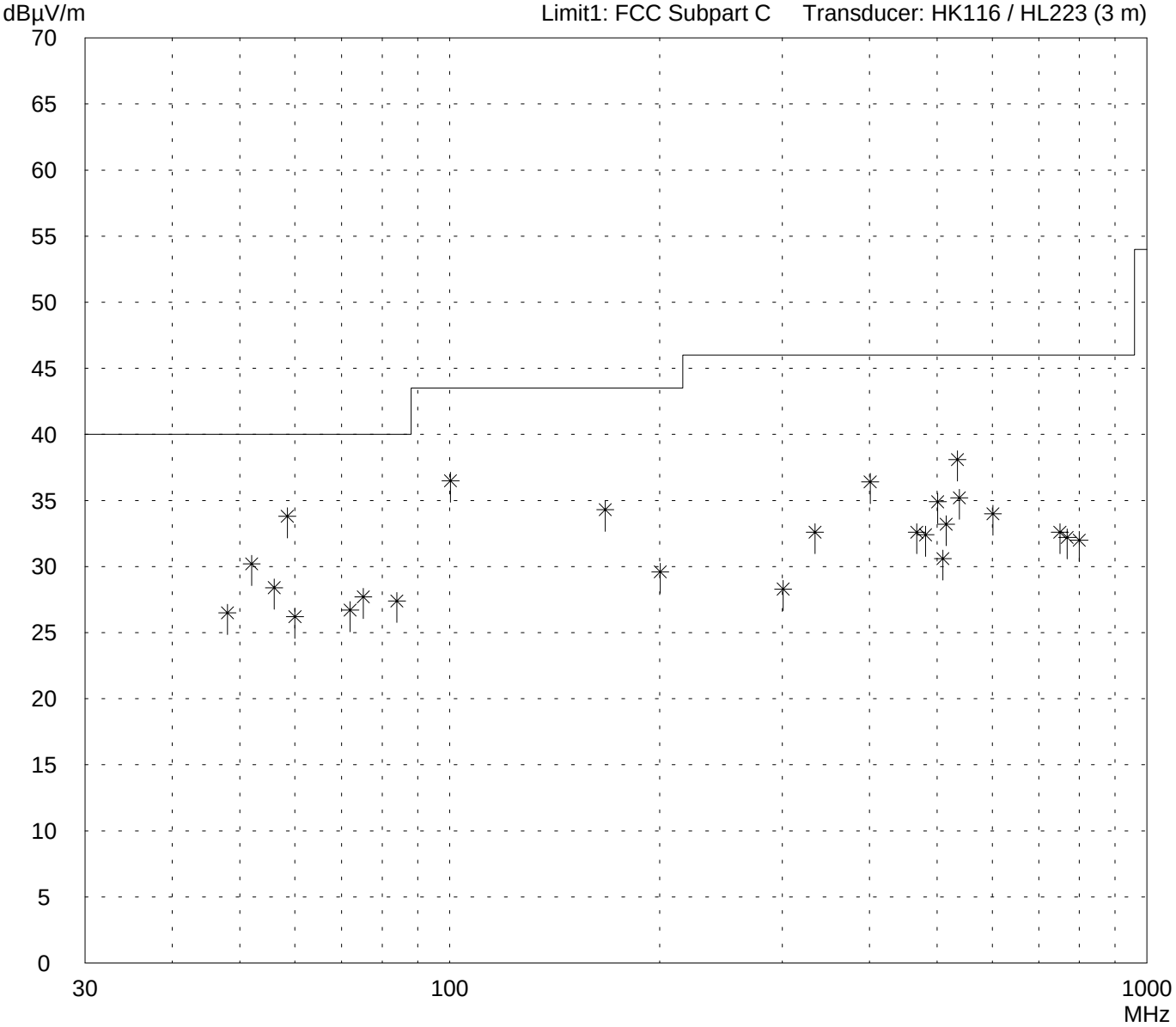
Result: Prescan	Project file: 56305-90067-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Open area test-site I	- supply voltage 115 V AC
Tested on: Test distance 3 meters Horizontal Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 02/02/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: by hand / File name:	- RX mode with f = 2.442 GHz
	Note: Level at 100.3 MHz was measured in semi anechoic room (cabin no. 3)

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-90067-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-T-FC with AOU24-YA-1414

Serial no.:
84490006 (RF-modem), sample no. 1 (antenna)

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 02/02/1999

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- RX mode with f = 2.442 GHz

Note:
Level at 100.3 MHz was measured in semi anechoic room (cabin no. 3)

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
48.0	15.5	11.0	26.5	40.0	
52.0	19.5	10.7	30.2	40.0	
56.0	18.0	10.4	28.4	40.0	
58.5	23.5	10.3	33.8	40.0	
60.0	16.0	10.2	26.2	40.0	
72.0	16.5	10.2	26.7	40.0	
75.2	17.5	10.2	27.7	40.0	
84.0	17.0	10.4	27.4	40.0	
100.3	25.0	11.5	36.5	43.5	
167.1	18.5	15.8	34.3	43.5	
200.5	12.5	17.1	29.6	43.5	
300.7	11.5	16.8	28.3	46.0	
334.1	14.5	18.1	32.6	46.0	
400.9	16.0	20.4	36.4	46.0	
467.7	10.5	22.1	32.6	46.0	
481.5	10.0	22.4	32.4	46.0	
501.2	12.0	22.9	34.9	46.0	
509.8	7.5	23.1	30.6	46.0	
515.5	10.0	23.2	33.2	46.0	
534.6	14.5	23.6	38.1	46.0	
538.1	11.5	23.7	35.2	46.0	
601.4	9.0	25.0	34.0	46.0	
750.0	4.5	28.1	32.6	46.0	
768.5	4.0	28.2	32.2	46.0	
800.0	3.5	28.5	32.0	46.0	

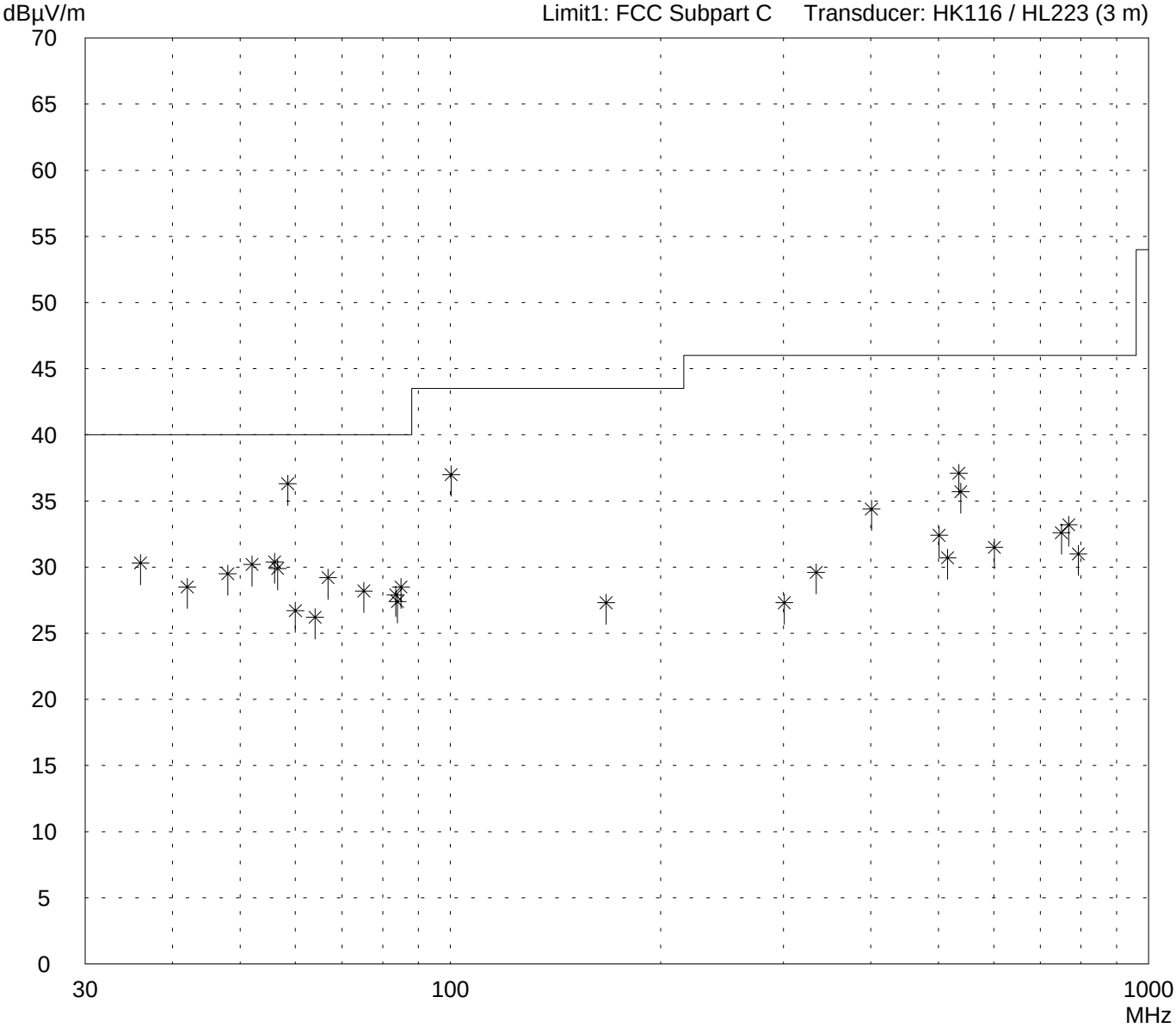
Result: Limit kept

Project file: 56305-90067-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414	Mode:
Serial no.: 84490006 (RF-modem), sample no. 1 (antenna)	- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
Applicant: Lucent Technologies Nederland B.V.	- FCC test setup
Test site: Open area test-site I	- supply voltage 115 V AC
Tested on: Test distance 3 meters Vertical Polarization	- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
Date of test: 02/02/1999 / Operator: R. Heller	- with 50 ft antenna cable
Test performed: by hand / File name:	- RX mode with f = 2.442 GHz

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-90067-1

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Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-T-FC with AOU24-YA-1414

Serial no.:
84490006 (RF-modem), sample no. 1 (antenna)

Applicant:
Lucent Technologies Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 02/02/1999

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- RX mode with f = 2.442 GHz

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
36.0	17.0	13.3	30.3	40.0	
42.0	16.5	12.0	28.5	40.0	
48.0	18.5	11.0	29.5	40.0	
52.0	19.5	10.7	30.2	40.0	
56.0	20.0	10.4	30.4	40.0	
56.6	19.5	10.4	29.9	40.0	
58.5	26.0	10.3	36.3	40.0	
60.0	16.5	10.2	26.7	40.0	
64.0	16.0	10.2	26.2	40.0	
66.8	19.0	10.2	29.2	40.0	
75.2	18.0	10.2	28.2	40.0	
83.5	17.5	10.4	27.9	40.0	
84.0	17.0	10.4	27.4	40.0	
85.0	18.0	10.5	28.5	40.0	
100.3	25.5	11.5	37.0	43.5	
167.1	11.5	15.8	27.3	43.5	
300.7	10.5	16.8	27.3	46.0	
334.1	11.5	18.1	29.6	46.0	
400.9	14.0	20.4	34.4	46.0	
501.2	9.5	22.9	32.4	46.0	
515.5	7.5	23.2	30.7	46.0	
534.6	13.5	23.6	37.1	46.0	
538.1	12.0	23.7	35.7	46.0	
601.4	6.5	25.0	31.5	46.0	
750.0	4.5	28.1	32.6	46.0	
768.5	5.0	28.2	33.2	46.0	
793.1	2.5	28.5	31.0	46.0	

Result: Limit kept

Project file: 56305-90067-1

Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 01/28/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- RX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
6.2730	vertical	42.5	-93.5		29.9	43.4	74
8.3680	vertical	43.7	-96.2		33.4	44.2	74

Result: The limits are kept

Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-YA-1414
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 01/28/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-YA-1414 (YAGI 14 dBi)
- with 50 ft antenna cable

- RX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
6.2702	vertical	39.2	-96.7		29.9	40.3	54
8.3603	vertical	38.5	-101.3		33.4	39.1	54

Result: The limits are kept

Test results for setup no. 2

Transmit (TX) mode

Maximum Peak Output Power
according to FCC Part 15 Subpart C, §15.247b

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Date of test: 12/10/1998
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC

- TX mode

Tested on: Antenna connector

Selected bit rate	Operating frequency [GHz]	Power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit [dBm]
2 MBit	2.412	14.3	0.5	14.8	30
	2.442	14.6	0.5	15.1	30
	2.462	14.4	0.5	14.9	30
5 MBit	2.412	11.0	0.5	11.5	30
	2.442	11.3	0.5	11.8	30
	2.462	11.1	0.5	11.6	30
8 MBit	2.412	11.1	0.5	11.6	30
	2.442	11.4	0.5	11.9	30
	2.462	11.2	0.5	11.7	30

Note:
Typical gain of external omni-directional antenna AOU24-OD-77 is 7 dBi. Depending on antenna cable the effective antenna gain is calculated by subtracting the appropriate total insertion loss including attenuation caused by RF-IEEE cable and lightning arrestor.
Limit of 30 dBm is reduced by the amount of the effective antenna gain exceeding 6 dBi.

Antenna cable	Antenna gain AOU24-OD-77 [dBi]	Total insertion loss [dB]	Effective antenna gain		Limit [dBm]
			total value [dBi]	exceeding 6 dBi [dB]	
20 ft	7.0	4.5	2.5	0.0	30.0
50 ft	7.0	4.5	2.5	0.0	30.0
75 ft	7.0	5.3	1.7	0.0	30.0

Result: The limit is kept

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/08/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.412 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	59.0		0.6	20.7	59.0	74
2.3990	vertical	70.2		0.6	20.7	70.2	NRB
2.4000	vertical	68.8		0.6	20.7	68.8	NRB
2.4027	vertical	73.3		0.6	20.7	73.3	OB
2.4150	vertical	106.3		0.6	20.7	106.3	OB
2.4233	vertical	73.7		0.6	20.7	73.7	OB
4.7079	vertical	40.5	-94.1		27.3	40.2	74
7.2417	vertical	41.1	-94.6		29.9	42.3	NRB
9.6467	vertical	43.2	-96.4		33.4	44.1	NRB
12.0780	vertical	44.2	-96.7		33.6	44.0	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 106.3 dBµV/m.

Result: The limits are kept

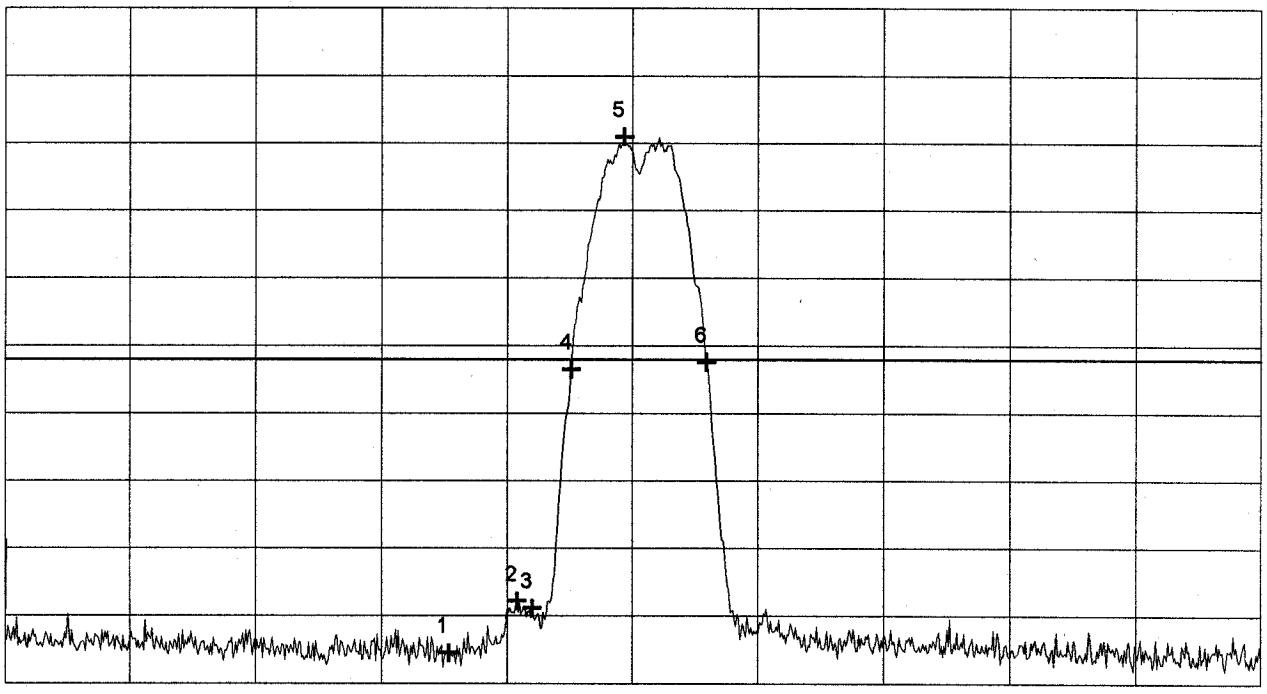
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	52.24 dBµV/m
Nr.2	2.398167 GHz	56.05 dBµV/m
Nr.3	2.400000 GHz	55.54 dBµV/m
Nr.4	2.404667 GHz	73.27 dBµV/m
Nr.5	2.411000 GHz	90.48 dBµV/m
Nr.6	2.420833 GHz	73.80 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

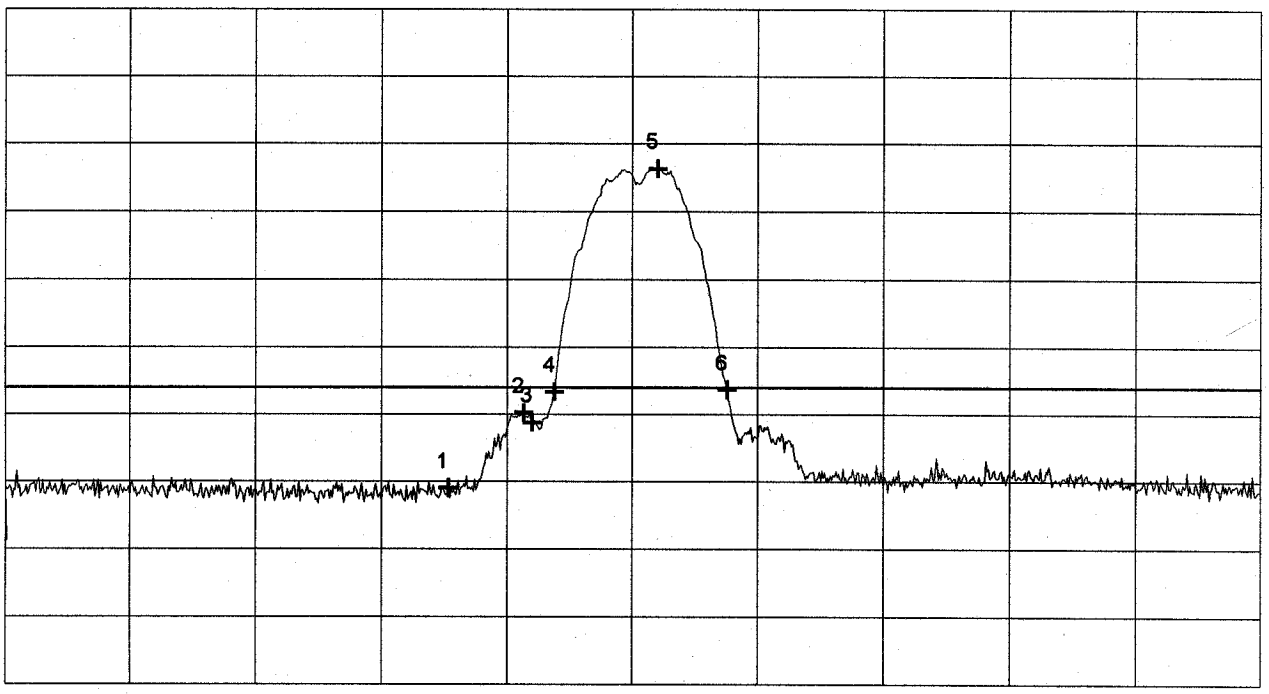
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	59.01 dBµV/m
Nr.2	2.399000 GHz	70.24 dBµV/m
Nr.3	2.400000 GHz	68.76 dBµV/m
Nr.4	2.402667 GHz	73.33 dBµV/m
Nr.5	2.415000 GHz	106.29 dBµV/m
Nr.6	2.423333 GHz	73.69 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/08/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.412 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	43.3		0.6	20.7	43.3	54
2.3937	vertical	53.0		0.6	20.7	53.0	NRB
2.3983	vertical	64.9		0.6	20.7	64.9	NRB
2.4000	vertical	62.0		0.6	20.7	62.0	NRB
2.4150	vertical	102.2		0.6	20.7	102.2	OB
2.4307	vertical	53.5		0.6	20.7	53.5	OB
12.0612	vertical	37.9	-102.7		33.6	37.9	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 102.2 dBµV/m.

Result: The limits are kept

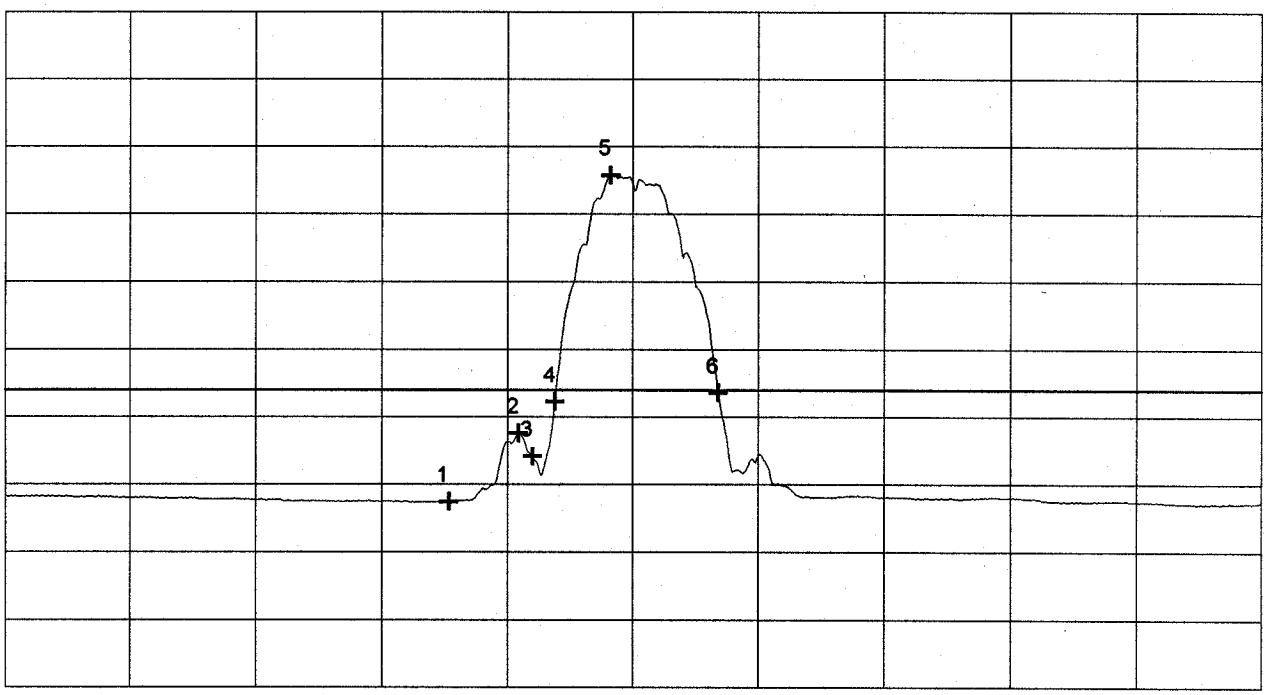
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	37.41 dBµV/m
Nr.2	2.398333 GHz	47.57 dBµV/m
Nr.3	2.400000 GHz	44.12 dBµV/m
Nr.4	2.402667 GHz	52.27 dBµV/m
Nr.5	2.409333 GHz	85.74 dBµV/m
Nr.6	2.422167 GHz	53.61 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

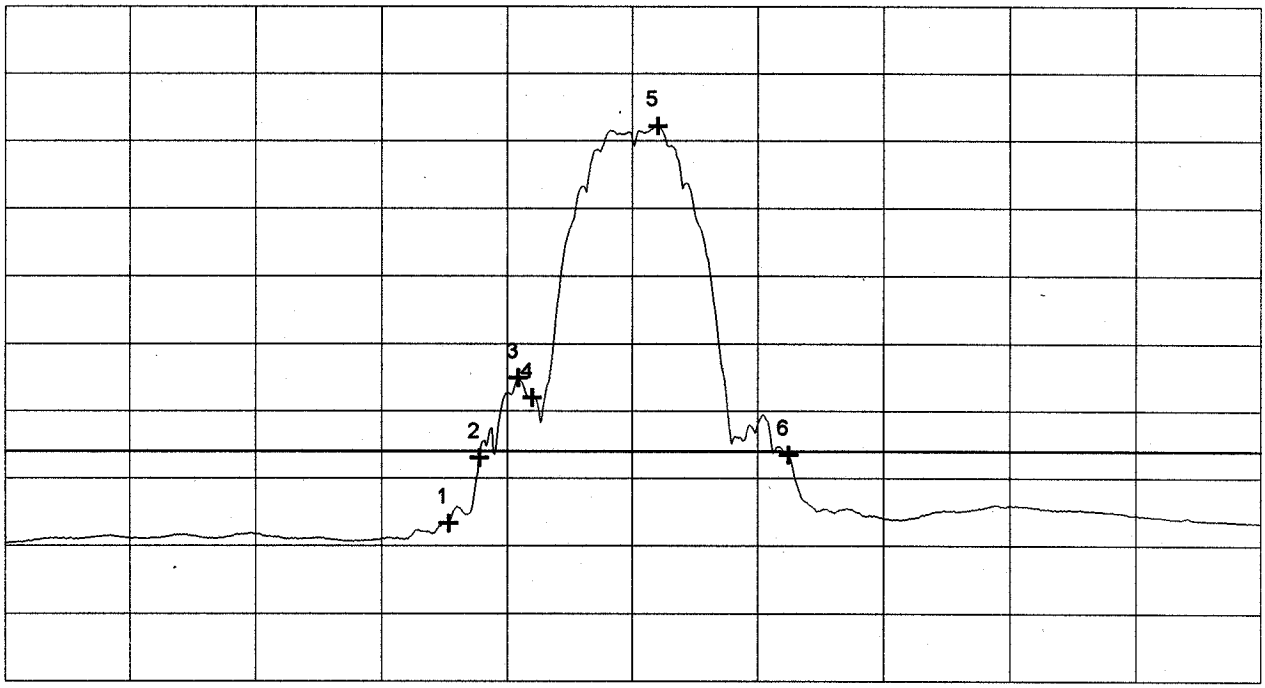
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	43.27 dBµV/m
Nr.2	2.393667 GHz	52.97 dBµV/m
Nr.3	2.398333 GHz	64.91 dBµV/m
Nr.4	2.400000 GHz	61.96 dBµV/m
Nr.5	2.415000 GHz	102.21 dBµV/m
Nr.6	2.430667 GHz	53.45 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/08/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4327	vertical	74.0		0.6	20.7	74.0	OB
2.4413	vertical	107.2		0.6	20.7	107.2	OB
2.4533	vertical	72.4		0.6	20.7	72.4	OB
4.8894	vertical	44.1	-90.3		27.3	44.0	74
7.3305	vertical	45.3	-91.4		29.9	45.5	74
9.7680	vertical	42.4	-97.6		33.4	42.8	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 107.2 dBµV/m.

Result: The limits are kept

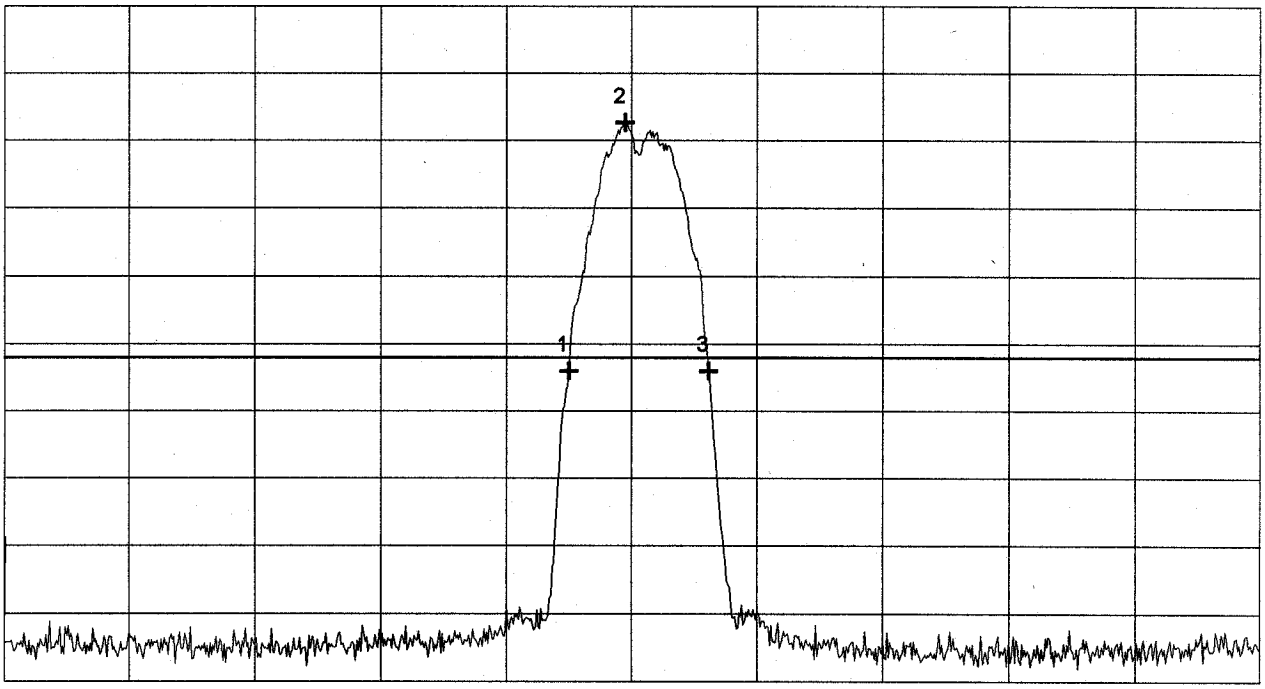
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.434500 GHz	72.99 dBµV/m
Nr.2	2.441167 GHz	91.32 dBµV/m
Nr.3	2.451167 GHz	72.99 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

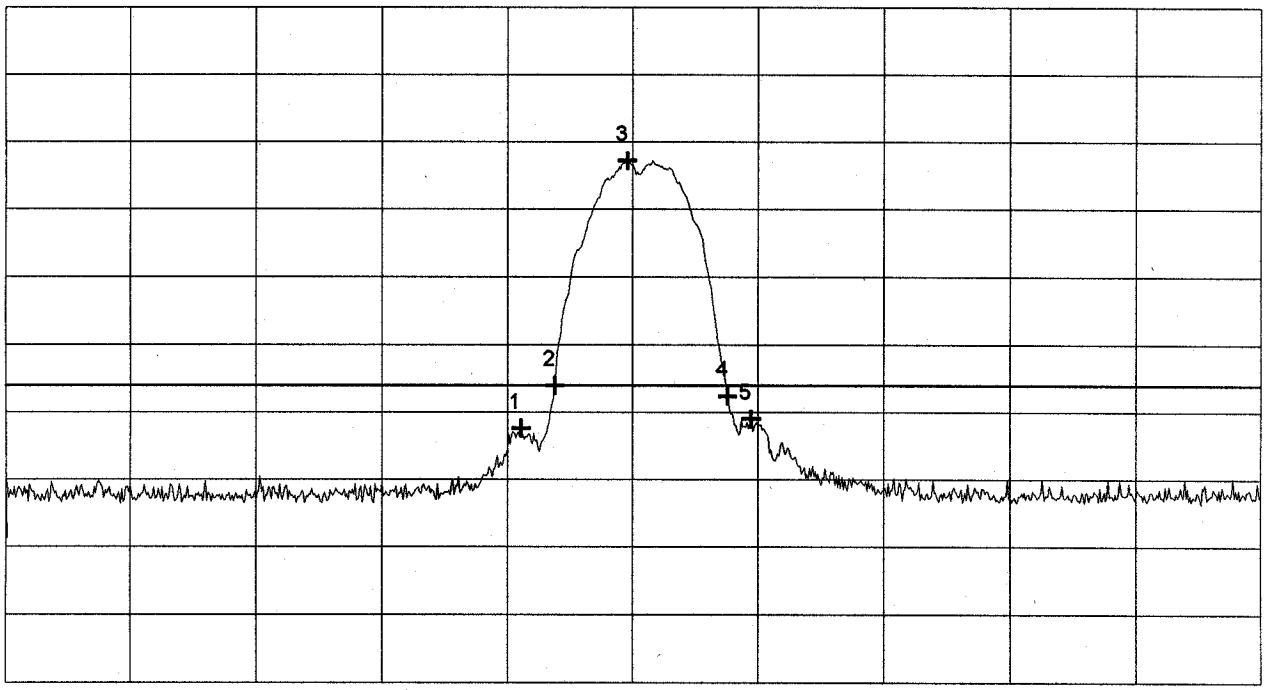
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.428667 GHz	67.57 dBµV/m
Nr.2	2.432667 GHz	73.99 dBµV/m
Nr.3	2.441333 GHz	107.18 dBµV/m
Nr.4	2.453333 GHz	72.39 dBµV/m
Nr.5	2.456167 GHz	68.99 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/08/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4260	vertical	53.3		0.6	20.7	53.3	OB
2.4448	vertical	102.4		0.6	20.7	102.4	OB
2.4605	vertical	53.7		0.6	20.7	53.7	OB
4.8839	vertical	40.0	-94.2		27.3	40.1	54
7.3272	vertical	41.3	-95.3		29.9	41.6	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 102.4 dBµV/m.

Result: The limits are kept

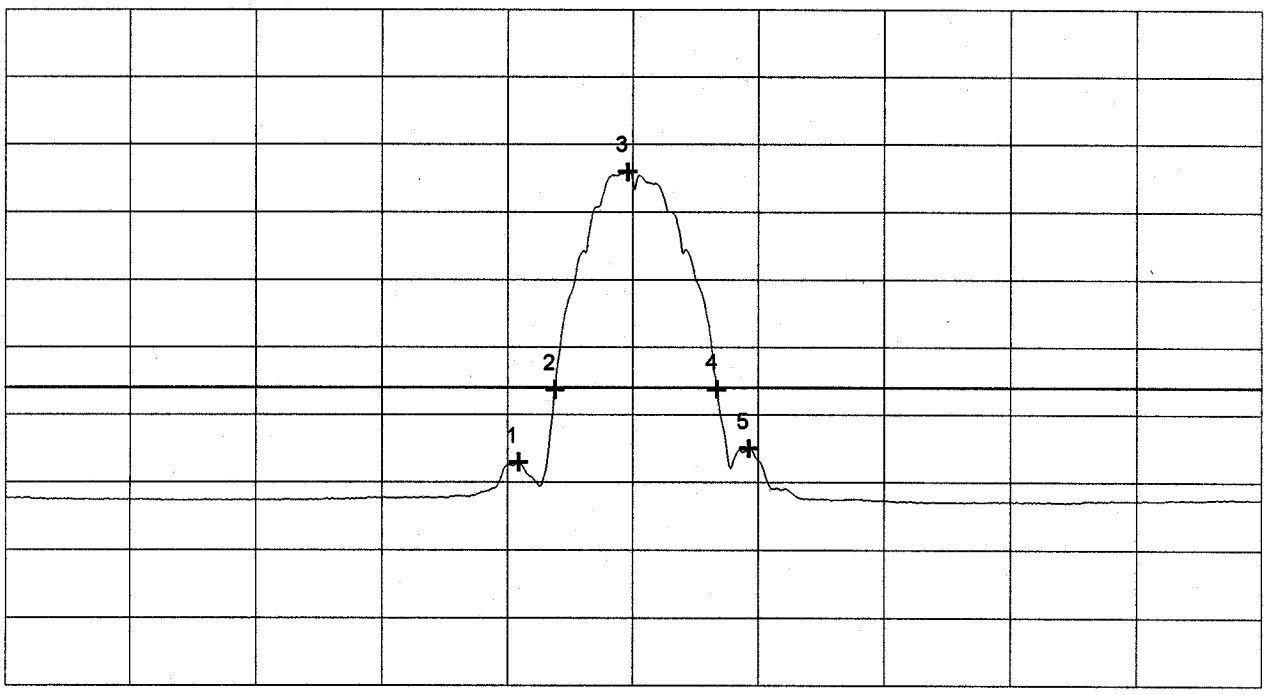
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.428333 GHz	42.90 dBµV/m
Nr.2	2.432667 GHz	53.69 dBµV/m
Nr.3	2.441333 GHz	85.94 dBµV/m
Nr.4	2.452000 GHz	53.72 dBµV/m
Nr.5	2.455833 GHz	44.98 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

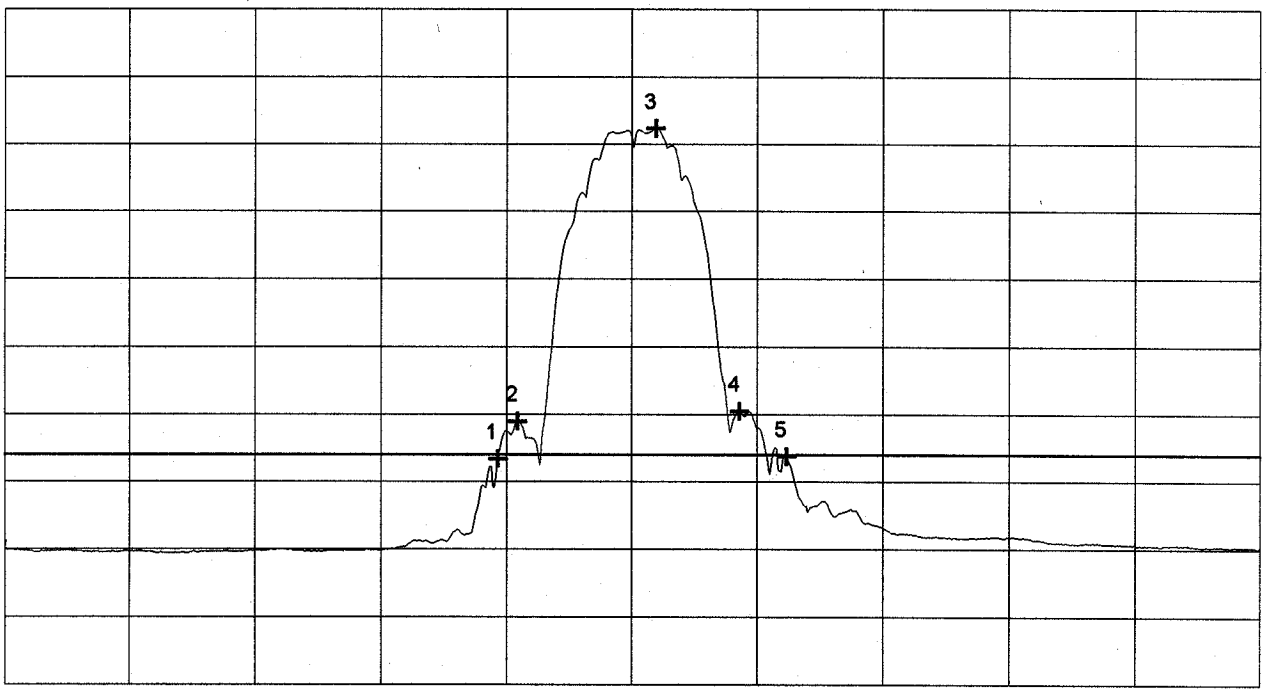
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.426000 GHz	53.33 dBµV/m
Nr.2	2.428333 GHz	58.96 dBµV/m
Nr.3	2.444833 GHz	102.36 dBµV/m
Nr.4	2.454833 GHz	60.46 dBµV/m
Nr.5	2.460500 GHz	53.73 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/08/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.462 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4523	vertical	73.0		0.6	20.7	73.0	OB
2.4648	vertical	107.4		0.6	20.7	107.4	OB
2.4732	vertical	73.6		0.6	20.7	73.6	OB
2.4835	vertical	57.5		0.6	20.7	57.5	74
2.4860	vertical	60.5		0.6	20.7	60.5	74
2.5000	vertical	56.6		0.6	20.7	56.6	74
4.9296	vertical	46.3	-88.1		27.3	46.2	74
7.3906	vertical	42.4	-93.7		30.0	43.3	74
9.8473	vertical	43.1	-96.7		33.4	43.8	NRB

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 107.4 dBµV/m.

Result: The limits are kept

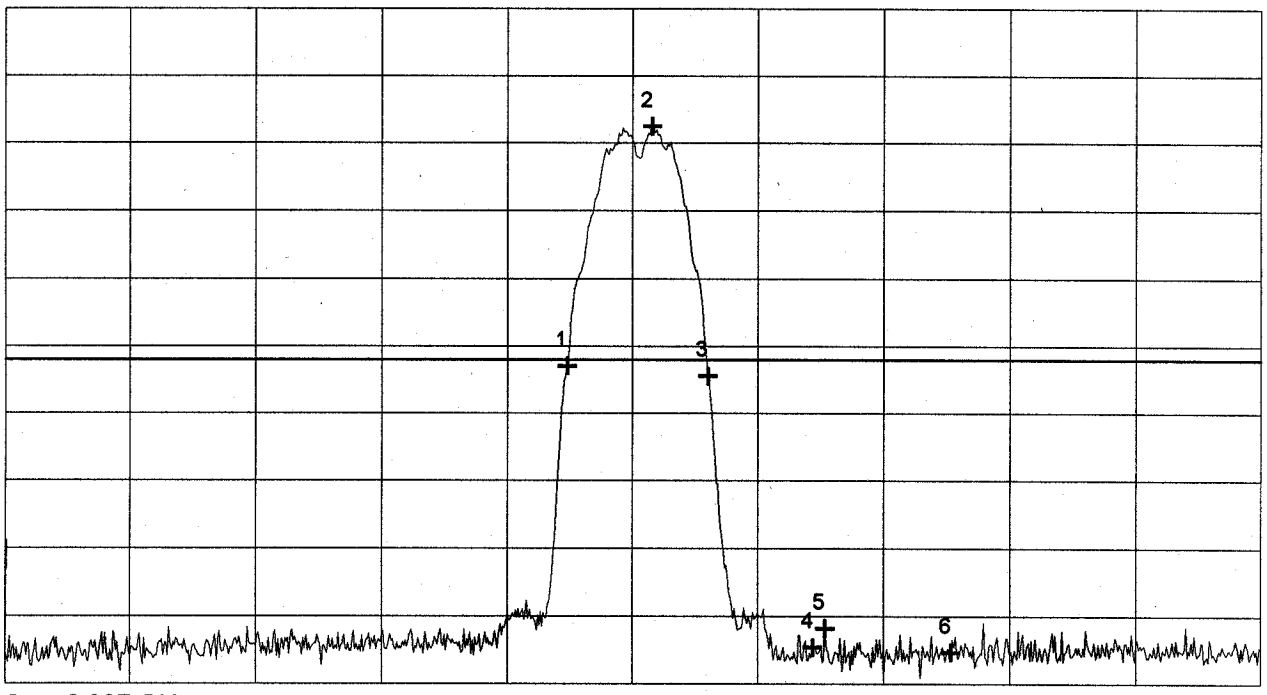
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.454167 GHz	73.52 dBµV/m
Nr.2	2.464333 GHz	91.22 dBµV/m
Nr.3	2.471000 GHz	72.78 dBµV/m
Nr.4	2.483500 GHz	52.67 dBµV/m
Nr.5	2.485000 GHz	54.07 dBµV/m
Nr.6	2.500000 GHz	52.32 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

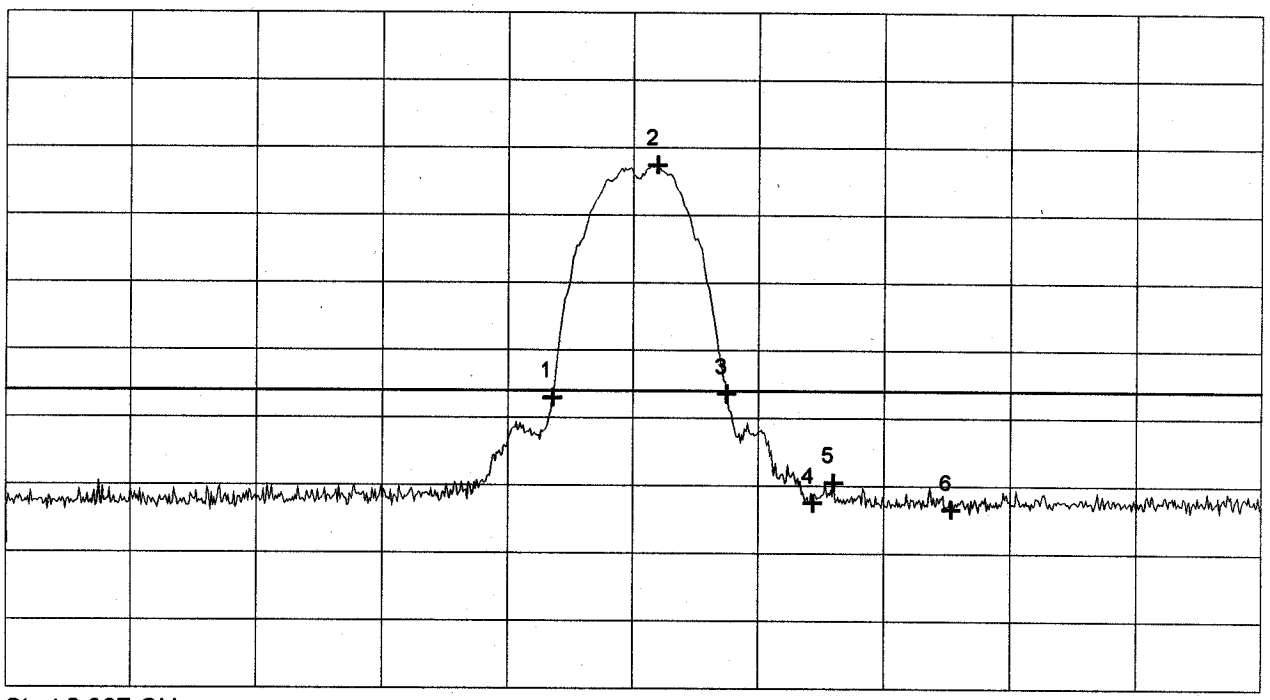
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.452333 GHz	72.95 dBµV/m
Nr.2	2.464833 GHz	107.44 dBµV/m
Nr.3	2.473167 GHz	73.59 dBµV/m
Nr.4	2.483500 GHz	57.46 dBµV/m
Nr.5	2.486000 GHz	60.46 dBµV/m
Nr.6	2.500000 GHz	56.55 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/08/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 2 MBit

- TX mode with f = 2.462 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4457	vertical	53.3		0.6	20.7	53.3	OB
2.4647	vertical	102.9		0.6	20.7	102.9	OB
2.4782	vertical	52.5		0.6	20.7	52.5	OB
2.4835	vertical	45.0		0.6	20.7	45.0	54
2.4848	vertical	45.0		0.6	20.7	45.0	54
2.5000	vertical	40.1		0.6	20.7	40.1	54
4.9242	vertical	43.5	-90.7		27.3	43.6	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 102.9 dBµV/m.

Result: The limits are kept

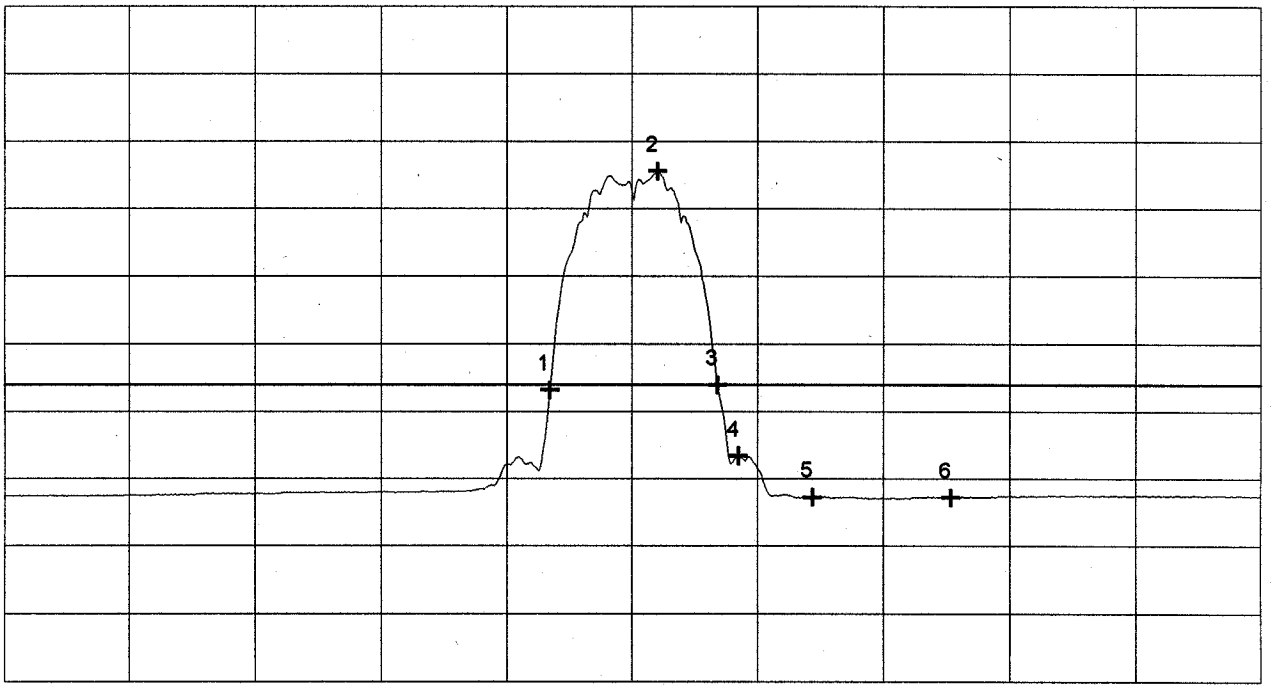
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 110 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.452167 GHz	53.18 dBµV/m
Nr.2	2.465000 GHz	85.56 dBµV/m
Nr.3	2.472167 GHz	53.94 dBµV/m
Nr.4	2.474667 GHz	43.41 dBµV/m
Nr.5	2.483500 GHz	37.23 dBµV/m
Nr.6	2.500000 GHz	37.18 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

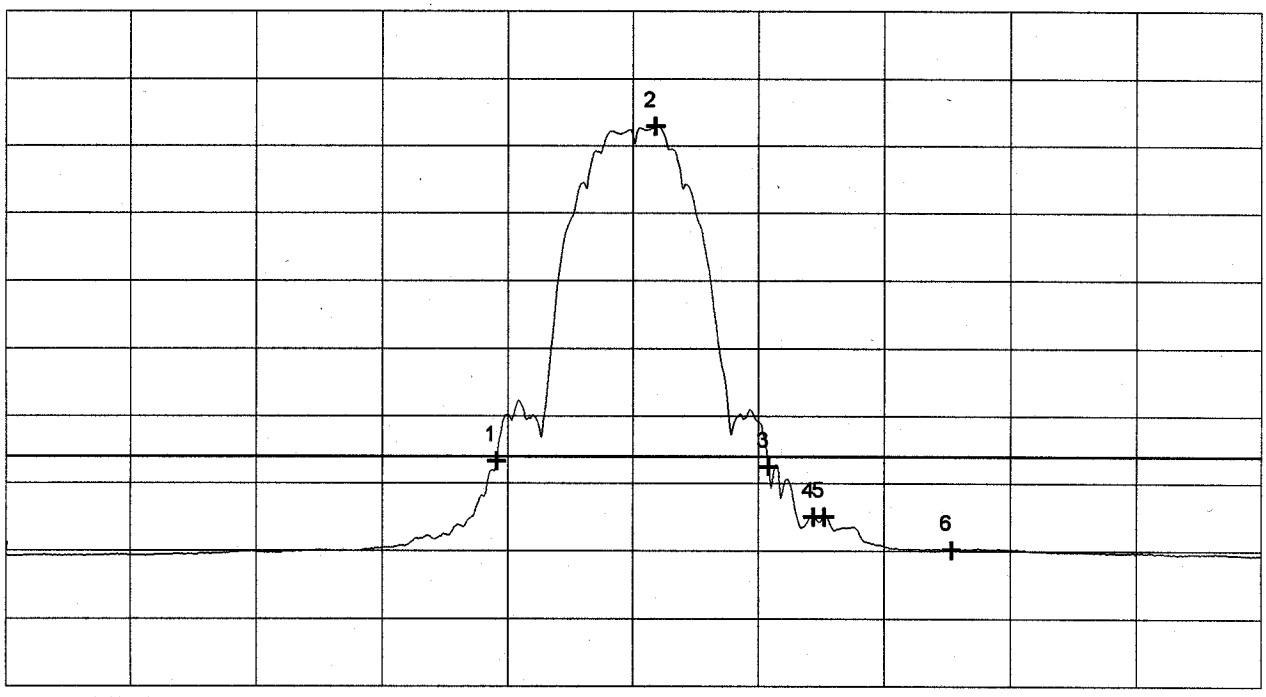
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

****** Multi Marker ******

Nr.1	2.445667 GHz	53.28 dBµV/m
Nr.2	2.464667 GHz	102.92 dBµV/m
Nr.3	2.478167 GHz	52.46 dBµV/m
Nr.4	2.483500 GHz	45.00 dBµV/m
Nr.5	2.484833 GHz	45.00 dBµV/m
Nr.6	2.500000 GHz	40.10 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/08/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 5 MBit

- TX mode with f = 2.412 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

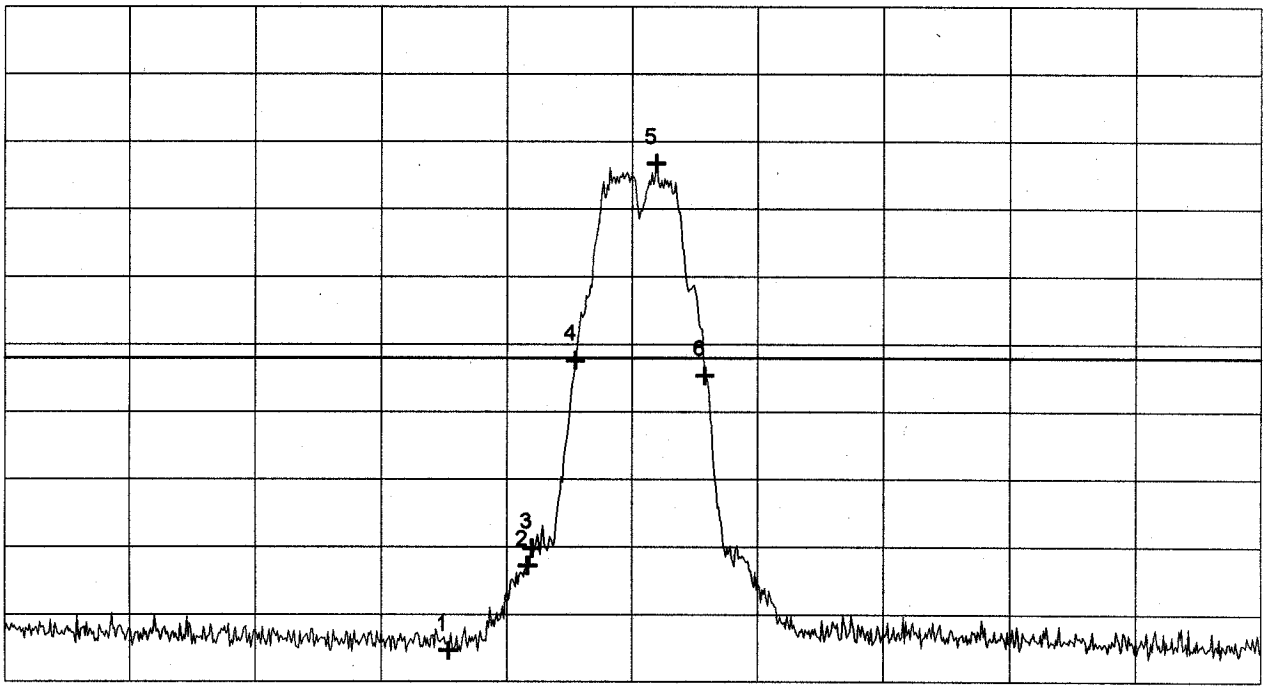
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	52.29 dBµV/m
Nr.2	2.399500 GHz	58.59 dBµV/m
Nr.3	2.400000 GHz	59.88 dBµV/m
Nr.4	2.405167 GHz	73.82 dBµV/m
Nr.5	2.414833 GHz	88.37 dBµV/m
Nr.6	2.420667 GHz	72.68 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

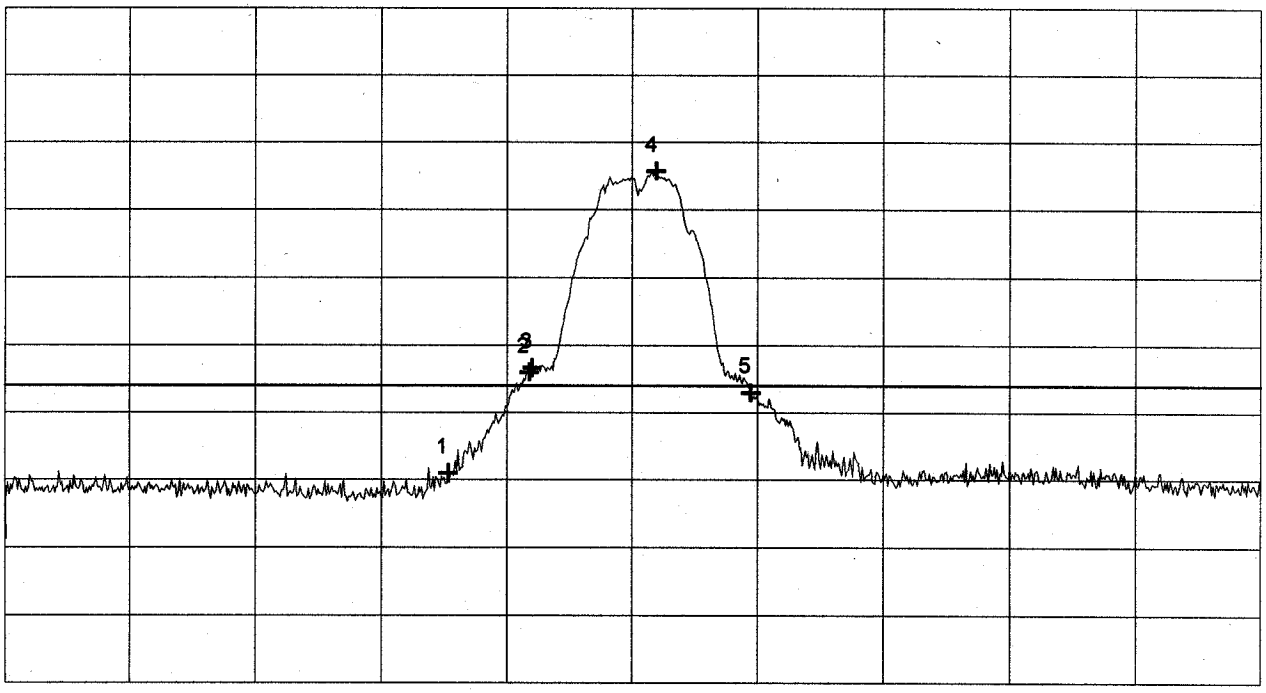
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	60.92 dBµV/m
Nr.2	2.399667 GHz	75.98 dBµV/m
Nr.3	2.400000 GHz	76.64 dBµV/m
Nr.4	2.414833 GHz	105.71 dBµV/m
Nr.5	2.426167 GHz	72.95 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

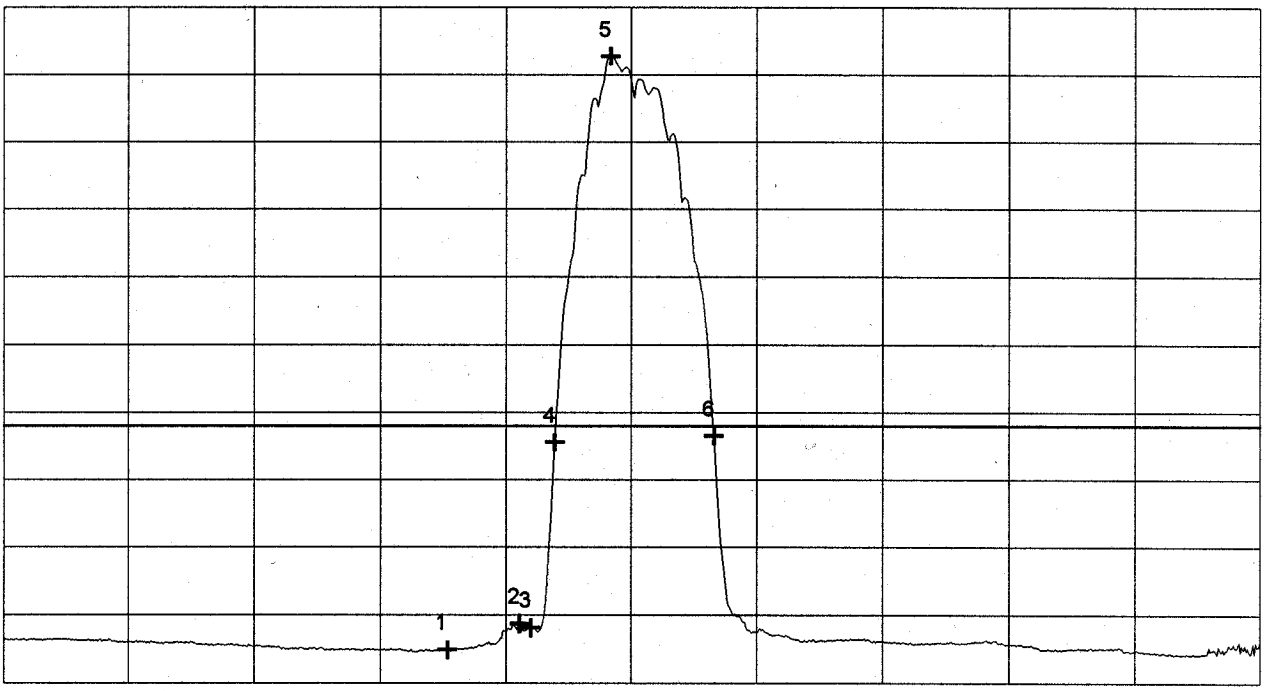
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 85 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	37.44 dBµV/m
Nr.2	2.398667 GHz	39.37 dBµV/m
Nr.3	2.400000 GHz	39.06 dBµV/m
Nr.4	2.402833 GHz	52.78 dBµV/m
Nr.5	2.409500 GHz	81.39 dBµV/m
Nr.6	2.421833 GHz	53.26 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

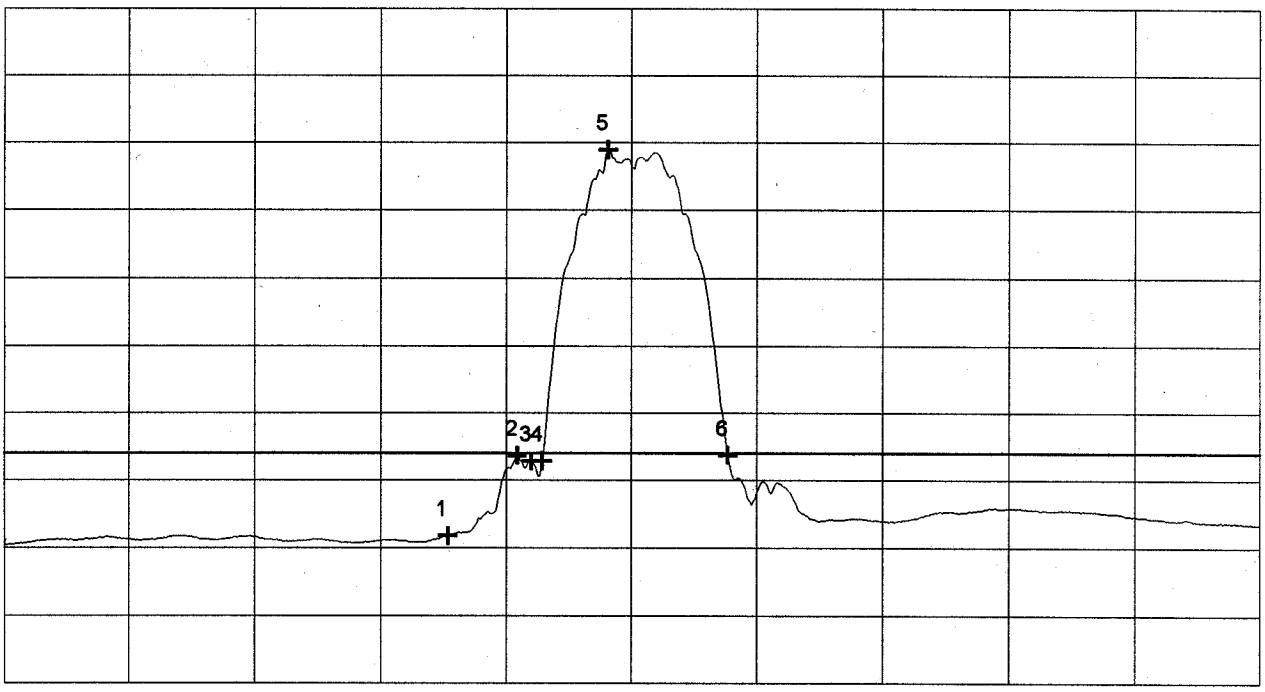
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	41.75 dBµV/m
Nr.2	2.398333 GHz	53.63 dBµV/m
Nr.3	2.400000 GHz	52.79 dBµV/m
Nr.4	2.401333 GHz	52.82 dBµV/m
Nr.5	2.409167 GHz	98.93 dBµV/m
Nr.6	2.423500 GHz	53.71 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/08/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 5 MBit

- TX mode with f = 2.442 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

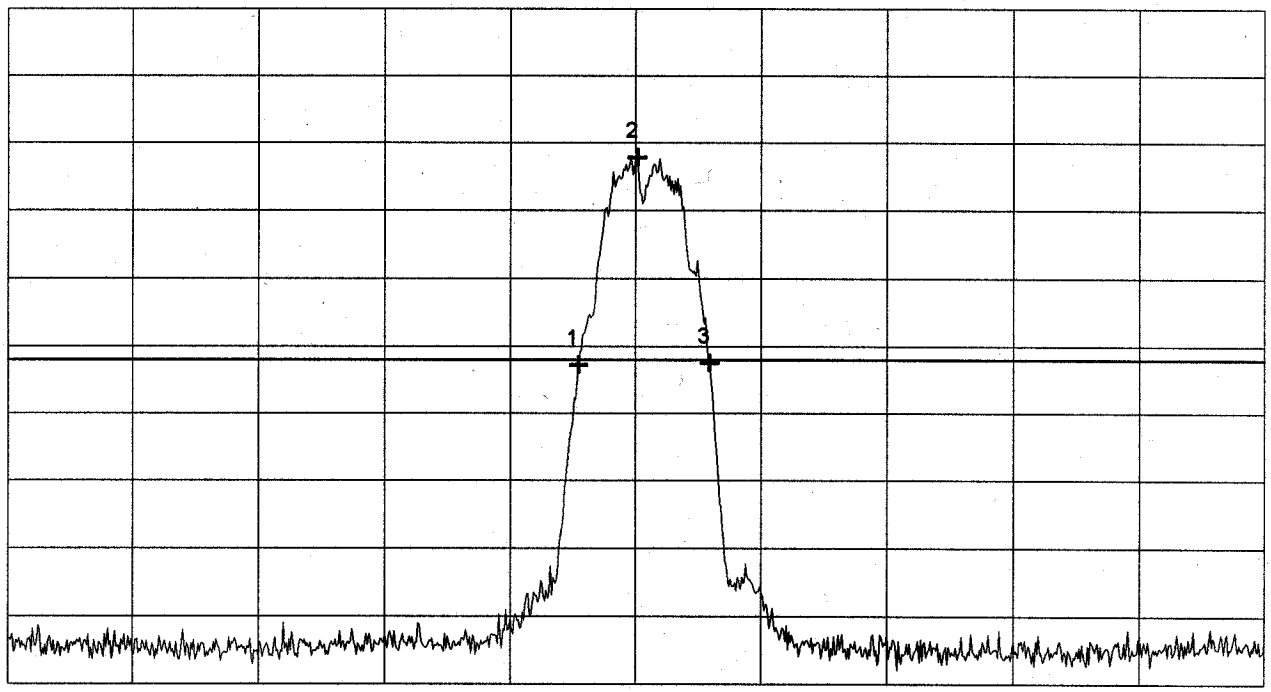
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.435167 GHz	73.62 dBµV/m
Nr.2	2.442167 GHz	88.91 dBµV/m
Nr.3	2.450833 GHz	73.77 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

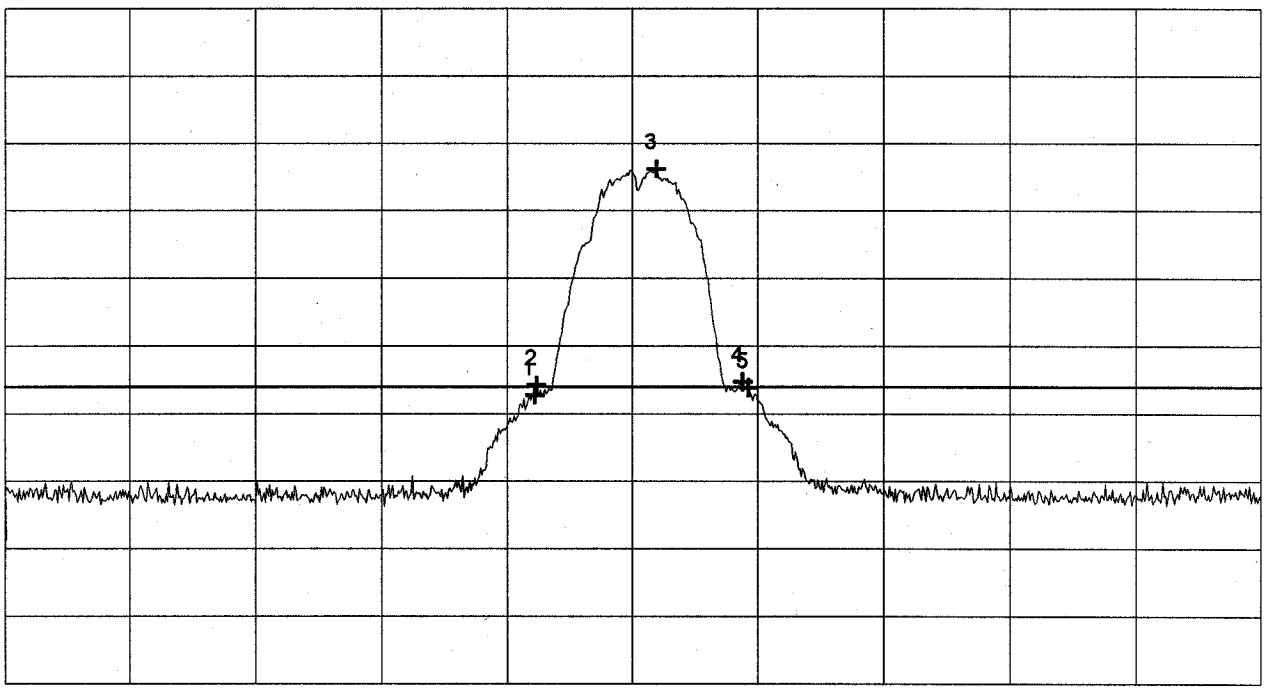
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.430333 GHz	72.78 dBµV/m
Nr.2	2.430500 GHz	74.22 dBµV/m
Nr.3	2.444833 GHz	106.22 dBµV/m
Nr.4	2.455167 GHz	74.73 dBµV/m
Nr.5	2.455833 GHz	73.87 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

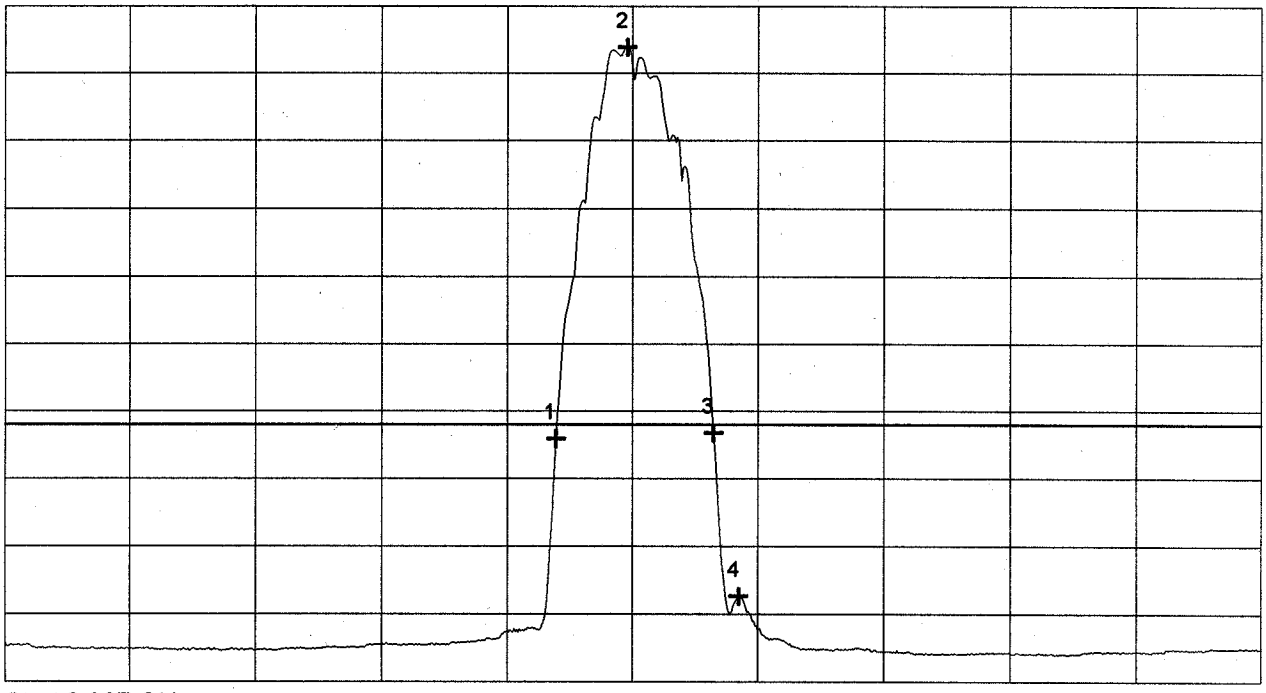
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 85 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.432833 GHz	52.93 dBµV/m
Nr.2	2.441333 GHz	81.93 dBµV/m
Nr.3	2.451667 GHz	53.36 dBµV/m
Nr.4	2.454667 GHz	41.30 dBµV/m
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

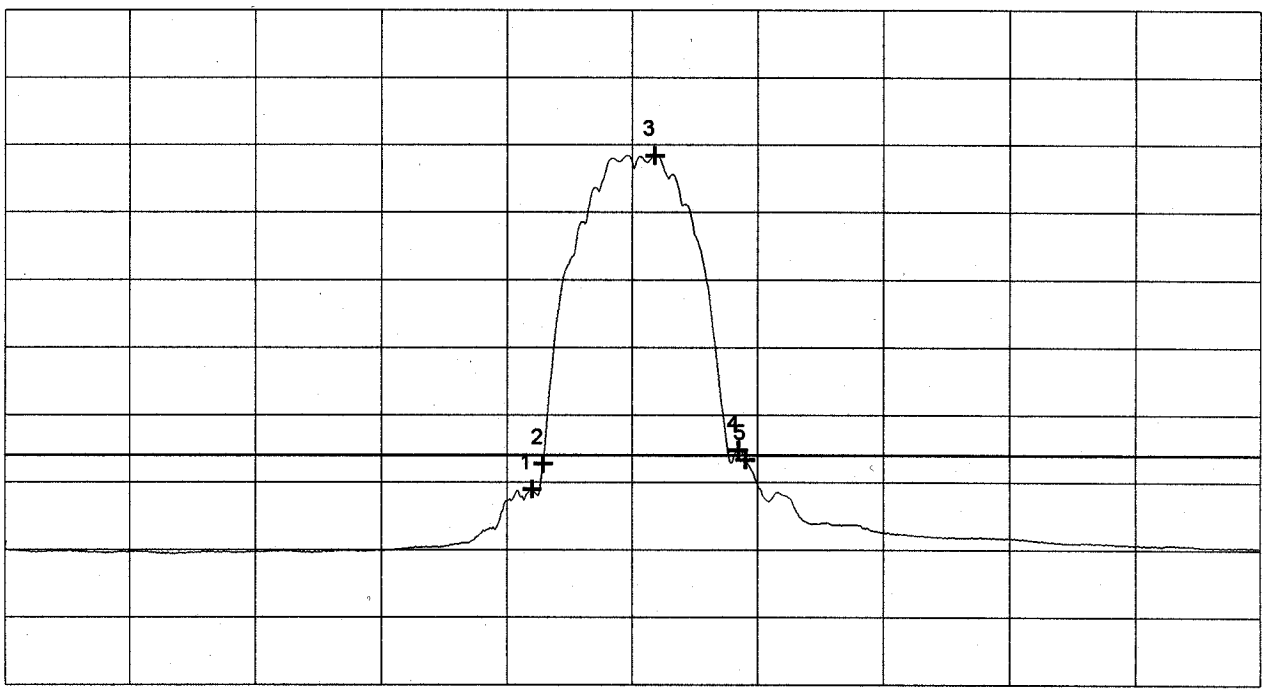
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.430000 GHz	48.96 dBµV/m
Nr.2	2.431333 GHz	52.72 dBµV/m
Nr.3	2.444667 GHz	98.40 dBµV/m
Nr.4	2.454667 GHz	54.75 dBµV/m
Nr.5	2.455500 GHz	53.35 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/08/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 5 MBit

- TX mode with f = 2.462 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

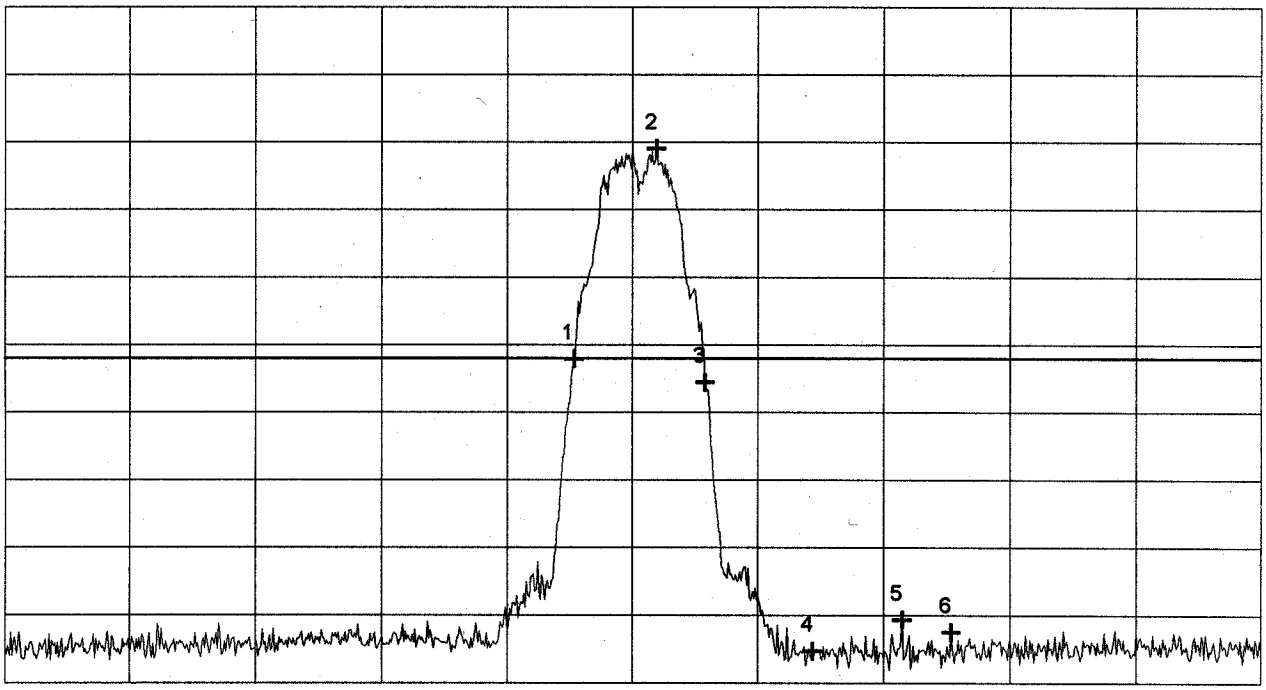
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.455000 GHz	73.95 dBµV/m
Nr.2	2.464833 GHz	89.52 dBµV/m
Nr.3	2.470667 GHz	72.20 dBµV/m
Nr.4	2.483500 GHz	52.34 dBµV/m
Nr.5	2.494167 GHz	54.65 dBµV/m
Nr.6	2.500000 GHz	53.74 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

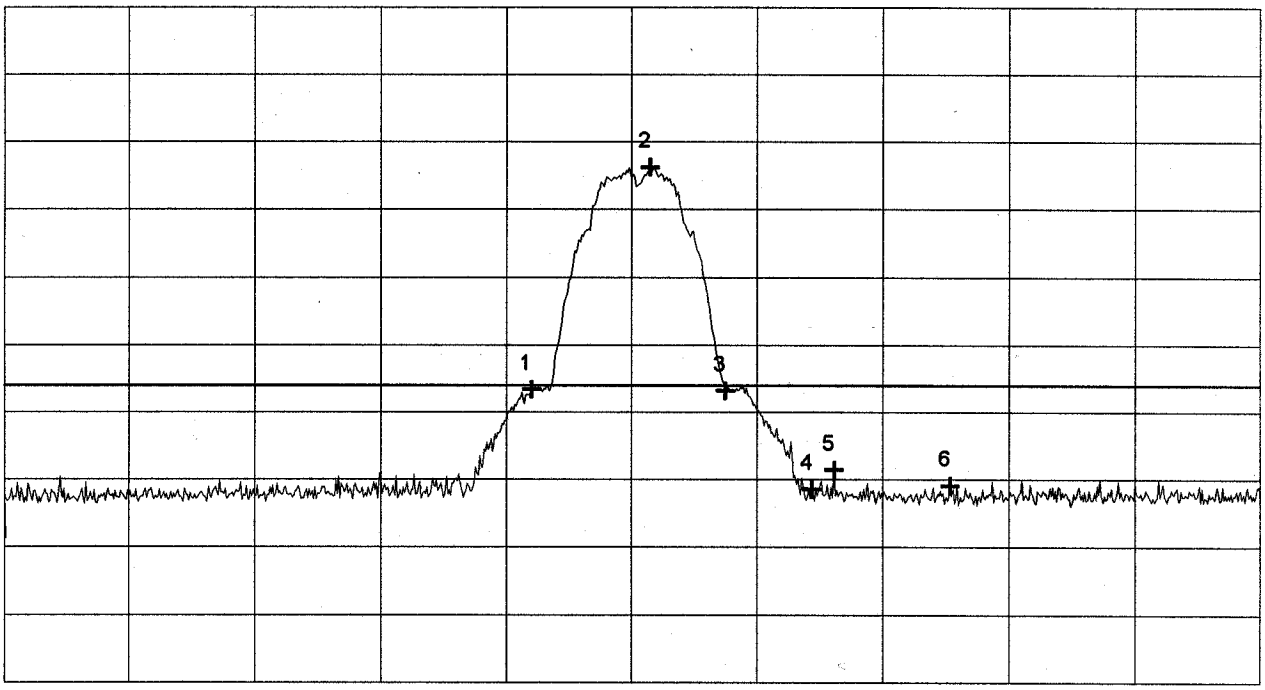
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

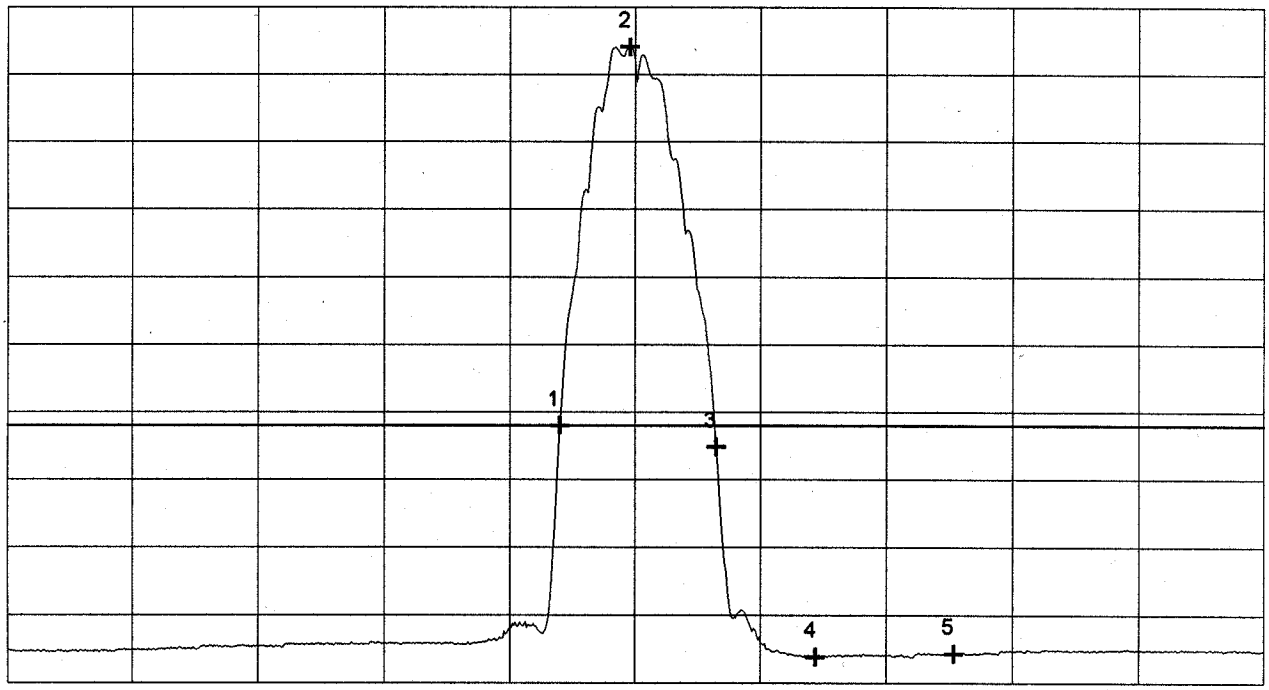
Nr.1	2.450000 GHz	73.36 dBµV/m
Nr.2	2.464167 GHz	106.19 dBµV/m
Nr.3	2.473167 GHz	73.16 dBµV/m
Nr.4	2.483500 GHz	58.53 dBµV/m
Nr.5	2.486167 GHz	61.35 dBµV/m
Nr.6	2.500000 GHz	59.04 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 85 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
5 dB dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 100 Hz SWP 4.60 s

**** Multi Marker ****

Nr.1	2.453000 GHz	53.99 dBµV/m
Nr.2	2.461333 GHz	82.08 dBµV/m
Nr.3	2.471667 GHz	52.42 dBµV/m
Nr.4	2.483500 GHz	36.90 dBµV/m
Nr.5	2.500000 GHz	37.13 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

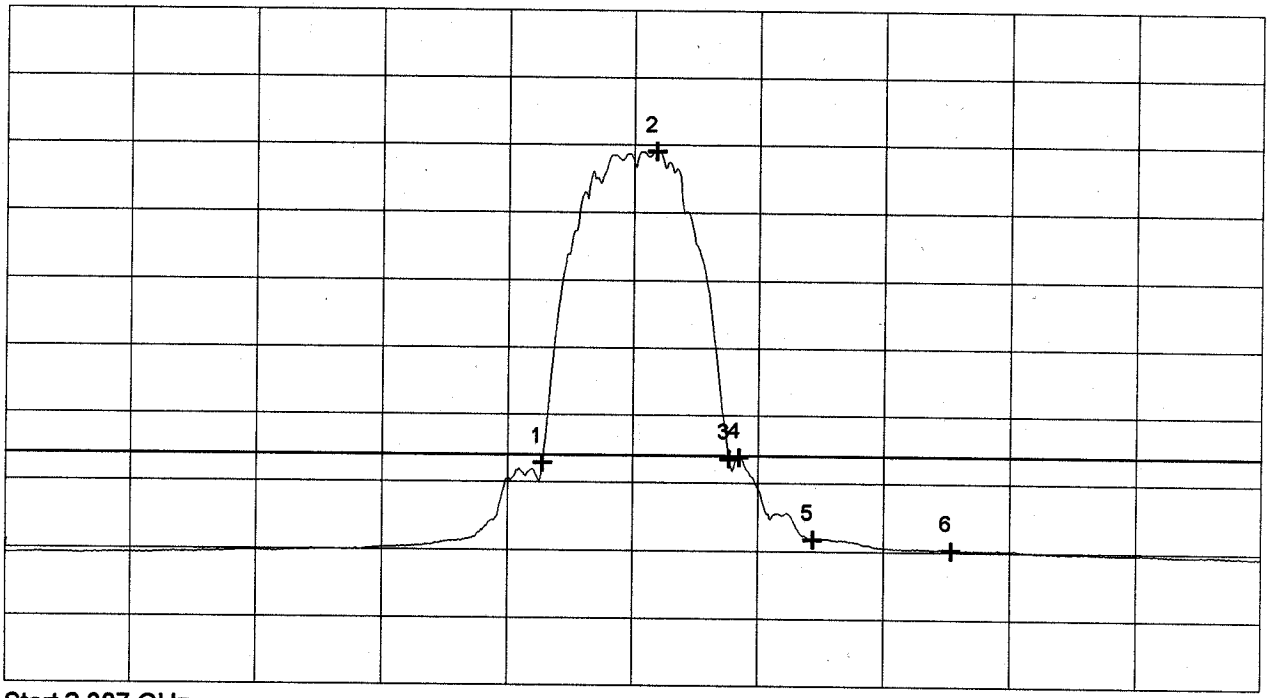
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.451167 GHz	52.79 dBµV/m
Nr.2	2.464667 GHz	99.03 dBµV/m
Nr.3	2.473500 GHz	53.53 dBµV/m
Nr.4	2.474667 GHz	53.73 dBµV/m
Nr.5	2.483500 GHz	41.70 dBµV/m
Nr.6	2.500000 GHz	40.22 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/08/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 8 MBit

- TX mode with f = 2.412 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

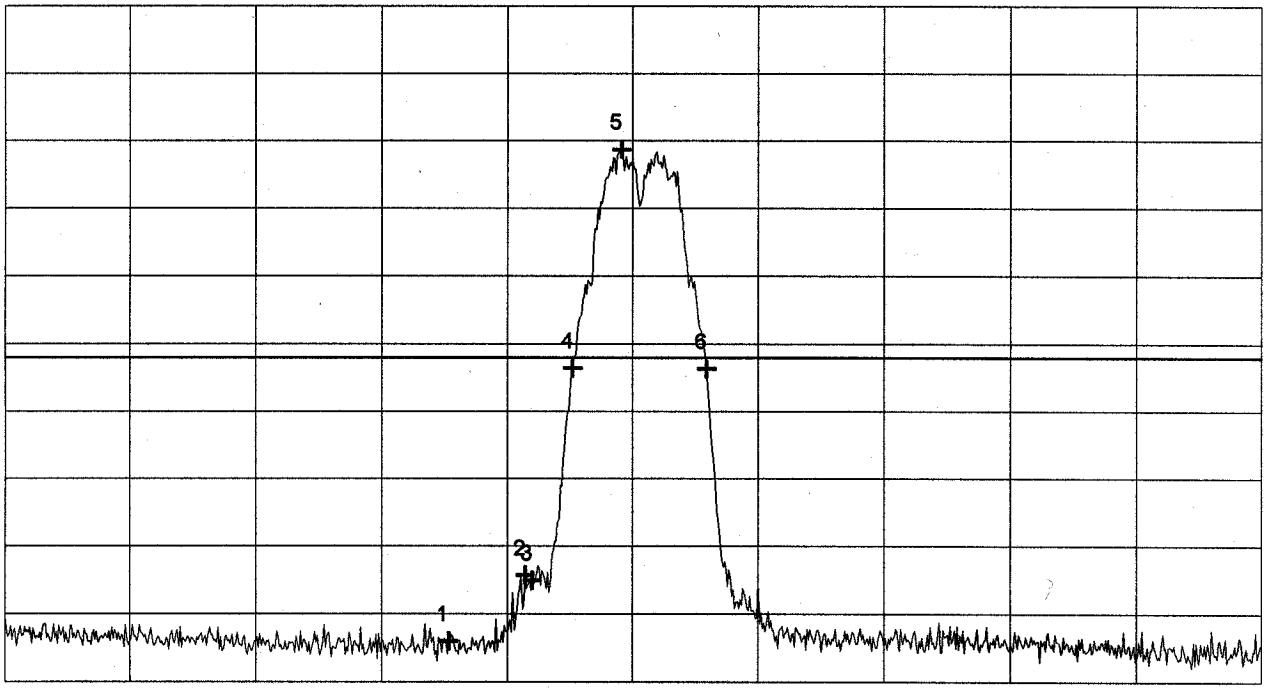
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	52.98 dBµV/m
Nr.2	2.399167 GHz	57.83 dBµV/m
Nr.3	2.400000 GHz	57.45 dBµV/m
Nr.4	2.404833 GHz	73.21 dBµV/m
Nr.5	2.410667 GHz	89.34 dBµV/m
Nr.6	2.420833 GHz	73.16 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

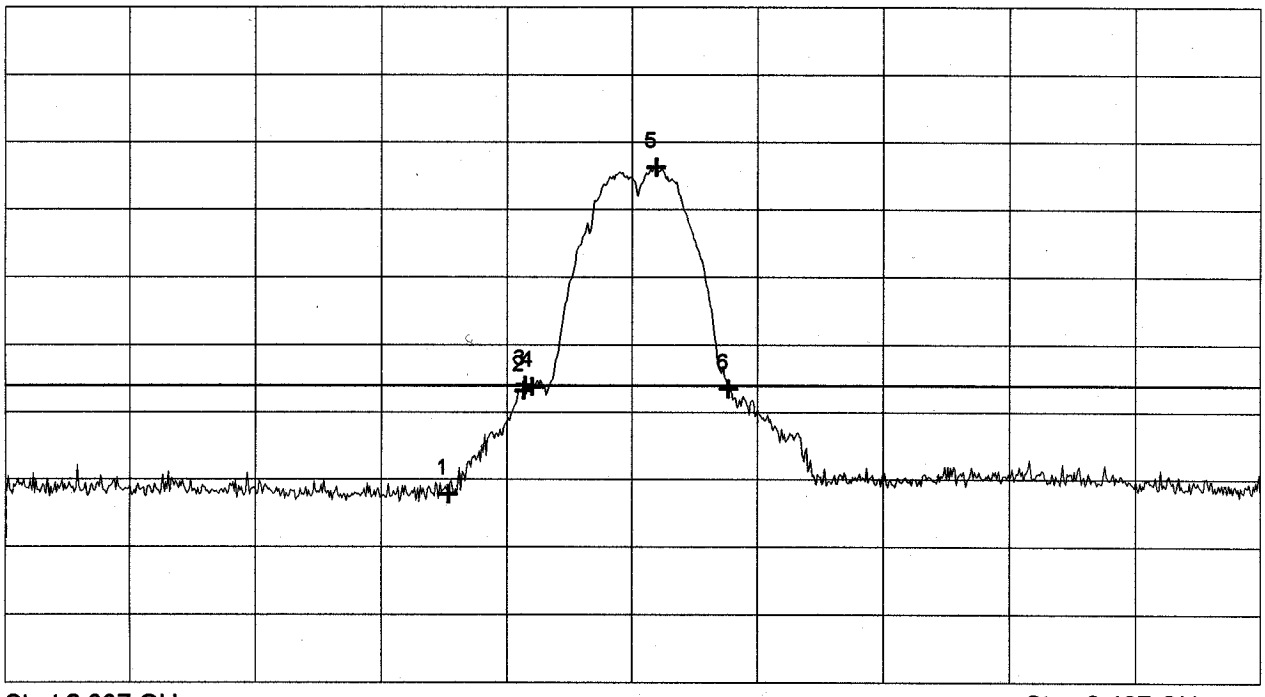
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	57.79 dBµV/m
Nr.2	2.399000 GHz	73.23 dBµV/m
Nr.3	2.399167 GHz	74.02 dBµV/m
Nr.4	2.400000 GHz	73.82 dBµV/m
Nr.5	2.414833 GHz	106.27 dBµV/m
Nr.6	2.423500 GHz	73.49 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

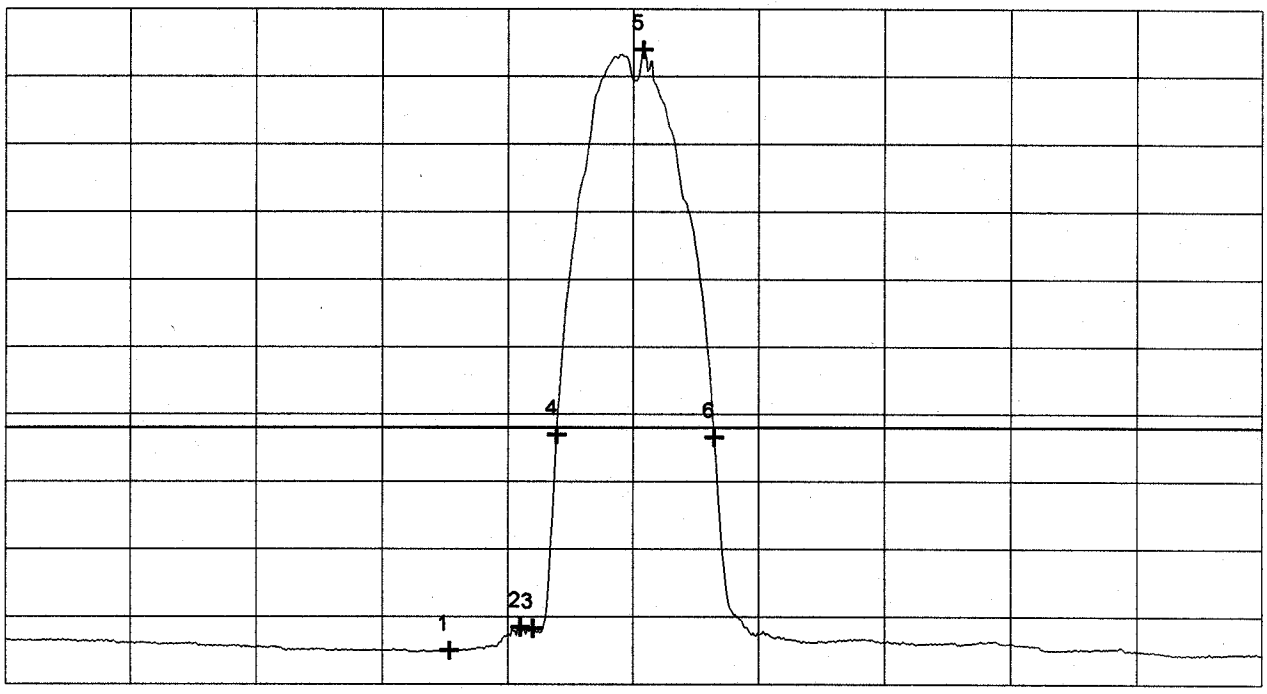
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 85 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	37.49 dBµV/m
Nr.2	2.398500 GHz	39.22 dBµV/m
Nr.3	2.400000 GHz	39.12 dBµV/m
Nr.4	2.402833 GHz	53.44 dBµV/m
Nr.5	2.413167 GHz	81.98 dBµV/m
Nr.6	2.421667 GHz	53.26 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

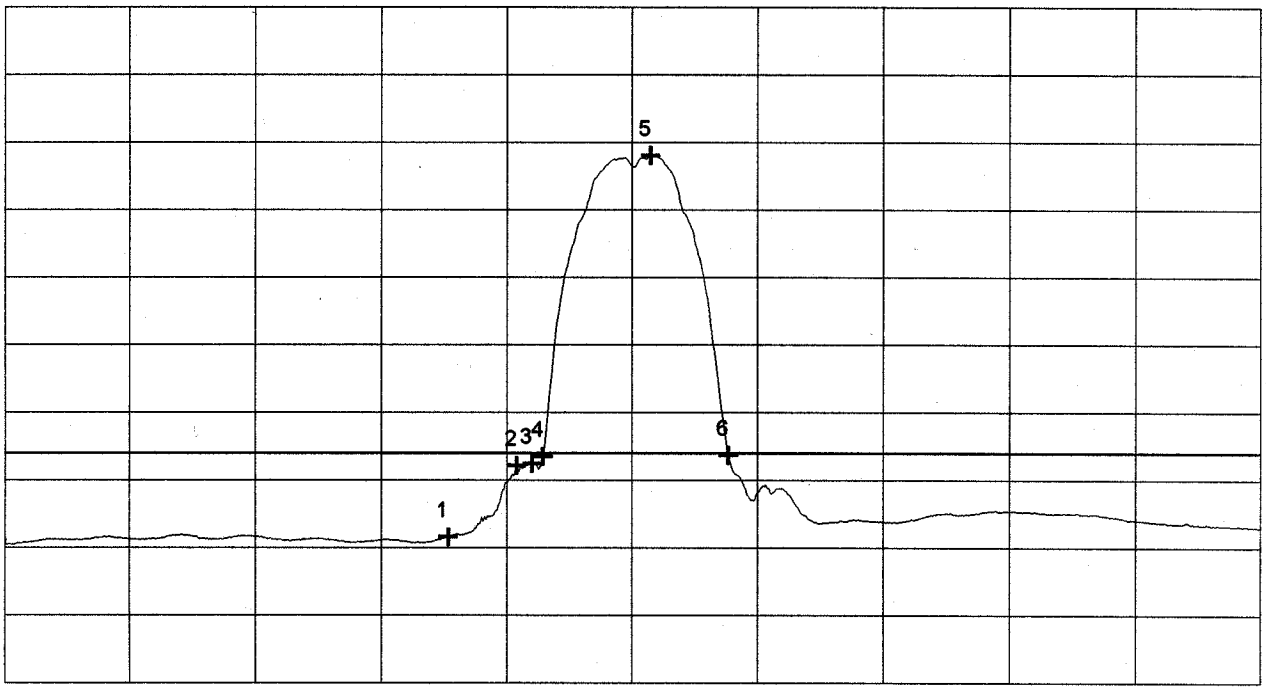
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	41.54 dBµV/m
Nr.2	2.398167 GHz	52.11 dBµV/m
Nr.3	2.400000 GHz	52.41 dBµV/m
Nr.4	2.401333 GHz	53.45 dBµV/m
Nr.5	2.414167 GHz	98.07 dBµV/m
Nr.6	2.423500 GHz	53.68 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/08/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 8 MBit

- TX mode with f = 2.442 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

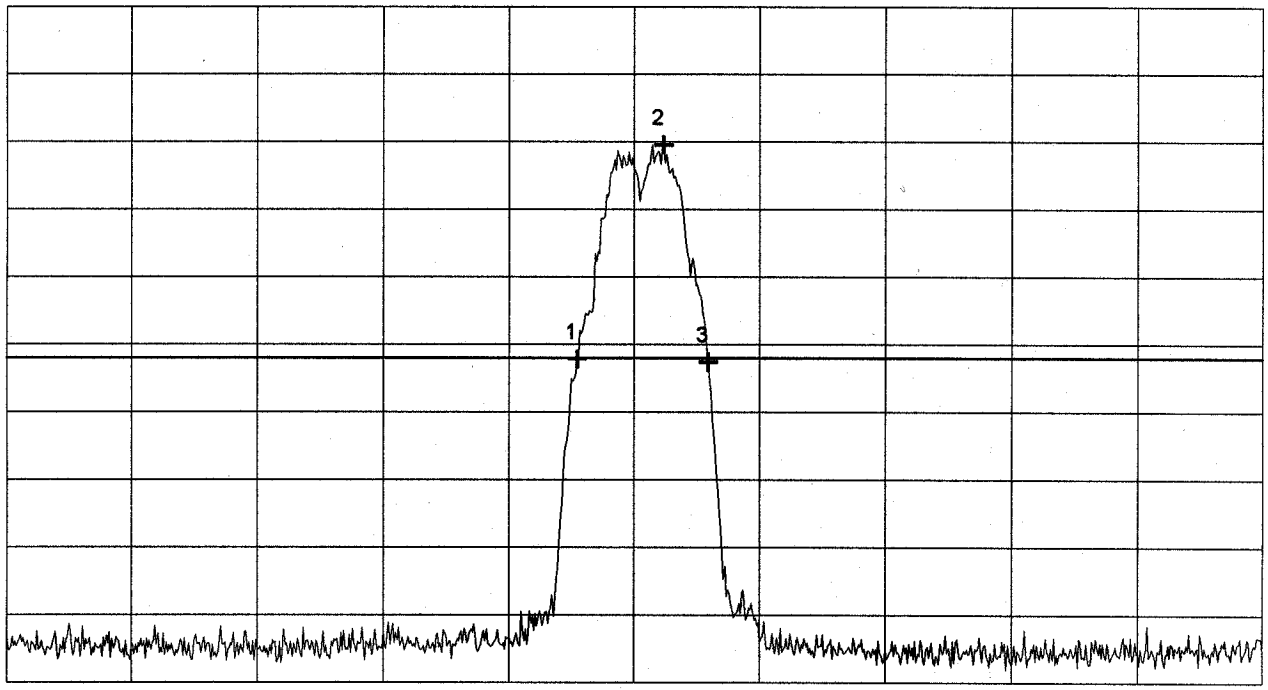
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.435167 GHz	73.93 dBµV/m
Nr.2	2.445500 GHz	89.77 dBµV/m
Nr.3	2.450833 GHz	73.70 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

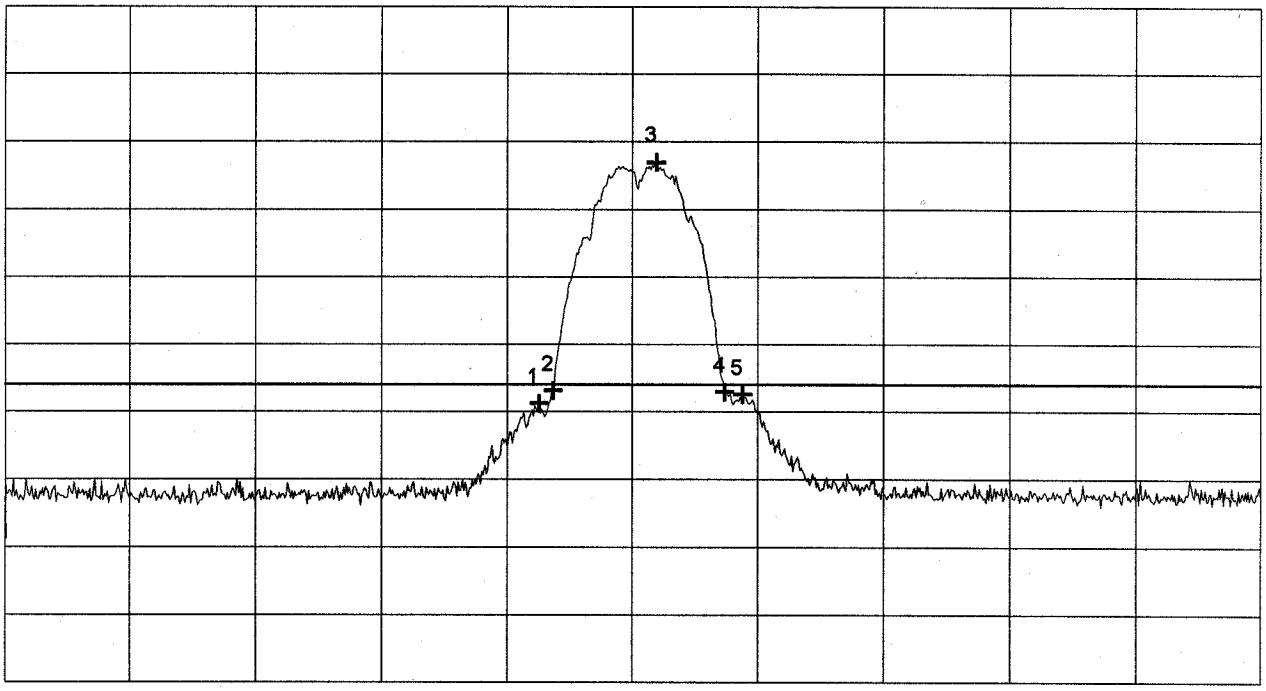
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

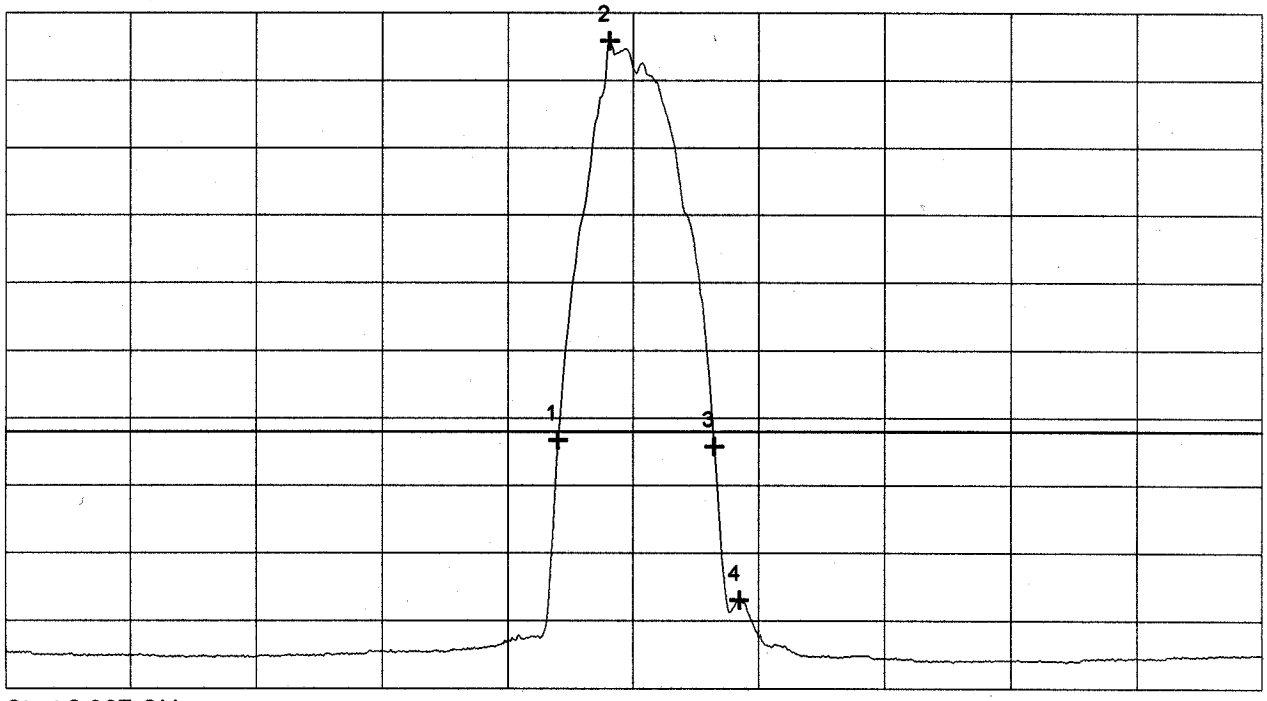
Nr.1	2.430833 GHz	71.18 dBµV/m
Nr.2	2.432500 GHz	73.08 dBµV/m
Nr.3	2.444833 GHz	106.98 dBµV/m
Nr.4	2.453000 GHz	72.90 dBµV/m
Nr.5	2.455167 GHz	72.55 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 85 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
5 dB dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 100 Hz SWP 4.60 s

**** Multi Marker ****

Nr.1	2.433000 GHz	53.36 dBµV/m
Nr.2	2.439167 GHz	82.94 dBµV/m
Nr.3	2.451667 GHz	52.88 dBµV/m
Nr.4	2.454667 GHz	41.50 dBµV/m
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

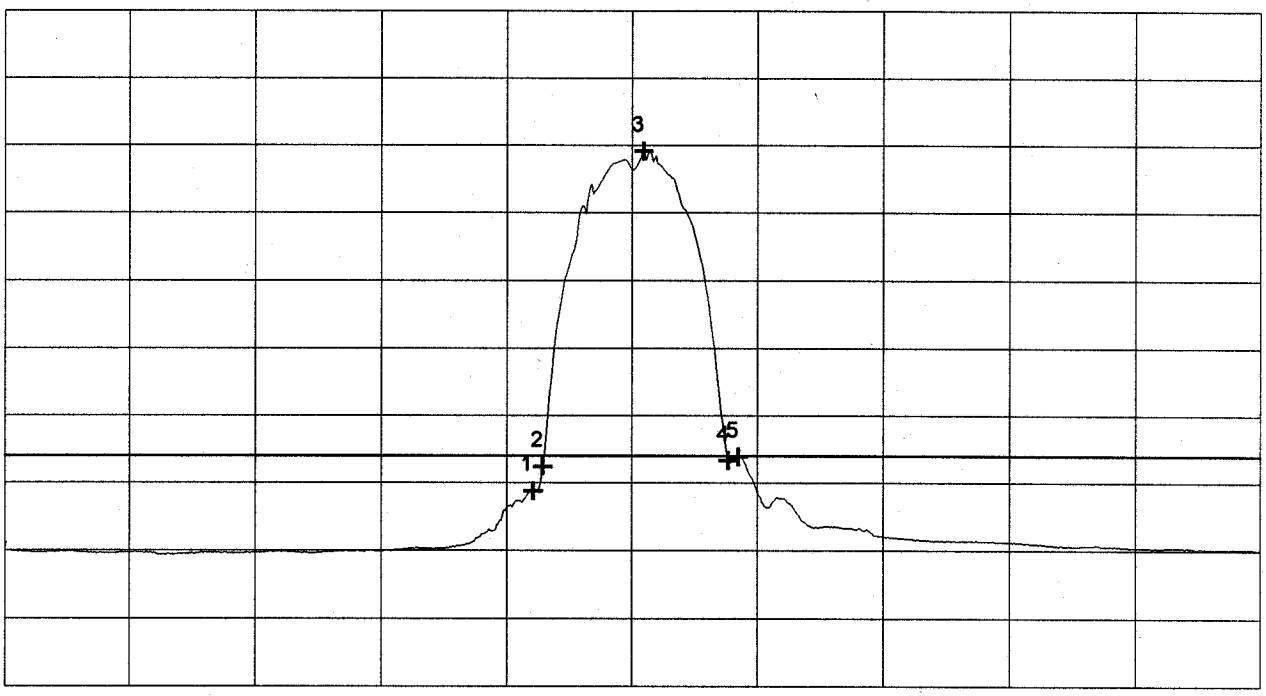
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.430167 GHz	48.76 dBµV/m
Nr.2	2.431333 GHz	52.39 dBµV/m
Nr.3	2.443333 GHz	99.11 dBµV/m
Nr.4	2.453500 GHz	53.30 dBµV/m
Nr.5	2.454667 GHz	53.86 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/08/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- operating with bit rate 8 MBit

- TX mode with f = 2.462 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

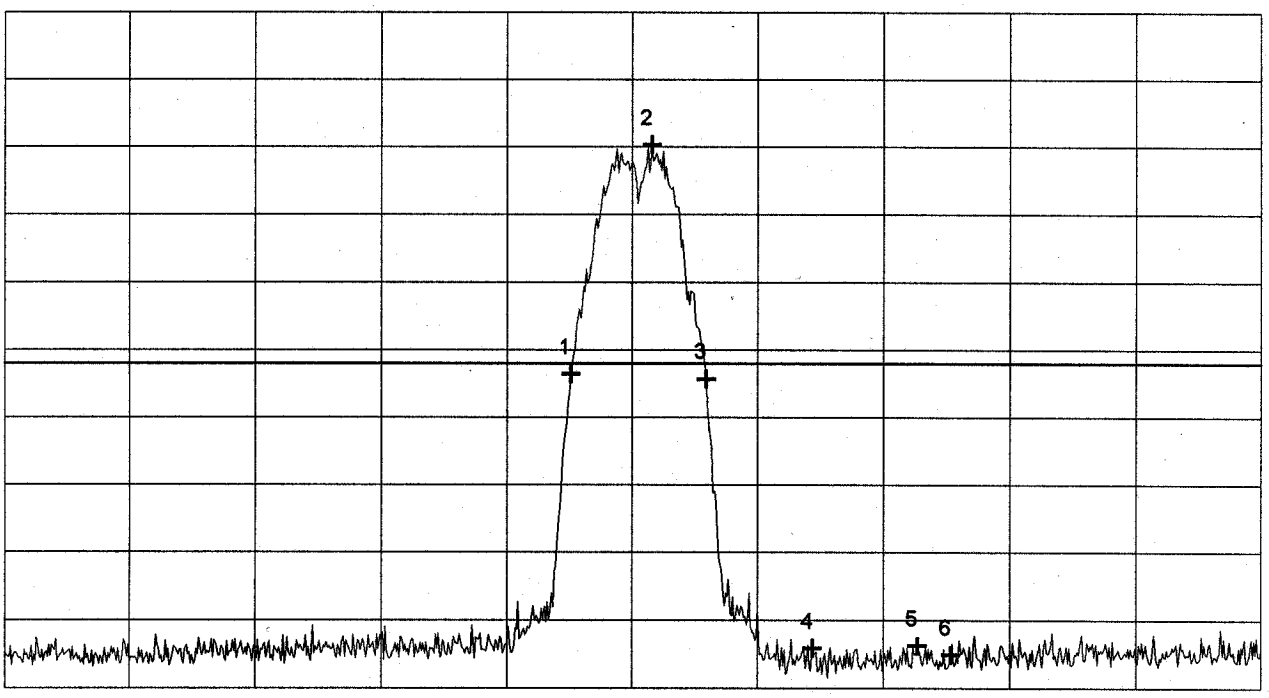
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 100 dBµV/m
5 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.454667 GHz	73.21 dBµV/m
Nr.2	2.464333 GHz	90.15 dBµV/m
Nr.3	2.470833 GHz	72.86 dBµV/m
Nr.4	2.483500 GHz	52.93 dBµV/m
Nr.5	2.496000 GHz	53.10 dBµV/m
Nr.6	2.500000 GHz	52.44 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

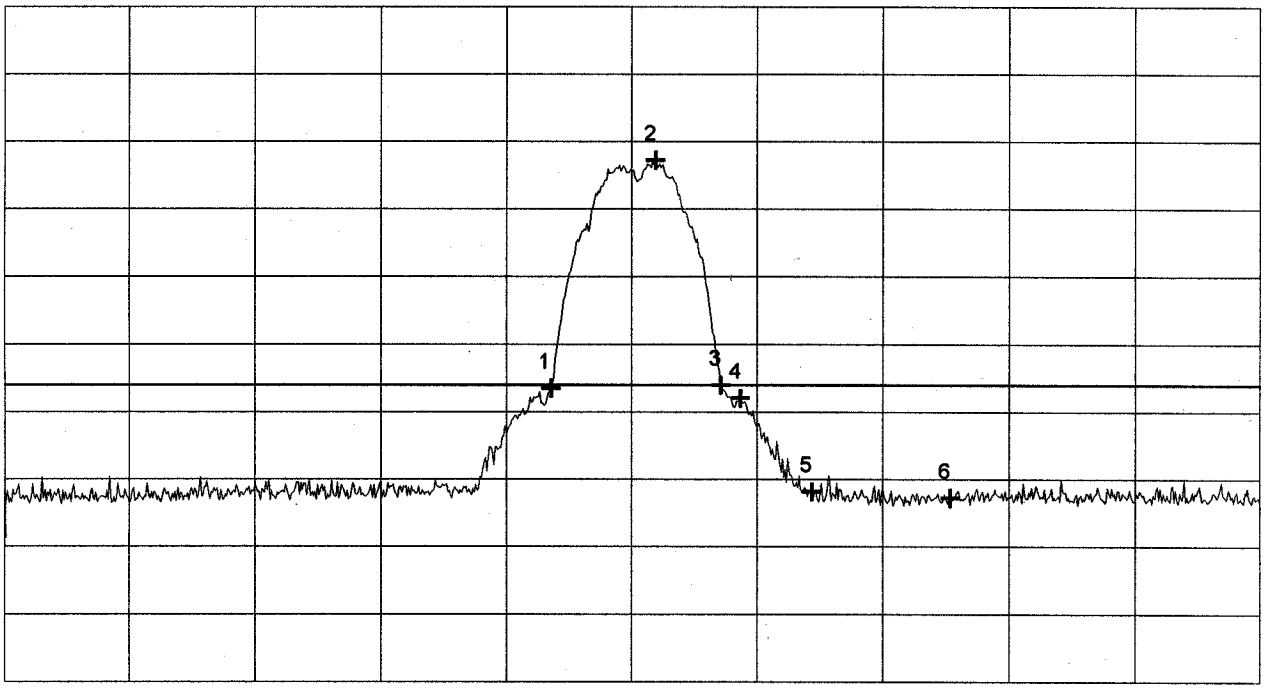
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

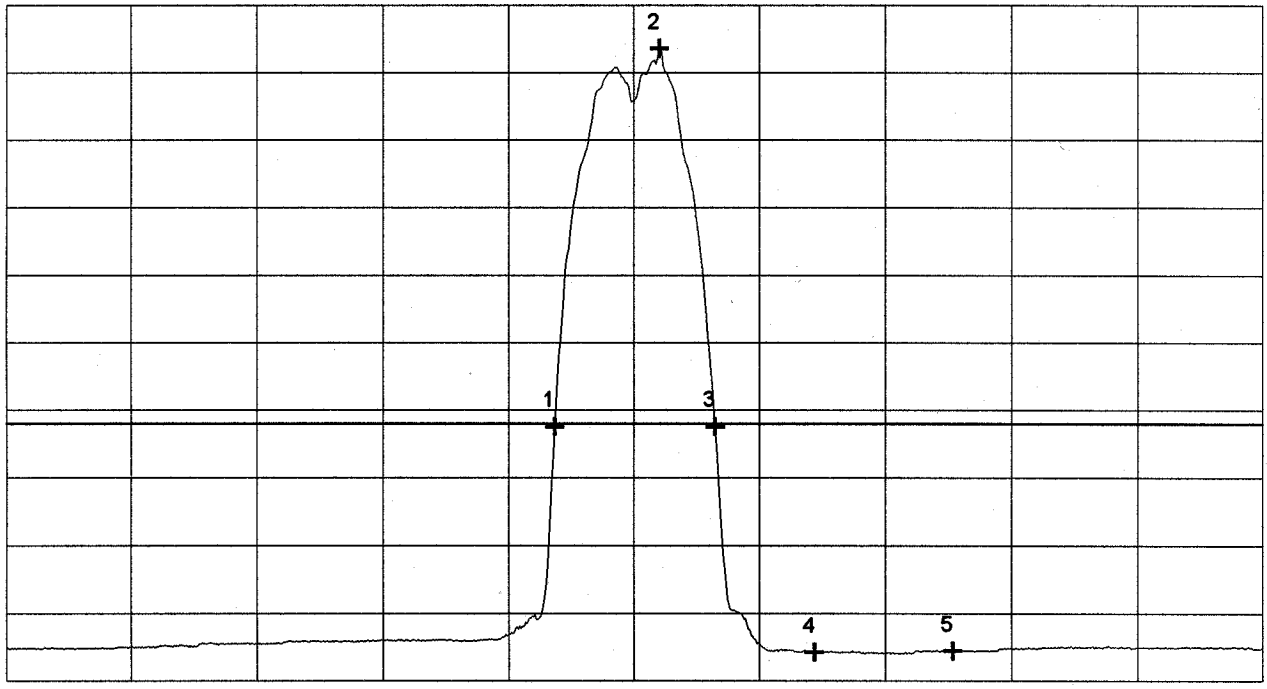
Nr.1	2.452333 GHz	73.51 dBµV/m
Nr.2	2.464833 GHz	107.21 dBµV/m
Nr.3	2.472667 GHz	73.97 dBµV/m
Nr.4	2.475000 GHz	72.04 dBµV/m
Nr.5	2.483500 GHz	58.12 dBµV/m
Nr.6	2.500000 GHz	57.21 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 85 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
5 dB dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 100 Hz SWP 4.60 s

**** Multi Marker ****

Nr.1	2.452500 GHz	53.77 dBµV/m
Nr.2	2.465000 GHz	81.80 dBµV/m
Nr.3	2.471667 GHz	53.77 dBµV/m
Nr.4	2.483500 GHz	37.11 dBµV/m
Nr.5	2.500000 GHz	37.21 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

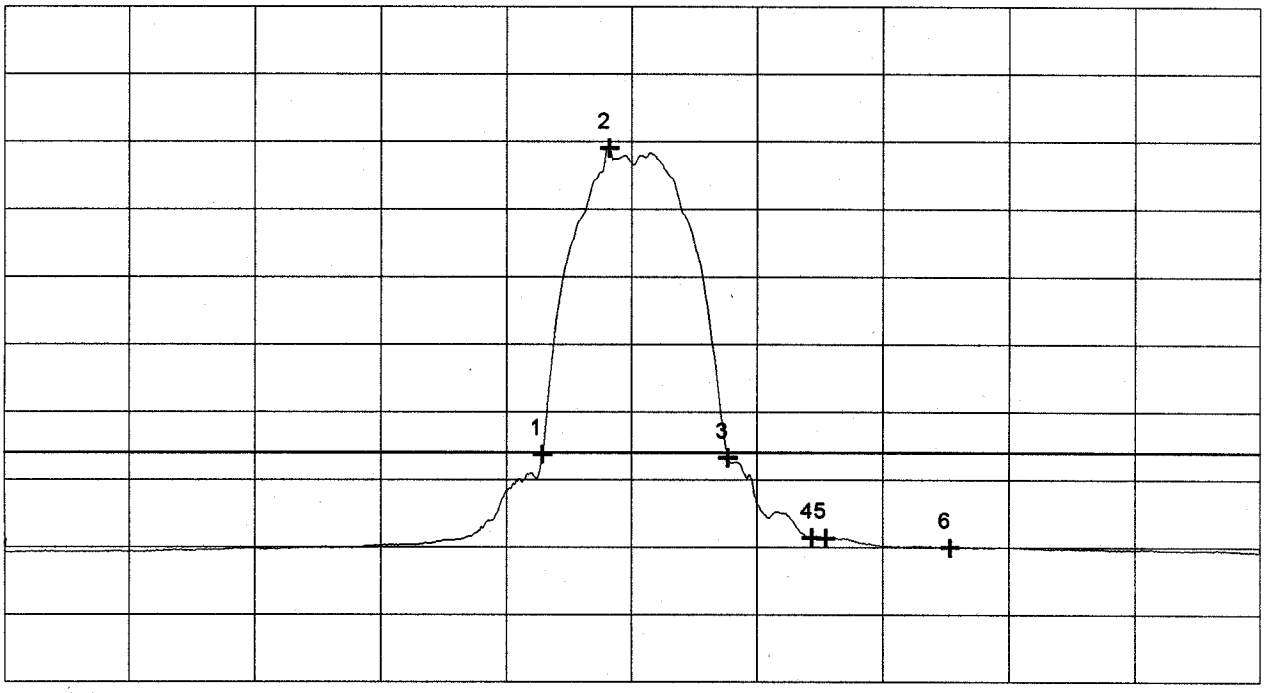
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-77 - with 50 ft antenna cable - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.451333 GHz	53.71 dBµV/m
Nr.2	2.459333 GHz	99.01 dBµV/m
Nr.3	2.473500 GHz	53.20 dBµV/m
Nr.4	2.483500 GHz	41.39 dBµV/m
Nr.5	2.485167 GHz	41.34 dBµV/m
Nr.6	2.500000 GHz	39.92 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/08/1999	

Test results for setup no. 2

Receive (RX) mode

Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/08/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- RX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.095	horizontal	44.5	-92.9		29.4	43.5	74

Result: The limits are kept

Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-77 (Maxrad)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/08/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-77
- with 50 ft antenna cable

- RX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.0901	horizontal	39.5	-97.7		29.4	38.7	54

Result: The limits are kept

Test results for setup no. 3

Transmit (TX) mode

Maximum Peak Output Power
according to FCC Part 15 Subpart C, §15.247b

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Date of test: 12/10/1998
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC

- TX mode

Tested on: Antenna connector

Selected bit rate	Operating frequency [GHz]	Power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit [dBm]
2 MBit	2.412	14.3	0.5	14.8	30
	2.442	14.6	0.5	15.1	30
	2.462	14.4	0.5	14.9	30
5 MBit	2.412	11.0	0.5	11.5	30
	2.442	11.3	0.5	11.8	30
	2.462	11.1	0.5	11.6	30
8 MBit	2.412	11.1	0.5	11.6	30
	2.442	11.4	0.5	11.9	30
	2.462	11.2	0.5	11.7	30

Note:
Typical gain of external omni-directional antenna AOU24-OD-55 is 5 dBi. Effective antenna gain is calculated by subtracting the insertion loss of 2.5 m antenna cable TBD. Limit of 30 dBm is reduced by the amount of the effective antenna gain exceeding 6 dBi.

Antenna cable	Antenna gain AOU24-OD-55 [dBi]	Total insertion loss [dB]	Effective antenna gain		Limit [dBm]
			total value [dBi]	exceeding 6 dBi [dB]	
2.5 m (TBD)	5.0	3.3	1.7	0.0	30.0

Result: The limit is kept

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/11/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 2 MBit

- TX mode with f = 2.412 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	60.0		0.6	20.7	60.0	74
2.3985	vertical	71.7		0.6	20.7	71.7	NRB
2.4000	vertical	69.4		0.6	20.7	69.4	NRB
2.4023	vertical	73.4		0.6	20.7	73.4	NRB
2.4145	vertical	107.9		0.6	20.7	107.9	OB
2.4235	vertical	73.9		0.6	20.7	73.9	OB
2.7650	vertical	43.1	-88.4		23.7	42.3	74
4.8303	vertical	40.6	-94.0		27.3	40.3	74
7.2391	vertical	43.5	-92.2		29.9	44.7	NRB
8.2493	vertical	41.2	-98.5		33.4	41.9	74
9.6467	horizontal	45.4	-94.1		33.4	46.3	NRB
12.0780	vertical	44.1	-96.7		33.6	43.9	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 112.7 dBµV/m.

Result: The limits are kept

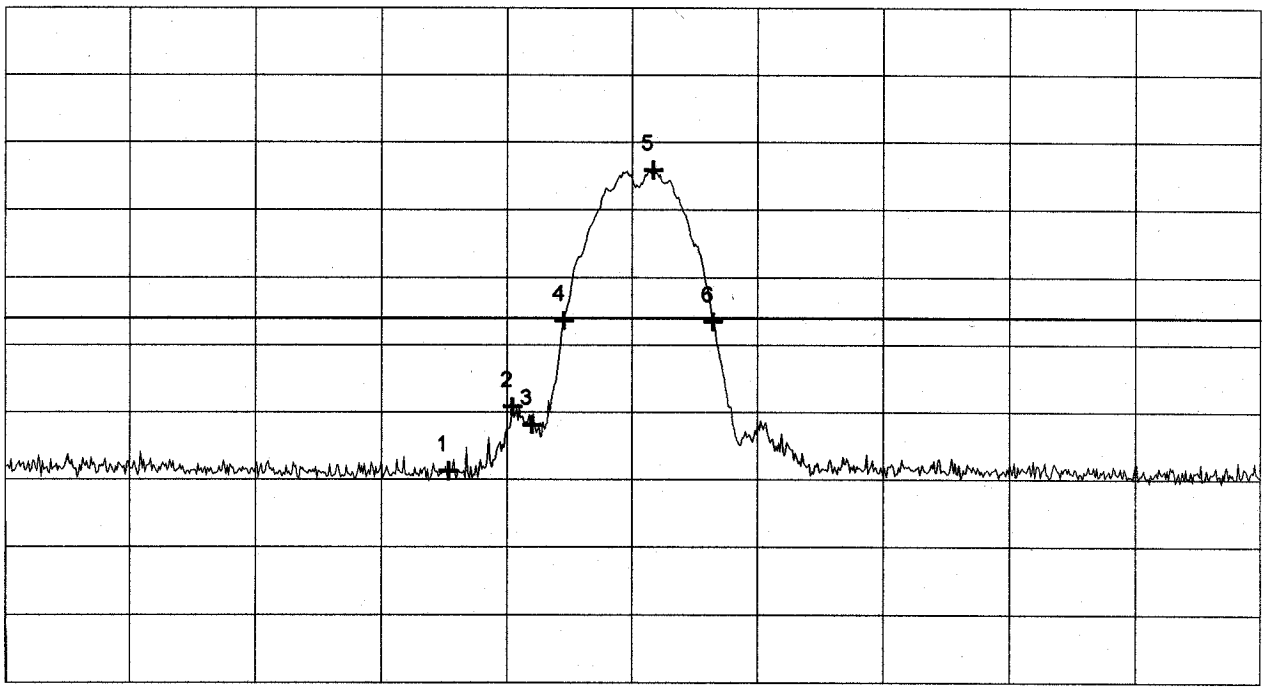
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	51.19 dBµV/m
Nr.2	2.397667 GHz	60.79 dBµV/m
Nr.3	2.400000 GHz	58.08 dBµV/m
Nr.4	2.403833 GHz	73.62 dBµV/m
Nr.5	2.414500 GHz	95.89 dBµV/m
Nr.6	2.421667 GHz	73.46 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

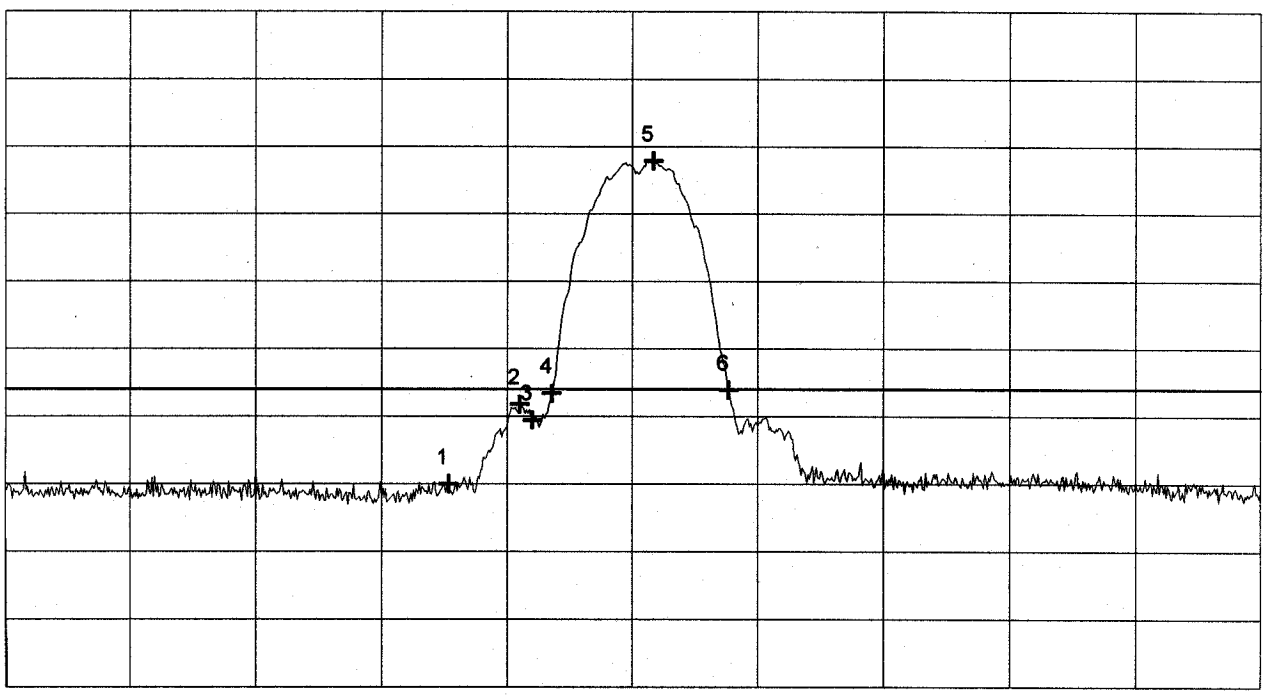
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	59.95 dBµV/m
Nr.2	2.398500 GHz	71.73 dBµV/m
Nr.3	2.400000 GHz	69.42 dBµV/m
Nr.4	2.402333 GHz	73.36 dBµV/m
Nr.5	2.414500 GHz	107.89 dBµV/m
Nr.6	2.423500 GHz	73.87 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/11/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 2 MBit

- TX mode with f = 2.412 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	vertical	44.4		0.6	20.7	44.4	54
2.3937	vertical	53.5		0.6	20.7	53.5	NRB
2.3983	vertical	66.2		0.6	20.7	66.2	NRB
2.4000	vertical	63.8		0.6	20.7	63.8	NRB
2.4112	vertical	104.3		0.6	20.7	104.3	OB
2.4310	vertical	53.8		0.6	20.7	53.8	OB
9.6482	horizontal	40.5	-98.8		33.4	41.6	NRB
12.0612	vertical	38.1	-102.5		33.6	38.1	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 104.3 dBµV/m.

Result: The limits are kept

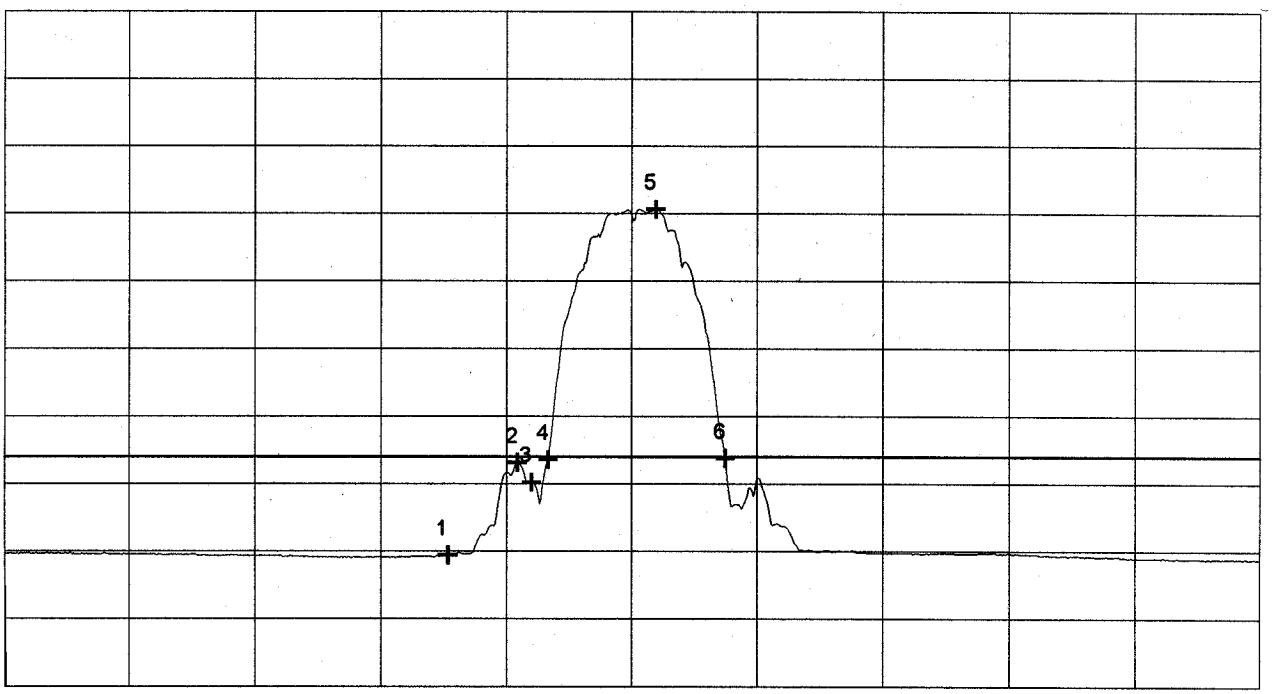
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

****** Multi Marker ******

Nr.1	2.390000 GHz	39.39 dBµV/m
Nr.2	2.398333 GHz	53.10 dBµV/m
Nr.3	2.400000 GHz	50.18 dBµV/m
Nr.4	2.402000 GHz	53.56 dBµV/m
Nr.5	2.414833 GHz	90.60 dBµV/m
Nr.6	2.423167 GHz	53.76 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

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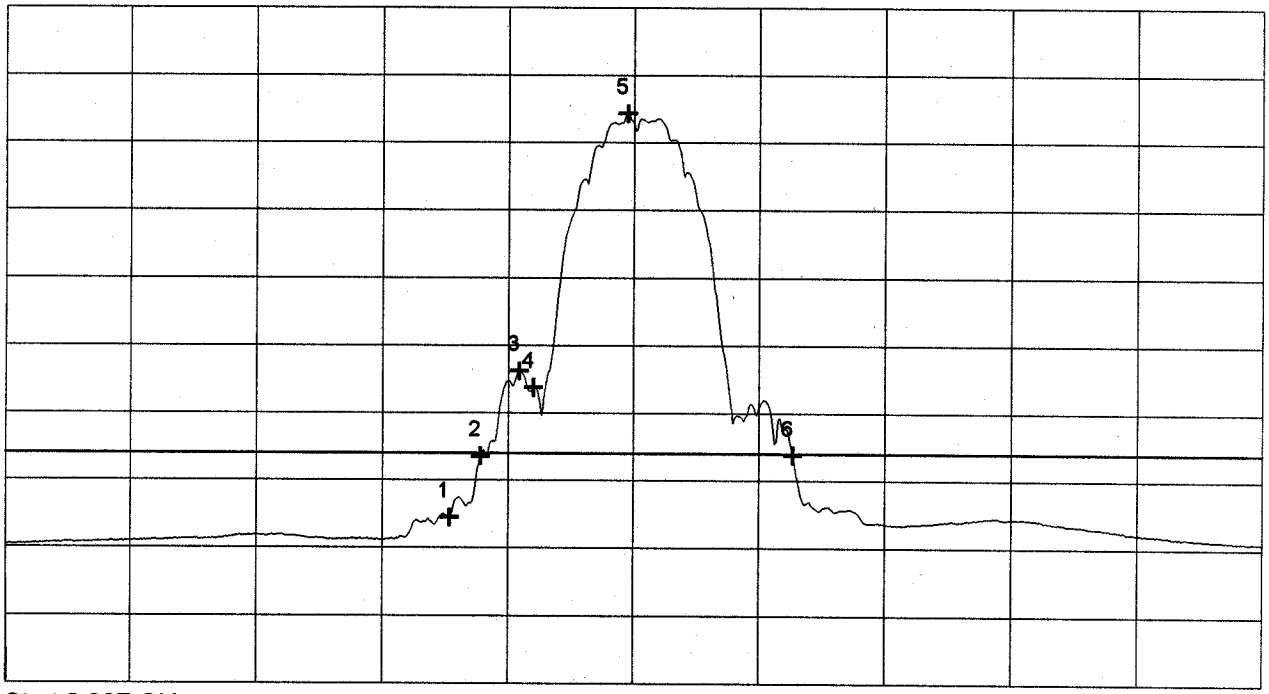
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

****** Multi Marker ******

Nr.1	2.390000 GHz	44.39 dBµV/m
Nr.2	2.393667 GHz	53.53 dBµV/m
Nr.3	2.398333 GHz	66.23 dBµV/m
Nr.4	2.400000 GHz	63.79 dBµV/m
Nr.5	2.411167 GHz	104.34 dBµV/m
Nr.6	2.431000 GHz	53.78 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/11/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 2 MBit

- TX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4325	vertical	73.5		0.6	20.7	73.5	OB
2.4450	vertical	107.4		0.6	20.7	107.4	OB
2.4535	vertical	72.4		0.6	20.7	72.4	OB
4.8894	vertical	38.0	-96.4		27.3	37.9	74
7.3305	vertical	46.5	-90.2		29.9	46.7	74
9.7680	horizontal	43.1	-96.9		33.4	43.5	NRB
12.2273	horizontal	42.9	-97.2		33.6	43.4	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 107.4 dBµV/m.

Result: The limits are kept

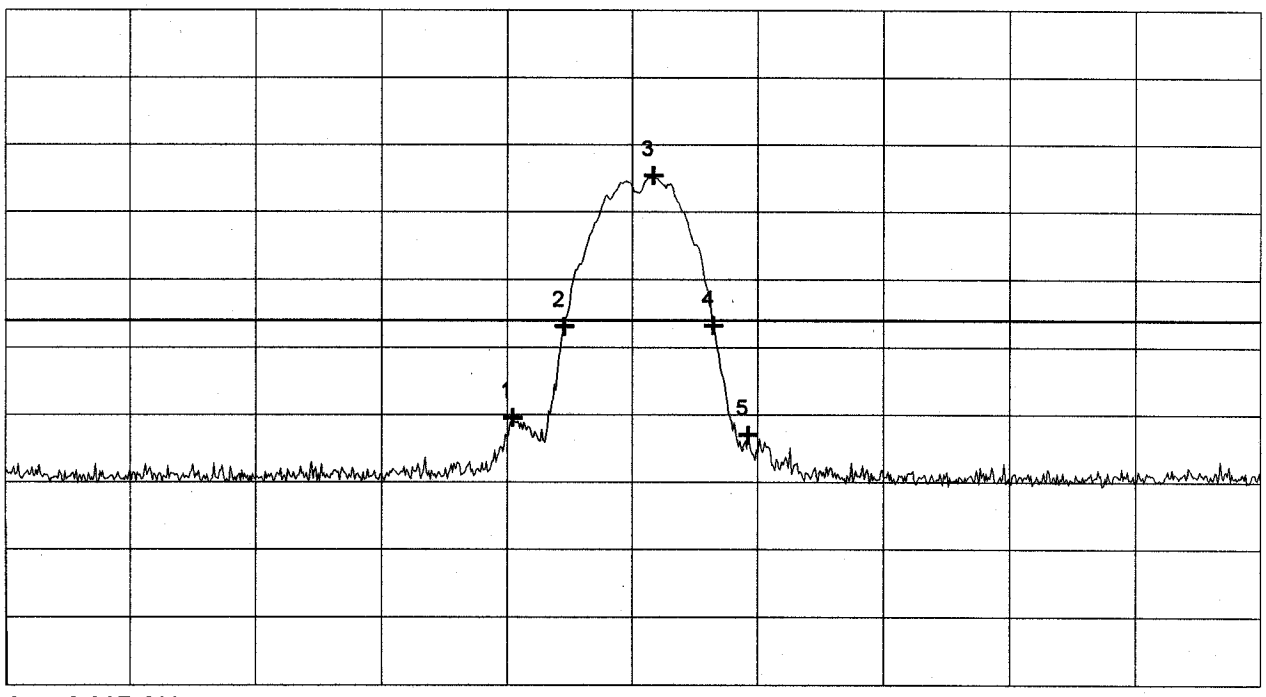
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.427667 GHz	59.52 dBµV/m
Nr.2	2.433833 GHz	73.08 dBµV/m
Nr.3	2.444500 GHz	95.40 dBµV/m
Nr.4	2.451667 GHz	73.24 dBµV/m
Nr.5	2.455833 GHz	56.98 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

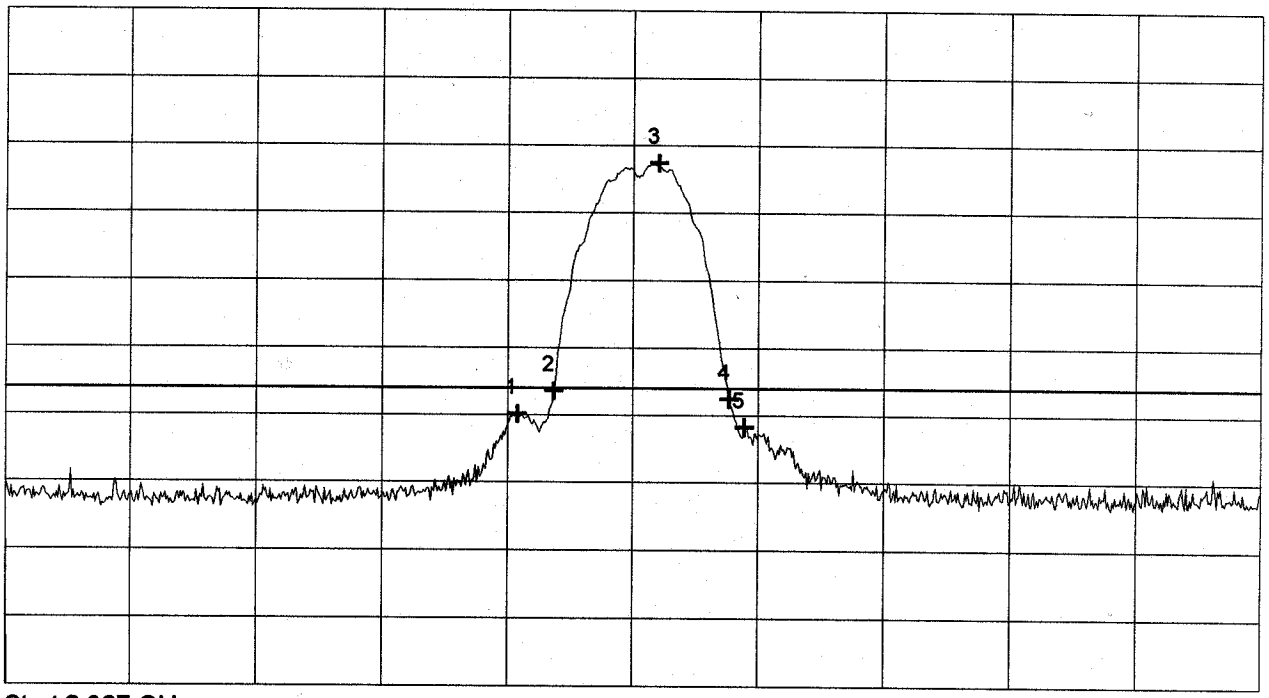
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.428167 GHz	70.11 dBµV/m
Nr.2	2.432500 GHz	73.54 dBµV/m
Nr.3	2.445000 GHz	107.36 dBµV/m
Nr.4	2.453500 GHz	72.42 dBµV/m
Nr.5	2.455333 GHz	68.26 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/11/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 2 MBit

- TX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4245	vertical	53.4		0.6	20.7	53.4	OB
2.4450	vertical	104.0		0.6	20.7	104.0	OB
2.4605	vertical	53.9		0.6	20.7	53.9	OB
7.3271	vertical	43.2	-93.4		29.9	43.5	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 104.0 dBµV/m.

Result: The limits are kept

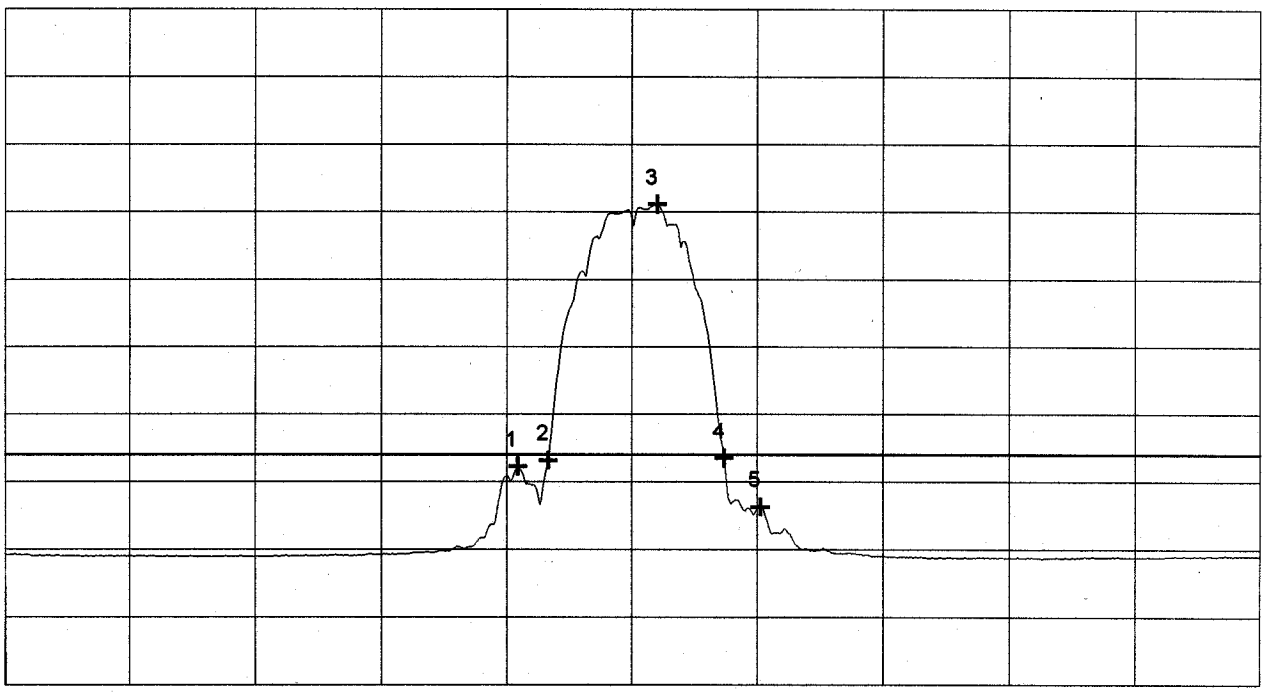
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.428333 GHz	52.26 dBµV/m
Nr.2	2.432000 GHz	53.15 dBµV/m
Nr.3	2.445000 GHz	91.11 dBµV/m
Nr.4	2.453000 GHz	53.50 dBµV/m
Nr.5	2.457333 GHz	46.27 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

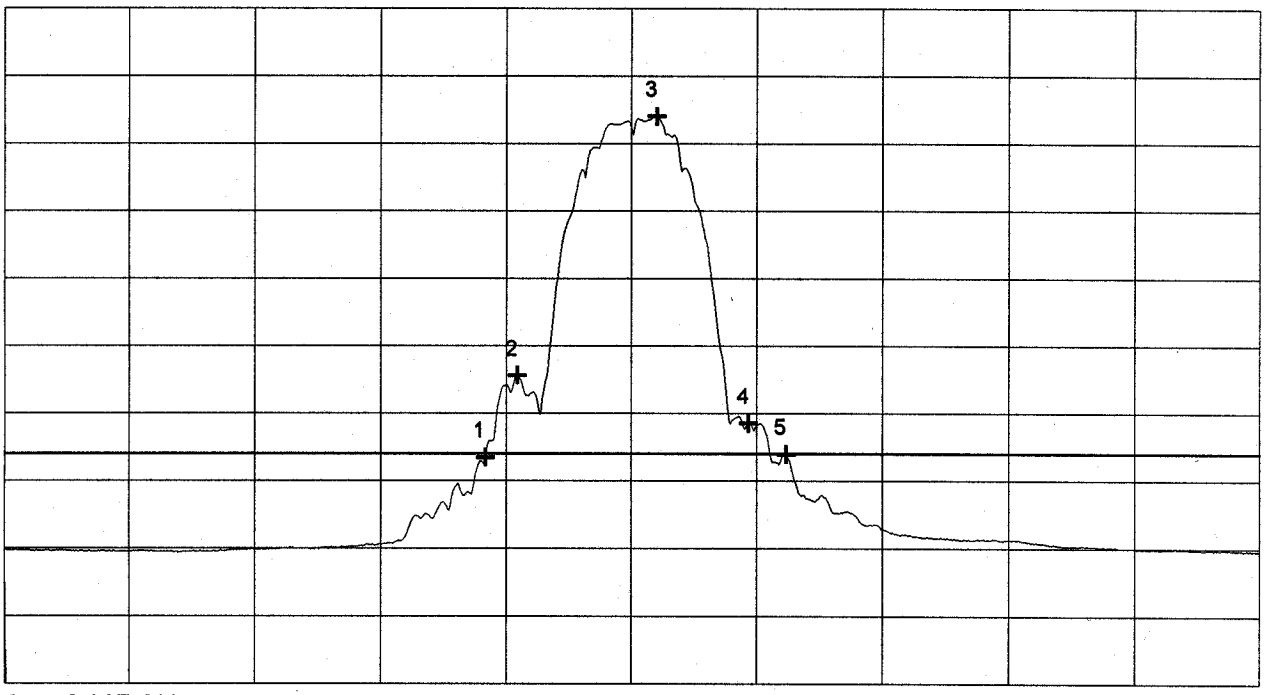
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.424500 GHz	53.43 dBµV/m
Nr.2	2.428333 GHz	65.62 dBµV/m
Nr.3	2.445000 GHz	104.04 dBµV/m
Nr.4	2.456000 GHz	58.51 dBµV/m
Nr.5	2.460500 GHz	53.89 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/11/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 2 MBit

- TX mode with f = 2.462 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4523	vertical	73.5		0.6	20.7	73.5	OB
2.4608	vertical	107.9		0.6	20.7	107.9	OB
2.4733	vertical	73.5		0.6	20.7	73.5	OB
2.4835	vertical	59.6		0.6	20.7	59.6	74
2.4850	vertical	60.7		0.6	20.7	60.7	74
2.5000	vertical	57.1		0.6	20.7	57.1	74
4.9296	vertical	40.7	-93.7		27.3	40.6	74
7.3906	vertical	45.9	-90.2		30.0	46.7	74
8.4473	vertical	43.8	-96.4		33.4	44.0	74
9.8473	vertical	42.9	-96.8		33.4	43.7	NRB
12.3300	horizontal	43.3	-97.5		33.6	43.1	74

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 107.9 dBµV/m.

Result: The limits are kept

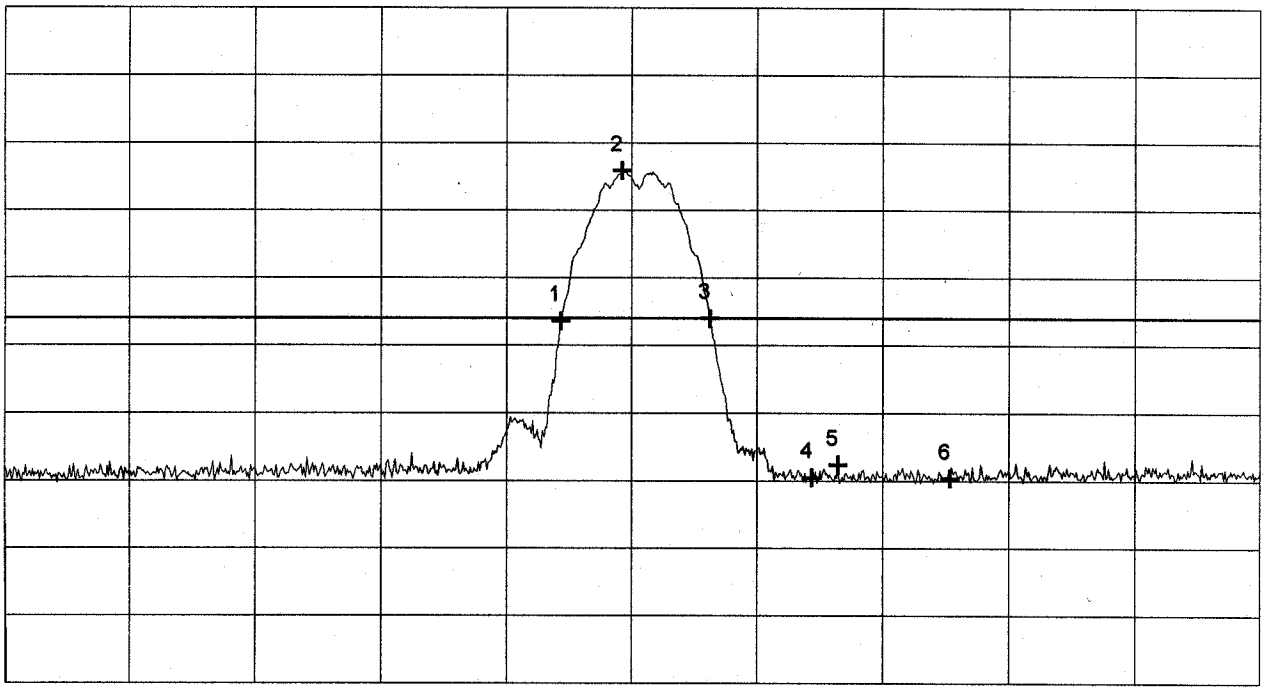
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.453500 GHz	73.57 dBµV/m
Nr.2	2.460833 GHz	95.89 dBµV/m
Nr.3	2.471333 GHz	73.95 dBµV/m
Nr.4	2.483500 GHz	50.46 dBµV/m
Nr.5	2.486667 GHz	52.34 dBµV/m
Nr.6	2.500000 GHz	50.36 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

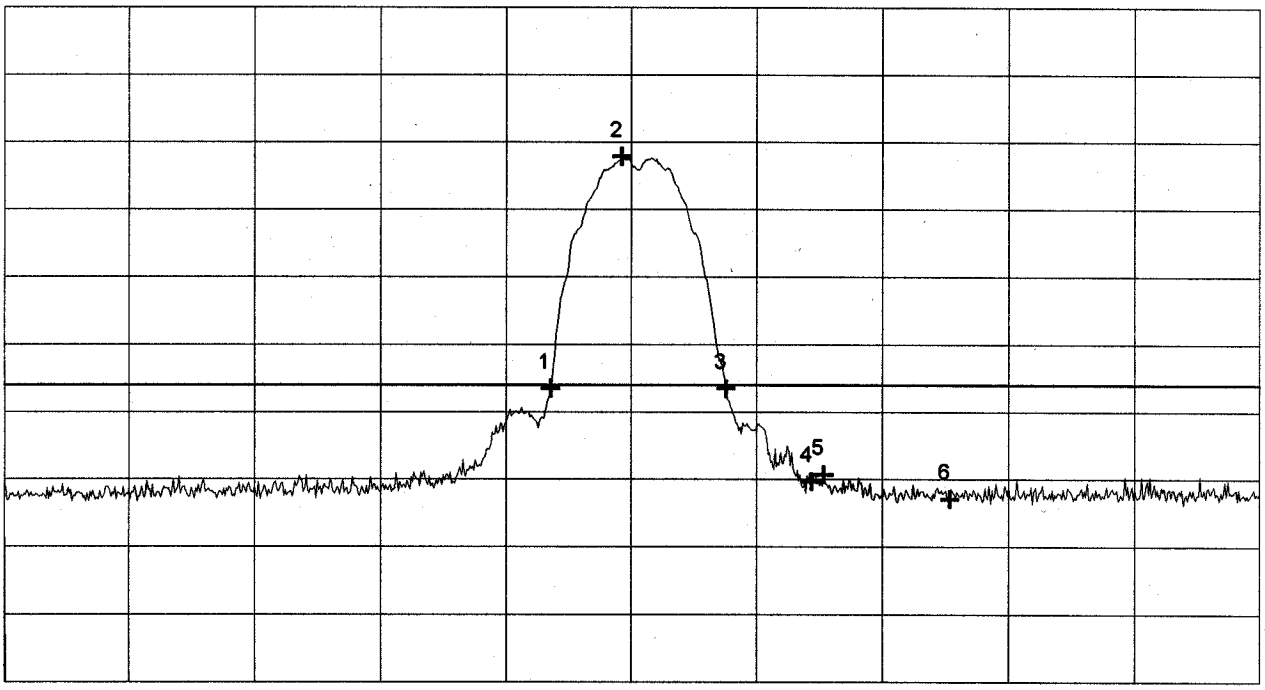
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.452333 GHz	73.51 dBµV/m
Nr.2	2.460833 GHz	107.89 dBµV/m
Nr.3	2.473333 GHz	73.46 dBµV/m
Nr.4	2.483500 GHz	59.62 dBµV/m
Nr.5	2.485000 GHz	60.66 dBµV/m
Nr.6	2.500000 GHz	57.06 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

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Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/11/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 2 MBit

- TX mode with f = 2.462 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4443	vertical	53.4		0.6	20.7	53.4	OB
2.4610	vertical	104.6		0.6	20.7	104.6	OB
2.4782	vertical	53.3		0.6	20.7	53.3	OB
2.4835	vertical	45.5		0.6	20.7	45.5	54
2.4847	vertical	45.7		0.6	20.7	45.7	54
2.5000	vertical	39.6		0.6	20.7	39.6	54
7.3871	vertical	43.1	-92.9		30.0	44.0	54

Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 104.6 dBµV/m.

Result: The limits are kept

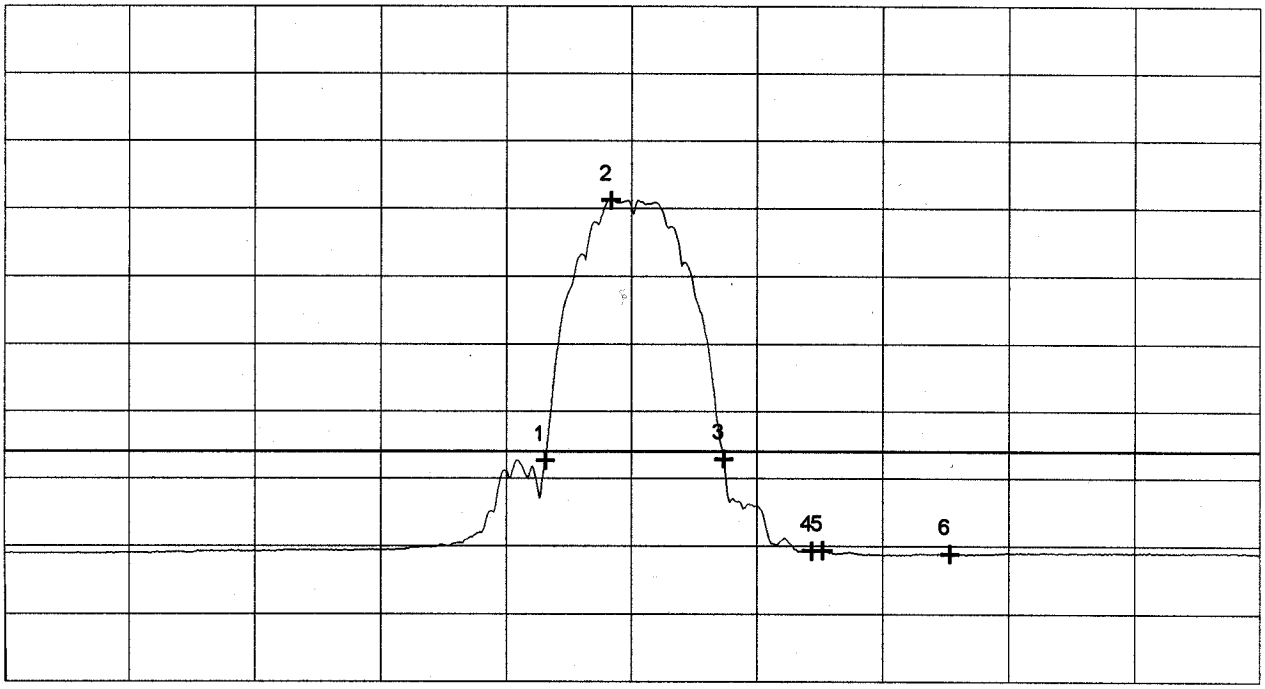
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.451667 GHz	52.59 dBµV/m
Nr.2	2.459500 GHz	91.19 dBµV/m
Nr.3	2.473000 GHz	52.87 dBµV/m
Nr.4	2.483500 GHz	39.26 dBµV/m
Nr.5	2.484833 GHz	39.31 dBµV/m
Nr.6	2.500000 GHz	38.83 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

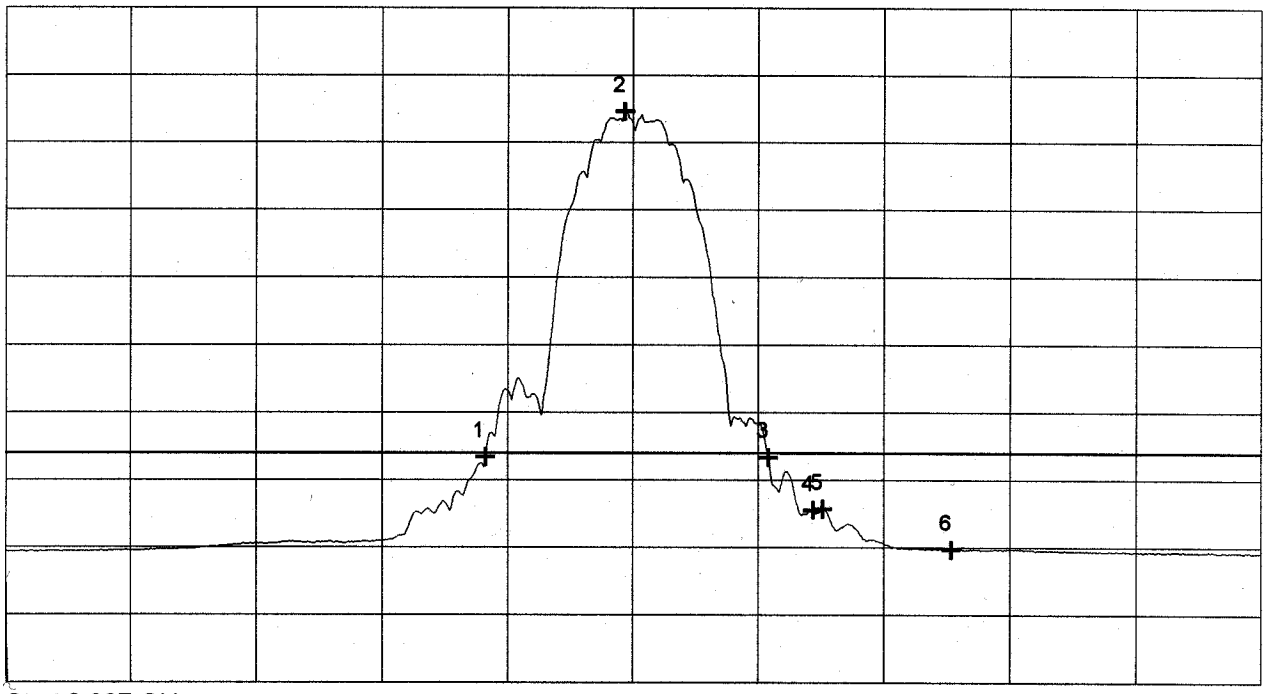
Radiated emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 2 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.444333 GHz	53.40 dBµV/m
Nr.2	2.461000 GHz	104.62 dBµV/m
Nr.3	2.478167 GHz	53.33 dBµV/m
Nr.4	2.483500 GHz	45.51 dBµV/m
Nr.5	2.484667 GHz	45.66 dBµV/m
Nr.6	2.500000 GHz	39.64 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-55 (Larsen)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/11/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 5 MBit

- TX mode with f = 2.412 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

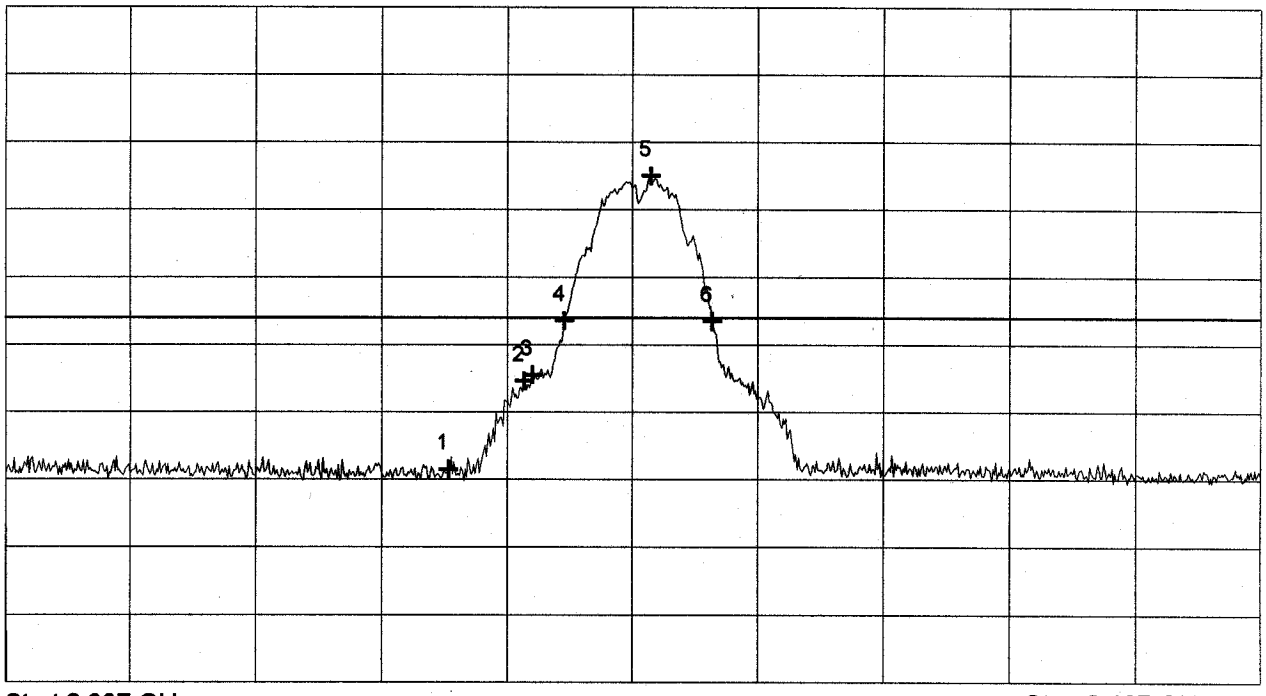
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	51.42 dBµV/m
Nr.2	2.399000 GHz	64.60 dBµV/m
Nr.3	2.400000 GHz	65.52 dBµV/m
Nr.4	2.403833 GHz	73.57 dBµV/m
Nr.5	2.414167 GHz	95.00 dBµV/m
Nr.6	2.421500 GHz	73.49 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

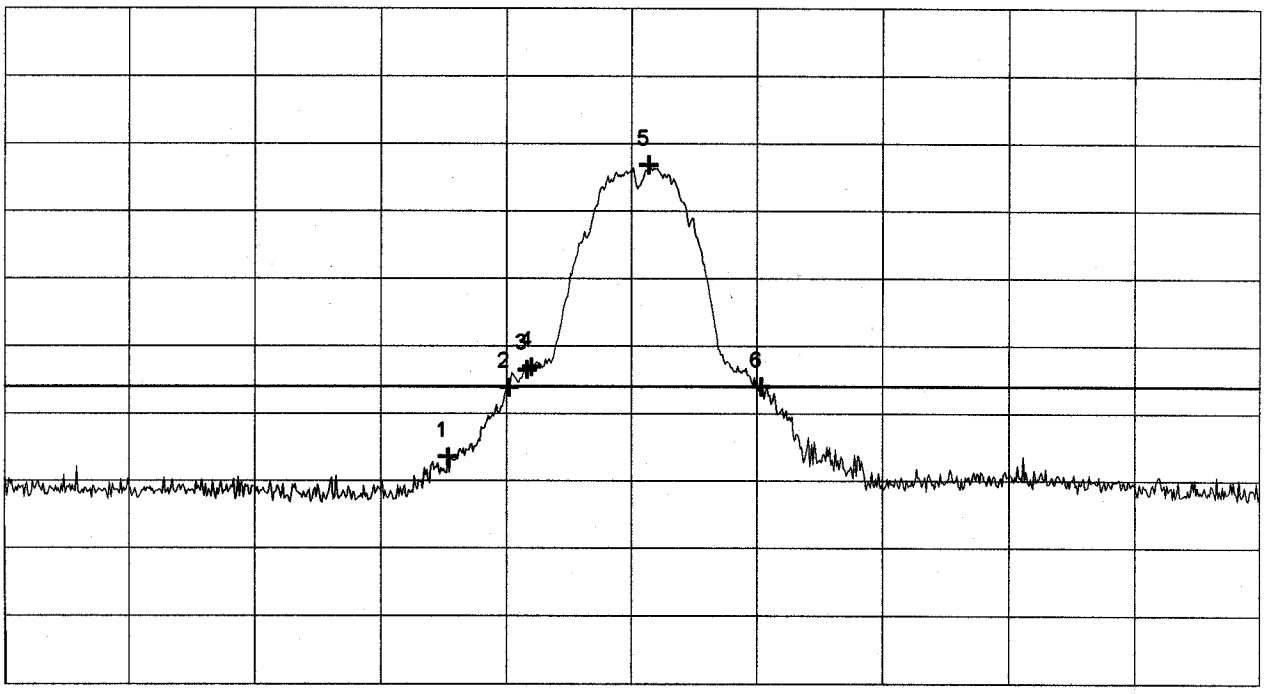
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	63.56 dBµV/m
Nr.2	2.397333 GHz	73.84 dBµV/m
Nr.3	2.399500 GHz	76.48 dBµV/m
Nr.4	2.400000 GHz	76.89 dBµV/m
Nr.5	2.414000 GHz	106.83 dBµV/m
Nr.6	2.427500 GHz	73.99 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

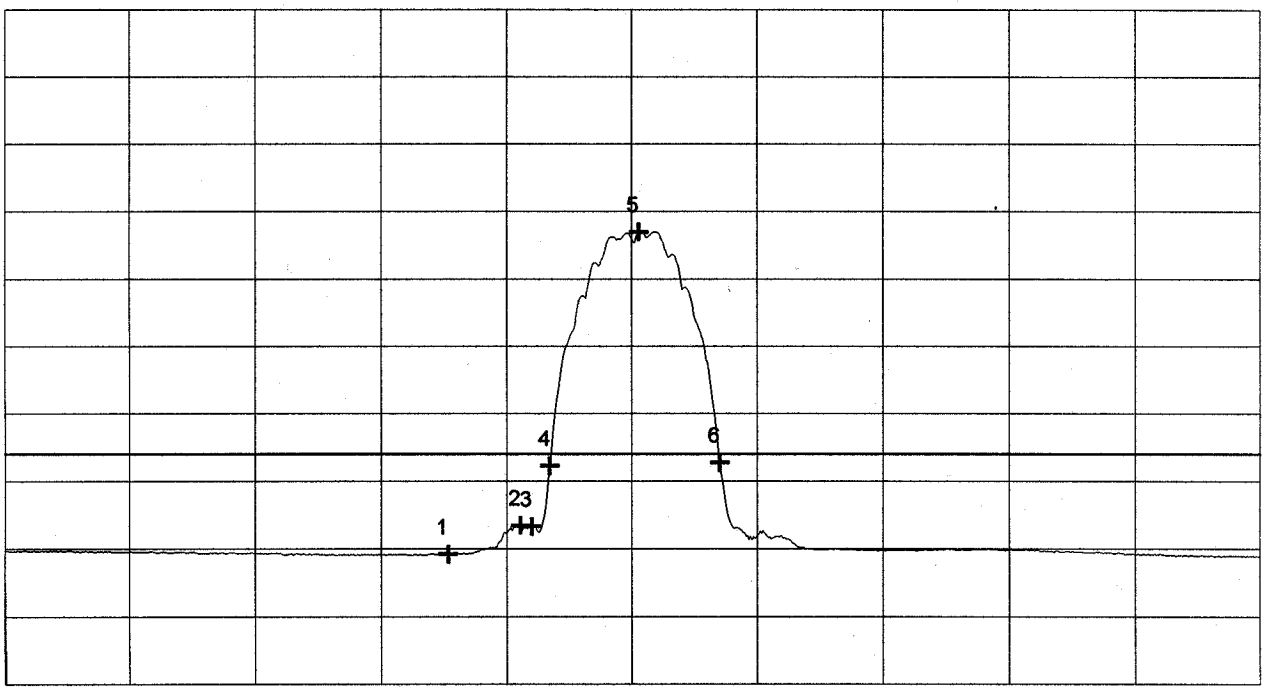
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	39.18 dBµV/m
Nr.2	2.398667 GHz	43.42 dBµV/m
Nr.3	2.400000 GHz	43.27 dBµV/m
Nr.4	2.402167 GHz	52.21 dBµV/m
Nr.5	2.412833 GHz	86.95 dBµV/m
Nr.6	2.422500 GHz	52.72 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

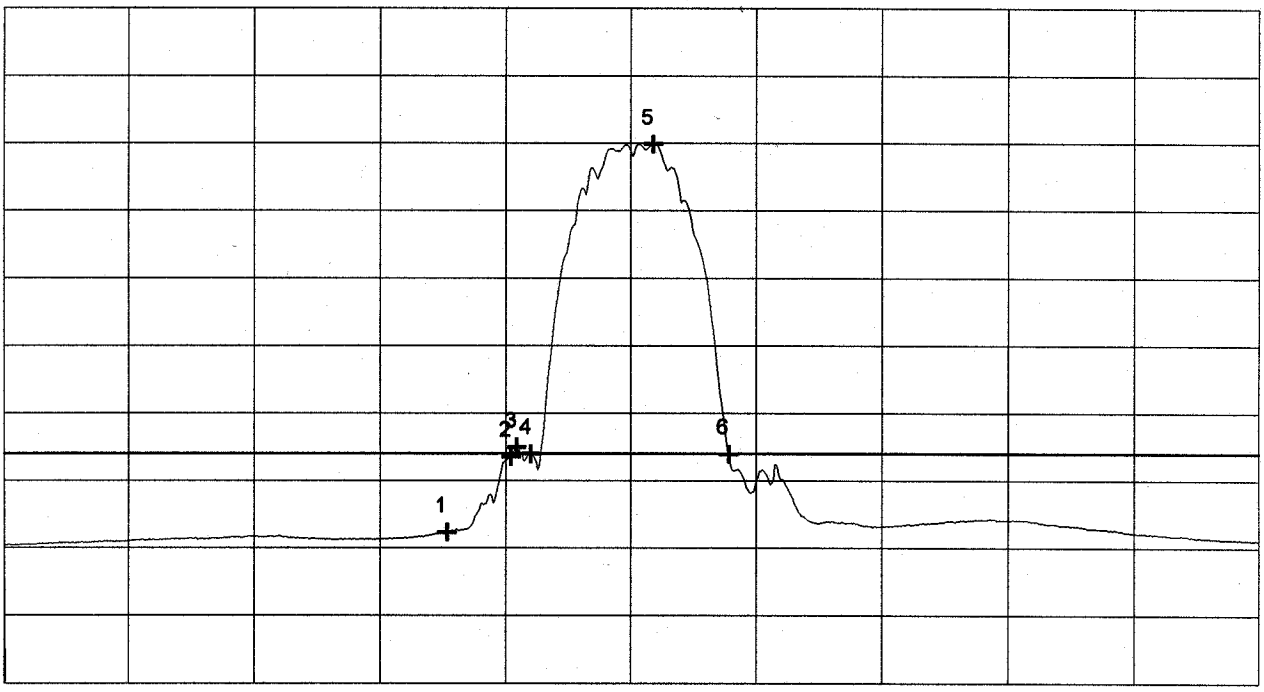
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

****** Multi Marker ******

Nr.1	2.390000 GHz	42.28 dBµV/m
Nr.2	2.397667 GHz	53.53 dBµV/m
Nr.3	2.398333 GHz	54.93 dBµV/m
Nr.4	2.400000 GHz	53.94 dBµV/m
Nr.5	2.414667 GHz	99.85 dBµV/m
Nr.6	2.423667 GHz	53.89 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-55 (Larsen)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/11/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 5 MBit

- TX mode with f = 2.442 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

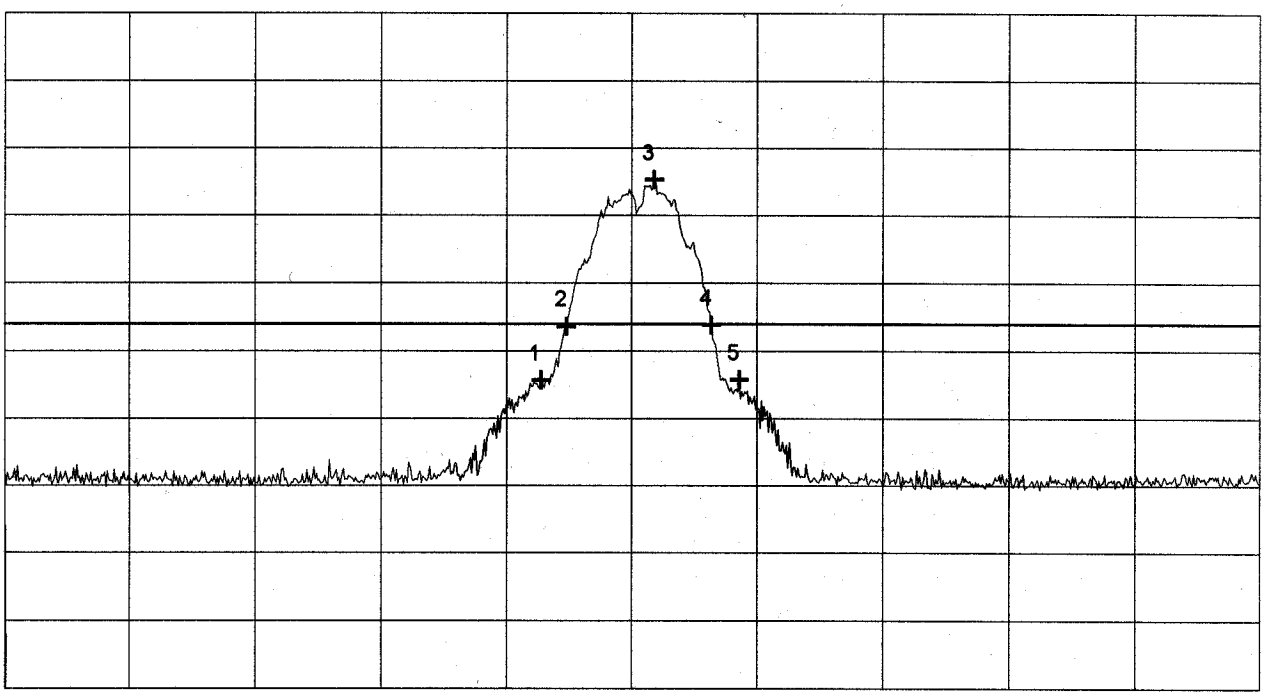
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.431167 GHz	65.69 dBµV/m
Nr.2	2.434167 GHz	73.62 dBµV/m
Nr.3	2.444667 GHz	95.30 dBµV/m
Nr.4	2.451500 GHz	73.84 dBµV/m
Nr.5	2.454833 GHz	65.77 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

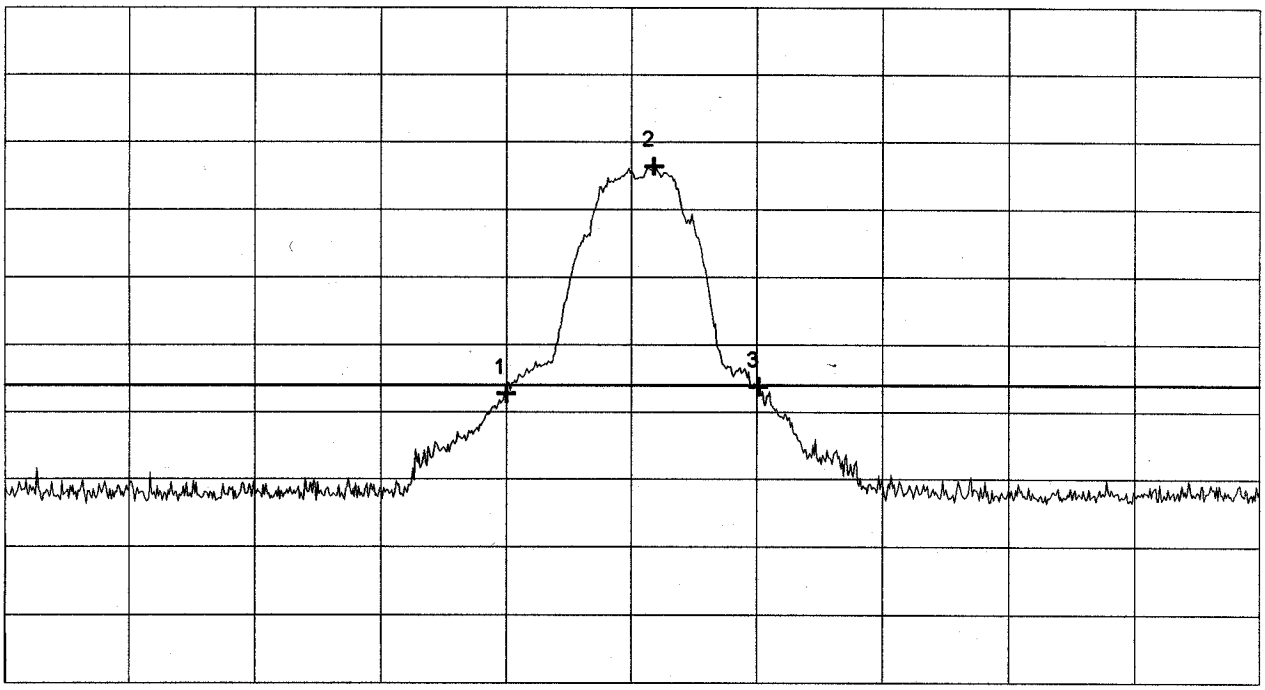
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.427000 GHz	72.72 dBµV/m
Nr.2	2.444667 GHz	106.40 dBµV/m
Nr.3	2.457167 GHz	73.77 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

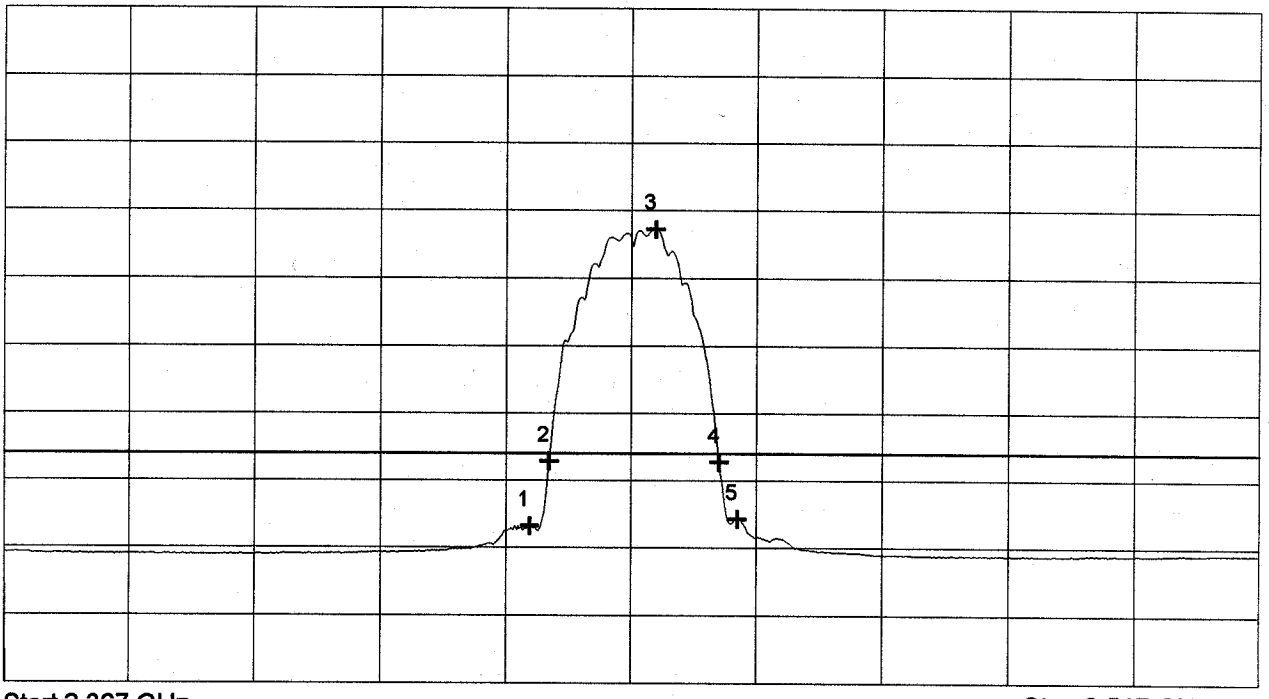
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.429833 GHz	43.19 dBµV/m
Nr.2	2.432167 GHz	52.82 dBµV/m
Nr.3	2.444833 GHz	87.18 dBµV/m
Nr.4	2.452500 GHz	52.72 dBµV/m
Nr.5	2.454667 GHz	44.24 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

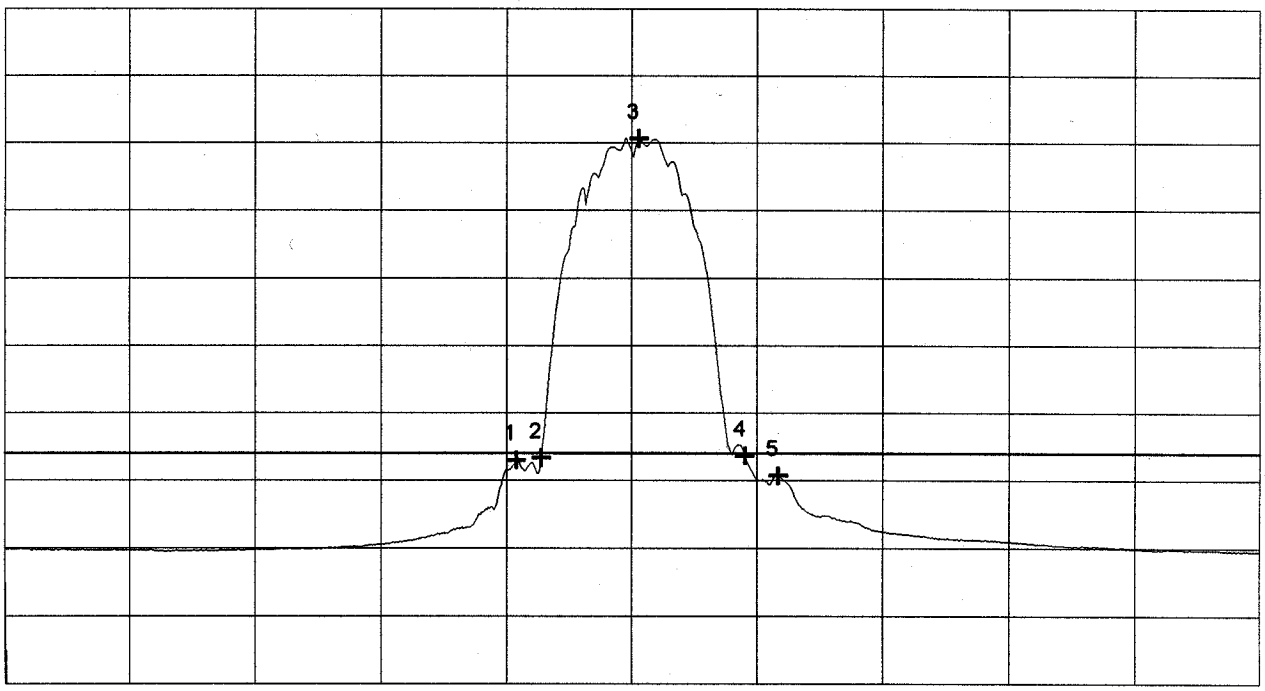
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.428167 GHz	52.95 dBµV/m
Nr.2	2.431167 GHz	53.30 dBµV/m
Nr.3	2.442833 GHz	100.66 dBµV/m
Nr.4	2.455500 GHz	53.63 dBµV/m
Nr.5	2.459500 GHz	50.71 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-55 (Larsen)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/11/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 5 MBit

- TX mode with f = 2.462 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

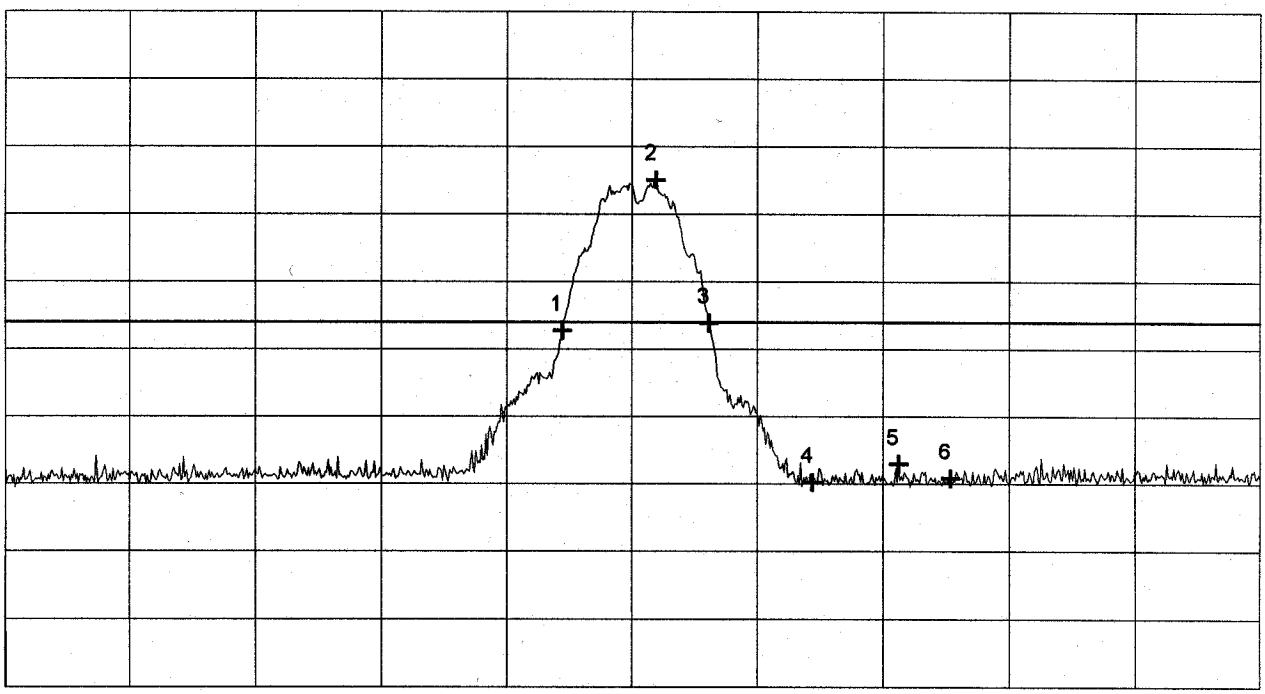
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.453667 GHz	72.73 dBµV/m
Nr.2	2.464833 GHz	95.07 dBµV/m
Nr.3	2.471167 GHz	73.87 dBµV/m
Nr.4	2.483500 GHz	50.18 dBµV/m
Nr.5	2.493833 GHz	52.92 dBµV/m
Nr.6	2.500000 GHz	50.79 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

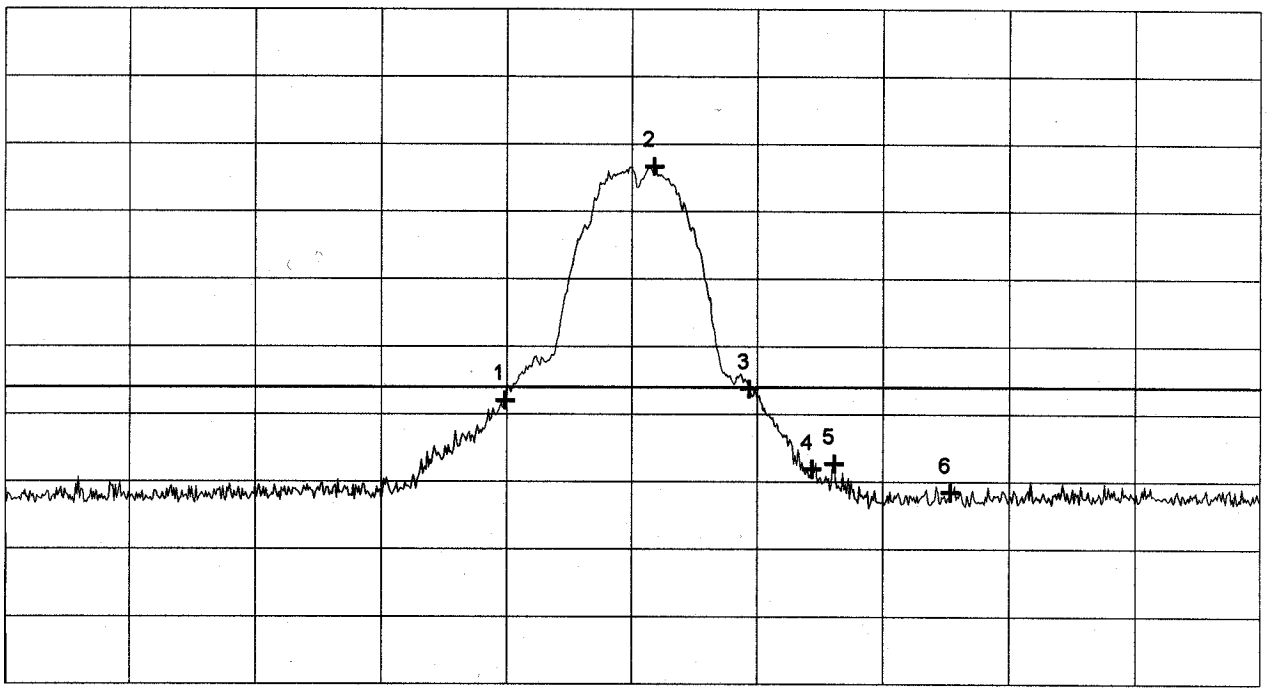
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.446833 GHz	71.99 dBµV/m
Nr.2	2.464667 GHz	106.68 dBµV/m
Nr.3	2.476000 GHz	73.74 dBµV/m
Nr.4	2.483500 GHz	61.88 dBµV/m
Nr.5	2.486167 GHz	62.67 dBµV/m
Nr.6	2.500000 GHz	58.40 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

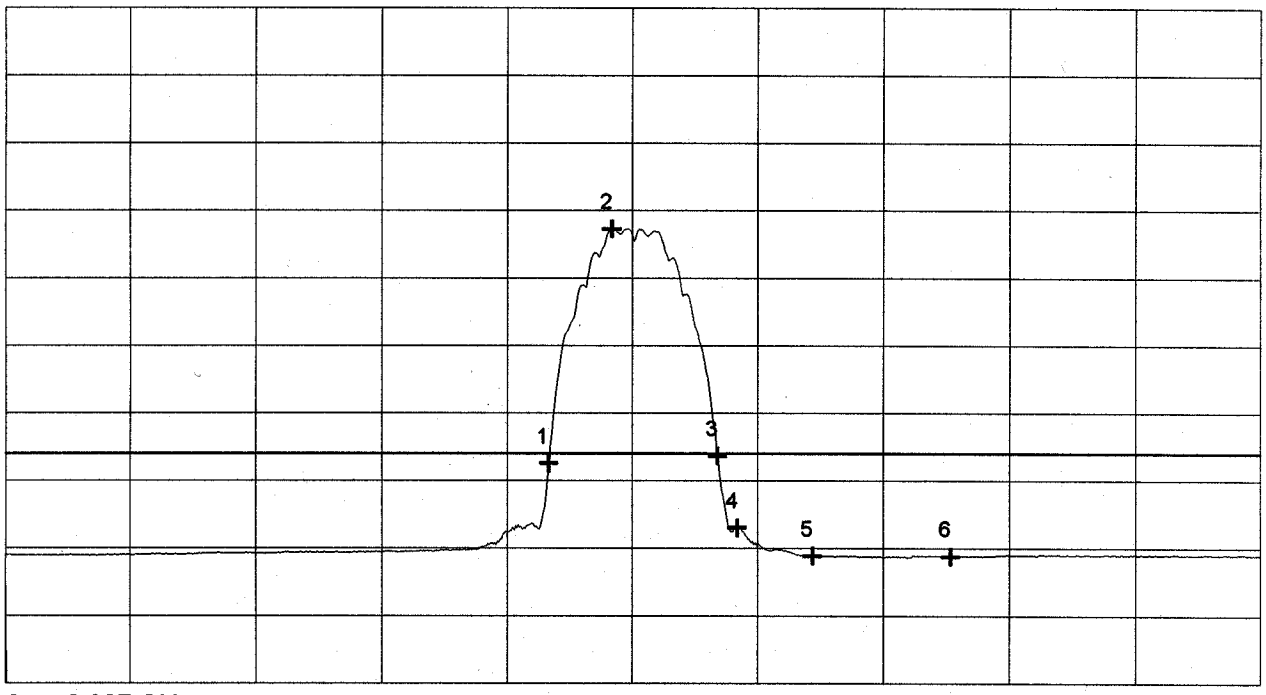
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.452000 GHz	52.49 dBµV/m
Nr.2	2.459500 GHz	87.25 dBµV/m
Nr.3	2.472167 GHz	53.63 dBµV/m
Nr.4	2.474500 GHz	42.97 dBµV/m
Nr.5	2.483500 GHz	38.83 dBµV/m
Nr.6	2.500000 GHz	38.75 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

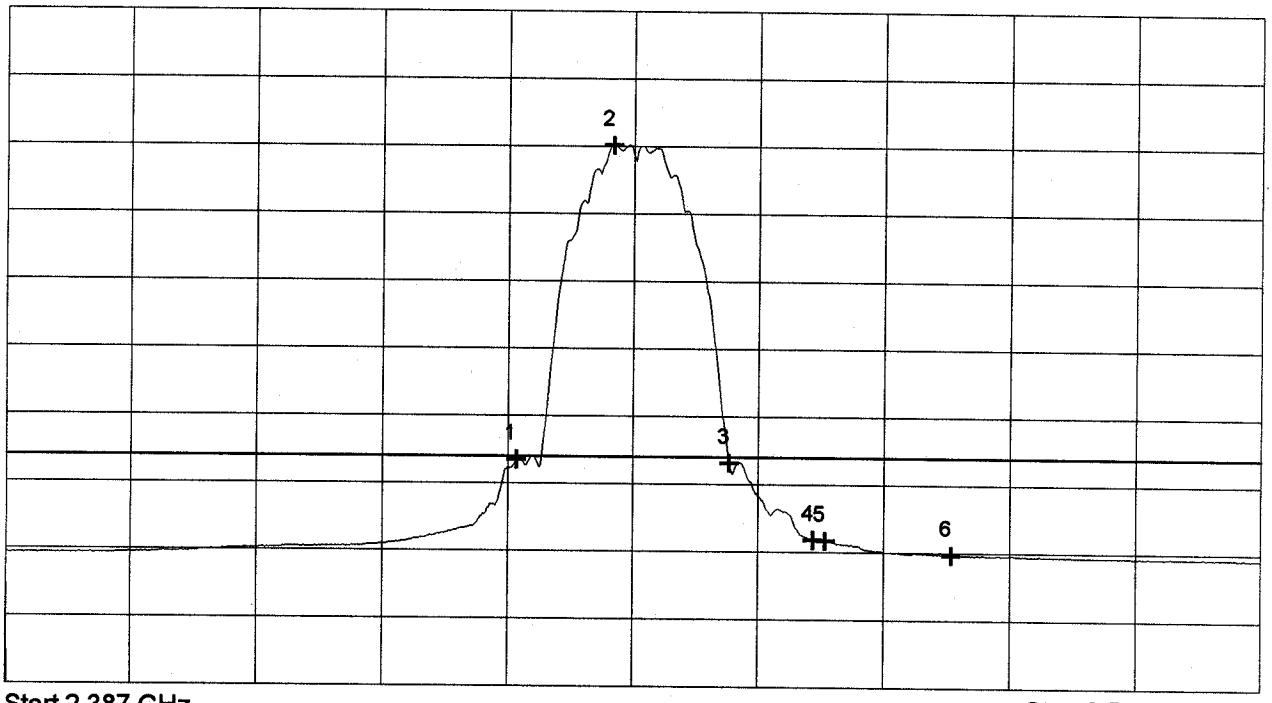
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 5 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.448000 GHz	53.50 dBµV/m
Nr.2	2.459500 GHz	100.15 dBµV/m
Nr.3	2.473500 GHz	53.12 dBµV/m
Nr.4	2.483500 GHz	41.77 dBµV/m
Nr.5	2.485000 GHz	41.65 dBµV/m
Nr.6	2.500000 GHz	39.61 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-55 (Larsen)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/11/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 8 MBit

- TX mode with f = 2.412 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

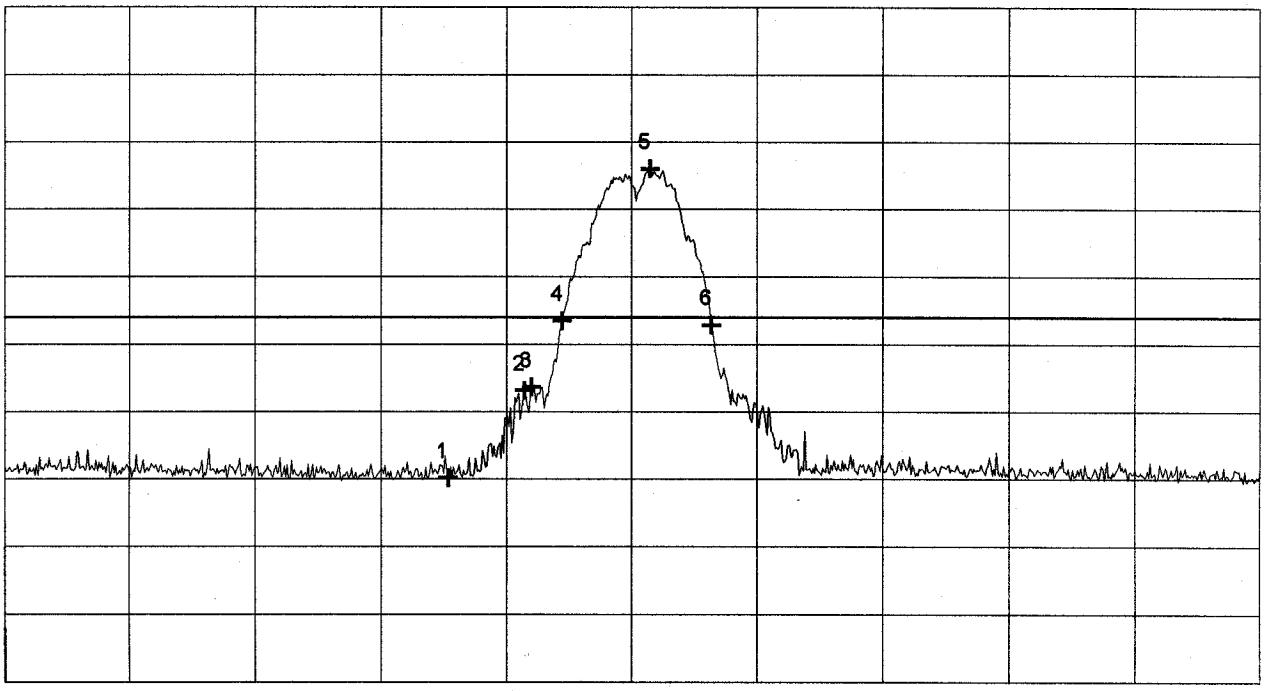
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	50.10 dBµV/m
Nr.2	2.399167 GHz	63.18 dBµV/m
Nr.3	2.400000 GHz	63.69 dBµV/m
Nr.4	2.403667 GHz	73.44 dBµV/m
Nr.5	2.414167 GHz	96.01 dBµV/m
Nr.6	2.421500 GHz	72.85 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

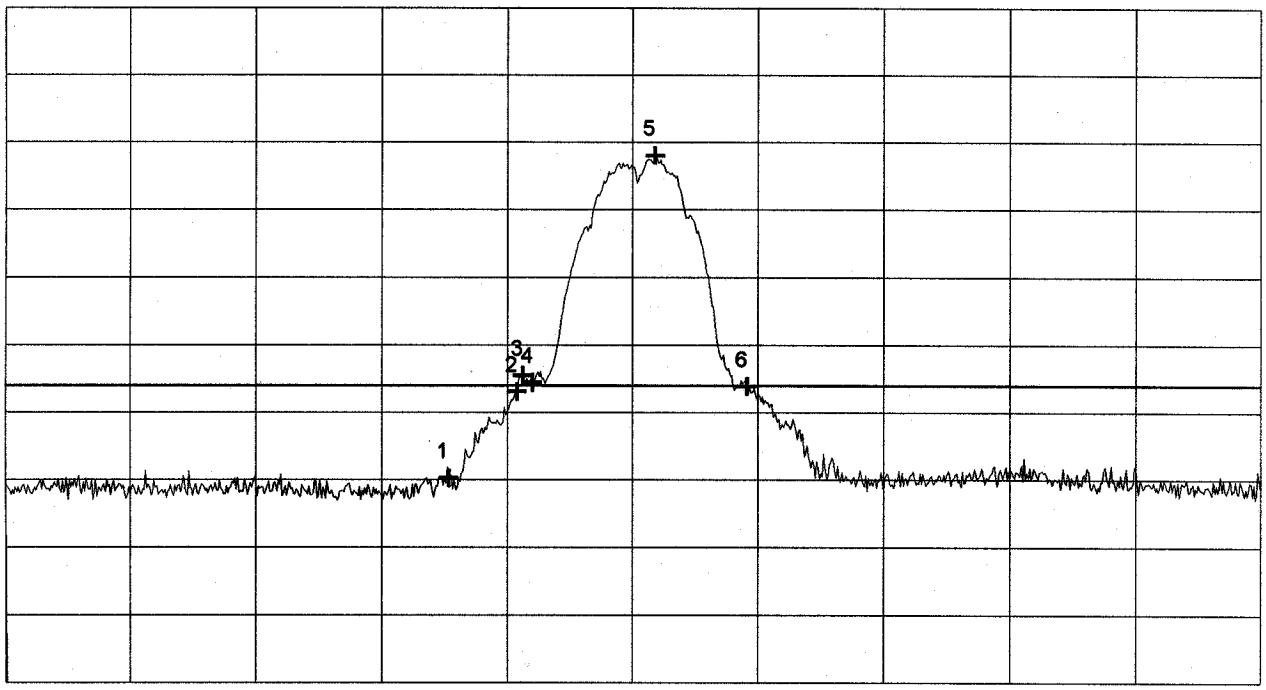
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.487 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.390000 GHz	60.23 dBµV/m
Nr.2	2.398167 GHz	73.08 dBµV/m
Nr.3	2.398833 GHz	75.49 dBµV/m
Nr.4	2.400000 GHz	74.45 dBµV/m
Nr.5	2.414667 GHz	108.02 dBµV/m
Nr.6	2.425667 GHz	73.89 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

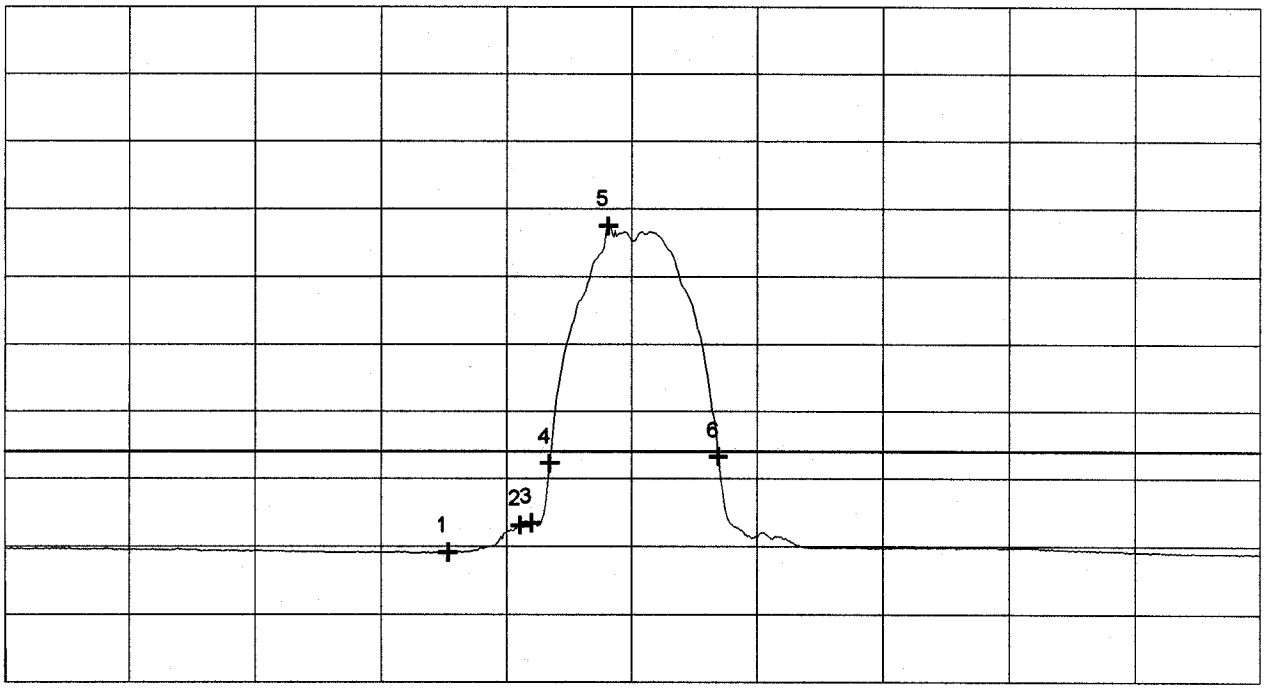
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	39.11 dBµV/m
Nr.2	2.398667 GHz	43.04 dBµV/m
Nr.3	2.400000 GHz	43.37 dBµV/m
Nr.4	2.402167 GHz	52.23 dBµV/m
Nr.5	2.409167 GHz	87.46 dBµV/m
Nr.6	2.422333 GHz	53.22 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Senton GmbH / EMV-Prüfzentrum / Äußere Frühlingstraße 45 / 94315 Straubing / Tel. 09421 55220

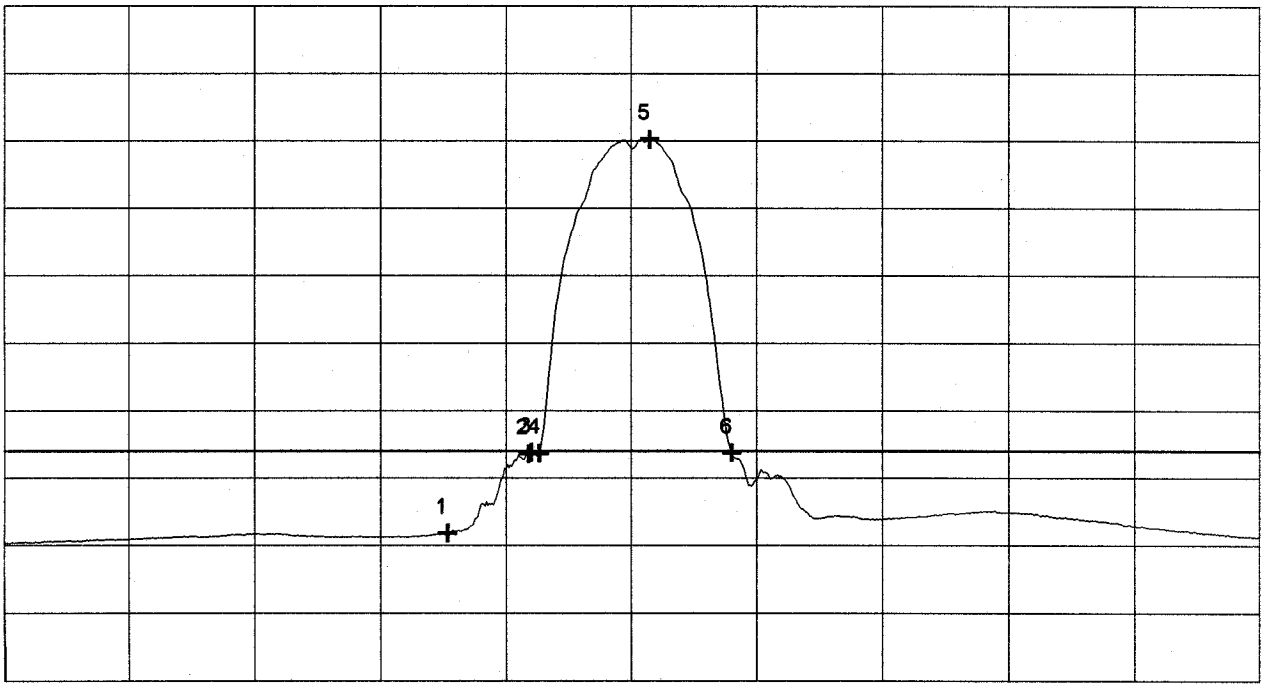
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.412 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.337 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.487 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.390000 GHz	41.77 dBµV/m
Nr.2	2.399667 GHz	53.56 dBµV/m
Nr.3	2.400000 GHz	53.78 dBµV/m
Nr.4	2.401000 GHz	53.63 dBµV/m
Nr.5	2.414167 GHz	100.25 dBµV/m
Nr.6	2.424000 GHz	53.71 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-55 (Larsen)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/11/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 8 MBit

- TX mode with f = 2.442 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

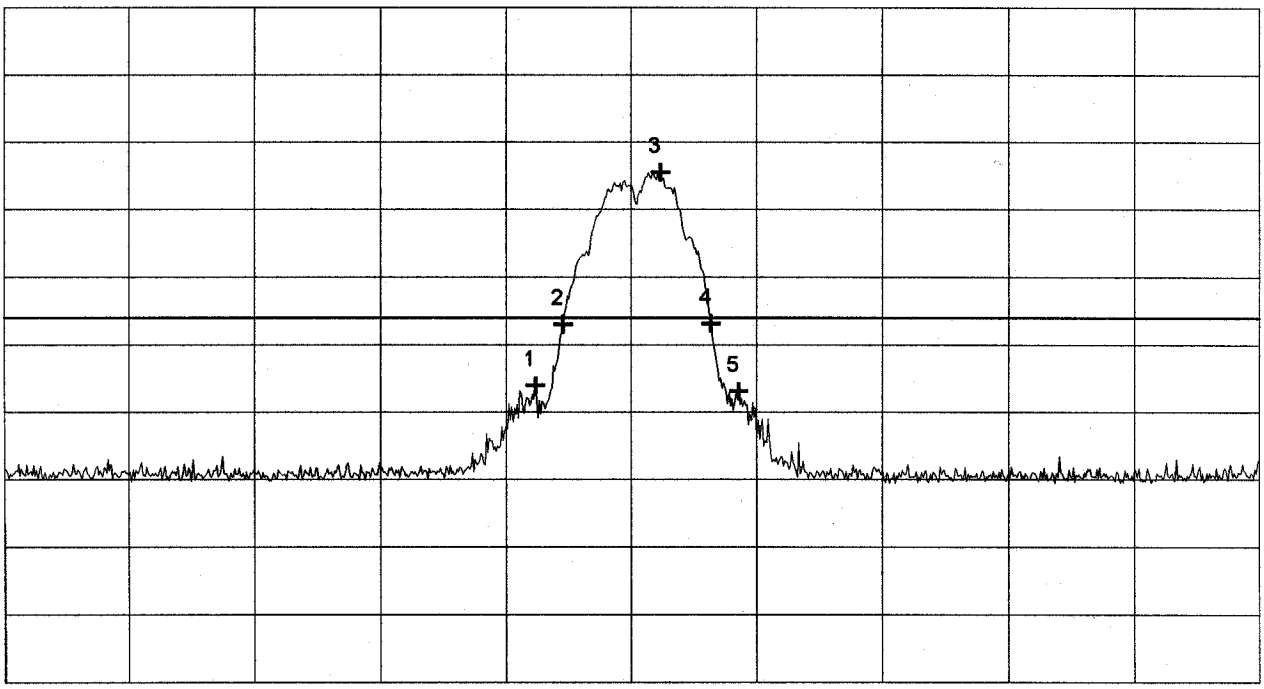
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.430500 GHz	63.94 dBµV/m
Nr.2	2.433833 GHz	73.03 dBµV/m
Nr.3	2.445500 GHz	95.51 dBµV/m
Nr.4	2.451500 GHz	73.13 dBµV/m
Nr.5	2.454833 GHz	63.08 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

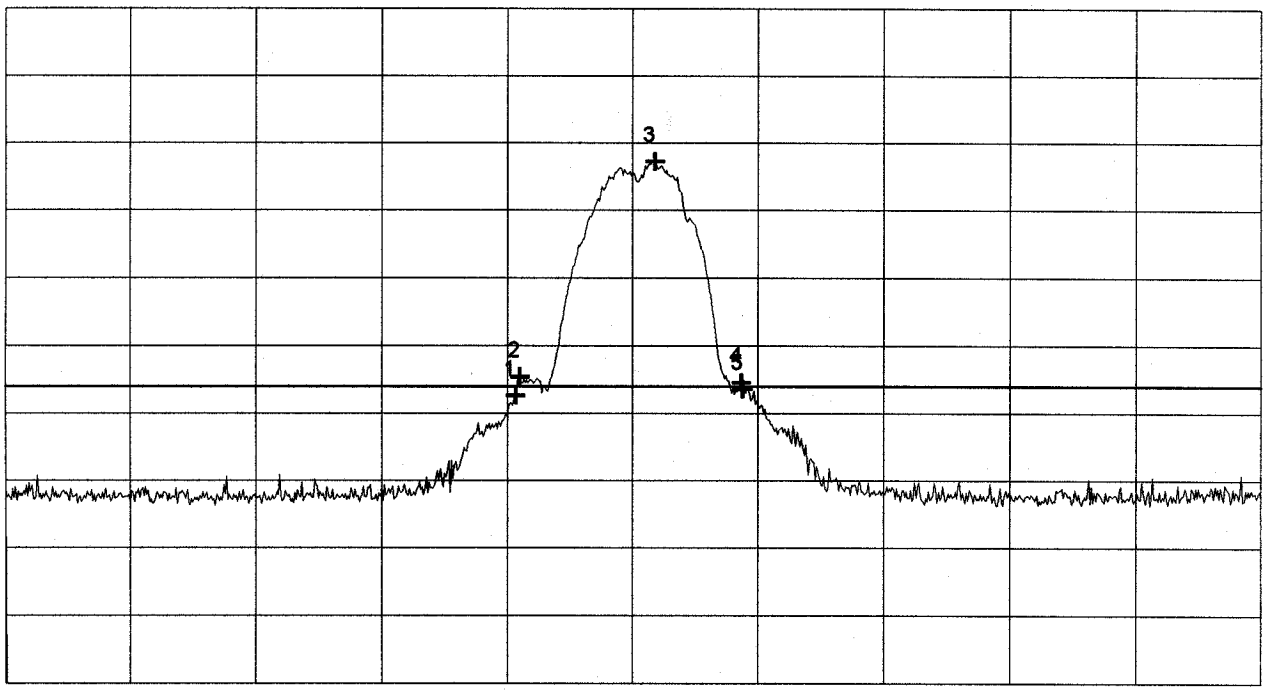
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.517 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.428000 GHz	72.65 dBµV/m
Nr.2	2.428500 GHz	75.39 dBµV/m
Nr.3	2.444667 GHz	107.21 dBµV/m
Nr.4	2.455000 GHz	74.58 dBµV/m
Nr.5	2.455167 GHz	73.61 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

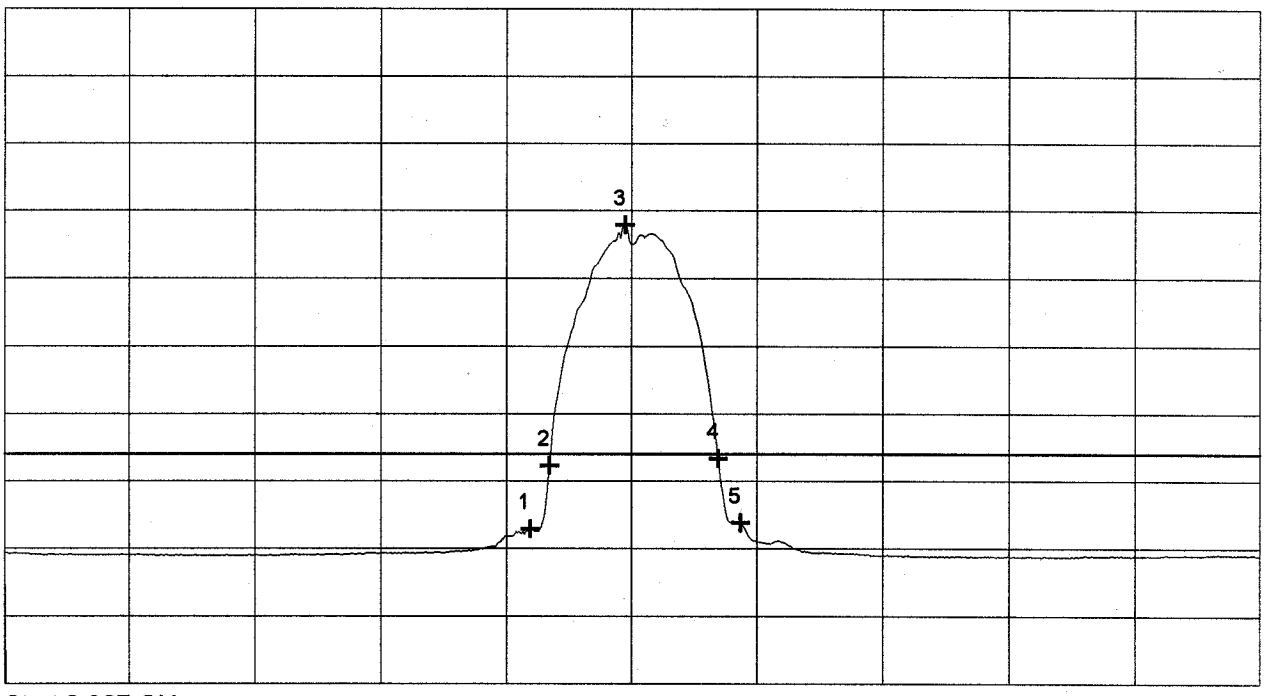
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.429833 GHz	42.86 dBµV/m
Nr.2	2.432167 GHz	52.29 dBµV/m
Nr.3	2.441167 GHz	87.89 dBµV/m
Nr.4	2.452333 GHz	53.33 dBµV/m
Nr.5	2.455000 GHz	43.75 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

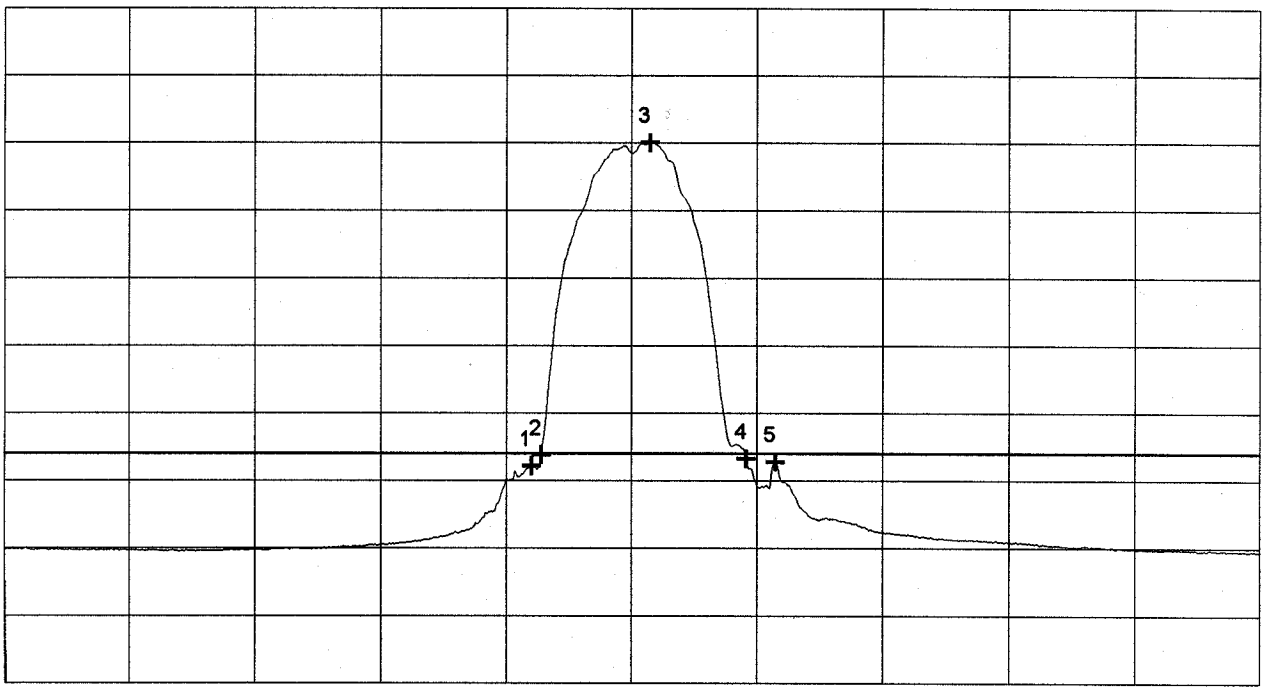
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.442 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.367 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.517 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.430000 GHz	52.16 dBµV/m
Nr.2	2.431167 GHz	53.78 dBµV/m
Nr.3	2.444167 GHz	100.05 dBµV/m
Nr.4	2.455667 GHz	53.25 dBµV/m
Nr.5	2.459167 GHz	52.77 dBµV/m
Nr.6		
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated Emission At Band Edges
according to FCC Part 15 Subpart C

Model:	PC24E-T-FC with AOU24-OD-55 (Larsen)
Type:	RF-modem with external antenna for wireless LAN
Serial No.:	84490006 (RF-modem), sample no. 1 (antenna)
Applicant:	Lucent Technologies Nederland B.V.
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	02/11/1999
Operator:	R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- operating with bit rate 8 MBit

- TX mode with f = 2.462 GHz

Note: Settings and correction factors are identical to operation mode with bit rate 2 MBit. For details see attached test records.

Result: The limits are kept

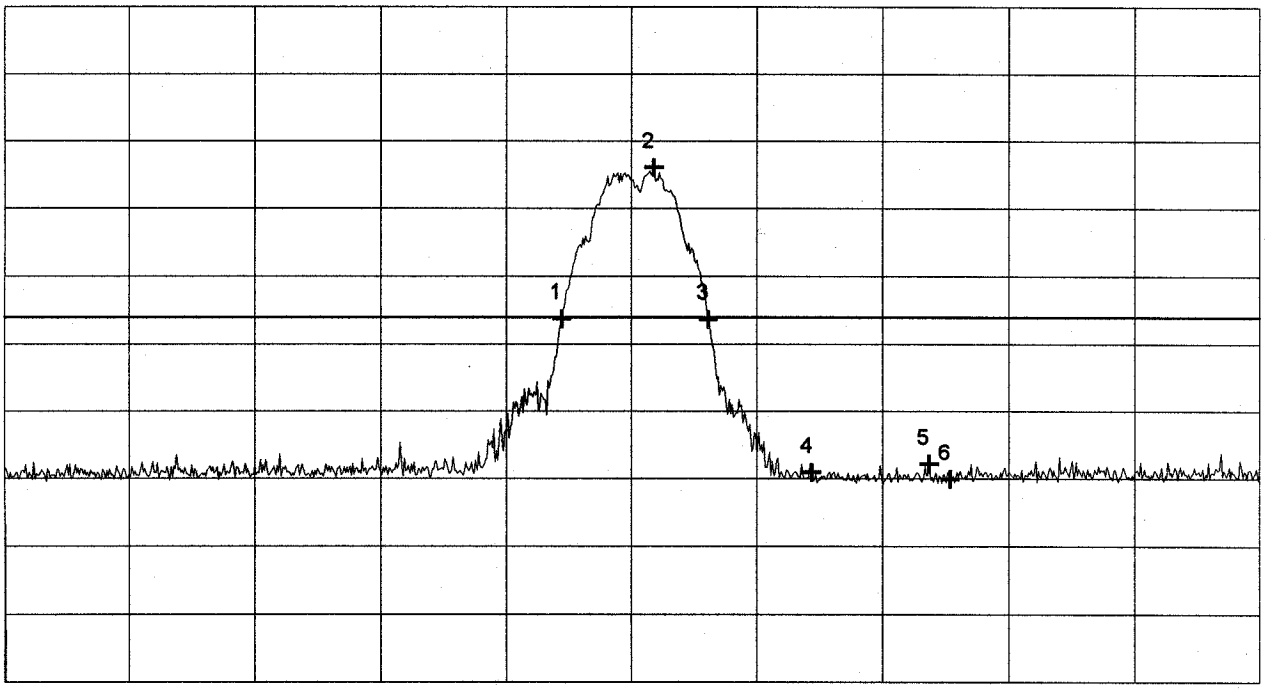
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

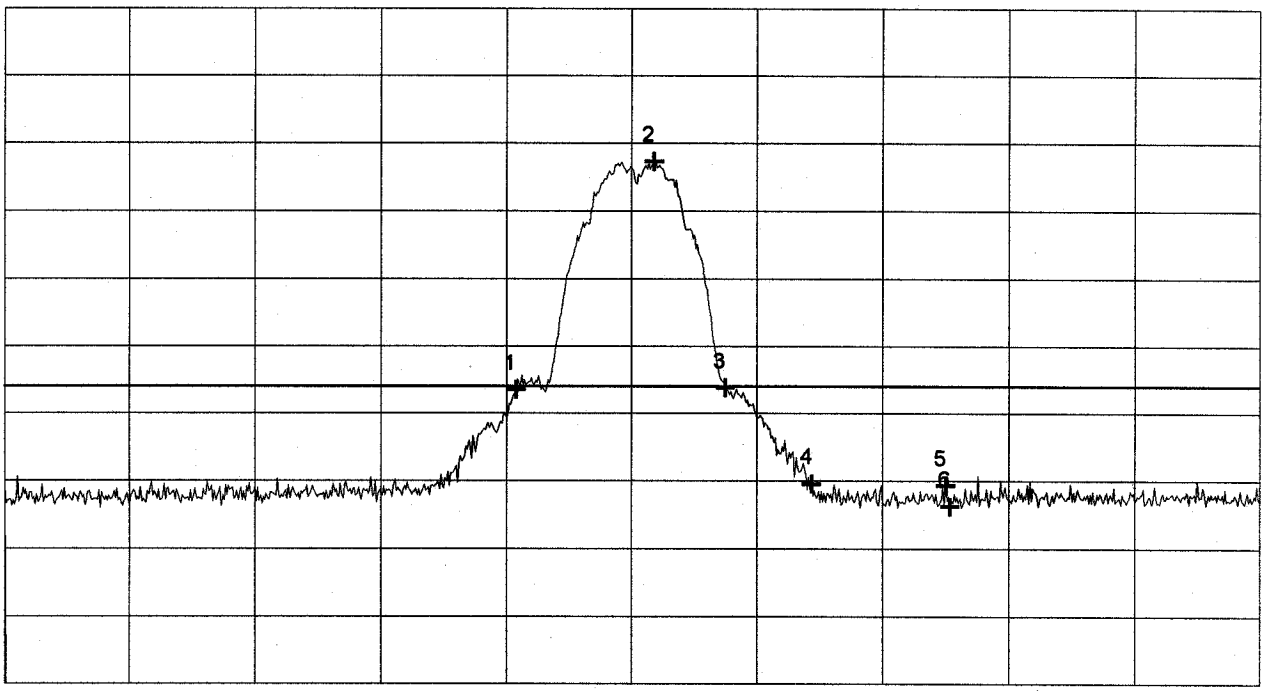
Nr.1	2.453667 GHz	73.74 dBµV/m
Nr.2	2.464667 GHz	96.04 dBµV/m
Nr.3	2.471167 GHz	73.64 dBµV/m
Nr.4	2.483500 GHz	50.89 dBµV/m
Nr.5	2.497500 GHz	52.16 dBµV/m
Nr.6	2.500000 GHz	49.90 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 130 dBµV/m
10 dB dB/Div.
ATT 5 dB
Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz
VBW 1 MHz
Stop 2.537 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	2.448167 GHz	73.49 dBµV/m
Nr.2	2.464667 GHz	107.31 dBµV/m
Nr.3	2.473167 GHz	73.79 dBµV/m
Nr.4	2.483500 GHz	59.52 dBµV/m
Nr.5	2.499500 GHz	59.29 dBµV/m
Nr.6	2.500000 GHz	56.22 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

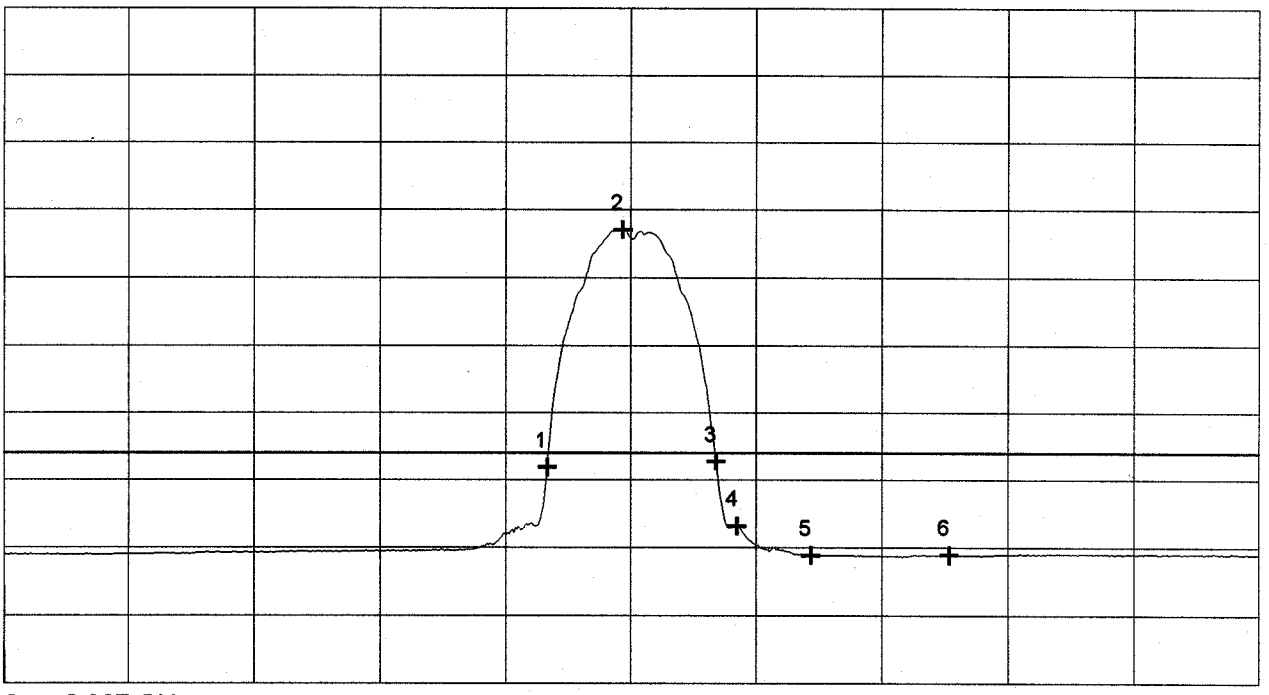
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: horizontal
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

**** Multi Marker ****

Nr.1	2.452000 GHz	51.83 dBµV/m
Nr.2	2.461000 GHz	87.05 dBµV/m
Nr.3	2.472167 GHz	52.74 dBµV/m
Nr.4	2.474667 GHz	43.14 dBµV/m
Nr.5	2.483500 GHz	38.83 dBµV/m
Nr.6	2.500000 GHz	38.88 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

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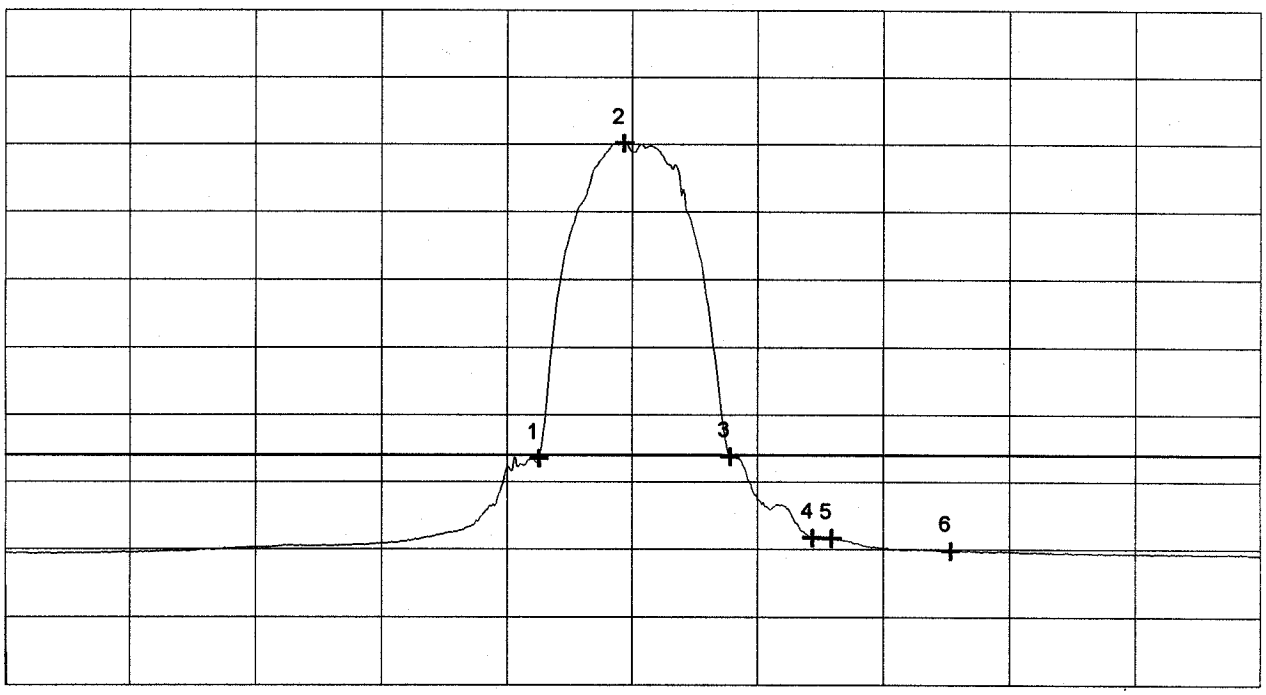
Radiated emission at band edges acc. to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)	Mode: - RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8) - FCC test setup - supply voltage 115 V AC - operating with external antenna AOU24-OD-55 - with 2.5 m antenna cable TBD - operating with bit rate 8 MBit - TX mode with f = 2.462 GHz Test distance: 3 meters Polarization: vertical
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)	
Applicant: Lucent Technologies Nederland B.V.	

Ref.Level 120 dBµV/m
10 dB dB/Div.

ATT 5 dB

Ref. Offset 21.3 dB



Start 2.387 GHz
RBW 1 MHz

VBW 100 Hz

Stop 2.537 GHz
SWP 4.60 s

****** Multi Marker ******

Nr.1	2.450833 GHz	53.45 dBµV/m
Nr.2	2.461000 GHz	100.13 dBµV/m
Nr.3	2.473667 GHz	53.73 dBµV/m
Nr.4	2.483500 GHz	41.65 dBµV/m
Nr.5	2.485833 GHz	41.59 dBµV/m
Nr.6	2.500000 GHz	39.72 dBµV/m
Nr.7		
Nr.8		

Tested by: Rainer Heller	Project-No.: 56305-90067-1
Date: 02/11/1999	

Test results for setup no. 3

Receive (RX) mode

Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
Applicant: Lucent Technologies Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 02/11/1999
Operator: R. Heller

Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- RX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.095	horizontal	40.6	-96.8		29.4	39.5	74

Result: The limits are kept

Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C

Model: PC24E-T-FC with AOU24-OD-55 (Larsen)
Type: RF-modem with external antenna for wireless LAN
Serial No.: 84490006 (RF-modem), sample no. 1 (antenna)
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Test-site: Semi anechoic room
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Mode:
- RF-modem PC24E-T-FC mounted in AT & T Globalyst 550 via ISA card ISAPC-B0 (#B2-8)
- FCC test setup
- supply voltage 115 V AC
- operating with external antenna AOU24-OD-55
- with 2.5 m antenna cable TBD

- RX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
1.0 - 12.4	Margin of peak values to average limit > 10 dB						54
12.4 - 12.5	Margin of average values to average limit > 15 dB						54

Result: The limits are kept